

01st December 2020-

To, The Additional Director, Regional office (Southern Zone) Ministry of Environment, Forest and Climate Change, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, 2d Block, Koramangala, BBangalore 560034.

Sub: Submission of latest EC compliance status, for the proposed expansion of APIs, Intermediates and R&D for Custom Synthesis products manufacturing at Sai Life Sciences Limited, plot no. 79A, 79B, 80A, 80B, 81A, 82 and 130A,Unit-IV.Bidar-585403.

Ref: - Environment Clearance No. SEIAA 36 IND 2020, Dtd, 28-August 2020.

Respected Sir,

With reference to the above subject, we are herewith submitting the latest EC compliance status. Please find the enclosed hard copy with respect to the above cited subject.

Enclosed copy: Compliance report of latest EC Condition

Kindly acknowledge the receipt.

Thanking you.

Yours faithfully, For Sai Life Sciences Limited. 60000 Authorized Signatory.

Cc TO: 1. The Environmental Officer, Karnataka State Pollution Control Board, Plot No. 42(82), Naubad Industrial Area, Bidar -585 402.

 The Member secretary Karnataka State Pollution Control Board, Parisara bhavan, Church Street, Bangalore - 560001.



#### Environmental Clearance No. SEIAA - 36 IND 2020, Dtd: 28-August-2020. 🔶 Sai **Compliance report of EC Condition**

Compliance Environmental Clearance No. SEIAA 36 IND 2020, Dtd: 28-Aug-2020. Accorded by State level Environment impact Assessment Authority -Karnataka (Constituted by MOEF, Government of India).

Name and Address of the Project: Sai Life Sciences Ltd.,

Plot No.79A, 79B, 80A, 80B, 81A, 82 &130A, Kolhar Industrial Area, Bidar Taluk & District-585403, Karnataka State.

#### **I.Statutory Compliance:**

S.no	Specific Conditions	Compliance Status
1.	The project proponent shall obtain forest clearance under the provision of forest (conservation) Act, 1986 in case of the diversion of forest plant or non-forest plant purpose involved in the project.	
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 six-monthly compliance report.(In case of presence of schedule-1 species in the study area)	Not applicable.
4.	The project proponent shall obtained consent to establish / operate under the provisions of air (Prevention and control of pollution) Act, 1981 and the water (Prevention and control of pollution) Act, 1974 from the concerned state pollution control board / committee.	We have received of Consent for establish (CFE) from Karnataka state pollution control board.
5.	The project proponent shall be obtain authorization under the hazardous and other waste management rules,2016 as amended from time to time.	Complied. Noted and shall follow the same as per the MOEF / PCB rules and guidelines.

6.	The company shall strictly comply with the rules and guidelines under the manufacture, storage and import of hazardous chemicals (MSIHC) rules, 1989 as I amended time to time. All transportation of hazardous chemicals shall be as per the motor vehicle act(MVA),1989	It is being followed.

#### **II.** Air quality monitoring and preservation:

1.	The project shall install 24*7 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 recognized under environmental (Protection)Act,1986 or NABL accredited laboratories	Noted. It will be followed.
2.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under environment (Protection) Act,1986.	Complied. Fugitive emission monitoring is being carried out and the reports is 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 angle of 120 each), covering upwind and downwind directions.	Noted. It will be complied. Present we are monitored of Ambient Air quality through approved laboratories and reports are submitted to Regional office on monthly basis. Refer to 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 emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied. Our boilers works on fluidized bed technology for effective combustion and has pulsating fiber glass bag filters for efficient emission control. The emission parameters are regularly monitored through a PCB approved third party laboratory and the reports are also submitted to board on monthly basis. Ensured adequate stack heights for boilers. Boiler coal Sulphur content reports are attached. Refer to annexure-3.



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5.	Storage of raw materials, coal etc. shall be either stored in silos or in covered area to prevent dust pollution and other fugitive emissions.	<ul> <li>Complied.</li> <li>A.Boiler coal storage in closed shed and provided water mist to control dust dispersion into environment .</li> <li>B. Closed conveyor system to handle the coal loading activity.</li> <li>C.Our Boiler works on fluidized bed technology for effective combustion and has pulsating fiber glass filters for efficient emission control (SPM&lt; 100 mg/Nm<sup>3).</sup> Refer to annexure-4.</li> </ul>
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 and treated effluent are being carried out. The monitoring report are being submitted to the KSPCB regional office-Bidar in regular intervals.
7.	The national ambient air quality emission standards issued by ministry G.S.R NO. 826(E) dated 16th November, 2009 shall be complied with.	Noted and shall follow the same as per the MOEF / PCB rules and guidelines.

#### **III.**Water quality monitoring and preservation:

1.	The project proponent shall be provide online continuous monitoring of effluents, 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 project achieving ZLD).	Complied. We have provided online continuous monitoring of effluents (OCEMS). Treated effluent flow meter connected to CPCB/KSPCB servers. Refer to annexure-5.
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 project achieving ZLD).	Complied. The unit has Zero liquid discharge system (ZLDS). Comprising of Multiple effect evaporation system (MEE), Effluent treatment plant (ETP) and Reverse osmosis system (RO), and Effluent treated is used in cooling tower as a makeup.
3.	The effluent discharge shall conform to the standards prescribed under the environmental (Protection) Act, 1986, or as specified by the state pollution control board while granting consent under the Air/Water Act, Whichever is more stringent.	Complied. We have a Zero Liquid Discharge (ZLD) unit comprising of Biological ETP, Multiple Effect Evaporation system (MEE) and Reverse Osmosis (RO) Unit. Effluent treated is used in cooling tower as a makeup. Raw & treated effluent quality reports are



