



**JUBILANT
GENERICS**

JGL/EHS/MOEF/2019-20/047

November 29, 2019

The Additional Principal Chief Conservator of Forests(C)
Minister of Environment Forests & Climate Change
4th Floor , E&F Wing
Kendriya Sadan
17th Main Road , II nd Block
Koramangala,
Bangalore-560034

Subject: Submission of Six Monthly Compliance Report.

Reference: Environment Clearance No.SEIAA: 27 IND 2016, dtd. 28.04.2017.

Dear Sir,

With reference to the above said subject, please find enclosed herewith Six Monthly Compliance Report for the period of April 2019 to September 2019.

This is for your information and records.

Thanking You

Yours Faithfully

For **Jubilant Generics Limited**

Authorised Signatory

Note: All information provided/submitted herewith is commercial confidential data/information, trade secrets and/or intellectual property(s) etc. of the Company or its group Companies. The Company humbly requests you to treat the data/information submitted herewith as "Strictly Confidential", and not to provide/discard/share any data/information to any third person/party as the same is exempted from disclosure under Section 8 of the Right to Information Act, 2005 ("RTI Act"). In the event of any person makes any application to you seeking any information about the Company, the Company requests you to please issue a prior written notice to the Company along with reasonable opportunity of representation to the Company as envisaged under Section 11(1) of the RTI Act. No disclosure of any data/information can be made to any third person/party without Company's consent under the provisions of the RTI Act

A Jubilant Pharma Company

OUR VALUES



Jubilant Generics Limited

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CIN:U24100UP2013FLC060821

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**Jubilant Generics Ltd. – API & Intermediates
at Nanjangud Industrial Area, Mysore, Karnataka**

Compliance Report for the Period – April 2019 to September 2019 for Environment Clearance No.SEIAA 27 IND 2016, dtd. 28.04.2017 accorded by State Environment Impact Assessment Authority - Karnataka (constituted by MoEF, Government of India)

Part-A: SPECIFIC CONDITIONS

Sr.No	Condition	Compliance Status
1	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R 608 (E) dated 21 st July , 2010 and amended time to time shall be followed by the unit	Complied. Regular monitoring of ambient air quality, Process emission and treated effluent are being carried out. The Monitoring reports are being submitted to the KSPCB regional office at regular intervals. Reports are enclosed as Annexure-1 .
2.	The total effluent generation shall not exceed 553 KLD. the domestic sewage shall be treated in the STP of capacity 100 KLD and Industrial effluent such as High TDS effluent shall be treated in the physico-chemical treatment plant of 250 KLD followed by MEE of 300 KLD , Biological Treatment Plant of 440 KLD and RO and Low TDS effluent shall be treated in Biological Treatment Plant followed by RO	Complied. Average total effluent generation is 253 KLD. Average Sewage effluent of 63 KLD is treated in Sewage treatment plant. Average High TDS effluent of 102 KLD is treated in Physiochemical treatment followed by stripper, MEE, Biological treatment system and Reverse osmosis. Concentrated effluent from MEE is treated in ATFD. Average Low TDS effluent of 88 KLD is treated in Biological systems followed by RO, MEE and ATFD. The effluent generation is commensurate to actual production.
3.	In ETP shall ensure to prevent ground water contamination due to leakage from unlined tanks	Complied. All new tanks Installations are above ground. For tanks installed on ground, periodic integrity checks and maintenance are undertaken to prevent ground water contamination.
4.	Total water requirement from KIADB water supply shall not exceed 1313 KLD and prior permission shall be obtained from the concerned Authority. No ground water shall be used.	Complied. Total water requirement is 344 KLD (Average value for the six months) and it is procured from KIADB. There is no extraction of ground water for domestic as well as industrial use. The water consumption is commensurate to actual production and water conservation measures adopted.
5.	The process emissions from the incinerator from the incinerator, boiler shall be dispersed through stack of adequate height as per CPCB/KSPCB standards. The gaseous emissions from the DG set shall be dispersed through stack height as per CPCB standards shall be provided. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied. Incinerator, DG sets and Boilers are connected with stacks of adequate height as per CPCB/KSPCB standards. Acoustic enclosures are provided in DG sets by design to mitigate Noise pollution and is monitored/Maintained regularly for efficacy. Reports are enclosed as Annexure-2 .
6.	Ambient air quality data shall be collected as per NAAQS standards, notified by the Ministry vide G.S.R No.826 (E) dated 16 th September, 2009. The levels of	Complied. Ambient air quality monitoring carried out as per NAAQS standards. Levels of PM10, PM2.5, NOX, SO2 and NH3

