

o/c

Syngene

SYN/EHSS/MOEF&CC/2023-24/011

Date: 30 May 2023

To,

Regional Director (Karnataka)

Ministry of Environment, Forests & Climate Change

Regional Office (Southern Zone), Kendriya Sadan

IV Floor, E & F Wings, 17th Main Road,

II Block, Koramangala,

Bangalore - 560 034

Syngene International Limited
MSEZ, Plot No. IP-39, IP-46, & IP-60
IP-25 (Part), & IP -61(Part)
Kalavar Village & Post
Dakshina Kannada,
Mangaluru -574142
CIN: L85110KA1993PLC014937
www.syngeneintl.com

Dear Sir,

Sub: Submission of Compliance to Environmental Clearance (SEIAA 03 IND 2021) issued to Syngene International Limited, IP-39, IP-46, IP-60 & IP-25 (Part) & IP -61 (Part) Kalavar Village and post, Mangalore SEZ.

Ref: Environmental Clearance vide letter No: SEIAA 03 IND 2021 Dated: 26 Mar 2021

With respect to above subject, we are herewith submitting the half-yearly compliance for the conditions stipulated in the Environmental Clearance.

Kindly accept and acknowledge the same.

Thank you.

For M/s Syngene International Limited MSEZ



Authorized Signatory

RECEIVED
Regional Office
Karnataka State Environmental Impact Assessment Board
Plot No. 10-07, Industrial Area
Mangaluru-575011
30/5/23

Copy to:

1. SEO KSPCB, 17 Category
2. REO KSPCB Mangalore

Compliance to the Environmental Clearance Conditions

M/s.Syngene International Ltd. Mangalore Plot Nos. IP-39, IP-46, IP-60 and IP-25(Part) & IP-61(Part) of Mangalore SEZ Karnataka has obtained Environmental Clearance from SEIAA vide letter no. No. **SEIAA 03 IND 2021** dated for the establishment of manufacturing facility for API products. Total product capacity is Kg/Month. M/s. products proposed to be manufactured is as under;

Compliance to EC conditions

Present status:

- Amendment of EC- SEIAA 03 IND 2021 Dated: 02.02.2023
- Corrigendum to EC-SEIAA 03 IND 2021 Dated: 30.11.2021
- Previous EC – SEIAA 03 IND 2021 Dated: 26.03.2021
- Previous EC-SEIAA 43 IND 2019 Dated: 06.08.2020
- Previous EC-SEIAA 27 IND 2015 Dated: 17.10.2016
- CFO-AW317179 Dated: 15.02.2020
- CFE-304862 Dated: 11.01.2018

I Statutory compliance		
	Conditions	Compliance
i.	The Project proponent shall obtain forest clearance under the provisions of forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable as Site is in the MSEZ Industrial area.
ii.	The project proponent shall obtain clearance from the National Board for wildlife, if applicable.	Not applicable as Site is in the MSEZ Industrial area.
iii.	The project shall prepare a Site-Specific Conservation plan & wildlife Management Plan and approved Site-specific Conservation Plan/wildlife Management plan shall be implemented in consultation with the state forest department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule – I species in the study area).	There are no schedule – I species available in the site.
iv.	The Project proponent shall obtain Consent to establish/operate under the provisions of Air (Prevention & Control of pollution) Act, 1981 and the Water (prevention & Control of Pollution) Act, 1974 from the concerned state pollution Control Board/ Committee.	M/s. Syngene International Ltd. Mangalore has obtained CFE and CTO under the Water Act and The Air Act from KSPCB before starting the operation.
v.	The project proponent shall obtain authorization under the Hazardous and other waste management rules, 2016 as amended from time to time.	M/s. Syngene International Ltd Mangalore has obtained authorization under the Hazardous and other waste management Rule with No 319695 dated 19.08.2020.
vi.	The company shall strictly comply with the rules and guidelines under manufacture, storage and import of Hazardous chemicals (MSIHC) rules, 1989 as amended time to time. All transportation of hazardous chemicals shall be as per the motor vehicle Act (MVA), 1989	M/s. Syngene International Ltd Mangalore will 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.
II Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in environment (protection) rules 1986 and connected to	Syngene MSEZ has provided Continuous emission monitoring systems on stacks of boilers and DGs' and connected to CPCB.

	SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	However, as per Annexure-I of Guidelines for Continuous Emission Monitoring Systems of 1 st Revised Guidelines for Continuous Emission Monitoring Systems August 2018 24x7 continuous process stack monitoring is not applicable for Pharmaceutical Industry, hence requested to exempt from providing the same. Calibrations of the systems are being conducted through Thermofisher Scientific.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under the Environment (Protection) Act, 1986.	Noted. M/s. Syngene International Ltd Mangalore is monitoring fugitive emissions in the plant premises on quarterly basis through labs recognized under Environment (Protection) Act, 1986. Copy of the report is being attached as Annexure-01
iii.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM 2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emission) within and outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Syngene MSEZ has installed the CAAQMS station as per the prescribed guidelines. We analyze the ambient air quality monitoring through NABL accredited Lab on monthly basis. Copy of the report is being attached as Annexure-02
iv.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The unit is not operating coal fired Boiler. Emission control devices have been installed at the boilers and flue gases are dispersed through stack of adequate height as per the CPCB/SPCB guidelines. Copy of Stack monitoring have been attached as Annexure-03
v	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied to the condition
vi	National Emission standards for organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 st July 2010 and amended from time to time shall be followed.	Noted and the condition has been followed.
vii	The National Ambient Air Quality Emission standards issued by the Ministry vide G.S.R.No. 826(E) dated 16 th November 2009 shall be complied with.	Noted and the condition has been followed.
III.	Water quality monitoring and preservation	
i.	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).	Complied
ii.	As already committed by the project proponent, zero liquid discharge shall be ensured, and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).	Unit is treating HTDS & LTDS effluent in-house and treated water is being used for cooling tower make up Industry has complied to Zero Liquid Discharge System.

iii.	The effluent discharge shall conform to the standards prescribed under the environment (Protection) Rules, 1986 or as specified by the state pollution control board while granting Consent under the Air/water act, whichever is more stringent.	<p>The unit does not discharge any effluent. Effluents are being treated in-house effluent treatment plant and treated water is being utilized for cooling towers.</p> <p>Sewage effluents are being treated in-house STP and treated water are being used for gardening after meeting required standard.</p> <p>Copy of the Sewage treated water reports have been attached as Annexure-04</p>
iv.	Total freshwater 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
v.	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	<p>Above ground level effluent collection and storage tanks have been provided to avoid ground contamination.</p> <p>Effluents are conveyed only in closed pipeline. Elaborate network of storm water drain is provided to convey storm water thus ensuring that it does not mix with effluent.</p>
vi.	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	<p>Rainwater collection system is provided at utility and quality block.</p> <p>The collected rainwater will be utilized</p>
vii.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	<p>Stack of adequate height is provided to DG sets, so that the emissions are in conformity with the extant regulations and the guidelines in consent also stack is affix with emission monitoring device.</p> <p>Copy of Stack reports are attached as Annexure-05.</p>
IV	Noise monitoring and prevention	
i.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Acoustic enclosures for the DG sets for controlling the noise pollution is provided.
ii.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	<p>Noise monitoring carried regularly to ensure the noise level within the limit for industrial operation.</p> <p>Copy of Noise monitoring reports have been attached (Annexure- 06)</p>
iii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during nighttime.	<p>The ambient noise levels are within the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during nighttime during the operation of the industry.</p> <p>Copy of Noise monitoring reports have been attached as Annexure- 06</p>
V.	Energy Conservation measures	
i.	The energy sources for lighting purposes shall preferably be LED based	<p>LED lights have been extensively installed across the site including street lights.</p> <p>Solar panels have been installed at strategic locations due to which 8% of the site energy requirements are met currently.</p>
VI.	Waste management	

i.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	The Hazardous chemicals are being stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided on tanks and Solvents transfer pumps.
ii.	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Agreed to the condition. All Landfilling waste been sent for Coprocessing.
iii.	The company shall undertake waste minimization measures as below: - <ul style="list-style-type: none"> a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation 	We have undertaken that waste minimization measures as below: - <ul style="list-style-type: none"> • All raw materials are being compulsorily metered. • We are exploring waste minimization at source. Reuse of by-products from the process is also being explored. • Use of automated filling to minimize spillage. • All liquid raw materials / solvents are pumped through closed loop system. • Venting equipment through vapor recovery system • Use of high-pressure hoses for equipment clearing to reduce wastewater generation
VII.	Green Belt	
i.	The green belt of 5-10 m width shall be developed in more than 33% of total project area, mainly along the plant periphery, in downward wind direction, and along roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied to the condition.
VIII.	Safety, Public hearing, and human health issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan have been implemented.
ii.	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.	Arrangement for protection of possible fire hazards during manufacturing process in material handling have been done. Firefighting system are installed as per the norms.
iii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Personal Protection Equipment (PPE) are being provided to employees and for contract workers based on the nature of work.
iv.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees will be undertaken on regular basis. Training are being provided to all the workmen regarding Chemical handling and Other operational trainings based on the nature of work.
v.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.	For the construction labors are hired from local village, which avoids to provide the housing facilities inside the premises. The facilities like safe drinking water, medical health care, rest rooms are provided inside the premises.