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		submitting to the board regularly	
	Tratal free la martan de la 1 11 de 1 de	Refer to annexure-6.	
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.	Noted and will be followed.	
5.	The process effluent/any waste water shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through separate conveyance system.	<ul> <li>Complied.</li> <li>A. Storm water shall not be allowed to mix with effluent and floor washing.</li> <li>B. Spill kits are provided across all the plants. Dyke walls /curb walls are provided wherever required towards secondary containment.</li> <li>C. All the site walkways &amp; building pathways at site are provided with uniform sloping to drive the water towards the drainages &amp; storm drain system.</li> <li>D. We have provided adequate rainwater storage tank. Refer to annexure-7.</li> </ul>	
6.	The company shall harvest rain water from the roof tops of the building and storm water drain to recharge the ground water and utilize the same for different industrial operations within the plant.	<ul><li>Complied.</li><li>A. All the building constructed at site are provided with uniform sloping at the roof to drive the water towards the draining &amp; catch basins.</li><li>B. We have provided adequate rainwater collection and storage tank.</li></ul>	
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 the this regard.	<ul> <li>Complied.</li> <li>A. All DG sets are provided with acoustic enclosures and stack height are adequate.</li> <li>B. Emissions are monitored by approved third party laboratories and reports are being submitted to Regional office on monthly basis. Refer to annexure-8.</li> </ul>	

#### **IV.** Noise monitoring and prevention:

1.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied. A. All DG sets are provided with acoustic enclosures.
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		Refer to annexure-8.
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.	<ul> <li>Complied.</li> <li>A. Noise levels monitoring is done at regular intervals. Noise levels report are being submitted to the PCB board regularly.</li> <li>B. Used proper lubrication to avoid excessive noise generation.</li> <li>C. Preventive maintenance in place and extended to all equipment's performed by qualified of maintenance team. Refer to annexure-9.</li> </ul>
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. It is being followed.

#### V. Energy Conservation measures:

		Complied.
1.	The energy sources for lighting purposes shall preferably be LED based.	The energy conservation measures in unit and LED lights provided for lighting purpose.

#### VI. Waste management:

1.	far pro pu	zardous chemicals shall be stored in tanks, tank ms, drums, carboys etc. Flame arresters shall be ovided on tank farm and the solvent transfer through mps.	Complied. Solvent storage tank farm is equipped with Nitrogen padding facility. Vents are equipped with flame arrestor, breather valve and Back pressure relief valves. Nitrogen blanketing system, earth rite system and Foam flooding system are provided in tank farm area. Foam flooding automatic system is provided in drum shed area. Refer to annexure -10.	
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.		Noted and being followed.	
The o	The company shall undertake waste minimization measures as below			
3	a.	Metering and control of quantities of active ingredients to minimize waste.	Waste minimization efforts are on-going and close monitoring of waste generation is in place	
	b.	Reuse of by-products from the process as raw	Noted and being followed	



	materials or as raw material substitutes in other processes.	
с.	Use of automated filling to minimize spillage.	Complied. 1).Liquids are transferred from centralized tank farm area to process plants through dedicated closed pipelines and suitable MOC through an automated system.
		<ul><li>2).Level controllers / Indicators are available in the reactors and storage tanks.</li><li>Refer to annexure -11.</li></ul>
d.	Use of Close feed system into batch reactors.	Complied. All powders are transferred through Powder Transfer System (PTS) and glove boxes. And Liquids are transferred by applying vacuum or closed charging by pumps. Refer to annexure -12.
e.	Venting equipment through Vapour recovery system.	Complied Heat exchangers are provided wherever necessary. On need basis secondary /vent condensers are also provided with brine /chilled water cooling circulation system. Refer to annexure -13.
f.	Use of high pressure hoses for equipment clearing to reduce waste water generation.	Complied. CIP system and high pressure water jet machines are in place to reduce the waste water generation. Attached the photographs of CIP system. Refer to annexure -14.

#### VII.Green Belt:

1.	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Noted and shall follow the same as per the board guidelines. Adequate area of Green belt is available in our factory premises Development of greenbelt in & around the plant (Total 3000 no's of plants already planted). Greenbelt photographs are attached Refer to annexure -15.
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	v m.salety, rubic hearing and ruman hearin issues:		
1	Emergency preparedness plan based on the hazard identification and risk assessment (HIRA) and disaster management plan shall be implemented.	Complied. The risk Assessment(HIRA) has been included in on-site emergency plan.	
2	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied. Entire site is covered with dedicated fire hydrant system which is kept in 'auto' mode. Electrical pump, Diesel pump and Jockey pump are made available in fire pump house which are hooked to a dedicated fire water reservoir. Aqueous Film Forming Foam (AFFF) solution is maintained at strategic locations. Portable fire extinguishers are placed at strategic locations across the site. Fire Extinguishers of different types like Dry Powder, Carbon dioxide, and Mechanical Foam are available. We also having 60 Members of Emergency Response Team (ERT Members) and they have undergone special training from the Fire department. We have engaged one retired District Fire officer for the Fire Fighting training and he visits the site once in 2 days and conducts the training to all the ERT members.	
3	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied. Various types of PPE are maintained and distributed to workers on regular basis.	
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.	<ul> <li>Complied.</li> <li>A. HSE induction and fresher training imparted to employees and workers. Training organized through Annual HSE Training Calendar. Training records are being maintained.</li> <li>B. Trained "Emergency Response Team (ERT)" members present in all shifts to mitigate any emergency situation. ERT members given various training on fire fighting, first-aid, evacuation &amp; rescue through practical drills.</li> </ul>	
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	Noted. And will be followed.	

#### VIII.Safety, Public hearing and Human health issues:



	completion of the project.	
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Annual medical check-ups are performed for employees and workers. Fully equipped Occupational Health Centre is established within the premises which is monitored by qualified Doctor.
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. We have provided of dedicated area for raw material, solvent tanks and finished products vehicles.