	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, VOC and HCL shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF – Bangalore, SEIAA – Karnataka, the respective zonal office of CPCB and the KSPCB.	in ambient air and stack emissions are being monitored and displayed at the main gate. VOC levels are also being monitored at periodic intervals. Monitoring reports are regularly submitted to regional office KSPCB at regular intervals, uploaded in company website and being updated half yearly. Reports are enclosed as Annexure-3 .
7.	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF – Bangalore, SEIAA, the respective zonal office of CPCB and the KSPCB. The levels of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, VOC (ambient levels) and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	Complied. Compliance status to the conditions stipulated in Environmental clearance is displayed in company website and will be updated half yearly. Levels of PM ₁₀ , PM _{2.5} , NO _x , SO ₂ and NH ₃ in ambient air and stack emissions are being monitored and displayed at the main gate. Compliance status will be sent to the Regional office of MoEF – Bangalore, SEIAA, the respective zonal office of CPCB and the KSPCB
8.	The company shall obtain Authorization for collection , storage and disposal of hazardous waste under the Hazardous and other wastes (Management and Transboundary Movement) Rules , 2016 for management of hazardous wastes and prior permission from KSPCB shall be obtained for disposal of solid/hazardous waste to the TSDF .The concerned company shall undertake measures for firefighting facilities in case of emergency .	Complied. Existing Hazardous waste authorisation expired and renewal applied in line with Hazardous and other wastes (Management and Transboundary Movement) Rules , 2016 and awaiting approval. Fire fighting facilities like fire hydrant system, water monitors, foam monitors, portable fire extinguishers and fire tender is available to handle emergencies. Fire alarm systems are available in office areas and warehouses.
9.	In plant control measures for checking, fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials and water sprinkling system, Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the KSPCB.	Complied. Adequate control measures are available for minimising the fugitive emissions from all the vulnerable sources. Closed loop powder transfer systems and dust collection systems are available in powder handling areas. Closed loop pressure transfer systems, pumping systems, closed storage like tanks, drums, vent condensers are available for liquid handling. Solvent storage tanks have nitrogen blanketing systems to reduce fugitive emissions from storage tanks. Underground storage systems and insulated tank systems are being used to store more volatile solvents to reduce the vapour emissions. Fume hoods are available in Plants, QC and R&D laboratories. Work zone environment is being monitored regularly and monthly report is being submitted to Board office.
10.	Hazardous chemicals shall be stored in the tank farms, drums, carboys etc. Flame arresters shall be provided on the tank farm. Solvent transfer shall be by pumps.	Complied. Hazardous chemicals are being stored in the tank farms, drums, carboys etc. and transferred through pumps. Flame arresters are provided in the storage tanks.

11.	<p>The company shall undertake following waste minimization measures : -</p> <ul style="list-style-type: none"> a) Metering and control of quantities of active ingredients to minimize waste. b) Re-use 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 	<p>Complied.</p> <ul style="list-style-type: none"> a) All production activities are carried out as per predefined procedures which includes measuring of active ingredients through weighing systems, flow meters and level transmitters. b) By-Products recovered are recycled by selling them to actual users. c) Level controllers/indicators are available in the reactors and storage tanks to monitor the filling process and thereby minimizing the spillage and overflow. d) Closed loop handling system, powder transfer systems and pressure transfer systems are available e) Vents of reactors, distillation columns and driers are connected to two stage condensers to recover solvents. f) High pressure jet clean machines are used to reduce waste water generation as well as water consumption.
12.	<p>For control of fugitive emission following steps shall be followed :</p> <ul style="list-style-type: none"> a) Closed handling systems shall be provided for chemicals b) Reflux condenser shall provide over reactor c) System of leak detection and repair of pump/pipeline on preventive maintenance d) The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operation on chilled water. e) Cathodic/Level indicator protection shall be provided to the underground solvent storage tanks. 	<p>Complied.</p> <ul style="list-style-type: none"> a) Closed loop handling system are provided for handling of chemicals. b) Reflux condenser are provided for the reactors and distillation columns. c) Leak detection systems like VOC sensor, oxygen sensors, Hydrogen and Hydrogen sulphide sensors are available. Preventive maintenance systems are available for equipment and pump. d) Acids are transferred through closed loop handling system using pumps and pipelines. Vents of acid storage tanks are connected to trap receiver. e) Level Indicators are provided to the underground solvent storage tanks.
13.	<p>Solvent management shall be as follows :</p> <ul style="list-style-type: none"> a) Solvent used in the process shall be completely recovered and reused. b) Efforts are to be made recover inorganic salts. c) Reactor shall be connected to chilled brine condenser system d) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. 	<p>Complied.</p> <ul style="list-style-type: none"> a) Solvent used in the process are recovered and it is reused based on its quality and in compliance with GMP norms b) Inorganic salts such as Potassium carbonate, Ammonium Bromide, Sodium sulphide etc.,are recovered and sold as byproduct. c) Reactors are connected with 2 stage condensing system.. Primary condenser has water circulation and secondary condenser has chilled water or chilled brine circulation. d) Reactor and pumps are fitted with double mechanical seal to prevent leakages.

