



JGL/EHS/MOEF/2021-22/011

21 May 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: Environment Clearance No. SEIAA: 54 IND 2020, dtd. 05.09.2020.

Dear Sir,


With reference to the above said subject, please find enclosed herewith Six Monthly Compliance Report for the period of October 2020 to March 2021.

This is for your information and records.

Thanking You

Yours Faithfully

For **Jubilant Generics Limited**

  
Authorised Signatory  
[PRASAD]

**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/disclose/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**

# Plot No. 18, 56, 57 & 58  
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<http://www.jubilantpharma.com>

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Noida-201 301, UP India  
Tel: +91 120 2516601-11  
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Regd Office :

I-A, sector 16-A  
Noida-201 301, UP India  
CIN:U24100UP2013FLC060821

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Compliance status of conditions stipulated in EC

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-1 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-323374 dated 30.01.2021. CTO is valid till 30.06.2021 and applied for renewal on 24.02.2021
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 30.06.2021. 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.
	<b><u>II. Air quality monitoring and preservation</u></b>	

SI #	Conditions	Compliance Status
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 July, 2010 and amended from time to time shall be followed.	Complied. Regular monitoring of ambient air quality, Process emission, Stack emission and treated effluent are being carried out and same shall also be adhered during future expansion process. Analysis reports carried out is attached as Annexure 2(For AAQ)

SI #	Conditions	Compliance Status
		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 , drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Not Applicable and representation submitting for amending this condition due 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

Sl #	Conditions	Compliance Status
		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.
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

Sl #	Conditions	Compliance Status
		industries or KSPCB authorised Incinerators appropriately”
3	<p>The company shall undertake waste minimization measures as below:-</p> <p>a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>b) Re-use of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c) Use of automated filling to minimize spillage</p> <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>Complied.</p> <p>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.</p> <p>b) By-Products recovered are recycled by selling them to actual users.</p> <p>c) Level controllers/indicators are available in the reactors and storage tanks to monitor the filling process and thereby minimizing the spillage and overflow.</p> <p>d) Closed loop handling system, powder transfer systems and pressure transfer systems are available</p> <p>e) Vents of reactors, distillation columns and driers are connected to two stage condensers to recover solvents.</p> <p>f) High pressure jet clean machines are used to reduce waste water generation as well as water consumption.</p> <p>Same shall also be adhered during future expansion process.</p>
	<b><u>VII.Green Belt</u></b>	
1	<p>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.</p>	<p>Complied.</p> <p>Green belt area is developed around 40% area in compliance with the CPCB guidelines. Every year tree plantation is carried out to replace mortality</p> <p>Green belt area of 33% and the expectation shall be ensured during future expansion process.</p>
	<b><u>VIII. Safety, Public hearing and Human health issues</u></b>	
1	<p>Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented</p>	<p>Complied.</p> <p>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 extended to the additional operations during future expansion process.</p>
2	<p>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.</p>	<p>Complied.</p> <p>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.</p>

SI #	Conditions	Compliance Status
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 April 20 to Sep 20 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 April 20 to Sep 20 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 2019-20 is submitted on 30.09.2020. 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.

SI #	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



# Ganesh Consultancy & Analytical Services

(MoEF Recognised, FSSAI Notified Laboratory)



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ISO-14001  
ISO-45001  
RI91/10172

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  
Email : info@ganeshlaboratory.com, lab.ganesh@gmail.com • Web : www.ganeshlaboratory.com

## TEST REPORT

Page 1 of 1

### CUSTOMER ADDRESS,

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

Control No D: 2388-A/2020-21

Customer reference

Date of report 30-11-2020

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

- 4) Date of sampling 18-11-2020
- 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>	76.50	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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Reviewed By

For GANESH CONSULTANCY & ANALYTICAL SERVICES

Authorised Signatory

- NOTE :
1. The results listed refer only to the tested samples and applicable parameters. Endorsement of products neither inferred nor implied.
  2. Total liability of our institute is limited to the Invoice amount.
  3. Samples will be disposed after the specified retention period.
  4. This report is not to be reproduced wholly or in part and cannot be used as an evidence in Court of Law without prior permission in writing.
  5. Sample (s) or not drawn by us unless otherwise stated.