#### IX.Corporate Environment Responsibility:

1.	The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less than Rs. 56 Lakhs towards Providing facilities to the Govt. Hospital for Pandemic diseases control, Medical and Health facilities in villges adjacent to the Industrial area- kolhar Village and Development of Papanashini Lake within 5 year in accordance with the O.M. F. No.22-65/ 2017-IA.III dated Olst May 2018 and report be submitted to the Authority.	Noted. And will be followed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.	Complied. Organization has well laid down Health, Safety & Environmental policy duly approved by its Chairman and Managing director &CEO. Refer to annexure – 16.
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.	A separate Health, Safety & Environmental (HSE) management cell being established. Organogram are attached. Refer to annexure – 17.
4.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the	Noted and will be complied



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	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	
5.	Office along with the Six Monthly Compliance Report. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted. And will be followed.

#### X.Miscellaneous:

1.	Effort shall be made to replace Hexane, Toluene and Bromine by alternatives as per the SEAC condition.	Noted. And will be followed.
2.	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. Paper advertisement given on 01-October- 2020 in Regional language and English news papers. Refer to annexure – 18.
3.	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. Intimated to KSPCB-RO office, MOEF Office, Member secretary-SEIAA regarding obtaining new EC. Acknowledgement copies are attached. Refer to annexure – 19.
4.	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.	Noted and being followed.
5.	The project proponent shall monitor the criteria pollutants level namely; PM 10, S02, 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.	Stack emissions are monitored through approved laboratories and reports are submitted to Regional office on monthly basis and displayed at the main gate. Uploaded in company website and being updated half -Yearly. Refer to annexure – 1.



	compliance report of LC Co.	
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate change at environment clearance portal.	Noted It will be followed.
7.	The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged in to a single document. The email should be 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 rosz.bng-mefcc@gov.in Hard copy of HYCRs shall not be acceptable".	Noted and being followed.
8.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted and being followed.
9.	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.	Noted. And will be followed.
10.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and shall follow the same as per the MOEF / PCB rules and guidelines.
11.	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.	Noted and being followed.
12.	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).	Noted and shall follow the same as per the MOEF / PCB rules and guidelines.
13.	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
14.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
15.	The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and shall follow the same as per the MOEF / PCB rules and guidelines.



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16.	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.	Noted and being followed.
17.	The above conditions shall be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention and control of pollution) Act, 1981, the Environment (Protection) Act, 1986, hazardous and other wastes (Management and Trans boundary 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.	Noted.
18.	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.	Noted.
19.	The project proponent shall adopt and comply all the mechanism included by the MOEF&CC which is given in the Annexure-I and shall be abide by the conditions there on. The project proponent shall undertake all necessary steps to bring down the CEPI score of the industrial area and the improve the environment condition in accordance with the mechanism evolved by MOEF & CC.	Noted and will be complied.

#### **ANNEXURE-II**

Additional condition as per the Mechanism evolved by MOEF&CC as compliance to the orders of Honorable NGT dated 19-August-2019 in OA No.1038 Of 2018.

#### **Environment Mitigation Measures**

#### A. Air:

Stipulation of condition such as :

		Complied.
1.	Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.	A. Our Boiler works on fluidized bed technology for effective combustion and has pulsating fiber glass filters for efficient emission control (SPM< 100 mg/Nm3).
		B. Cyclone separator installed followed by the bag filter and stack height is in line with norms.
		Refer to annexure $-3$ .



2.	CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.	Noted and will be followed.
		Complied.
3.	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	<ul> <li>Adequate control measure are available for minimizing the fugitive emission from all the vulnerable sources.</li> <li>A. We have installed Powder transfer system (PTS), Glove box and drum Containment system (DCS). These advanced containment systems protect the environment by limiting the concentration of pollutants in ambient air.</li> <li>B. All our critical manufacturing operation are carried out through closed system and the reactors also are equipped with primary and secondary condensers with RT water or +5°C chilled water utility to prevent emission of Vocs. Refer to annexure -12.</li> </ul>
4.	Transportation of materials by rail/conveyor belt, wherever feasible.	Complied. The loading of coal to boiler. The coal is transferred to boiler using closed conveyor belt. Refer to annexure – 4.
	Encourage use of cleaner fuels (pet coke/furnace	Noted.
5.	oil/LSHS may be avoided).	It will be followed.
	Best Available Technology may be used. For example;	Noted.
6.	usage of EAF/SAF/IF in place of Cupola furnace. Usage of Supercritical technology in place of sub- critical technology.	It will be followed.
		Complied.
7.	Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33 %, wherever feasible.	33.5% of the total available area is converted into Green belt area. Going forward to 40% of green belt as per the additional conditions regarding increasing the green belt area to 40% wherever feasible stipulated by MOEF&CC, GOI dated 24-10-2019, we have taken steps to improve our green belt area by earmarking additional lands for plantation and green



		cover.
		Following are the activities undertaken with regards to same:
		1. Extending of green belt in existing area of 6.3 acre (Sy.No 280).
		2. Development of green belt in 0.5 acre (Plot No.130A) site
		3. Plantation along the boundary wall adjacent to main road near to ZLDS plant.
		4. Development of green cover 2.5 acres in lease land as part of social forestry initiative.
		Development of greenbelt in & around the plant (Total 3000 no's of plants already planted). Greenbelt photographs are attached. Refer to annexure -15.
8.	Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc,	Noted and will be complied.
9.	Assessment of carrying capacity of transportation load on roads inside the industrial premises. If the roads required to be widened, shall be prescribed as a condition.	Noted.

#### **B. Water:**

Stipulation of condition such as :		
1.	Reuse/recycle of treated waste water, wherever feasible.	Complied. Recycled water is being used in cooling towers as make up water.
2.	Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting)	Complied. The strong dedicated team manage the effluent in efficient manner on daily. The standard operation procedure is in place for management of effluent and all employees of ETP are trained on the procedure. As per the procedure in house effluent generation logbook is maintained as record. Preventive maintenance schedule is defined for all equipment's of ETP and maintenance is carried out at regular intervals by trained professionals.