	<p>e) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery</p> <p>f) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>g) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>h) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>i) Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by KSCP B.</p>	<p>e) Condensers are available with adequate heat transfer area and design to maximize the recovery.</p> <p>f) Solvents are stored and handled in the dedicated area earmarked and storage area has flameproof electrical fixtures.</p> <p>g) Proper earthing and jumpers are provided for the pipelines/equipment carrying flammable solvent</p> <p>h) Electrical fittings in the process and flammable chemical handling & storage areas are flame proof. Solvents storage tanks are fitted with breather valves.</p> <p>i) Work zone environment monitoring performed at regular intervals and it is well within the prescribed limits for work place standards</p>
14.	No effluent shall be discharged outside the factory premises and "Zero" discharge concept shall be adopted.	<p>Complied.</p> <p>All the process effluent generated are treated through ETP ZLD systems comprising of Physiochemical treatment, stripper, Multiple effect evaporator, Agitated Thin Film Drier, Biological treatment and reverse osmosis. Permeate from RO is used in cooling tower make up.</p>
15.	Multi-cyclone followed by bag filter shall be provided to the incinerator to control particulate emissions prescribed by KSPCB. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/KSPCB guidelines	<p>Complied.</p> <p>Incinerator plant has multi-cyclone separator followed by venturi scrubber and packed bed wet scrubber circulated with caustic solution to remove the particulate matter and neutralize the flue gas. Flue gas from the incinerator is dispersed through the stack of adequate height installed as per CPCB/KSPCB guidelines.</p>
16.	Two staged chilled water/caustic scrubber shall be provided to process vents to control HCl. Two stage scrubbers with caustic lye media solution shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.	<p>Complied.</p> <p>Emission from process is passed through two stage condensers with water, chilled water/brine as cooling media to recover solvents followed by scrubber with appropriate scrubbing medium to control HCL/H₂S/SO₂ etc. The spent scrubber solution is treated in Effluent treatment plant. The gaseous emissions at the outlet of scrubber are being monitored and are well below the stipulated standards.</p> <p>Reports are enclosed as Annexure-1.</p>
17.	The hazardous and solid waste shall be disposed as per proposed EIA/EMP and the details of Hazardous & Solid waste is provided in the ANNEXURE-II along with quantity and disposal mechanism.	<p>Complied.</p> <p>Hazardous wastes are being disposed to authorized recyclers, re-processors, TSDF and Cement kilns as per our hazardous waste authorization. Solid wastes are being sent to recyclers and re-processors</p>
18.	Incinerator Ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water.	<p>Complied.</p> <p>Ash generated during its operation is collected in the HDPE bags and They are properly stored in the Hazardous waste storage area and disposed to common TSDF</p>
19.	During transfer of materials, spillage shall be avoided and gullies and drains be constructed to avoid mixing of	Complied,

	accidental spillages with domestic waste and storm drains.	Closed loop transfer systems are available to minimise spillage. Containment systems and garland drains are available to avoid mixing of accidental spillages with domestic waste and storm drains.
20.	The company shall harvest surface as well as rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve the fresh water	Not Applicable The entire property has shallow water table of less than 3 mtr in premonsoon season and less than 1 mtr in post monsoon season. The ground water recharge is not technically feasible/or recommended in areas where such water logging conditions occur. Further, the risk of organic matter contamination prevails due to precipitation of such vapour on roof tops over long periods of operation.
21.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per OISD 117 norms.	Complied. Several fire protection measures are installed like Flame proof equipment, ATEX approved equipment, grounding and bonding of equipment and pipelines, use of antistatic materials, flame arresters, periodical inspection and maintenance of these systems, hot work permit systems etc. Fire fighting facilities like fire hydrant system, water monitors, foam monitors, portable fire extinguishers and fire tender is available to handle emergencies. Fire alarm systems are available.
22.	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 in handling of chemicals shall be imparted.	Complied. Safety training material includes safe handling of chemicals, effects due to mishandling of chemicals and exposure to them. Pre-employment Medical examination is pre-requisite for the award of employment and periodic medical examination is conducted at for all the employees regularly.
23.	Usage of PPE's by all employees/workers shall be ensured	Complied. Activity wise PPE matrix is available and PPE adherence is closely monitored.
24.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Occupational health surveillance of the workers is being carried out on a regular basis at company's Occupational Health Center and the records maintained as per the factories Act.
25.	Greenbelt shall be developed in at least 33% of area with suitable species of the plants as per the CPCB guidelines to mitigate the effects of fugitive emissions. Selection of plant species shall be as per the CPCB guidelines.	Complied. Green belt area is developed around 40% area in compliance with the CPCB guidelines. Every year tree plantation is carried out to replace mortality
26.	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.	Complied. Adequate financial provision for environmental operations and monitoring purposes are made every year. For the FY 2019-20, Rs. 6.2 crores is allotted for effluent treatment and recycling processes and 1.28 crores allotted for environmental monitoring.