	The housing may be in the form of temporary structures to be removed after the completion of the project.	
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The Occupational health surveillance of the workers is carried out on a regular basis and records will be maintained as per the Factories Act.
vii.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	Adequate parking facility for four wheelers & two wheelers are being done within the premises for both the staff and for the visitors. Parking are being done within the site premises.
IX.	Corporate Environment Responsibility	
i.	The project authorities shall be under take activities Under Corporate Environment Responsibilities (CER) with a total cost of not less than Rs. 3.31 Crores in accordance with the O.M. F. No .22-65 /2017-IA.III dated 20 October 2020 and report to be submitted to the Authority as committed during SEAC meeting.	CER/CSR expenses are as per the Annexure – 07
ii.	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.	M/s. Syngene International Ltd. has a well laid down environmental policy duly approve by the Board of directors. Copy the same is enclosed as Annexure – 08.
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Syngene International Ltd has a dedicated Environment cell both at the site level and corporate level led by members of the Senior Leadership team.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Agreed to the condition.
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Environmental monitoring reports are being conducted on monthly basis and reports are submitted to regional Pollution control board.
X	Miscellaneous	
i.	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.	M/s. Syngene made public that, environmental clearance granted for the project along with the environmental conditions and safeguards at their cost by prominently advertising in Newspaper on 24 Apr 2021. Copy of Paper Advertisement is enclosed as Annexure – 10.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local	Agreed to the condition.

	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.	
iii.	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.	Agreed to the condition.
iv.	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 locations for disclosure to the public and put on the website of the company.	Noted and are being followed. Monitoring results are being displayed for general public.
v.	The project proponent shall submit six-monthly reports 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.	M/s Syngene International Ltd. has obtained environmental clearance on 26.03.2021 from SEIAA, Karnataka. Compliance report for the previous cycle submitted on 29 Nov 2022.
vi.	"The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into 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 rosz.bng-mefcc@gov.in Hard copy of HYCRs shall not be acceptable".	M/s. Syngene International Ltd. has obtained environmental clearance on 26.03.2021 from SEIAA, Karnataka. Half yearly compliance report has been emailed to rosz.bng-mefcc@gov.in.
vii.	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 will be followed. Industry has submitted the environmental statement for each financial year in Form-V On 29 Sep 2022.
viii.	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.	Date of Financial closure of project is not applicable as project is internally funded.
ix.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and complied.
x.	The project proponent shall abide by all the commitments and recommendations made in the EIA/ EMP report, commitment made during Public Hearing and that during their presentation to the Expert Appraisal Committee.	Noted and complied.
xi.	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 will be followed.
xii.	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.	Agreed to the condition
xiii.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to the condition

xiv.	The SEIAA reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed to the condition
xvii	The Regional Office of MoEF&CC shall monitor compliant of the stipulated conditions. The project authorities should extend full Cooperation to the officer (s) of the Regional Office by furnishing tit, requisite data/ information/monitoring reports.	Agreed to the condition
xxi	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.	Noted and Agreed to the condition
xxii	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 and Agreed to the condition

Thanking you,

Yours Faithfully

For M/s. Syngene International Ltd. Mangalore

Authorized Signatory

Copy to:

1. SEO KSPCB, 17 Category
2. REO KSPCB Mangalore

Enclosures:

Annexure- 01: Fugitive Emission Reports.

Annexure- 02: Ambient Air Quality Monitoring Reports

Annexure- 03: Stack Monitoring Reports for Boiler

Annexure- 04: STP treated water report.

Annexure-05: Stack Monitoring reports for DG

Annexure- 06: Ambient Noise Level Monitoring report.