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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: 2388-B/2020-21

Customer reference

Date of report 30-11-2020

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

- 4) Date of sampling 18-11-2020
- 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>	24.75	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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### TEST REPORT

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**CUSTOMER ADDRESS,**

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

Control No D: 2388-C/2020-21

Customer reference

Date of report 30-11-2020

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

- 4) Date of sampling 18-11-2020
- 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>	30.12	Not Specified	IS-5102(Part-11):2000

Note: NAAQ: The National Ambient Air Quality Standards. National Ambient Air Quality Standards CPCB Notification 18<sup>th</sup> Novmbor, 2000.

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

Control No D: 3736-A/2020-21  
Customer reference Oral  
Date of report 27-02-2021

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

4) Date of sampling 11-02-2021 to 12-02-2021  
5) Duration of sampling 24 Hrs.  
6) Sampling protocol IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	14.23	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	48.20	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	63.74	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	25.66	60	Lab SOP - PM <sub>2.5</sub>
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP - NH <sub>3</sub>

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

Comments: The test result meets the NAAQ standards.

\*\*\*\*

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*[Signature]*

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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

D: 3736-B/2020-21

Oral  
 27-02-201

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

- 4) Date of sampling 11-02-2021 to 12-02-2021
- 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>	14.06	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	µg/m <sup>3</sup>	42.64	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 µm)	µg/m <sup>3</sup>	67.08	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	19.37	60	Lab SOP – PM <sub>2.5</sub>
5	Ammonia	µg/m <sup>3</sup>	BDL (DL :1.0)	400	Lab SOP – NH <sub>3</sub>

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

Comments: The test result meets the NAAQ standards.

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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

D: 3736-C/2020-21

Oral  
27-02-2021

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

- 4) Date of sampling : 11-02-2021 to 12-02-2021  
5) Duration of sampling : 24 Hrs.  
6) Sampling protocol : IS 5182

Sl. No	Test	Unit	Result	NAAQ Standards	Test Method
1	Sulphur dioxide	$\mu\text{g}/\text{m}^3$	9.15	80	IS 5182 (Part-2) 2001
2	Nitrogen Dioxides	$\mu\text{g}/\text{m}^3$	39.89	80	IS 5182 (Part-6) 2006
3	Particulate Matter (Size less than 10 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	77.54	100	IS 5182 (Part-23) 2006
4	Particulate Matter (Size less than 2.5 $\mu\text{m}$ )	$\mu\text{g}/\text{m}^3$	22.29	60	Lab SOP - PM <sub>2.5</sub>
5	Ammonia	$\mu\text{g}/\text{m}^3$	BDL (DL :1.0)	400	Lab SOP - NH <sub>3</sub>

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

Comments: The test result meets the NAAQ standards.

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### TEST REPORT

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C: 5870/2020-21

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

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

Control No  
 Customer Ref  
 Date of Sample Collection 22-01-2021  
 Date of Sample Receipt 23-01-2021  
 Date of Commencement 23-01-2021  
 Date of Completion 28-01-2021  
 Date of Report 29-01-2021  
 5) Sample Condition: Satisfactory  
 6) Sample Code/batch No. Not Specified  
 7) Sample Drawn By Lab. Personnel  
 8) Sampling Protocol IS 3025

Sl. No.	Test	Unit	Result	Test Method
1	pH Value	---	5.75	IS: 3025 (P 11)
2	Total Suspended Solids	mg/l	2	IS: 3025 (P 17)
3	Total Dissolved Solids	mg/l	452	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 3.1)	IS:3025 (P 31)
6	Total Hardness as CaCO <sub>3</sub>	mg/l	24	IS: 3025 (P 21)
7	Calcium as Ca	mg/l	2.4	IS: 3025 (P 40)
8	Magnesium as Mg	mg/l	4.32	IS: 3025 (P 46)
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	96	IS: 3025 (P 23)
10	Chloride as Cl	mg/l	181	IS: 3025 (P 32)
11	Sulphate as SO <sub>4</sub>	mg/l	5	IS: 3025 (P 24)
12	Iron as Fe	mg/l	0.43	IS: 3025 (P 53)
13	Sodium as Na	mg/l	29.45	IS: 3025 (P 45)
14	Chemical Oxygen Demand	mg/l	65	IS:3025 (P 58)
15	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10	IS:3025 (P 44)