27.	The company shall comply with the recommendations made in the EIA/EMP/Risk assessment shall be included in the safety manual.	Complied. Recommendations from EIA/EMP are being followed. Required air pollution control measures, containment systems, monitoring systems are available.
28.	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The house may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment	Major expansion activities that requires huge number of construction labour are not being carried out now. The labours if at all engaged are from the local population and there are adequate facility for housing them in the community nearby. We have necessary infrastructure like canteen, drinking water, toilets, occupational health center etc to take care during expansion activities.
29.	Treatment of recalcitrant 's to be documented and kept at all times.	Complied. Effluents are segregated at source as Concentrated and Lean effluents. Most of the recalcitrant are separated from the system as Concentrated effluents are directly concentrated in MEE and ATFD.
30.	Adopts Good Management Practices (GMP) & Green chemistry.	Complied. National and International standards like Good Manufacturing Practices, ISO 9001, ISO 14001, BS OHSAS 18001 etc. are being followed. Continuous efforts through Our Research and Development team to a) Adopt practices that improves the yield of the raw material that enhances the utilisation of resources like Raw materials, water, energy, etc. b) Identify alternate sources of raw materials that are less toxic and has low environment foot print. c) Develop alternate manufacturing processes that generates less toxic effluent and biologically degradable and less solid waste generation.
31.	Storage facilities for the fuel shall be made in the plant area in consultation with Department of Explosives, Nagpur. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of Fuel.	Complied. Obtained PESO license from Ministry of Commerce & Industry. Storage of fuel (HSD) is complying to the conditions stipulated in the license. On-Site Emergency Management Plan is available and mock drill rehearsals are carried out in line with the Onsite-Emergency management plan.
32.	Strictly comply with the provisions of the Bio-Medical Waste Management Rules, 2016 while disposing the biomedical waste.	Complied. Obtained Biomedical Waste Authorisation and the biomedical wastes are handled and disposed to KSPCB authorised agencies.
33.	The project authorities also shall earmark at least 2.5% of the total cost of the project towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Authority.	Complied. Several initiatives are being carried out as part of Corporate Social Responsibility including community welfare measures through Jubilant Hartia Foundation (JBF) in villages around the Industry.
34.	The industry shall not operate without a functional effluent treatment plant as per the order of the Hon'ble Supreme court dated February 22, 2017 in W.P.No 375 of 2012.	Complied. Effluent treatment plant and zero liquid discharge systems are being operated to treat and recycle all the effluent generated.

B	GENERAL CONDITIONS:	
1.	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Board (KSPCB)	Complied. Stipulations made by Karnataka State Pollution Control Board are being adhered to
2.	At no time, the emissions shall exceed the prescribed limits. in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved	Complied. Emissions are being monitored and are well within the prescribed limits. Pollution control systems are operated round the clock, DG sets is being used as an alternate power supply in case of failure of power. Standby systems available for critical pollution control equipment and will be operated in case of failure of the operating equipment. During failure of any pollution control systems, production activities shall be shut down until the desired efficiency of pollution control systems are achieved. Reports are enclosed as Annexure-1 .
3.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA/Ministry of Environment and Forests as the case may be. In case of deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the Authority to assess the adequacy of conditions imposed and to add additional environmental protection measured required , if any	Condition Noted and it shall be adhered.
4.	The gaseous emission (PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, VOC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, VOC shall be carried.	Complied. Emissions are being monitored and are well within the prescribed limits. Pollution control systems are operated round the clock, DG sets is being used as an alternate power supply in case of failure of power. Standby systems available for critical pollution control equipment and will be operated in case of failure of the operating equipment. During failure of any pollution control systems, production activities shall be stopped until the desired efficiency of pollution control systems are achieved. AAQM reports are enclosed as Anneexure-3 . VOC Reports are enclosed as Annexure-4 .
5.	The project authorities shall strictly comply with the rules and regulation under manufacture, storage and import of Hazardous chemicals rules, 1989 as amended in October 1994 and January 2000. All transportation of Hazardous Chemicals shall be as per the MVA, 1989. Authorization from the KSPCB shall be obtained for collection, treatment, storage and disposal of Hazardous wastes.	Complied. Rules and regulation given under manufacture, storage and import of hazardous chemicals rules, 1989 are being adhered to. Transportation of hazardous chemicals carried out in compliance with MVA, 1989. Existing Hazardous waste authorisation dated 08.09.2015 expired on 30.06.2019 and applied for renewal and amendment and awaiting for approval.
6.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous and other wastes (Management and Transboundary Movement) Rules 2016. Authorization from the KSPCB must be obtained for	Complied. Hazardous wastes are being handles and disposed in compliance with Hazardous and other wastes (Management and Transboundary Movement) Rules 2016. Existing Hazardous waste authorisation dated

	collection/treatment/storage/disposal of hazardous wastes.	08.09.2015 expired on 30.06.2019 and applied for renewal and amendment and awaiting for approval.
7.	Application of solar energy should be incorporated for illumination if common areas, lighting for gardens and street lighting in addition to provision of solar water heating. A hybrid system or fully solar system for lighting and heating should be provided. Details in this regard should be submitted to the SEIAA.	Complied. Solar light are installed in the non process area. Solar power plant of 20 KW capacities and Solar water heater of 1000 liters per day capacity is installed.
8.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation, The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, Rules, 1989 viz DBA (day time) and 70 dBA (night time).	Overall noise levels in and around the plant area are being controlled within the prescribed limits through installation of acoustic enclosures, silencers and hoods. The ambient noise levels are measured at regular intervals and it is below the prescribed standards. Reports are enclosed as Annexure-5 .
9.	The project proponent shall also comply with all the environmental protection measures and safeguards as per the information provided	All environmental protection measures and safeguards as per the information provided have been complied
10.	The implementation of the project vis-à-vis environmental action plans shall be monitored by MoEF, Regional office at Bangalore/KSPCB/CPCB and the Department of Environment & Ecology, Bangalore. A Six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance report is being submitted to the monitoring agencies. Previous report for the period Oct 18 to Mar 19 was submitted on 25.06.2019
11.	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the Authority at http://www/seiaa.karnataka.gov.in http://environmentclearance.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the MoEF Regional Office at Bangalore/KSPCB/CPCB and the Department of Environment & Ecology, Bangalore.	Complied. Advertisement about the accordance of Environment Clearance was published in two local newspapers namely Star of Mysore (in English) and Mysore Mithra (in Kannada) dated 19th May'2017. Details given as Annexure - 6 . Same was communicated vide letter no JGL/EHS/MoEF/2017-18/15 dt 24 May 2017, GL/EHS/DEE/2017-18/16 dt 24 May 2017, GL/EHS/KSPCB/2017-18/17 dt 24 May 2017 and GL/EHS/CPCB/2017-18/18 dt 24 May 2017
12.	The project authorities shall inform the MoEF Regional office at Bangalore/KSPCB/CPCB and the Department of Ecology and Environment, Bangalore, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Initiation of project activity is communicated vide letter no JGL/EHS/17-18/055 dated 13th Nov'2017. Phase 1 of the expansion is completed and obtained consent to operate. While executing the Phase 2 expansion, information will be submitted to the Authorities.
13.	The SEIAA, Karnataka may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted