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3.	A detailed water harvesting plan may be submitted by the project proponent	Complied. Rain water management : A. Storm water shall not be allowed to mix with effluent and floor washing.	
		B. Spill kits are provided across all the plants. Dyke walls /curb walls are provided wherever required towards secondary containment.	
		C. All the site walkways & building pathways at site are provided with uniform sloping to drive the water towards the drainages & storm drain system.	
		C. All the building constructed at site are provided with uniform sloping at the roof to drive the water towards the draining & catch basins.	
		D. We have provided adequate rainwater storage tank	
		E. The rainwater used to utilities as makeup.	
		Noted and being followed. we are following the highest standards of environmental management. We have systematic method for collection and treatment of all types of effluent. Our facility is equipped with Zero Liquid Discharge (ZLDS).	
	Zero liquid discharge wherever Techno Economically feasible	The ZLDS facility includes following components:	
4.		<ul> <li>A. Stripper</li> <li>B. Multiple Effect Evaporator (MEE)</li> <li>C. Agitated Thin Film Dryer (ATFD)</li> <li>D. Primary &amp; biological treatment</li> <li>E. Reverse Osmosis (RO) system.</li> <li>The tanks are provided with impervious acid proof lining to prevent any kind of spillage of effluent. The collected effluent is transferred to treatment facility through closed transfer system provided with SS / HDPE / rigid pipelines, compatible gaskets for pipeline and flange guard provided for HCL pipeline.</li> <li>The entire area of ETP facility is provided</li> </ul>	



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		with hard flooring and acid resistance
		impervious lining for hazard operation
		areas and leak prevention. All the collection
		tanks and the ETP area is provided with
		adequate secondary containment to prevent
		any spills leaking into the environment. We
		have in-house ETP laboratory and the
		effluent generated are analyzed for quality
		parameters in this lab.
		ZLDS facility photographs are attached.
		Refer to annexure -20.
		Complied.
		We have installed Sewage treatment plant
		(STP) and the domestic effluent is being
5.	In case, domestic waste water generation is more than 10 KLD, the industry may install STP.	treated in STP.
		STP plant and flow scheme attached as
		annexure-21.

#### C.Land:

Stipu	lation of condition such as :	
		Complied.
1.	Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects.	<ul> <li>33.5% of the total available area is converted into Green belt area. Going forward to 40% of green belt as per the additional conditions regarding increasing the green belt area to 40% wherever feasible stipulated by MOEF&amp;CC, GOI dated 24-10-2019, we have taken steps to improve our green belt area by earmarking additional lands for plantation and green cover.</li> <li>Following are the activities undertaken with regards to same:</li> </ul>
		1. Extending of green belt in existing area of 6.3 acre (Sy.No 280).
		2. Development of green belt in 0.5 acre (Plot No.130A) site
		3. Plantation along the boundary wall adjacent to main road near to ZLDS plant.
		4. Development of green cover 2.5 acres in lease land as part of social forestry initiative.

		Development of greenbelt in & around the plant (Total 3000 no's of plants already planted. Greenbelt photographs are attached Refer to annexure -15.
2.	Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	Noted and will be complied.
3.	Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.	Noted and will be followed.
4.	More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-processing.	Noted and being followed.

### **D.Other Condition (Additional)**

1.	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Noted. And will be followed.
2.	The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	Noted



# Environment monitoring report



#### (NABL ACCREDITED LABORATORY)

Office : 3rd Floor, Crystal Plaza, Near Mediscan Lab, Kalaburagi - 585 102 Email : envirogulbarga13@gmail.com, Cell : 9902940713

### ANALYSIS REPORT OF AMBIENT AIR QUALITY

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1	Name of the Location	Near DG Area
2	Name of the Industry	M/s. Sal Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
3	Sample Collected By	By us
4	Date of Sample Collection	05/08/2020
5	Particulars of the Instrument Used	Envirotech/APM 460 BL (RDS Machine) Envirotech/APM 550
б	Date of Sample Receipt	07/08/2020
7	Report No	AA-156
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Date of Report Sent	EC-EL/20-21
11	Environmental Condition	Normal
12	Sampling Method	IS 5182 (Part V)- 1975 (Reaffirmed 2009) & IS 5182 (Part 14): 2000 (Reaffirmed 2010)

#### RESULTS

SI NO.	PARAMETERS	UNITS	PROTOCOLS	RESLTS	LIMITS (NAAQS)
01	Particulate Matter as (PM <sub>30</sub> )	μg/ m <sup>3</sup>	15 5182 (Part 23) : 2006 (Reaffirmed-2014)	77.9	100
0Z	Particulate Matter as (PM <sub>2.5</sub> )	μg/ m <sup>*</sup>	IS 5182 (Part 23) : 2006 (Reaffirmed-2014)	21.9	60
03	Sulphur Dioxide as SO <sub>2</sub>	μg/ m³	IS 5182(Part 2):2001 . (Reaffirmed-2014)	8.1	80
04	Nitrogen Dioxide as NO <sub>2</sub>	µg/ m <sup>8</sup>	IS 5182(Part 6):2006 ( Reaffirmed-2014 )	11.9	80

	INFERENCE	As per KSPCB Limits,
_		Report Status:-The measured values for the above parameters are within the standards.

