



# JUBILANT GENERIC

JGL/EHS/MOEF/2021-22/051

29 October 2021

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:

1. Environment Clearance No. SEIAA: 54 IND 2020, dtd. 05.09.2020.
2. Environment Clearance No. SEIAA: 27 IND 2016, dtd. 28.04.2017.
3. Environment Clearance No. SEIAA: 2 IND 2007, dtd. 11.01.2010.
4. Environment Clearance No. J-11011/127/2005- IA II (II) dtd. 10.10.2005.
5. Environment Clearance No. J.11011/22/99- IA II dtd. 08.10.1999.
6. Environment Clearance No. J-11011/25/95- IA.II (I) dtd. 28.02.1996.
7. File No: EP/12.1/66/KAR 477 dated 23.08.2021
8. File No: EP/12.1/66/KAR 478 dated 23.08.2021

Dear Sir,

With reference to the above said subject, please find enclosed herewith Six Monthly Compliance Report for the period of April 2021 to September 2021 for all the EC's mentioned in the reference.

This is for your information and records.

Thanking You

Yours Faithfully

For **Jubilant Generics Limited**

**Vijay R**  
**Senior Manager - Environment**

A Jubilant Pharma Company

OUR VALUES



**Jubilant Generics Limited**  
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**Compliance Report for additional conditions from Environment Clearance No.SEIAA 54 IND 2020, dtd. 05.09.2020 accorded by State Environment Impact Assessment Authority - Karnataka (constituted by MoEF, Government of India)**

SI #	Conditions	Compliance Status
	<b><u>I. Statutory compliance</u></b>	
1	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.	Not Applicable.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable.
3	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.
4	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Complied. Consent to establish granted by KSPCB vide CTE-322748 dated 06.01.2021 and Consent to operate granted by KSPCB vide AW-326687 dated 07.09.2021. CTO is valid till 30.06.2026
5	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied. Hazardous waste authorisation is available and valid till 30.10.2021. Application for renewal applied on 30.03.2021.
6	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	Noted and being adhered to.

SI #	Conditions	Compliance Status
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SI #	Conditions	Compliance Status
<b>II . Air quality monitoring and preservation</b>		
1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Applied for amendment to the condition as follows. The project proponent shall install 24 x 7 continuous monitoring system and connect to SPCB and CPCB online servers, as per the CPCB guidelines applicable for API industry.
2	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act ,1986.	Complied. VOC emissions are being monitored by MoEF recognised labs quarterly attached as Annexure- 1
3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Complied. AAQ monitoring is being carried out at three locations outside the Plant areas along the periphery of the Factory, 120 Deg Apart. Reports enclosed as Annexure-2
4	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.	Complied. Following are the control measures available to control the fugitive emissions. 1. Closed loop handling of chemicals 2. Powder transmission systems 3. Reactor vents connected to condensers and followed by scrubbers 4. Dust extraction and collection systems 5. Mechanical seals for solvent handling pumps and reactors. Boiler is operated with Bio diesel and whenever coal fired boilers are installed, relevant permissible limits will be adhered Stacks of adequate height is provided. Same shall also be adhered during future expansion process.
5	Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied. Raw materials are stored in warehouses and same shall also be adhered during future expansion process.
6	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st	Complied. Regular monitoring of ambient air quality, Process emission, Stack emission and treated effluent are being carried out and

Sl #	Conditions	Compliance Status
	July, 2010 and amended from time to time shall be followed.	same shall also be adhered during future expansion process. Analysis reports carried out is attached as Annexure 2(For AAQ) and Annexure 3(for Stack and treated effluent).
7	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	Complied. Regular monitoring of ambient air quality is being carried out and the results are meeting the NAAQES Standards and same shall also be adhered during future expansion process. Reports enclosed as Annexure-2
	<b><u>III. Water quality monitoring and preservation</u></b>	
1	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)	Online continuous monitoring of parameters in the treated effluent is available and flow meter is available in the pipeline transferring treated water to cooling tower make up. Web camera procured and installation activities under progress. Same shall also be adhered during future expansion process.
2	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).	Complied. Effluent treatment plant and ZLD systems are available and the treated effluent is being recycled to the utilities. Same shall also be adhered during future expansion process.
3	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.	Not applicable. Treated effluent is being recycled to the utilities for make up and not discharged.
4	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.	Complied. Fresh water requirement is not exceeding the proposed quantity. Same shall also be adhered during future expansion process.
5	Process effluent/ any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system	Complied. Separate storm water channels are available and its ensured that process effluent/waste water is not mixing with the storm water by providing containment systems. Same shall also be adhered during future expansion process.
6	The Company shall harvest rainwater from the roof tops of the buildings and storm water	Not Applicable and representation submitting for amending this condition due

Sl #	Conditions	Compliance Status
	drains to recharge the ground water and utilize the same for different industrial operations within the plant.	to the following. The entire property has shallow water table of less than 3 mtr in pre-monsoon 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.
7	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.	Complied. Existing DG sets are provided with adequate stack height and meeting the guidelines. Same shall also be adhered during future expansion process.
	<b><u>IV. Noise monitoring and prevention</u></b>	
1	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied. Existing DG sets are provided with acoustic enclosures. Same shall also be adhered during future expansion process.
2	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.	Complied. Requisite control measures are available and the ambient noise levels are within the standards. Same shall also be adhered during future expansion process. Noise monitoring reports enclosed as Annexure-4
3	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	Complied. Requisite control measures are available and the ambient noise levels are within the standards. Ambient noise levels are being monitored during day time as well as night time. Same shall also be adhered during future expansion process. Reports enclosed as Annexure-4
	<b><u>V. Energy Conservation measures</u></b>	
1	The energy sources for lighting purposes shall preferably be LED based.	About 600 number of lights are converted into LED based in past two years. Conversion to LED based lights is taken up in a phased manner and shall be expedited.
	<b><u>VI. Waste management</u></b>	
1	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.	Complied. Requisite control measures are available. Same shall also be adhered during future expansion process.