BDL: Below Detection Limit, DL: Detection Limit

\*\*\*\*\*

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*Mau*

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### TEST REPORT

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

- 1) Sample description: Water
- 2) Sample Marked as: Treated STP Water.
- 3) Sample collected location: UV Outlet
- 4) Sample Package / Quantity: PET Bottle, 1 Liter

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 Drawn By  
8) Sampling Protocol

Page 1 of 1  
C: 5871/2020-21  
Oral  
22-01-2021  
22-01-2021  
23-01-2021  
28-01-2021  
29-01-2021  
Satisfactory  
Not Specified  
Lab. Personnel  
IS 3025

Sl. No.	Test	Unit	Result	KSPCB STP Standard	Test Method
1	pH Value	----	6.81	6.5 - 9.0	IS 3025: (P 11)
2	Chemical Oxygen Demand	mg/l	40	Not more than 50	IS 3025: (P 58)
3	Biochemical Oxygen Demand (3 days @27°C)	mg/l	8	Not more than 10	IS 3025: (P 44)
4	Total Suspended Solids	mg/l	10	Not More than 20	IS: 3025 (P 17)
5	Ammonical Nitrogen	mg/l	3.20	Not more than 5	IS: 3025 (P 34)
6	Total Nitrogen	mg/l	6.39	Not more than 10	IS: 3025 (P 34)

Comments: The test results meets the KSPCB limits

\*\*\*\*\*

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*Mauan*

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### TEST REPORT

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

- 1) Sample description: Water
- 2) Sample Marked as: Treated STP Water.
- 3) Sample collected location: UV Outlet
- 4) Sample Package / Quantity: Sterilized Bottle/250 ml
- 5) Sample condition: Satisfactory

Page 1 of 1  
 Control No B: 5871/2020-21  
 Customer Ref Oral  
 Date of Sample Collection 22-01-2021  
 Date of Sample Receipt 22-01-2021  
 Date of Commencement 23-01-2021  
 Date of Completion 27-01-2021  
 Date of Report 29-01-2021  
 6) Sample condition: Satisfactory  
 7) Sample Code/batch No. Not Specified  
 8) Sampled Drawn By Lab Personnel  
 9) Sampling Protocol IS 1622

Sl. No.	Test	Unit	Result	KSPCB Limit	Test Method
1	Feacal Coliforms	MPN/100ml	92	<100	IS 1622:1981 (RA 2019)

Comments: The test results meets the KSPCB limits

\*\*\*\*\*

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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: 3539-K/2020-21

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

3) Date of Sampling 21-01-2021  
 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	0.40 m
4	Cross Section Area	0.1257 m <sup>2</sup>
5	Ambient Temperature	31°C
6	Flue gas Temperature	29°C
7	Flue gas Velocity	4.90 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2012.36 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	11.65	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.88	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>	2.10	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	2.20	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	31-12-2021

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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: 3539-G/2020-21

03-02-2021

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

3) Date of Sampling 23-01-2021  
 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	30°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	5.52m/sec
8	Quantity of Flue gas discharges into the atmosphere	141.14 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	10.18	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.17	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	17.25	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.45	Lao SOP-HC
5	Acid Mist	mg/Nm <sup>3</sup>	1.64	Lao SOP - AM (S)

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,  
 Nanjar jud-571302,

Page 1 of 1  
 Control No D: 3539-A/2020-21  
 Customer reference  
 Date of report 03-02-2021

1) Sample description: Flue Gas  
 2) Sampled by : Lab Personnel  
 3) Date of Sampling 21-01-2021  
 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	34°C
6	Flue gas Temperature	29°C
7	Flue gas Velocity	8.55 m/sec
8	Quantity of Flue gas discharges into the atmosphere	877.14 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.21	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.87	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	18.56	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.66	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.84	Lab SOP-AM (S)
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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**TEST REPORT**

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D: 3539-B/2020-21

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

Control No  
Customer reference  
Date of report 03-02-2021

- 1) Sample description: Flue Gas
- 2) Sampled by : Lab Personnel
- 3) Date of Sampling 21-01-2020
- 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	33°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	6.26 m/sec
8	Quantity of Flue gas discharges into the atmosphere	644.35 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	10.27	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.17	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	18.86	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.10	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.60	Lab SOP-AM (S)
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,  
Nanjangud-571302,