End of the Report

Analysed By

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(NABL ACCREDITED LABORATORY)

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### ANALYSIS REPORT OF AMBIENT AIR QUALITY

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1	Name of the Location	Near Ware House
2	Name of the Industry	M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
3	Sample Collected By	By us
4	Date of Sample Collection	05/08/2020
5	Particulars of the Instrument Used	Envirotech/APM 460 BL (RDS Machine) Envirotech/APM 550
6	Date of Sample Receipt	07/08/2020
7	Report No	AA-167
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Date of Report sent	EC-EL/20-21
11	Environmental Condition	Normal
12	Sampling Method	IS 5182 (Part V)- 1975 (Reaffirmed 2009) & IS 5182 (Part 14): 2000 (Reaffirmed 2010)

#### RESULTS

SI NO.	PARAMETERS	UNITS	PROTOCOLS	RESULTS	LIMITS (NAAQS)
01	Particulate Matter as (PM <sub>30</sub> )	µg/ m³	IS 5182 (Part 23) : 2006 (Reaffirmed-2014)	65.9	100
02	Perticulate Matter as (PM <sub>2.5</sub> )	µg/ m°	IS 5182 (Part 23) : 2005 (Reaffirmed-2014)	22.6	60
03	Sulphur Dioxide as SO <sub>2</sub>	µg/ m³	15 5182(Part 2):2001 ( Rcoffirmed-2014 )	8.4	80
04	Nitrogen Dioxide as NO <sub>2</sub>	µg/ m <sup>8</sup>	IS 5182(Part 6):2006 ( (Reaffirmed-2014)	12.7	80

INFERENCE	As per KSPCB Limits,
	Report Status:-The measured values for the above parameters are within the standards.

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# ANALYSIS REPORT OF AMBIENT AIR QUALITY

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1	Name of the Location	Near ETP Area
2	Name of the Industry	M/s. Sal Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
3	Sample Collected By	By us
4	Date of Sample Collection	05/08/2020
5	Particulars of the Instrument Used	Envirotech/APM 460 BL (RDS Machine)
6	Date of Sample Receipt	Envirotech/APM 550 07/08/2020
7	Report No	AA-168
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Date of Report sent	EC-EL/20-21
11	Environmental Condition	
12	Sampling Method	Normal IS 5182 (Part V)- 1975 (Reaffirmed 2009) & IS 5182 (Part 14): 2000 (Reaffirmed 2010)

#### RESULTS

NO.	PARAMETERS	UNITS	PROTOCOLS	RESULTS	
01	Particulate Matter as (PM10)	mate 3	to show to	HESORI'S	LIMITS (NAAQS)
1000		μg/ m³	IS 5182 (Part 23) : 2006 (Reaffirmed-2014)	84.9	100
02	Particulate Matter as (PM <sub>2.5</sub> )	µg/ m³	IS 5182 (Part 23) : 2005 (Reaffirmed-2014)	28.4	60
03	Sulphur Dioxide as SO <sub>2</sub>	µg/ m³	IS 5182(Part 2):2001 (Reaffirmed-2014)	9.6	80
04	Nitrogen Dioxide as NO <sub>2</sub>	μg/ m³	15 5182(Part 6):2006 ( Reaffirmed-2014 )	12.2	80

INFERENCE	As per KSPCB Limits,
	Report Status:-The measured values for the above parameters are within the standards.
	the above parameters are within the standards.

End of the Report

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Page 1/1



(NABL ACCREDITED LABORATORY)

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### ANALYSIS REPORT OF AMBIENT AIR QUALITY

1	Name of the Location	Near Work Shop
2	Name of the Industry	M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
3	Sample Collected By	By us
4	Date of Sample Collection	05/08/2020
5	Particulars of the Instrument Used	Envirotech/APM 460 BL (RDS Machine) Envirotech/APM 550
6	Date of Sample Receipt	07/08/2020
7	Report No	AA-169
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Date of Report Sent	EC-EL/20-21
11	Environmental Condition	Normal
12	Sampling Method	IS 5182 (Part V)- 1975 (Reaffirmed 2009) & IS 5182 (Part 14): 2000 (Reaffirmed 2010)

#### RESULTS

SI NO.	PARAMETERS	UNITS	PROTOCOLS	RESULTS	LIMITS (NAAQS)
01	Particulate Matter as (PM <sub>10</sub> )	μg/ m³	IS 5182 (Part 23) : 2006 (Reaffirmed-2014)	76.6	100
02	Particulate Matter as (PM <sub>2.5</sub> )	µg/ m°	IS 5182 (Part 23) : 2006 (Reaffirmed-2014)	28.7	60
03	Sulphur Dioxide as SO2	hB\ w <sub>3</sub>	IS 5182(Part 2):2001 (Reaffirmed-2014)	8.4	80
04	Nitrogen Dioxide as NO <sub>2</sub>	µg/ m³	IS 5182(Part 6):2006 ( Reaffirmed-2014 )	10.8	80

INFERENCE	As per KSPCB Limits,
	Report Status:-The measured values for the above parameters are within the standards.

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### PREMIER ANALYTICAL LABORATORIES

(Environment Monitoring -& Minerals Testing Services) ISO 9001 : 2015 Certified & NABL Accredited Testing Laboratory (TC-6193)

Near Old Ganesh Gas Godown, Beside Govt. Primary School, Amaravathi, HOSAPETE - 583 201, Ballari Dist., Karnataka. Tel.: 08394 - 228683 / email: premierlabhpt@gmail.com

#### TEST REPORT

#### WATER ANALYSIS REPORT

(sample drawn by Industry)

		Page 1 of :	1
Test Report No:PAL/HPT/	621 /W/RND/2020	Report Date : 13.8.2020	
Issued to :Sai Life Sciences 82, Kolhar Industrial Area, B	Ltd., Unit - IV,80-A, 80-B, 81-A & idar - 585403	Customer reference : Walking customer	
Date of Sampling :	7.8.2020	Date of sample receipt : 9.8.2020	
Sample Nature / Name :	Bore water	Analysis start date : 9.8.2020	
Sample Condition :	Satisfactory	Analysis completion date : 13.8.2020	
Sample Code No. :	1243 .		
Sample particulars :	Bore water	Sampling Protocol : APHA 22 <sup>rd</sup> edition	÷
Environmental conditions	:		