Sl #	Conditions	Compliance Status
2	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.	Sought for amendment to the condition as follows. “Process organic residue and spent carbon, if any, shall be sent to cement industries and KSPCB authorised incinerators during critical situations. ETP sludge, process inorganic and evaporation salt shall be disposed off to the TSDF or Cement industries or KSPCB authorised Incinerators appropriately”
3	The company shall undertake waste minimization measures as below:- 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	Complied.  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. Same shall also be adhered during future expansion process.
	<b><u>VII.Green Belt</u></b>	
1	The green belt of 5-10m 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 as per the CPCB guidelines in consultation with the State Forest Department.	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 Green belt area of 33% and the expectation shall be ensured during future expansion process.
	<b><u>VIII. Safety, Public hearing and Human health issues</u></b>	
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied. HIRA carried out for all the activities and based on that Onsite emergency plan as well as Offsite Emergency plan is available for critical risks. Same shall also be

Sl #	Conditions	Compliance Status
		extended to the additional operations during future expansion process.
2	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.	Complied. Necessary portable fire extinguishers and fire hydrant systems is available as part of fire fighting systems. Same shall also be maintained in the future expansion process.
3	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied. All necessary PPEs available and is being used as and when required.
4	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.	Complied. As part of induction program for the new employees, Safety health and environmental aspects are explained. Pre-employment and routine periodical medical examinations for all employees is being carried out on regular basis.
5	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Major expansion activities that requires large number of construction labour are not being carried out now. The labours are mostly engaged from the local population and there are adequate facility for housing in the community nearby. Necessary infrastructure like canteen, drinking water, toilets, occupational health center etc will be provided to take care during expansion activities.
6	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.
7	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	Complied. Vehicles are allowed to park inside the plant premises. Same shall also be adhered during future expansion process.
	<b><u>IX. Corporate Environment Responsibility</u></b>	
1	The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less than Rs. 432 Lakhs towards providing drinking water nearby villages, Sanitation and Waste management and Green Belt Development within five years around the project site in accordance with the O.M. F.No.22-65/2017-IA.III dated 01st May 2018 as submitted vide letter dated 04.05.2020.	Noted. During the expansion processes we will ensure that 5% of the project cost is allotted for executing the CER activities.



Sl #	Conditions	Compliance Status
2	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements /deviations /violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regards shall be submitted to the MoEF & CC as a part of six monthly report.	Complied. Comprehensive EHS policy is available. Compliance tracking system is available which will be reviewed by the Corporate Team in a periodical manner.
3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. Separate Environment Team along with Environmental Lab is available at the Site reporting to Corporate Environment Lead who in turn reports to COO of the Organisation.
4	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	Condition noted. Existing operation is having Environmental Management Program and has the required protection measures like Effluent Treatment Plant with ZLD systems, APC measures and waste handling systems. During our expansion processes it will be ensured that the funds earmarked will be utilised for EMP activities.
5	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Condition noted and will be adhered to.
	<b><u>X. Miscellaneous</u></b>	
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Advertisement provided in two news papers and the EC copy is displayed on our website.

Sl #	Conditions	Compliance Status
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Copy of environmental clearance is submitted to the following local bodies for displaying the same in their offices. City Municipal council, KSPCB, CPCB Bangalore, MOEF Bangalore, Department of Environment and Ecology.
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Shall be complied. This compliance report along with monitoring details will be uploaded in the website.
4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied. PM, SO2 and NOx levels are monitored and the quantities are displayed in front of the main gate. Analysis reports are displayed in the Website along with six monthly compliance report as its annexure.
5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied. Six monthly reports submitted for the period October 20 to March 21 is displayed on the website.
6	The HYCRs with its contents of a covering letter, compliancy reports, and environmental monitoring data has to be in PDF format merged in to a single document. The email should clearly mention the name of project, EC No. & date, period of submission and to be sent to the Regional Office of MoEF & CC by email only at email ID <a href="mailto:rosz.bng-mefcc@gov.in">rosz.bng-mefcc@gov.in</a> Hard copy of HYCRs shall not be acceptable".	Complied Half yearly compliance report for the period October 20 to March 21 is emailed to the provided email address.
7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied. Environmental statement is being submitted every year within the stipulated timelines. Form V for the FY 2020-21 is submitted on 21.05.2021. Same will be continued.
8	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Condition noted and will be adhered to during our expansion process.

Sl #	Conditions	Compliance Status
9	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Condition noted and will be adhered to.
10	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Condition noted and will be adhered to.
11	No further expansion or modifications in the plant shall be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Condition noted and will be adhered to.
12	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Condition noted
13	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Condition noted
14	The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Condition noted
15	The Regional Office of MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	Condition noted and will be adhered to.
16	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986 Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Condition noted
17	Any appeal against this EC shall lie with the National Green Tribunal if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Condition noted

**Compliance Report for additional conditions from 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
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.
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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , 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 <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>x</sub> , SO <sub>2</sub> and NH <sub>3</sub> 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
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

Sr.No	Condition	Compliance Status
		pumps. Flame arresters are provided in the storage tanks.
14.	No effluent shall be discharged outside the factory premises and “Zero” discharge concept shall be adopted.	Complied. 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.
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.	Complied. 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.  Reports are enclosed as <b>Annexure-3</b> .
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.	Complied. 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
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.	Complied. 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
19.	During transfer of materials, spillage shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Complied, 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.
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

Sr.No	Condition	Compliance Status
		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.
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.
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.