14.	The SEIAA, Karnataka reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Shall be Complied
15.	The above conditions will be enforced , inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act , 1986 Hazardous and other wastes (Management and Transboundary Movement) Rules , 2016 and the Public Liability Insurance Act ,1991 along with their amendments and rules.	Noted
16.	The issue of Environment Clearance doesn't confer any right to the project proponent to operate / run the project without obtaining statutory clearances / sanctions from all the concerned Authorities.	All other relevant statutory clearances as applicable obtained from the concerned authorities
17.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act , 1986	Noted
18.	Any appeal against this environmental clearance shall lie with the National green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted
19.	Officials from the Department of Environment and Ecology, Bangalore / Regional office of MoEF, Bangalore who would be monitoring the implementation of Environmental safeguards should be given full cooperation facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF/SEIAA should be forwarded to the APCCF, Regional office of MoEF, Bangalore / Department of Ecology and Environment, Bangalore/Regional Officer, KSPCB Bangalore.	EIA report was submitted to the monitoring agencies..
20	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this authority.	Shall be complied.
21.	The Authority reserves the right to add additional safeguard measures subsequently , if found necessary , and to take action including revoking of the environment clearance under the provisions of the Environment (protection) Act , 1986 to ensure effective implementation if the suggested safeguard measures in a time bound and satisfactory manner.	Noted
22.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives , Fire department , Civil aviation department , Forest conservation Act, 1980 and wildlife (protection) Act,	All other relevant statutory clearances as applicable obtained from the competent authorities

	1972 etc. shall be obtained , as applicable by project proponents from the competent authorities .	
23.	These stipulations would be enforced among others under the provisions of water (prevention and control of pollution) Act, 1974. The Air (Prevention and Control of Pollution) act 1981 , the Environment (protection) Act , 1986 , the public Liability (Insurance) , Act, 1991 and EIA Notification , 2006.	Noted
24.	Under the provisions of Environment (protection) Act, 1986 legal action shall be initiated against the project proponent if it is found that environmental clearance.	Noted



Ganesh Consultancy & Analytical Services



(MoEF Recognised, FSSAI Notified Laboratory)

Test House : 294A, Hebbal Industrial Area, Mysuru - 570 016 Telephone : 2402986, 4282027
 Office : 1030, Geetha Road, Chamarajapuram, Mysuru - 570 005 Telephone : 2402987, 4253825
 Bengaluru Office : # 895, 2nd B Cross, Hosakere Halli, BSK 3rd Stage, Near Raghavendra Swamy Temple, Bengaluru - 560 085
 Mob : 9845475436 Email : info@ganeshlaboratory.com, lab.ganesh@gmail.com • Web : www.ganeshlaboratory.com

ISO - 9001
 ISO - 14001
 R191 - 1115
 OHSAS - 18001
 ROH91 - 8744

TEST REPORT

CUSTOMER ADDRESS,
 M/s. Jubilant Generics Limited,
 # 56, Industrial area,
 Nanjangud-571302,

Control No
 Customer reference
 Date of report

Page 1 of 1
 D: 1546-G/2019-20
 Po, No: 4400060219,
 Dt: 24-05-2019
 01-10-2019

1) Sample description: Flue Gas
 2) Sampled by : Lab Personnel

3) Date of Sampling 25-09-2019
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-1, Scrubber-1001
2	Stack Height above Ground	24 m
3	Stack diameter	0.50 m
4	Cross Section Area	0.1964 m ²
5	Ambient Temperature	29°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	6.20 m/sec
8	Quantity of Flue gas discharges into the atmosphere	3968.75 Nm ³ /hr

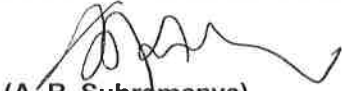
Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	8.77	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	2.11	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	17.66	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.02	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.15	Lab SOP-AM (S)
6	Hydrogen sulphide	ppmv	BDL (DL:1.0)	IS 11255 (Part-4):2006

Note: BDL: Below Detection Limit, DL: Detection Limit.