	Results	,				
SI	Parameters	ers Protocol	Unit	Result	Standard : IS 10600 2012	
No.	A Constant of the second se			101103-04940407	DL	PL
1	pН	APHA 22 <sup>rd</sup> edition-4500 HT-B	-	7.05	6.5 to 8.5	No relexation
2	Conductivity	APHA 22 <sup>sd</sup> edition 2510 8	µ mhos	698	1000	
3	Turbidity	APHA 22 <sup>st</sup> edition 2130 8	NTU	1	1	5
4	Total Hardness	APHA 22 <sup>td</sup> edition2348 C	ngil	174	200	600
5	Total Alkalinity	APHA 22 <sup>rd</sup> edition - 2320 B	mg8	163	200	600
6	Chlorides (CI)	APHA 22 <sup>rd</sup> edition 4500 CI 1 B	mgil	148	250	1000
7	Fluorides (F)	APHA 22 <sup>nd</sup> edition 4500 F-D	nigiti	0.85	1.0	1.5
8	Iron (Fe)	APHA 22 <sup>nd</sup> edition 3500 B	mg/i	0.10	0.30	No relaxation
9	Total dissolved solids	APHA 22 <sup>nd</sup> edition 2540 C	mg/t	475	500	2000
10	Nitrates (NO <sub>3</sub> )	APHA 22 <sup>rd</sup> edition 4500 B	ngi	22	45	No relaxation
11	Sulphates as SO <sub>2</sub>	APHA 22 <sup>nd</sup> edition - 4500 C	mgil	29	200	400
12	Calcium as Ca	APHA 22 <sup>nd</sup> edition - 3500 B	nigit	52	75	200
13	Magnesium as Mg	APHA 22 <sup>nd</sup> edition-3500 Mg B	mgil	11	30	100

END OF REPORT



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## PREMIER ANALYTICAL LABORATORIES

(Environment Monitoring & Minerals Testing Services) ISO 9001 : 2015 Certified & NABL Accredited Testing Laboratory (TC-6193)

Near Old Ganesh Gas Godown, Beside Govt. Primary School, Amaravathi, HOSAPETE - 583 201, Ballari Dist., Karnataka. Tel. : 08394 - 228683 / email : premierlabhpt@gmail.com

#### TEST REPORT

#### SOURCE EMISSION ANALYSIS REPORT

*	Page 1 of 1
Test Report No:PAL/HPT/ 622 /SE/R&D/2020	Report Date : 13.8.2020
Issued to : M/s.Sai Life Sciences Ltd., Plot No.80-A,80-B,81-A & 82, Kolhar Ind Area, Bidar - 585403.	Customer reference : Walking customer
Date of Sampling : 7.8.2020	Date of sample receipt : 9.8.2020
Sample Nature / Name : Source emission	Analysis start date : 9.8.2020
Sample Condition : Satisfactory	Analysis completion date : 13.8.2020
Sample Code No.: 1244	Sampling protocol : IS 11255 (Part 1) - 1985 (reaffirmed
Sample particulars : Vayubodhan stack sampler VSS 1.	2003)
Environmental condition : Normal	1

#### Results

General Details

Stack ID		DG set - 1010 KVA		
Manometer reading (H) mm (average)	5.1	Nozzle used	3/8" dia = 7.13 x 10 <sup>-5</sup>	
Stack gasTemperature (*C)	140	Diameter (m)	0.15	
Ambient Temperature (°C)	29	Fuel used	HSD	
Velocity (m/s) 7.6		Crossectional area (m <sup>2</sup> )	0.017	
Rate of Sampling	28.3			

Parameter .	Protocol	Unit	DG set - 1010 KVA	Standard
Particulate Matter	IS : 11255 (Part 1) - 1985 (reaffirmed 2003)	(mg/Nm <sup>2</sup> )	52	150
Sulphur dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) : 1985 (reaffirmed 2003)	(mg/Nm <sup>3</sup> )	13.50	100
Oxides of Nitrogen (NOx)	IS 11255 (Part 7) : 2005	PPM	10.2	50
*Carbon monoxide (CO)	Instrumental	(mg/Nm <sup>3</sup> )	13	100
"NMHC	Instrumental	(mg/Nm <sup>3</sup> )	10	100

Note : 1) PM --- Particulate matter, NMHC --- Non methane hydro carbon.

2) \* marked parameters do not carry NABL accreditation.

Reviewed by

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# **ENVIRO CONSULTENCY**

(NABL ACCREDITED LABORATORY)

Office : 3rd Floor, Crystal Plaza, Near Mediscan Lab, Kalaburagi - 585 102 Email : envirogulbarga13@gmail.com, Cell : 9902940713

#### ANALYSIS REPORT OF SOURCE EMISSION

î	Name of the Industry	M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
2	Stack Location	750KVA DG Set
3	Sample Collected By	8y Us
4	Date of Sample Collection	06/08/2020
5	Particulars of the Instrument Used	Vayubodhan stack kit (VSS1)
6	Date of Sample Receipt	07/08/2020
7	Sample Number	AA-171
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Report Number	EC-EL/20-21
11	Environmental Condition	Normal
12	Sampling Method	IS:11255 (Part-3):2008

#### DATA COLLECTED DETAILS

Monometer Reading (H) mm (Average)	5.1
Stack Gas Temperature ( <sup>6</sup> C)	124
Ambient Temperature ( <sup>4</sup> C)	29
Stack Gas Velocity (m/s)	8.6
Rate of Sampling	27.9
Nozzle Used	$3/8^{\circ}$ dia = 7.13 x 10 <sup>-5</sup>
Pitot Tube Constant	0.836
Period of Sampling in Minutes	57.3
Fuel Used	Diesel
Diameter (m)	0.15
Cross Sectional Area of Stack (m <sup>2</sup> )	0.017
Flow/Discharge rate (Nm <sup>1</sup> /hr)	400.37

SI.		100 at 10 a		Protocol	
No.	Parameters	Unit	Result	Indian Standard Part No.& Year	Limits as per KSPCB
1	Particulate Matter as PM	mg/Nm <sup>3</sup>	89.7	IS:11255 (Part-1)1985 Reaffirmed 2012	150
2	Sulfur dioxide as 50 <sub>2</sub>	mg/Nm <sup>3</sup>	7.6	IS:11255 (Part-2)1985 Reaffirmed 2012	100
•3	Oxides of Nitrogen NO <sub>x</sub>	PPM	12.2	IS:11255 (Part-2)1985 Reaffirmed 2012	50

INFERENCE

#### As per KSPCB Limits,

Report Status: The measured values for the above parameters are within the limits.