Sr.No	Condition	Compliance Status
		<p>b) Identify alternate sources of raw materials that are less toxic and has low environment foot print.</p> <p>c) Develop alternate manufacturing processes that generates less toxic effluent and biologically degradable and less solid waste generation.</p>
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 Bhartia 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>B</b>	<b>GENERAL CONDITIONS:</b>	
7.	Application of solar energy should be incorporated for illumination in 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.

**Compliance Report for additional conditions laid in Environment Clearance No.SEIAA:2: IND 2007, dtd. 11.01.2010 accorded by Karnataka State Environment Impact Assessment Authority, (constituted by Ministry of Environment and Forest, Government of India)**

**Part - A: SPECIFIC CONDITIONS**

<b>Sr.No</b>	<b>Condition</b>	<b>Compliance Status</b>
4.	Cyclones should be provided to control air emissions from boilers.	Liquid fuel is used in Boilers. Required Stack height is provided based on the sulphur content of the fuel used and emissions are well within the limits.
6.	All the hazardous waste should be collected in drums and stacked, inside the premises in covered area before sent to hazardous waste disposal yard.	All the hazardous waste generated is being collected in drums and stacked, inside the premises in covered area and it is being shifted/ transferred to hazardous waste disposal yard regularly.
7.	All the solid waste shall be properly collected and disposed off scientifically as prescribed by the Central/State Pollution Control Board.	The solid waste generated is properly collected and disposed off scientifically as prescribed by the KSPCB.
9.	Green belt 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.	Green belt development is a continuous process as per the CPCB guidelines. We have planted approximately 12,000 saplings in the available on the site
11.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	The company has already undertaken an eco-developmental measure including community welfare measures through Jubilant Bhartia foundation (JBF) in and around the factory premises for the overall improvement of the environment.
12.	The proponent shall comply with the proceedings of the technical presentation and discussion held with the Expert Committee appointed by the KSPCB on 06.11.2009.	being complied with
14.	The project authority shall undertake a detailed study for generating baseline data on the chemical composition of the effluent and emissions both before and after each treatment and study the performances of the effluent treatment plant and emission control systems including hazardous waste management and report submitted.	Base line data collected through effluent stream segregation report. Unit performance report along with effluent stream segregation is already submitted to board office. Fugitive emissions and stack emissions is being monitored on regular basis and report is being submitted to board on regular basis.
15.	The project authority shall draw a plan for a. Ground water monitoring around the SLF periodically as per the CPCB protocol and	Complied. Ground water monitoring is being carried out around SLF



Sr.No	Condition	Compliance Status
	b. Continue NGRI study for improving the storm water management.	NGRI study completed and the report submitted
17.	The proponent shall take up scientific inventionization, detailed characterization of existing multiple wastes/ residues, material balances and computation of emissions factors for gaseous emissions, liquid wastes and hazardous wastes including spent and lost solvents and report submitted.	A detailed mass balance is prepared for each of the product where in details of raw materials input, water consumption, waste water & Solid waste generation, solvents, etc. is included.
19.	The proponent shall take appropriate measures to avoid the frequent breakdown in RO units installed.	Appropriate measures are being taken by necessary chemical treatment for membrane cleaning and changing / replacing the damaged membranes.
20.	The proponent shall take up bench scale investigation for effective treatment of wastes and its utilization. The treatability studies such as physico-chemical anaerobic / aerobic treatment /tertiary treatment, aqueous oxidative, biological process/tertiary treatment and physic chemicals processes with resource recovery followed by biological and tertiary treatment be conducted and report submitted.	Bench scale investigation for effective treatment of wastes and its utilization is being carried out in in-house lab as well as at vendors end.  The Environmental lab is equipped with treatability study for Physico chemical & biological treatment trials.
24.	The proponent shall ensure that drains carrying liquid wastewater and waste water collection pits are closed and kept air tight to minimize the escape of obnoxious odorous constituents.	Garland drains are already provided around the storm water drain with collection pit and pumping facility for further treatment. There is no leakage, spillage or run off process effluent into storm water drain, in case any accidental spillage happens, two bunds are provided at the end of the storm water drain to avoid run off, the same being pumped to 20KL holding tank for further treatment. The drains are closed and kept air tight, so, escape of obnoxious odorous constituents is minimized
26.	The proponent shall take up the periodic monitoring of performance of existing process vents treatment system.	Work area is being monitored on regular basis for VOC & fugitive emissions and report is being submitting to KSPCB regularly.
<b>B</b>	<b>GENERAL CONDITIONS:</b>	
2.	At no time the emissions should 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	Complied with. The emissions are well within the limit, Pollution control system are operating round the clock, DG sets is being used as an alternate power supply in case of failure of power, standby

Sr.No	Condition	Compliance Status
	shall not be restarted until the desired efficiency has been achieved.	equipment is being operated in case of any failure of the existing unit.
6.	Application for solar energy should be incorporated for illumination of common areas, lighting for gardens and street lightings in addition to provision for solar water heating. A hybrid system or fully solar system should be provided. Details in this regard should be submitted to SEIAA.	Will be expedited

**Compliance Report for additional conditions stipulated in Environment Clearance accorded by MOEF vide letter no. No. J-11011/127/2005-IA II (I) Dated 10.10.2005**