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020


 Authorised Signatory

For GANESH CONSULTANCY & ANALYTICAL SERVICES


 (A. R. Subramanya)



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(MoEF Recognised, FSSAI Notified Laboratory)

Test House : 294A, Hebbal Industrial Area, Mysuru - 570 016 Telephone : 2402986, 4282027

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TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-I/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

3) Date of Sampling 25-09-2019

4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-3, Scrubber-3001
2	Stack Height above Ground	20 M
3	Stack diameter	0.20 m
4	Cross Section Area	0.0314 m ²
5	Ambient Temperature	29°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	5.74 m/sec
8	Quantity of Flue gas discharges into the atmosphere	587.44 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	9.05	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	2.16	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	12.86	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.26	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.11	Lab SOP-AM (S)
6	Hydrozoic Acid	mg/Nm ³	BDL (DL:1.0)	Lab SOP-HA

Note: BDL: Below Detection Limit, DL: Detection Limit.

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020

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TEST REPORT

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CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No

D: 1546-D/2019-20

Customer reference

Po, No: 4400060219,

Dt: 24-05-2019

Date of report

01-10-2019

- 1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

- 3) Date of Sampling : 24-09-2019
4) Sampling protocol : IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-4, Scrubber-4001
2	Stack Height above Ground	15 m
3	Stack diameter	0.20 m
4	Cross Section Area	0.0314 m ²
5	Ambient Temperature	30°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	5.83 m/sec
8	Quantity of Flue gas discharges into the atmosphere	598.64 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	8.10	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	5.15	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	16.56	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.55	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.20	Lab SOP - AM (S)

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020


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TEST REPORT

CUSTOMER ADDRESS,
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56, Industrial area,
Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-F/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

- 1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

- 3) Date of Sampling 24-09-2019
4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-5, Scrubber-5001
2	Stack Height above Ground	15 m
3	Stack diameter	0.20 m
4	Cross Section Area	0.0314 m ²
5	Ambient Temperature	29°C
6	Flue gas Temperature	26°C
7	Flue gas Velocity	5.73 m/sec
8	Quantity of Flue gas discharges into the atmosphere	590.34 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	8.17	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	3.14	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	16.09	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.61	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.29	Lab SOP - AM (S)

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020


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(A. R. Subramanya)



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TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited,
56, Industrial area,
Nanjangud-571302,

Control No
Customer reference
Date of report

Page 1 of 1
D: 1546-E/2019-20
Po, No: 4400060219,
Dt: 24-05-2019
01-10-2019

1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

3) Date of Sampling : 25-09-2019
4) Sampling protocol : IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-6001
2	Stack Height above Ground	15 m
3	Stack diameter	0.40 m
4	Cross Section Area	0.1257 m ²
5	Ambient Temperature	29°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	6.20 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2548.55 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	7.22	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	2.90	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	18.05	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.19	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.40	Lab SOP - AM (S)

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020

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TEST REPORT

CUSTOMER ADDRESS,
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Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-C/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

- 1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

3) Date of Sampling 24-09-2019

4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Pilot Plant Scrubber
2	Stack Height above Ground	15 m
3	Stack diameter	0.10 m
4	Cross Section Area	0.0078 m ²
5	Ambient Temperature	31°C
6	Flue gas Temperature	26°C
7	Flue gas Velocity	6.44 m/sec
8	Quantity of Flue gas discharges into the atmosphere	164.81 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	8.18	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	2.30	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	14.62	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.15	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.32	Lab SOP - AM (S)

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020

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TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-H/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

3) Date of Sampling 25-09-2019
4) Sampling protocol IS 11255


Sl. No	General parameters	Details of stack
1	Stack connected to	R & D, Fume Hood
2	Stack Height above Ground	3 m ARL
3	Stack diameter	0.34 m
4	Cross Section Area	0.0908 m ²
5	Ambient Temperature	29°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	5.74 m/sec
8	Quantity of Flue gas discharges into the atmosphere	1704.37 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	6.25	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	2.82	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	15.16	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm ³	1.09	Lab SOP-HC
5	Acid Mist	mg/Nm ³	1.71	Lab SOP - AM (S)

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-05-2020


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Page 1 of 1

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No
Customer reference
Date of report

D:1491-A/2019-20
Oral
03-10-2019

- 1) Sample description : Ambient Air
- 2) Sampling location : Old Incinerator Area
- 3) Sampled by : Lab Personnel

- 4) Date of sampling 18-09-2019 to 19-09-2019
- 5) Duration of sampling 24 Hrs.
- 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.65	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	39.13	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	51.36	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	15.87	60	Lab SOP – PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP – NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
CPCB Notification 18th November, 2009.

Comments: The test result **meets** the NAAQ standards.

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Page 1 of 1

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No D:1491-B/2019-20
Customer reference Oral
Date of report 03-10-2019

1) Sample description : Ambient Air
2) Sampling location : Security Gate No.2 area
3) Sampled by : Lab Personnel

4) Date of sampling 18-09-2019 to 19-09-2019
5) Duration of sampling 24 Hrs.
6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	8.67	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	39.47	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	53.79	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	16.53	60	Lab SOP – PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP – NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
CPCB Notification 18th November, 2009.

Comments: The test result **meets** the NAAQ standards.

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CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited,
56, Industrial area,
Nanjangud-571302,

Control No D:1491-C/2019-20
Customer reference Oral
Date of report 03-10-2019

1) Sample description : Ambient Air
2) Sampling location : Security Main Gate
3) Sampled by : Lab Personnel

4) Date of sampling 18-09-2019 to 19-09-2019
5) Duration of sampling 24 Hrs.
6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.98	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	38.20	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	54.17	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	17.24	60	Lab SOP – PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP – NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
CPCB Notification 18th November, 2009.