Annexure-07: CER details

Annexure-08: Environment Health and Sustainability Policy

Annexure-09: EC compliance acknowledgement copy (Submitted on Dec 2022)

Annexure-10: Environment Clearance Newspaper published copy

Annexure-11: Copy of Environment Clearance (SEIAA 03 IND 2021)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.
Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.
Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	API 2 nd Floor- DCS Control Room
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/001/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	4.2	NIOSH - 0500	OSHAS -15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	1.9	NIOSH - 0600	OSHAS -5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS -50 ppm
4.	Carbon dioxide as CO ₂	ppm	467	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	52.5 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	31.0	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru - 574 142, India
Sample Description	Indoor Air Quality
Sample Mark	API Ground Floor-Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/002/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 - 203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	3.3	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	1.1	NIOSH - 0500	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	470	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	65.1 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	28.4	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report*****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	ETP Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/003/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	4.5	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	2.7	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	462	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	58.6 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	31.2	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report*****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	Utility-Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/004/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	3.9	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	2.1	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	464	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	47.6 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	30.5	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.
Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Balkampady, Mangalore, Karnataka - 575011.
Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	Admin Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/005/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	1.7	NIOSH - 0500	OSHAS -15 mg/m ³ WHO - 15 mg/ m ³
2.	Respirable Particulate matter	mg/m ³	0.7	NIOSH - 0600	OSHAS -5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS -50 ppm
4.	Carbon dioxide as CO ₂	ppm	465	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	54.8 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	29.6	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011), Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.
Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.
Ph: 0824 - 2408 111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	QC Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/006/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	1.2	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	0.8	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6504	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	476	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	54.9 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	26.3	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011), Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report*****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.
Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.
Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	QCM Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/007/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 - 203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	1.9	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	1.0	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	475	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	57.8 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	25.4	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011), Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	QA Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/008/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	1.4	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	0.8	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	484	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	56.3 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	24.9	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04-2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report*****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	Warehouse Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/009/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 -203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	3.9	NIOSH - 0500	OSHAS - 15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	2.4	NIOSH - 0600	OSHAS - 5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS - 50 ppm
4.	Carbon dioxide as CO ₂	ppm	482	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	64.3 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	25.6	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011), Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Indoor Air Quality
Sample Mark	Offsite ETP Office
Sample Drawn by	M/s. Hubert Enviro Care Systems (P) Ltd
Date of Sampling	22.04.2023
Date of Sample Receipt	22.04.2023
Analysis Commenced On	22.04.2023
Completed On	28.04.2023
Report No	HECS/IA/010/220423
Report Date	29.04.2023

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Handy Sampler	Envirotech Instruments Pvt. Ltd	APM 821	08.08.2022	08.08.2023
2.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000 - 203254	NA	NA
3.	Dew point apparatus	Lutron	HT-3015	15.12.2022	15.12.2023
4.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023

RESULTS

S.No.	Parameters	Units	Results Obtained	Test Method	* OSHA Standards
1.	Suspended Particulate Matter (Total Dust)	mg/m ³	7.6	NIOSH - 0500	OSHAS -15 mg/m ³ WHO - 15 mg/m ³
2.	Respirable Particulate matter	mg/m ³	3.5	NIOSH - 0600	OSHAS -5 mg/m ³
3.	Carbon Monoxide as CO	ppm	BDL (DL 0.1 ppm)	NIOSH - 6604	OSHAS -50 ppm
4.	Carbon dioxide as CO ₂	ppm	486	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
5.	Relative Humidity as RH	%	62.3 %	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified
6.	Temperature	°C	25.9	HECS/AIR/AMBIENT/SOP/021, 2013	Not Specified

Note:-BDL - Below Detection Limit, D.L- Detection Limit, mg/m³- milligrams per cubic meter, ppm - parts per million, WHO - World Health Organization;

OSHAS - Occupational Health and Safety Assessment Series;

* OSHA - Occupational Safety and Health Administration (3430-04 2011). Indoor Air Quality in Commercial and Institutional Buildings, U.S. Department of Labour.