Control No  
Customer reference  
Date of report

Page 1 of 1  
D: 3539-D/2020-21

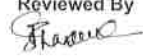
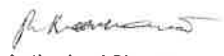
- |                                 |                      |            |
|---------------------------------|----------------------|------------|
| 1) Sample description: Flue Gas | 3) Date of Sampling  | 22-01-2021 |
| 2) Sampled by : Lab Personnel   | 4) Sampling protocol | IS 11255   |

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	33°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	4.54m/sec
8	Quantity of Flue gas discharges into the atmosphere	467.3 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	10.09	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.75	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.94	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.88	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.74	Lab SOP - AM (S)

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

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Page 1 of 1

D: 3539-E/2020-21

03-02-2021

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

3) Date of Sampling 20-01-2021  
 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	30°C
7	Flue gas Velocity	3.91 m/sec
8	Quantity of Flue gas discharges into the atmosphere	399.80 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	11.25	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	4.70	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	23.00	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.10	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.22	Lab SOP – AM (S)

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

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Page 1 of 1  
 Control No D-3539-F/2020-21  
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 Date of report 03-02-2021

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

3) Date of Sampling 20-01-2021  
 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	31°C
6	Flue gas Temperature	29°C
7	Flue gas Velocity	7.31 m/sec
8	Quantity of Flue gas discharges into the atmosphere	269.88 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.57	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.88	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.55	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.65	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.84	Lab SOP - AM (S)

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

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04-02-2021

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

3) Date of Sampling 23-01-2021  
 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	0.20 m
4	Cross Section Area	0.0314 m <sup>2</sup>
5	Ambient Temperature	29°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	4.03 m/sec
8	Quantity of Flue gas discharges into the atmosphere	416.19Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	13.21	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.31	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	18.86	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.10	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.62	Lab SOP - AM (S)

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

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D: 3539-N/2020-21

04-02-2021

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

3) Date of Sampling 23-01-2021  
 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	0.12 m
4	Cross Section Area	0.0113 m <sup>2</sup>
5	Ambient Temperature	30°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	4.89 m/sec
8	Quantity of Flue gas discharges into the atmosphere	181.14 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	11.52	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.87	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.02	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.88	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.75	Lab SOP – AM (S)

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

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Page 1 of 1  
 D: 3539-O/2020-21

04-02-2021

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

3) Date of Sampling 23-01-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	Plant-6, Scrubber-61003
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	30°C
6	Flue gas Temperature	28°C
7	Flue gas Velocity	3.64 m/sec
8	Quantity of Flue gas discharges into the atmosphere	133.72 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.75	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.60	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>	2.15	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.42	Lab SOP - AM (S)

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

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D: 3539-P/2020-21

04-02-2021

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

3) Date of Sampling 23-01-2021  
 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	0.32 m
4	Cross Section Area	0.0804 m <sup>2</sup>
5	Ambient Temperature	30°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	8.40 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2221.24 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	8.48	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.35	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	17.30	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.66	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.37	Lab SOP - AM (S)

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

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 D: 3539-Q/2020-21

04-02-2021

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

3) Date of Sampling 23-01-2021  
 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	0.15 m
4	Cross Section Area	0.0176 m <sup>2</sup>
5	Ambient Temperature	30°C
6	Flue gas Temperature	26°C
7	Flue gas Velocity	3.60 m/sec
8	Quantity of Flue gas discharges into the atmosphere	210.27Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	7.59	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.02	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	16.10	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.72	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.22	Lab SOP - AM (S)

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

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04-02-2021

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

3) Date of Sampling 23-01-2021  
 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	0.20 m
4	Cross Section Area	0.0314 m <sup>2</sup>
5	Ambient Temperature	31°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	11.82 m/sec
8	Quantity of Flue gas discharges into the atmosphere	1220.70 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	9.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.17	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	16.94	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	2.25	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.27	Lab SOP - AM (S)

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: 3539-C/2020-21

03-02-2021

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

3) Date of Sampling 20-01-2021  
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°C
7	Flue gas Velocity	4.18 m/sec
8	Quantity of Flue gas discharges into the atmosphere	106.52 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	10.27	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	3.92	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	20.17	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.88	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.35	Lab SOP - AM (S)