**COMPLIANCE TO SPECIFIC CONDITIONS**

Sl No	Conditions	Compliance
3	For control of particulate emissions, condensers and alkali scrubbers shall be provided and stacks of appropriate height as per the Central Pollution Control Board guidelines. The scrubbed water shall be sent to ETP for further treatment.	Stacks of appropriate height provided as per the Central Pollution Control Board guidelines, All the reactor vents are connected to condensers and in turn connected to scrubbers and the incinerator flue gases are scrubbed through alkali scrubber. The scrubbed water is being sent ETP for further treatment.
7	Industry shall switch over to the use of non-halogenated solvents in place of halogenated solvents in a phased manner	We are studying the possibilities of reducing halogenated solvents in place of non - halogenated solvents, if the process condition and product quality permits
8	Hazardous air pollutants emitted from the process shall be identified; assessment shall be made both for stack/vent emissions and work zone environment/ambient environment.	Hazardous air pollutants have been identified & broadly assessed. Work zone Environment monitoring is carried out regularly.
9	<p>The company shall undertake following waste minimization measures:</p> <ul style="list-style-type: none"> <li>a. Metering and control of quantities of active ingredients to minimize waste.</li> <li>b. Reuse of by-products from the process as raw materials or as raw materials Substitutes in other processes.</li> <li>c. Use of automated filling to minimize spillage.</li> </ul>	<p>Our Batch sizes are fixed &amp; validation is done to get fixed &amp; minimum solid waste.</p> <p>The possibilities of directly reusing the byproducts in our manufacturing process are limited. However we are sending many of our byproducts to other small / medium scale industry where they use the same as raw material Viz, Spent poly phosphoric acid for DAP manufacturer, Sodium sulphide (Na<sub>2</sub>S) to tannery industries and spent solvents to paint and thinner.</p> <p>In our process all liquid charging is automated through pumps &amp; quantities are fixed as per set point given in DCS System. So Spillage possibilities are minimized.</p>

Sl No	Conditions	Compliance
	<p>d. Use of “close feed” system into batch reactors</p> <p>e. Venting equipment through vapour recovery system</p> <p>f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>In our process all liquid (solvents, acid &amp; alkali) charging is automated through pumps &amp; quantities are fixed as per set point given in DCS System, only minor quantities of solid and few liquid will be charged through reactor manholes.</p> <p>For all the reactors vapour condensers are provided, Condensed vapours get condensed in this condenser and recovered &amp; non condensable (Acidic) Vapours are passed through scrubber.</p> <p>For equipment cleaning Clean In Place (CIP) System is designed where minimum quantity of water is being used through high-pressure hoses for clearing the equipment in place and to reduce water consumption for cleaning purposes, so that generation of waste water will be get reduced to minimum.</p>
10	Fugitive emissions in the work zone environment, product, and raw material storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by SPCB	Fugitive emissions in the work zone environment, product, and raw material storage area are monitored at regular intervals.

**Compliance Report for additional conditions stipulated in Environment Clearance accorded by MOEF vide letter no. No. J-11011/22/99-IA II Dated 08.10.1999**

SI No	Conditions	Compliance
i)	The company should adhere to the stipulations made by MOE&F vide O M No.J11011/25/95-1AH dated 28 February 1996.	Noted and being adhered to. During September 2020, Environmental clearance is accorded to our project vide file reference SEIAA 54 IND 2020 dated 05.09.2020 and the stipulations made in this EC is being adhered to.
iv)	Fugitive emissions in the work zone environment, product/raw material storage areas must be regularly monitored. Sensors for detecting H2S leakage should be provided at strategic locations. As reflected in the EMP H2S and SO2 sensors should also be provided along the boundary wall towards the Kallahalli village side.	Work place monitoring is carried out on regular basis  H2S sensors are placed at strategic locations in the plant and alarm systems available for indication of leakage.
vi)	The hazardous solid waste (process sludge and sludge from evaporator) should be incinerated. The incinerator ash should be disposed off in a secured landfill site. The secured landfill site should be provided with impermeable HDPE lining and leachate collection facility.	Incinerable wastes are being sent to Cement industries and inorganic wastes are being sent to common TSDF approved by State Pollution control board.
vii)	The ground water quality around the hazardous waste disposal site and Kallahalli village should be regularly monitored and data recorded to ensure there is no contamination of ground water.	Noted and site complies to the condition. Ground water monitoring details are being submitted half yearly to KSPCB and MoEFCC
viii)	The company should go in for R&D programme covering technological intervention to improve the yields of various steps in order to decrease the waste generation at source itself.	Noted and site complies to the condition. R&D facility is available at site for improving and optimising the production activity.
<b>General condition vi)</b>	Occupational health surveillance programme should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances.	Noted and being adhered to.
vii)	The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under EPA Rules 1989 viz 75 dB A (day time and 70 dB A(night time).	Noted and being adhered to.

**Compliance Report for additional conditions stipulated in Environment Clearance accorded by MOEF vide letter no. No. J-11011/25/95-IA II (I) Dated 28.02.1996**