*****End of Report *****

Authorized Signatory
(Dr K GANESAN - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near MSEZ Gate (West)
Sample Description	AAQ 1: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	13.04.2023 & 15.04.2023
Date of commencement of analysis	15.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No.	HECS/AA/001/150423
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No	Calibrated On	Due Date
1.	Respirable Dust Sampler	Envirotech Instruments	APM/460/ 2017-DTI-2016	15.04.2023	14.04.2024
2.	Fine Particulate Sampler	Envirotech Instruments	APM/550/432-DTI-2016	15.04.2023	14.04.2024
3.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000-203254	NA	NA
4.	Desiccator	Best lab	NA	NA	NA
5.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

Note: NA- Not Applicable

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Particulate Matter < 10 µm	µg/m ³	75.6	100 (24 hours)	60 (Annual)
2.	Particulate Matter < 2.5 µm	µg/m ³	50.4	60 (24 hours)	40 (Annual)
3.	Sulphur Dioxide	µg/m ³	17.8	80 (24 hours)	50 (Annual)
4.	Nitrogen Dioxide	µg/m ³	18.9	80 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m ³	0.3	4 (1 hours)	2 (8 hours)
6.	Lead	µg/m ³	BLQ (LOQ 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	µg/m ³	BLQ (LOQ 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	µg/m ³	BLQ (LOQ 5)	400 (24 hours)	100 (Annual)
9.	Benzene	µg/m ³	BLQ (LOQ 1)	5 (Annual)	5 (Annual)
10.	Benzo (α) pyrene	ng/m ³	BLQ (LOQ 1)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m ³	BLQ (LOQ 2)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m ³	BLQ (LOQ 10)	20 (Annual)	20 (Annual)
13.	VOCs	µg/m ³	BLQ (LOQ 0.05)	NS	NS

Test Methods Followed: PM₁₀: IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂: IS 5182 (Pt 6): 2005 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(a)P: IS: 5182 (Pt 12): 2004/ VOC: In house validated method followed by GC-MS (HECS/INS/SOP/073:2016).

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*** End of Report ***



Authorized Signatory
(Dr. K Ganesan - Laboratory and Quality Manager)

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after Invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene international Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near MSEZ Gate (West)
Sample Description	AAQ 1: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	13.04.2023 & 15.04.2023
Date of commencement of analysis	15.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No	HECS/AA/001/150423N
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	GC-MS-MS with Head Space Sampler	Agilent Technologies	GC 7890A, MS-MS 7000 Triple Code & HS 7697A	15.07.2022	14.07.2023
2.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
3.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023
4.	VOC Analyser	Ion Science	Tiger Phoccheck	10.01.2023	10.01.2024
5.	Ion Chromatograph	Metrohm	925 ECO IC	15.07.2022	14.07.2023

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	PAHs	µg/m ³	BLQ (LOQ 0.5)	NS	NS
2.	H ₂ S	ppm	BLQ (LOQ 0.05)	NS	NS
3.	V	µg/m ³	BLQ (LOQ 0.5)	NS	NS
4.	Hydrogen Bromide, HBr	µg/m ³	BLQ (LOQ 0.5)	NS	NS
5.	Hydrogen Fluoride, HF	µg/m ³	BLQ (LOQ 0.5)	NS	NS
6.	Hydrochloric Acid, HCL	µg/m ³	BLQ (LOQ 0.5)	NS	NS

Test Methods Followed: PAH: IS 5182 (Pt 12)/ VOC: In house validated method followed by GC MS (HECS/INS/SOP/073:2016)/ H₂S: IS 5182 (Pt 7) / V: USEPA method - Acid Digestion followed by ICP-MS analysis; HBr, HF and HCl: USEPA M-26.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not Specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near ETP (South)
Sample Description	AAQ 2: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	12.04.2023 & 13.04.2023
Date of commencement of analysis	13.04.2023
Date of completion of analysis	22.04.2023
Report Date	24.04.2023
Report No.	HECS/AA/003/130423
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No	Calibrated On	Due Date
1.	Respirable Dust Sampler	Envirotech Instruments	APM/460/ 2107-DTI-2016	15.04.2023	14.04.2024
2.	Fine Particulate Sampler	Envirotech Instruments	APM/550/421-DTH-2016	15.04.2023	14.04.2024
3.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000-203254	NA	NA
4.	Desiccator	Best lab	NA	NA	NA
5.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

Note: NA- Not Applicable

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Particulate Matter < 10 µm	µg/m ³	65.8	100 (24 hours)	60 (Annual)
2.	Particulate Matter < 2.5 µm	µg/m ³	47.5	60 (24 hours)	40 (Annual)
3.	Sulphur Dioxide	µg /m ³	17.6	80 (24 hours)	50 (Annual)
4.	Nitrogen Dioxide	µg/m ³	19.9	80 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m ³	0.2	4 (1 hours)	2 (8 hours)
6.	Lead	µg/m ³	BLQ (LOQ 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	µg/m ³	BLQ (LOQ 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	µg/m ³	BLQ (LOQ 5)	400 (24 hours)	100 (Annual)
9.	Benzene	µg/m ³	BLQ (LOQ 1)	5 (Annual)	5 (Annual)
10.	Benzo (α) pyrene	ng/m ³	BLQ (LOQ 1)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m ³	BLQ (LOQ 2)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m ³	BLQ (LOQ 10)	20 (Annual)	20 (Annual)
13.	VOCs	µg/m ³	BLQ (LOQ 0.05)	NS	NS