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

\*\*\*\*\*

Reviewed By

For GANESH CONSULTANCY & ANALYTICAL SERVICES

Authorised Signatory

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Page 1 of 1  
D: 3539-H/2020-21

03-02-2021

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

3) Date of Sampling 22-01-2021  
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	31°C
6	Flue gas Temperature	27°C
7	Flue gas Velocity	7.21 m/sec
8	Quantity of Flue gas discharges into the atmosphere	2153.19 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	9.11	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	2.88	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	15.02	IS 11255 (Part-7):1985
4	Hydro carbon	mg/Nm <sup>3</sup>	1.65	Lab SOP-HC
5	Acid Mist as H <sub>2</sub> SO <sub>4</sub>	mg/Nm <sup>3</sup>	1.35	Lab SOP – AM (S)

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

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Page 1 of 1  
 D: 3539-I/2020-21  
 Oral  
 04-02-2021

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

3) Date of Sampling 25-01-2021  
 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	252°C
7	Flue gas Velocity	10.58 m/sec
8	Quantity of Flue gas discharges into the atmosphere	1405.81 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	17.59	IS 11255 (Part-1):1985
2	Sulphur-dioxide	mg/Nm <sup>3</sup>	26.25	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	67.37	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	66.41	Lab SOP-CO
5	Carbon dioxide	%	8.20	Lab SOP-CO <sub>2</sub>
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	13.65	Lab SOP-NMHC
8	Acid Mist	mg/Nm <sup>3</sup>	10.55	Lab SOP- AM (S)
9	Hydro carbon	mg/Nm <sup>3</sup>	16.45	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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 Date of report

Page 1 of 1

D: 3539-J/2020-21

03-02-2021

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

3) Date of Sampling 25-01-2021  
 4) Sampling protocol IS 11255

Sl. No	General parameters	Details of stack
1	Stack connected to	6 TPH Boiler
2	Stack Height above Ground	54 m
3	Stack diameter	0.80 m
4	Cross Section Area	0.5028 m <sup>2</sup>
5	Ambient Temperature	31°C
6	Flue gas Temperature	126°C
7	Flue gas Velocity	7.69 m/sec
8	Quantity of Flue gas discharges into the atmosphere	9561.61 Nm <sup>3</sup> /hr

Sl. No	Test	Unit	Result	Test method
1	Particulate Matter	mg/Nm <sup>3</sup>	85.22	IS 11255 (Part-1):1985
2	Sulphur dioxide	mg/Nm <sup>3</sup>	17.78	IS 11255 (Part-2):1985
3	Oxides of Nitrogen	mg/Nm <sup>3</sup>	39.45	IS 11255 (Part-7):1985
4	Carbon monoxide	mg/Nm <sup>3</sup>	95.04	Lab SOP-CO
5	Carbon dioxide	%	6.10	Lab SOP-CO <sub>2</sub>
7	Non Methane Hydrocarbon	mg/Nm <sup>3</sup>	15.86	Lab SOP-NMHC
8	Acid Mist	mg/Nm <sup>3</sup>	7.25	USEPA Method-8
9	Hydro carbon	mg/Nm <sup>3</sup>	24.20	Lab SOP-HC

Note: Correction of the result at 11 % O<sub>2</sub>

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

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 Date of report

Page 1 of 1  
 D: 2955/2020-21

07-01-2021

- 1) Sample description : Noise  
 2) Date of monitoring : 25-11-2020  
 3) Monitored by : Lab Personnel

- 4) Noise Monitored on 24-12-2020  
 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	55.2	49.6	75 (Day Time) 70 (Night Time)
2			At Vehicle parking area - NE	63.9	52.8	
3			Main Gate entrance -E	52.8	48.9	
4			In Front of Passari Spinning Mill -SE	50.9	47.8	
5			In Open place in south – S	54.8	51.9	
6			In Open place – SW	49.8	46.3	
7			At Solar Evaporation pond- W	54.6	52.8	
8			Near incinerator - NW	48.3	47.4	

Comments: The test result meets the KSPCB limit.

Digital Sound Level Meter
MECO-970P
Model No.SL 201703031548
Calibration Due Date. 17-12-2020

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