Sl No	Conditions	Compliance
v)	<p>Liquid effluent generated should be treated to meet the following minimum standards</p> <ul style="list-style-type: none"> <li>a) pH- 5.5-9.0</li> <li>b) Oil &amp; Grease – 10 mg/l</li> <li>c) Total Suspended Solids – 100 mg/l</li> <li>d) BOD 5 – 30 mg/l</li> </ul> <p>The quantity and quality (including general parameters) of the treated effluent should be measured regularly and data so collected should be submitted to this Ministry once in six months and the State pollution Control Board once in Three months. The effluent would also be required to meet any additional stipulation laid down by the Karnataka State pollution Control Board.</p> <p>The wastewater should be recycled to the extent possible. Routine toxicity test of the effluent with fish and fish food organisms also be done at least once in a month. Monitored data should be submitted to the Ministry once as well as the State pollution control board once in six months</p>	<p>Not applicable.</p> <p>Site has established ZLD system and all the treated effluent is recycled back to Cooling tower. Treated effluent parameters are submitted to the Board office and MoEF regional office once in six months.</p>
*	<p>The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.</p>	<p>Noted</p>
*	<p>The above conditions will be enforced, inter- alia under the provisions of the water (Prevention &amp; Control of Pollution) Act ,1974, The Air (Prevention &amp; Control of pollution) Act 1981, The Environment (Protection) ,1986 and the Public Liability Insurance Act,1991 with their amendments and rules</p>	<p>Noted</p>

Estd. : 1987

FORMAT NO. : GCAS / QF / 7.8.2 / TEST REPORT/R-6



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### TEST REPORT

Page 1 of 1

#### CUSTOMER ADDRESS,

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

Control No D: 804-B/2021  
 Customer reference  
 Date of report 14-06-2021

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

- 4) Date of sampling 29-05-2021
- 5) Duration of sampling 1 Hrs.
- 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Volatile Organic Compounds	µg/m <sup>3</sup>	66.45	Not Specified	IS-5182(Part-11):2006

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

\*\*\*\*\*

Reviewed By

For GANESH CONSULTANCY &amp; ANALYTICAL SERVICES

  
 Authorised Signatory

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### TEST REPORT

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

Control No D: 804-C/2021  
 Customer reference  
 Date of report 14-06-2021

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

4) Date of sampling 29-05-2021  
 5) Duration of sampling 1 Hrs.  
 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Volatile Organic Compounds	µg/m <sup>3</sup>	80.6	Not Specified	IS-5182(Part-11):2006

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

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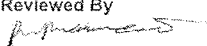



Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.14	80	IS 5182 P-2:2001 (RA:2017)
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	37.49	80	IS 5182 P-6:2006 (RA:2017)
3	Particulate Matter (Size less than 10 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	57.75	100	IS 5182 P-23:2006 (RA:2017)
4	Particulate Matter (Size less than 2.5 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	18.54	60	IS 5182 P-24:2019
5	Ozone	$\mu\text{g}/\text{m}^3$	BDL (DL: 0.01)	100	GCAS/SOP/7.2/AA/O3 IssueNo-1 Issue date:18/11/2019
6	Lead	$\mu\text{g}/\text{m}^3$	0.006	1.0	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
7	Carbon Monoxide	$\text{mg}/\text{m}^3$	BDL (DL:1.10)	4	IS 5182 P-10 :1999(RA:2019)
8	Ammonia	$\mu\text{g}/\text{m}^3$	2.72	400	IS 5182 P-25:2018
9	Benzene	$\mu\text{g}/\text{m}^3$	BDL (DL: 0.01)	5	IS 5182 P-11:2006 (RA:2017)
10	Benzo (a) Pyrene - (BaP) particulate phase only	$\text{ng}/\text{m}^3$	BDL (DL: 0.01)	1	GCAS/SOP/7.2/AA/BaP IssueNo-1 Issue date:18/11/2019
11	Arsenic	$\text{ng}/\text{m}^3$	BDL (DL: 1.0)	6	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
12	Nickel	$\text{ng}/\text{m}^3$	2.60	20	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019

Note: NAAQ: The National Ambient Air Quality Standards. BDL: Below detection limit, DL: Detection limit

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 D: 668-2/2021  
 Customer reference  
 Date of report 23-06-2021

Page 1 of 1

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

- 4) Date of sampling 03-06-2021 to 04-06-2021  
 5) Duration of sampling 24 Hrs.  
 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	µg/m <sup>3</sup>	9.45	80	IS 5182 P-2:2001 (RA:2017)
2	Nitrogen Dioxides	µg/m <sup>3</sup>	39.51	80	IS 5182 P-6:2006 (RA:2017)
3	Particulate Matter (Size less than 10 µm)	µg/m <sup>3</sup>	54.51	100	IS 5182 P-23:2006 (RA-2017)
4	Particulate Matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	17.26	60	IS 5182 P-24:2019
5	Ozone	µg/m <sup>3</sup>	BDL (DL: 0.01)	100	GCAS/SOP/7.2/AA/O3 IssueNo-1 Issue date:18/11/2019
6	Lead	µg/m <sup>3</sup>	BDL (DL:0.001)	1.0	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
7	Carbon Monoxide	mg/m <sup>3</sup>	BDL (DL:1.10)	4	IS 5182 P-10 :1999(RA:2019)
8	Ammonia	µg/m <sup>3</sup>	BDL (DL:1.0)	400	IS 5182 P-25:2018
9	Benzene	µg/m <sup>3</sup>	BDL (DL: 0.01)	5	IS 5182 P-11:2006 (RA:2017)
10	Benzo (a) Pyrene - (BaP) particulate phase only	ng/m <sup>3</sup>	BDL (DL: 0.01)	1	GCAS/SOP/7.2/AA/BaP IssueNo-1 Issue date:18/11/2019
11	Arsenic	ng/m <sup>3</sup>	BDL (DL: 1.0)	6	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
12	Nickel	ng/m <sup>3</sup>	BDL (DL: 1.0)	20	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019

Note: NAAQ: The National Ambient Air Quality Standards. BDL: Below detection limit, DL: Detection limit

Comments: The test result meets the NAAQ standards.