Analysed By

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#### (NABL ACCREDITED LABORATORY)

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#### ANALYSIS REPORT OF SOURCE EMISSION

1	Name of the Industry	M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82; Kolhar Industrial Area, Bidar-S85403	
2	Stack Location	Boller 10TPH	
3	Sample Collected By	By Us	
4	Date of Sample Collection	06/08/2020	_
5	Particulars of the Instrument Used	Vayubodhan stack kit (VSS1)	
6	Date of Sample Receipt	07/08/2020	
7	Sample Number	AA-173	
8	Date of Analysis Started	08/08/2020	_
9	Date of Analysis Completed	08/08/2020	
10	Report Number	EC-EL/28-21	
11	Environmental Condition	Normal	
12	Sampling Method	IS:11255 (Part-3):2008	

#### DATA COLLECTED DETAILS

Monometer Reading (H) mm (Average)	5.1
Stack Gas Temperature ( <sup>4</sup> C)	105
Ambient Temperature (°C)	27
Stack Gas Velocity (m/s)	8.4
Rate of Sampling	28.5
Nozzle Used	3/8" dia = 7.13 x 10 <sup>-3</sup>
Pitot Tube Constant	0.836
Period of Sampling in Minutes	56.1
Fuel Used	Coal
Diameter (m)	0.9
Cross Sectional Area of Stack (m <sup>2</sup> )	0.636
Flow/Discharge rate (Nm <sup>3</sup> /hr)	15264.00

SI.				Protocol	
No.	Parameters	Unit	Result	Indian Standard Part No.& Year	Umits as per KSPCB
1	Particulate Matter as PM	mg/Nm	3 70.8	IS:11255 (Part-1)1985 Reaffirmed 2012	150
2	Sulfur dioxide as SO <sub>2</sub>	mg/Nm	8.1	15:11255 (Part-2)1985 Reaffirmed 2012	100
*3	Oxides of Nitrogen NO <sub>x</sub>	PPM	11.6	IS:11255 (Part-2)1985 Reaffirmed 2012	50

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# **ENVIRO CONSULTENCY**

#### (NABL ACCREDITED LABORATORY)

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#### ANALYSIS REPORT OF SOURCE EMISSION

1	Name of the Industry	M/s. Sai Life Sciences Umited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
2	Stack Location	Thermic Fluid Heater
3	Sample Collected By	By Us
4	Date of Sample Collection	06/08/2020
5	Particulars of the Instrument Used	Vayubodhan stack kit (VS51)
6	Date of Sample Receipt	07/08/2020
7	Sample Number	AA-172
8	Date of Analysis Started	08/08/2020
9	Date of Analysis Completed	08/08/2020
10	Report Number	EC-EL/20-21
11	Environmental Condition	Normal
12	Sampling Method	(S:11255 (Part-3):2008

DATA	COL	LECT	ED	DET	<b>AILS</b>
	-		-	-	

Monometer Reading (H) mm (Average)	4.1
Stack Gas Temperature (°C)	103
Ambient Temperature ( <sup>6</sup> C)	28
Stack Gas Velocity (m/s)	7.5
Rate of Sampling	25.6
Nozzie Used	3/8" dia = 7.13 x 10'5
Pitot Tube Constant	0.836
Period of Sampling in Minutes	62.5
Fuel Used	Diesel
Diameter (m)	0.5
Cross Sectional Area of Stack (m <sup>2</sup> )	0.196
Flow/Discharge rate (Nm <sup>3</sup> /hr)	4235.41

#### RESULTS

				Protocol	
Parameters		Unit	Result	Indian Standard Part No.& Year	Limits as per KSPCB
Particulate Matter as PM		mg/Nm <sup>2</sup>	78.5	IS:11255 (Part-1)1985 Reaffirmed 2012	150
Sulfur dioxide as SO <sub>2</sub>		mg/Nm <sup>3</sup>	7.8	IS:11255 (Part-2)1985 Reaffirmed 2012	100
Oxides of Nitrogen NO,		mg/Nm <sup>3</sup>	10.3	IS:11255 (Part-2)1985 Reaffirmed 2012	50
	Particulate Matter as PM Sulfur dioxide as SO <sub>2</sub>	Particulate Matter as PM Sulfur dioxide as SO <sub>2</sub>	Particulate Matter as PM mg/Nm <sup>3</sup> Sulfur dioxide as SO <sub>2</sub> mg/Nm <sup>3</sup>	Particulate Matter as PM mg/Nm <sup>3</sup> 78.5 Sulfur dioxide as SO <sub>2</sub> mg/Nm <sup>3</sup> 7.8	Parameters         Unit         Result         Indian Standard Part No.& Year           Particulate Matter as PM         mg/Nm <sup>3</sup> 78.5         IS:11255 (Part-1)1985 Reaffirmed 2012           Sulfur dioxide as SO <sub>2</sub> mg/Nm <sup>3</sup> 7.8         IS:11255 (Part-2)1985 Reaffirmed 2012           Oxides of Nitrogen NO <sub>2</sub> mg/Nm <sup>3</sup> 10.3         IS:11255 (Part-2)1985

Analysed By

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## PREMIER ANALYTICAL LABORATORIES

(Environment Monitoring -& Minerals Testing Services) ISO 9001 : 2015 Certified & NABL Accredited Testing Laboratory (TC-6193)

Near Old Ganesh Gas Godown, Beside Govt. Primary School, Amaravathi, HOSAPETE - 583 201, Ballari Dist., Karnataka. Tel. : 08394 - 228683 / email : premierlabhpt@gmail.com