Comments: The test result **meets** the NAAQ standards.



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TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited,
56, Industrial area,
Nanjangud-571302,

Control No

Customer Ref

Date of Sample Collection

Date of Sample Receipt

Date of Commencement

Date of Completion

Date of Report

5) Sample Condition:

6) Sample Code/batch No.

7) Sample Collected By

8) Sampling Protocol

Page 1 of 1

C: 5690/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

24-10-2019

25-10-2019

25-10-2019

31-10-2019

02-11-2019

Satisfactory

Not Specified

Lab. Personnel

IS 3025

- 1) Sample description: Water
- 2) Sample Marked as: ETP RO Permeate Water.
- 3) Sample collected location: Not Specified
- 4) Sample Package / Quantity: PET Bottle, 1 Liter

Sl. No.	Test	Unit	Result	Test Method
1	pH Value	—	7.37	IS: 3025 (P 11)
2	Total Suspended Solids	mg/l	2	IS: 3025 (P 17)
3	Total Dissolved Solids	mg/l	316	IS: 3025 (P 16)
4	Oil & Grease	mg/l	BDL (DL 2)	IS: 3025 (P 39)
5	Phosphate as PO ₄	mg/l	0.26	IS: 3025 (P 31)
6	Total Hardness as CaCO ₃	mg/l	44	IS: 3025 (P 21)
7	Calcium as Ca	mg/l	BDL (DL 0.8)	IS: 3025 (P 40)
8	Magnesium as Mg	mg/l	BDL (DL 0.48)	IS: 3025 (P 46)
9	Total Alkalinity as CaCO ₃	mg/l	117	IS: 3025 (P 23)
10	Chloride as Cl	mg/l	82	IS: 3025 (P 32)
11	Sulphate as SO ₄	mg/l	5	IS: 3025 (P 24)
12	Iron as Fe	mg/l	BDL (DL 0.1)	IS: 3025 (P 53)
13	Sodium as Na	mg/l	20.01	IS: 3025 (P 45)
14	Chemical Oxygen Demand	mg/l	12	IS: 3025 (P 58)
15	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	2	IS: 3025 (P 44)

BDL: Below Detection Limit, DL: Detection Limit.


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TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-A/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

- 1) Sample description: Flue Gas
2) Sampled by : Lab Personnel

- 3) Date of Sampling 23-09-2019
4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	15 TPH Boiler
2	Stack Height above Ground	54 m
3	Stack diameter	1.0 m
4	Cross Section Area	0.7857 m ²
5	Ambient Temperature	33°C
6	Flue gas Temperature	106°C
7	Flue gas Velocity	6.93 m/sec
8	Quantity of Flue gas discharges into the atmosphere	17456.44 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	73.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	16.25	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	48.16	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm ³	123.70	Lab SOP-CO
5	Carbon dioxide	%	6.64	Lab SOP-CO ₂
6	Acid Mist	mg/Nm ³	7.90	USEPA Method - 8

Note: The Results are Correction at 11 % O₂

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTA-12
Calibration Due Date	31-05-2020


Authorised Signatory

For GANESH CONSULTANCY & ANALYTICAL SERVICES


(A. R. Subramanya)



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(MoEF Recognised, FSSAI Notified Laboratory)

Test House : 294A, Hebbal Industrial Area, Mysuru - 570 016 Telephone : 2402986, 4282027

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ISO - 9001

ISO - 14001

RI 91 - 1115

OHSAS -18001

ROH91-8744

TEST REPORT

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited,
56, Industrial area,
Nanjangud-571302,

Control No

Customer reference

Date of report

Page 1 of 1

D: 1546-B/2019-20

Po, No: 4400060219,

Dt: 24-05-2019

01-10-2019

1) Sample description: Flue Gas

2) Sampled by : Lab Personnel

3) Date of Sampling

4) Sampling protocol

23-09-2019

IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	DG-725 KVA
2	Stack Height above Ground	30 m
3	Stack diameter	0.50 m
4	Cross Section Area	0.1964 m ²
5	Ambient Temperature	31°C
6	Flue gas Temperature	212°C
7	Flue gas Velocity	10.97 m/sec
8	Quantity of Flue gas discharges into the atmosphere	4358.09 Nm ³ /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm ³	25.13	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm ³	21.0	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm ³	50.25	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm ³	72.35	Lab SOP-CO
5	Carbon dioxide	%	8.65	Lab SOP-CO ₂
7	Non Methane Hydrocarbon	mg/Nm ³	14.35	Lab SOP-NMHC
8	Acid Mist	mg/Nm ³	18.60	USEPA Method - 8
9	Hydro carbon	mg/Nm ³	12.65	Lab SOP-HC

Note: The Results are Correction at 11 % O₂

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	297-DTA-07
Calibration Due Date	31-05-2020


Authorised Signatory

For GANESH CONSULTANCY & ANALYTICAL SERVICES


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Page 1 of 1

CUSTOMER ADDRESS,
 M/s. Jubilant Generics Limited,
 # 56, Industrial area,
 Nanjangud-571302,

Control No
 Customer reference
 Date of report

D:1491-A/2019-20
 Oral
 03-10-2019

- 1) Sample description : Ambient Air
- 2) Sampling location : Old Incinerator Area
- 3) Sampled by : Lab Personnel

- 4) Date of sampling 18-09-2019 to 19-09-2019
- 5) Duration of sampling 24 Hrs.
- 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.65	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	39.13	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	51.36	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	15.87	60	Lab SOP - PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP - NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
 CPCB Notification 18th November, 2009.