\*\*\*\*

Reviewed By

For GANESH CONSULTANCY & ANALYTICAL SERVICES

Authorised Signatory

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### TEST REPORT

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

Control No D: 866-3/2021  
 Customer reference  
 Date of report 23-06-2021

Page 1 of 1

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

- 4) Date of sampling 03-06-2021 to  
 04-06-2021  
 5) Duration of sampling 24 Hrs.  
 6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	µg/m <sup>3</sup>	7.79	80	IS 5182 P-2:2001 (RA:2017)
2	Nitrogen Dioxides	µg/m <sup>3</sup>	38.57	80	IS 5182 P-6:2006 (RA:2017)
3	Particulate Matter (Size less than 10 µm)	µg/m <sup>3</sup>	54.28	100	IS 5182 P-23:2006 (RA-2017)
4	Particulate Matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	16.78	60	IS 5182 P-24:2019
5	Ozone	µg/m <sup>3</sup>	BDL (DL: 0.01)	100	GCAS/SOP/7.2/AA/O3 IssueNo-1 Issue date:18/11/2019
6	Lead	µg/m <sup>3</sup>	0.004	1.0	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
7	Carbon Monoxide	mg/m <sup>3</sup>	BDL (DL:1.10)	4	IS 5182 P-10 :1999(RA:2019)
8	Ammonia	µg/m <sup>3</sup>	BDL (DL:1.0)	400	IS 5182 P-25:2018
9	Benzene	µg/m <sup>3</sup>	BDL (DL: 0.01)	5	IS 5182 P-11:2006 (RA:2017)
10	Benzo (a) Pyrene - (BaP) particulate phase only	ng/m <sup>3</sup>	BDL (DL: 0.01)	1	GCAS/SOP/7.2/AA/BaP IssueNo-1 Issue date:18/11/2019
11	Arsenic	ng/m <sup>3</sup>	BDL (DL: 1.0)	6	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019
12	Nickel	ng/m <sup>3</sup>	BDL (DL: 1.0)	20	GCAS/SOP/7.2/AA/M IssueNo-1 Issue date:18/11/2019

Note: NAAQ: The National Ambient Air Quality Standards. BDL: Below detection limit, DL: Detection limit

Comments: The test result meets the NAAQ standards.

\*\*\*\*\*

Reviewed By

For GANESH CONSULTANCY & ANALYTICAL SERVICES

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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 <sup>2</sup>
5	Ambient Temperature	31°C
6	Flue gas Temperature	29.6°C
7	Flue gas Velocity	6.55 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2682.89 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	9.12	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.88	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	18.75	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.70	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.55	USEPA Method 8
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	31-12-2021

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### TEST REPORT

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

Page 1 of 1  
 Control No D: 878-Q/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 03-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-1, Scrubber-1002
2	Stack Height above Ground	24 m
3	Stack diameter	0.40 m
4	Cross Section Area	0.1257 m <sup>2</sup>
5	Ambient Temperature	31.3°C
6	Flue gas Temperature	29.2°C
7	Flue gas Velocity	6.36 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2610.24 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.20	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.69	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	13.72	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.60	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.11	USEPA Method 8
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	31-12-2021

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### TEST REPORT

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

Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 07-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-2, Scrubber-2001
2	Stack Height above Ground	10 m
3	Stack diameter	0.10 m
4	Cross Section Area	0.0078 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.1°C
7	Flue gas Velocity	5.87m/sec
8	Quantity of Flue gas discharges into the atmosphere	149.54 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	9.34	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.06	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	13.70	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.34	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.80	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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*Ramesh*

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### TEST REPORT

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 # 56, Industrial area,  
 Nanjangud-571302,

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 D: 878-E/2021  
 Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 01-06-2021  
 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 <sup>2</sup>
5	Ambient Temperature	31.9°C
6	Flue gas Temperature	33.3°C
7	Flue gas Velocity	7.69 m/sec
8	Quantity of Flue gas discharges into the atmosphere	777.84 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.44	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.96	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.10	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.06	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.70	USEPA Method 8
6	Hydrozoic Acid	mg/Nm <sup>3</sup>	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	31-12-2021

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 # 56, Industrial area,  
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 Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 01-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-3, Scrubber-3002
2	Stack Height above Ground	20 M
3	Stack diameter	0.20 m
4	Cross Section Area	0.0314 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	30.8°C
7	Flue gas Velocity	6.65 m/sec
8	Quantity of Flue gas discharges into the atmosphere	678.18 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	6.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.73	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	13.92	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.97	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.21	USEPA Method 8
6	Hydrozoic Acid	mg/Nm <sup>3</sup>	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	31-12-2021

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 # 55, Industrial area,  
 Nanjangud-571302,

Page 1 of 1  
 Control No D: 678-8/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 01-06-2021  
 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 <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	30.6°C
7	Flue gas Velocity	6.65 m/sec
8	Quantity of Flue gas discharges into the atmosphere	678.63 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	9.12	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.70	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.35	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.50	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.01	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL No.	119-DTH-2012
Calibration Due Date	31-12-2021

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*Tharun*

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 # 56, Industrial area,  
 Nanjangud-571302,

Control No  
 Customer reference  
 Date of report  
 Page 1 of 1  
 D: 878-C/2021  
 17-06-2021

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

3) Date of Sampling 01-06-2021  
 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 <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.1°C
7	Flue gas Velocity	6.72 m/sec
8	Quantity of Flue gas discharges into the atmosphere	689.18 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	6.92	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.25	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	17.40	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.84	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.62	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
Sl. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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### TEST REPORT

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 # 56, Industrial area,  
 Nanjangud-571302,