#### TEST REPORT

1	Name of the Industry	M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
2	Stack Location	Scrubber
3	Sample Collected By	By us
4	Date of Sample Collection	5.8.2020
5	Particulars of the Instrument Used	Vayubodhan Stack Kit (VSS1)
6	Date of Sample Receipt	7.8.2020
7	Sample Number	1221 to 1224
8	Date of Analysis Started	7.8.2020
9	Date of Analysis Completed	10.6.2020
10	Report Number	608
11	Environmental Condition	Normal
12	Sampling Method	IS 11255 (Part-3) 2008

### GENERAL DETAILS

Scrubber - 01	Scrubber -02	Scrubber -03	Scrubber - 04
30	28	30	29
6.8	7.0	6.7	6.9
0.5	0.5	0.5	0.5
0.196	0.196	0.196	0.195
	30 6.8 0.5	30 28 6.8 7.0 0.5 0.5	30         28         30           6.8         7.0         6.7           0.5         0.5         0.5

#### RESULTS

S.No	Stack ID	PARAMETERS	PROTOCOL	UNITS	RESULTS	STANDARD
1	Scrubber -01	Acid Mist	EPA Method	. mg/Nm <sup>3</sup>	9.6	20 Max
2	Scrubber -02	Acid Mist	EPA Method	800/Nm <sup>3</sup>	8.7	20 Max
3	Scrubber -03	Acid Mist	EPA Method	mg/Nm <sup>3</sup>	8.9	20 Max
4	Scrubber -04	Acid Mist	EPA Method	mg/Nm <sup>5</sup>	8.5	20 Max

hereway and the	As Per KSPC8 Standards,	
INFERENCE	Report Status : The above tested results are with in the limits.	

END OF THE REPORT



To Swarns Authorised Signatory



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# PREMIER ANALYTICAL LABORATORIES

(Environment Monitoring -& Minerals Testing Services) ISO 9001 : 2015 Certified & NABL Accredited Testing Laboratory (TC-6193)

Near Old Ganesh Gas Godown, Beside Govt. Primary School, Amaravathi, HOSAPETE - 583 201, Ballari Dist., Karnataka. Tel.: 08394 - 228683 / email: premierlabhpt@gmall.com

#### TEST REPORT

1	Name of the industry	Mis. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bidar-585403
2	Stack Location	Scrubber
3	Sample Collected By	By us
4	Date of Sample Collection	6.8.2020
5	Particulars of the Instrument Used	Vayubodhan Stack Kit (VSS1)
6	Date of Sample Receipt	8.8.2020
7	Sample Number	1226 to 1229
8	Date of Analysis Started	8.8.2020
9	Date of Analysis Completed	11.8.2020
10	Report Number	610 .
11	Environmental Condition	Normal
12	Sampling Method	(S:11255 (Part-3) 2006

#### GENERAL DETAILS

Stack ID	Scrubber - 05	Scrubber -06	Scrubber -07	Scrubber - 08
Temperature	29	- 30	29	30
Velacity (m/s)	7.1	6.8	7.2	7.1
Diameter (m)	0.5	0.5	0.5	0.5
Cross Sectional area (m²)	0.196	0.196	0.196	0.195

#### RESULTS

S.No	Stack ID	PARAMETERS	PROTOCOL	UNITS	RESULTS*	STANDARD
1	Scrubber -05	Acid Mist	EPA Method	mg/Nm <sup>3</sup>	8.5	20 Max
2	Scrubber -06	Acid Mist	EPA Method	mg/Nm <sup>a</sup>	9.4	20 Max
3	Scrubber -07	Acid Mist	EPA Method	mg/Nm <sup>2</sup>	8.5	20 Max
4	Scrubber -08	Acid Mist	EPA Method	mg/Nm <sup>2</sup>	8.8	20 Max

INFERENCE	As Per KSPCB Standards.
	Report Status : The above tested results are with in the limits.

END OF THE REPORT

Reviewed by



-K. Swaen Authorised Signatory





# PREMIER ANALYTICAL LABORATORIES

(Environment Monitoring -& Minerals Testing Services) ISO 9001 : 2015 Certified & NABL Accredited Testing Laboratory (TC-6193)

Near Old Ganesh Gas Godown, Beside Govt. Primary School, Amaravathi, HOSAPETE - 583 201, Ballari Dist., Karnataka. Tel.: 08394 - 228683 / email: premierlabhpt@gmail.com

#### TEST REPORT

1	Name of the Industry	M/s, Sal Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area, Bider-585403
2	Stack Location	Scrubber
3	Sample Collected By	By us
.4	Date of Sample Collection	7.8.2020
5	Particulars of the Instrument Used	Vayubodhan Stack Kit (VSS1)
6	Date of Sample Receipt	9.8.2020
7	Sample Number	1231 to 1233
8	Date of Analysis Started	9.8.2020
9	Date of Analysis Completed	11.8.2020
10	Report Number	612
11	Environmental Condition	Normal .
12	Sampling Method	IS:11255 (Part-3):2008

#### GENERAL DETAILS

Stack ID	Scrubber - 09	Scrubber 10	Scrubber -11
Temperature	29	30	29
Velocity (m/s)	6.60	8.36	7.28
Diameter (m)	0.5	0.5	0.5
Cross Sectional area (m <sup>2</sup> )	0.196	0.196	0.196

#### RESULTS

S.No	Stack ID	PARAMETERS	PROTOCOL	UNITS	RESULTS*	STANDARD
1	Scrubber -09	Acid Mist	EPA Method	mg/Nm <sup>2</sup>	10.7	20 Max
2	Scrubber -10	Acid Mist	EPA Method	mg/Nm <sup>2</sup>	9.4	20 Max
3	Scrubber -11	Acid Mist	EPA Method	mg/Nm <sup>2</sup>	8.8	20 Max

NCONCLOREDO NOS	As Per KSPCB Standards,	
INFERENCE	Report Status : The above tested results are with in the limits.	

END OF THE REPORT





75 Swanner. Authorised Signatory