Comments: The test result meets the NAAQ standards.

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Page 1 of 1

CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited.
56, Industrial area,
Nanjangud-571302,

Control No D:1491-B/2019-20
Customer reference Oral
Date of report 03-10-2019

1) Sample description : Ambient Air
2) Sampling location : Security Gate No.2 area
3) Sampled by : Lab Personnel

4) Date of sampling 18-09-2019 to 19-09-2019
5) Duration of sampling 24 Hrs.
6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	8.67	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	39.47	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	53.79	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	16.53	60	Lab SOP – PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP – NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards CPCB Notification 18th November, 2009.

Comments: The test result meets the NAAQ standards.

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(An ISO 9001-2008, ISO 14001-2004 Certified Laboratory)

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CUSTOMER ADDRESS,
M/s. Jubilant Generics Limited,
56, Industrial area,
Nanjangud-571302,

Control No
Customer reference
Date of report

Page 1 of 1
D:1491-C/2019-20
Oral
03-10-2019

- 1) Sample description : Ambient Air
- 2) Sampling location : Security Main Gate
- 3) Sampled by : Lab Personnel

- 4) Date of sampling : 18-09-2019 to 19-09-2019
- 5) Duration of sampling : 24 Hrs.
- 6) Sampling protocol : IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.98	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	38.20	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 μm)	$\mu\text{g}/\text{m}^3$	54.17	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 μm)	$\mu\text{g}/\text{m}^3$	17.24	60	Lab SOP – PM _{2.5}
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP – NH ₃

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards CPCB Notification 18th November, 2009.

Comments: The test result meets the NAAQ standards.



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ISO - 9001
 ISO - 14001
 R191 - 1115
 OHSAS - 18001
 ROH91 - 8744

TEST REPORT

CUSTOMER ADDRESS,

M/s. Jubilant Generics Limited.
 # 56, Industrial area,
 Nanjangud-571302,

Control No

Page 1 of 1

D: 1549-B/2019-20

Customer reference

Po, No: 4400060219,
 Dt: 24-05-2019

Date of report

01-10-2019

- 1) Sample description : Ambient Air
- 2) Sampling location : Security Gate No.2 area
- 3) Sampled by : Lab Personnel

- 4) Date of sampling 25-09-2019
- 5) Duration of sampling 24 Hrs.
- 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards ,	Test Method
1	Volatile Organic Compounds	µg/m ³	24.8	Not Specified	IS-5182(Part-11):2006

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
 CPCB Notification 18th November, 2009.


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ISO - 9001
 ISO - 14001
 R191 - 1115
 OHSAS - 18001
 ROH91 - 8744

TEST REPORT

CUSTOMER ADDRESS,
 M/s. Jubilant Generics Limited.
 # 56, Industrial area,
 Nanjangud-571302,

Control No
 Customer reference
 Date of report

Page 1 of 1
 D: 1549-C/2019-20
 Po, No: 4400060219,
 Dt: 24-05-2019
 01-10-2019

1) Sample description : Ambient Air
 2) Sampling location : Main Gate Area
 3) Sampled by : Lab Personnel

4) Date of sampling 25-09-2019
 5) Duration of sampling 24 Hrs.
 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	29.5	Not Specified	IS-5182(Part-11):2006

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards
 CPCB Notification 18th November, 2009.

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ISO - 9001
 ISO - 14001
 R191 - 1115
 OHSAS - 18001
 ROH91 - 8744

TEST REPORT

CUSTOMER ADDRESS,
 M/s. Jubilant Generics Limited,
 # 56, Industrial area,
 Nanjangud-571302,

Control No
 Customer reference
 Date of report

Page 1 of 1
 D: 1548/2019-20
 Po, No: 4400060219,
 Dt: 24-05-2019
 01-10-2019

- 1) Sample description : Noise
- 2) Date of monitoring : 24-09-2019
- 3) Monitored by : Lab Personnel

- 4) Noise Monitored on 24-09-2019
- 5) Test protocol IS:10988-1984/
IS:4758-1968

Sl. No.	Test	Unit	Location	Result		KSPCB Limit
				Day	Night	
1	Noise Level	dB (A)	At Raw & Fire water Storage area - N	58.0	48.2	75 (Day Time) 70 (Night Time)
2			At Vehicle parking area - NE	55.0	49.0	
3			Main Gate entrance -E	58.1	44.5	
4			In Front of Passari Spinning Mill -SE	55.2	45.0	
5			In Open place in south - S	50.0	43.0	
6			In Open place - SW	56.0	48.2	
7			At Solar Evaporation pond W	50.2	44.0	
8			Near incinerator - NW	60.2	49.5	

Comments: The test result meets the KSPCB limit.

Digital Sound Level Meter
LUTRON - SC - 942
Model No.: Q647849.
Calibration Due Date. 18-07-2020


 Authorised Signatory

For GANESH CONSULTANCY & ANALYTICAL SERVICES


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