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 D: 878-DJ/2021  
 Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 01-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-5, Scrubber-5002
2	Stack Height above Ground	15 m
3	Stack diameter	0.12 m
4	Cross Section Area	0.0113 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.6°C
7	Flue gas Velocity	7.56 m/sec
8	Quantity of Flue gas discharges into the atmosphere	278.56 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.40	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.72	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	13.15	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.63	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.10	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
Sl. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 # 56, Industrial area,  
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Control No  
 Customer reference  
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D: 878-G/2021

17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61001
2	Stack Height above Ground	15 m
3	Stack diameter	0.25 m
4	Cross Section Area	0.0491 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	28.7°C
7	Flue gas Velocity	5.97 m/sec
8	Quantity of Flue gas discharges into the atmosphere	613.07Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	7.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.79	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.25	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.29	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.32	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 # 56, Industrial area,  
 Nanjangud-571302,

Page 1 of 1  
 Control No D: 878-H/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61002
2	Stack Height above Ground	15 m
3	Stack diameter	0.16 m
4	Cross Section Area	0.0201 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.6°C
7	Flue gas Velocity	6.55 m/sec
8	Quantity of Flue gas discharges into the atmosphere	241.34 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	7.74	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.25	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.32	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.35	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.49	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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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: 878-I/2021  
 17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61093
2	Stack Height above Ground	15 m
3	Stack diameter	0.16 m
4	Cross Section Area	0.0201 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	28.9°C
7	Flue gas Velocity	6.45 m/sec
8	Quantity of Flue gas discharges into the atmosphere	238.21 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	6.12	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.05	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	20.44	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.77	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.66	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 # 56, Industrial area,  
 Nanjangud-571302,

Page 1 of 1  
 Control No D: 878-J/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61301
2	Stack Height above Ground	15 m
3	Stack diameter	0.365 m
4	Cross Section Area	0.1047 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	31.9°C
7	Flue gas Velocity	11.07 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2880.24 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	7.65	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	4.74	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.44	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.40	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.42	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 Nanjangud-571302,

Control No  
 Customer reference  
 Date of report  
 Page 1 of 1  
 D. 878-K/2021  
 17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61302
2	Stack Height above Ground	15 m
3	Stack diameter	0.20 m
4	Cross Section Area	0.0314 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	41°C
7	Flue gas Velocity	7.46 m/sec
8	Quantity of Flue gas discharges into the atmosphere	414.92 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	6.91	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.63	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.5	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.30	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.61	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 # 56, Industrial area,  
 Nanjangud-571302,

Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 02-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-63301
2	Stack Height above Ground	15 m
3	Stack diameter	0.25 m
4	Cross Section Area	0.0491 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.9°C
7	Flue gas Velocity	6.37 m/sec
8	Quantity of Flue gas discharges into the atmosphere	651.56 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	7.94	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.49	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	19.52	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.42	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.19	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 Control No D: 878-A/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 01-06-2021  
 4) Sampling protocol IS 11255

Sl No	General parameters	Details of stack
1	Stack connected to	Pilot Plant Scrubber -6001
2	Stack Height above Ground	15 m
3	Stack diameter	0.10 m
4	Cross Section Area	0.0078 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.6°C
7	Flue gas Velocity	4.76 m/sec
8	Quantity of Flue gas discharges into the atmosphere	121.06 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	11.10	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.16	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	13.56	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.96	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.15	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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 # 56, Industrial area,  
 Nanjangud-571302,

Page 1 of 1  
 Control No D: 678-N/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 07-06-2021  
 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 <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	29.6°C
7	Flue gas Velocity	7.64 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2262.00 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.14	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.33	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.62	IS 13270
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.54	USEPA Method 8

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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### TEST REPORT

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 # 56, Industrial area,  
 Nanjangud-571302,

Page 1 of 1  
 Control No D: 419-I/2021-22  
 Customer reference  
 Date of report 07-05-2021

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

3) Date of Sampling 20-04-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	DG 2000 KVA No 1
2	Stack Height above Ground	30 m
3	Stack diameter	0.50 m
4	Cross Section Area	0.1964 m <sup>2</sup>
5	Ambient Temperature	36°C
6	Flue gas Temperature	228°C
7	Flue gas Velocity	11.88 m/sec
8	Quantity of Flue gas discharges into the atmosphere	4595.18 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	18.48	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	25.08	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	75.00	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	64.12	Lab SOP-CO
5	Carbon dioxide	%	6.15	Lab SOP-CO <sub>2</sub>
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	9.20	Lab SOP-NMHC
8	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	17.42	Lab SOP- AM (S)
9	Hydro carbon	mg/Nm <sup>3</sup>	14.46	Lab SOP-HC

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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### TEST REPORT

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 # 55, Industrial area,  
 Nanjangud-571302.

Page 1 of 1  
 Control No D: 801-S/2021  
 Customer reference  
 Date of report 14-06-2021

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

3) Date of Sampling 28-05-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	DC-1500 KVA
2	Stack Height above Ground	30 m
3	Stack diameter	0.50 m
4	Cross Section Area	0.1964 m <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	266°C
7	Flue gas Velocity	12.94 m/sec
8	Quantity of Flue gas discharges into the atmosphere	4652.33 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	16.88	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	27.98	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	70.10	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	60.68	Lab SOP-CO
5	Carbon dioxide	%	8.65	Lab SOP-CO <sub>2</sub>
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	14.45	Lab SOP-NMHC
8	Acid Mist	mg/Nm <sup>3</sup>	9.26	Lab SOP- AM (S)
9	Hydro carbon	mg/Nm <sup>3</sup>	17.25	Lab SOP-HC

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

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### TEST REPORT

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

Control No  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 03-06-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	DG-1500 KVA
2	Stack Height above Ground	30 m
3	Stack diameter	0.50 m
4	Cross Section Area	0.1964 m <sup>2</sup>
5	Ambient Temperature	33°C
6	Flue gas Temperature	266°C
7	Flue gas Velocity	15.07 m/sec
8	Quantity of Flue gas discharges into the atmosphere	1950.41 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	21.25	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	20.44	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	72.34	IS 11255 (Part-7): 1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	60.52	SOP No.GCAS/SOP/7.2/SE/CO Issue no.1. Issue Date: 18-11-2019
5	Carbon dioxide	%	6.42	SOP No.GCAS/SOP/7.2/SE/CO2 Issue no.1. Issue Date: 18-11-2019
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	11.52	IS 13270
8	Acid Mist	mg/Nm <sup>3</sup>	9.80	USEPA Method 8
9	Hydro carbon	mg/Nm <sup>3</sup>	16.45	IS 13270

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	119-DTH-2012
Calibration Due Date	31-12-2021

Reviewed By

*[Signature]*

For GANESH CONSULTANCY & ANALYTICAL SERVICES

*[Signature]*  
 Authorised Signatory

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ISO-9001  
 ISO-14001  
 ISO-45001  
 R191/10172

### TEST REPORT

Page 1 of 1

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

Control No D: 878-O/2021  
 Customer reference  
 Date of report 17-06-2021

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

3) Date of Sampling 07-06-2021  
 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 <sup>2</sup>
5	Ambient Temperature	32°C
6	Flue gas Temperature	127°C
7	Flue gas Velocity	7.43 m/sec
8	Quantity of Flue gas discharges into the atmosphere	14400.18 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	81.44	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	18.12	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	46.66	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	87.20	SOP No.GCAS/SOP/7.2/SE/CO Issue no.1, Issue Date: 18-11-2019
5	Carbon dioxide	%	5.10	SOP No.GCAS/SOP/7.2/SE/CO2 Issue no.1, Issue Date: 18-11-2019
6	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	7.45	USEPA Method 8
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	18.25	IS 13270
8	Hydrocarbon	mg/Nm <sup>3</sup>	26.75	IS 13270

Note: The Results are Correction at 11 % O<sub>2</sub>

Details of Equipment used for monitoring	
Model	VSS-1
SL. No.	255-DTK-2013
Calibration Due Date	30-12-2020

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### TEST REPORT

Page 1 of 1  
 C-00868/2021

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

Control No  
 Customer Ref  
 Date of Sample Collection 04-06-2021  
 Date of Sample Receipt 05-06-2021  
 Date of Commencement 05-06-2021  
 Date of Completion 10-06-2021  
 Date of Report 14-06-2021  
 5) Sample Condition: Satisfactory  
 6) Sample Code/batch No. Not Specified  
 7) Sample Drawn By Lab. Personnel  
 8) Sampling Protocol IS 3025

- 1) Sample description: Water
- 2) Sample Marked as: ETP RO Permeate Water.
- 3) Sample collected location: Permeate storage tank
- 4) Sample Package / Quantity: PET Bottle, 1 Liter

Sl. No.	Test	Unit	Result	Test Method
1	pH Value	---	5.88	IS: 3025 (P 11)
2	Total Suspended Solids	mg/l	BDL (DL 2)	IS: 3025 (P 17)
3	Total Dissolved Solids	mg/l	140	IS: 3025 (P 16)
4	Oil & Grease	mg/l	BDL (DL 2)	IS:3025 (P 39)
5	Phosphate as PO <sub>4</sub>	mg/l	BDL (DL 0.1)	IS:3025 (P 31)
6	Total Hardness as CaCO <sub>3</sub>	mg/l	2	IS: 3025 (P 21)
7	Calcium as Ca	mg/l	0.4	IS: 3025 (P 40)
8	Magnesium as Mg	mg/l	BDL (DL 0.48)	IS: 3025 (P 46)
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	62	IS: 3025 (P 23)
10	Chloride as Cl	mg/l	33	IS: 3025 (P 32)
11	Sulphate as SO <sub>4</sub>	mg/l	3	IS: 3025 (P 24)
12	Iron as Fe	mg/l	0.15	IS: 3025 (P 53)
13	Sodium as Na	mg/l	12.63	IS: 3025 (P 45)
14	Chemical Oxygen Demand	mg/l	BDL (DL 4)	IS:3025 (P 58)
15	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	BDL (DL 1)	IS:3025 (P 44)

BDL: Below Detection Limit, DL: Detection Limit.

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Estd. : 1987

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### TEST REPORT

CUSTOMER ADDRESS,  
 M/s. Jubilant Generics Limited,  
 # 56, Industrial area,  
 Nanjangud-57 1302,

Page 1 of 1  
 Control No D: 880/2021  
 Customer reference  
 Date of report 17-06-2021

1) Sample description : Noise  
 2) Date of monitoring : 03-06-2021

3) Monitored by Lab Personnel  
 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	54.4	48.9	75 (Day Time) 70 (Night Time)
2			At Vehicle parking area - NE	61.8	54.9	
3			Main Gate entrance -E	58.8	52.8	
4			In Front of Passari Spinning Mill -SE	56.2	51.7	
5			In Open place in south - S	58.07	50.6	
6			In Open place - SW	54.2	48.6	
7			At Solar Evaporation pond -W	57.8	50.6	
8			Near incinerator - NW	53.1	47.1	

Comments: The test result meets the KSPCB limit.

Digital Sound Level Meter
MECO-970P
Model No.SL 201703031548
Calibration Due Date. 17-12-2021

\*\*\*\*\*

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