Test Methods Followed: PM₁₀: IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂: IS 5182 (Pt 6): 2006 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(a)P: IS: 5182 (Pt 12): 2004/ VOC: In house validated method followed by GC-MS (HECS/INS/SOP/073:2016).

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

****End of Report ****

Authorized Signatory
(Dr K Ganesan - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near ETP (South)
Sample Description	AAQ 2: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	12.04.2023 & 13.04.2023
Date of commencement of analysis	13.04.2023
Date of completion of analysis	22.04.2023
Report Date	24.04.2023
Report No	HECS/AA/003/130423N
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	GC-MS-MS with Head Space Sampler	Agilent Technologies	GC 7890A, MS-MS 7000 Triple Code & HS 7697A	15.07.2022	14.07.2023
2.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
3.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023
4.	VOC Analyser	Ion Science	Tiger Phoccheck	10.01.2023	10.01.2024
5.	Ion Chromatograph	Metrohm	925 ECO IC	15.07.2022	14.07.2023

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	PAHs	µg/m ³	BLQ (LOQ 0.5)	NS	NS
2.	H ₂ S	ppm	BLQ (LOQ 0.05)	NS	NS
3.	V	µg/m ³	BLQ (LOQ 0.5)	NS	NS
4.	Hydrogen Bromide, HBr	µg/m ³	BLQ (LOQ 0.5)	NS	NS
5.	Hydrogen Fluoride, HF	µg/m ³	BLQ (LOQ 0.5)	NS	NS
6.	Hydrochloric Acid, HCL	µg/m ³	BLQ (LOQ 0.5)	NS	NS

Test Methods Followed: PAH: IS 5182 (Pt 12)/ VOC: in house validated method followed by GC MS (HECS/INS/SOP/073:2016)/ H₂S: IS 5182 (Pt 7) / V: USEPA method - Acid Digestion followed by ICP-MS analysis; HBr, HF and HCl: USEPA M-26.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not Specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near Weighbridge (East)
Sample Description	AAQ 3: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	13.04.2023 & 15.04.2023
Date of commencement of analysis	15.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No.	HECS/AA/002/150423
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No	Calibrated On	Due Date
1.	Respirable Dust Sampler	Envirotech Instruments	APM/460/ 2098-DTH-2016	15.04.2023	14.04.2024
2.	Fine Particulate Sampler	Envirotech Instruments	APM/550/197-DTK-2013	15.04.2023	14.04.2024
3.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000-203254	NA	NA
4.	Desiccator	Best lab	NA	NA	NA
5.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

Note: NA- Not Applicable

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Particulate Matter < 10 µm	µg/m ³	67.4	100 (24 hours)	60 (Annual)
2.	Particulate Matter < 2.5 µm	µg/m ³	49.8	60 (24 hours)	40 (Annual)
3.	Sulphur Dioxide	µg/m ³	17.5	80 (24 hours)	50 (Annual)
4.	Nitrogen Dioxide	µg/m ³	19.3	80 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m ³	0.2	4 (1 hours)	2 (8 hours)
6.	Lead	µg/m ³	BLQ (LOQ 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	µg/m ³	BLQ (LOQ 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	µg/m ³	BLQ (LOQ 5)	400 (24 hours)	100 (Annual)
9.	Benzene	µg/m ³	BLQ (LOQ 1)	5 (Annual)	5 (Annual)
10.	Benzo (α) pyrene	ng/m ³	BLQ (LOQ 1)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m ³	BLQ (LOQ 2)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m ³	BLQ (LOQ 10)	20 (Annual)	20 (Annual)
13.	VOCs	µg/m ³	BLQ (LOQ 0.05)	NS	NS

Test Methods Followed: PM₁₀: IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂: IS 5182 (Pt 6): 2006 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(a)P: IS: 5182 (Pt 12): 2004/ VOC: In house validated method followed by GC-MS (HECS/INS/SOP/073:2016).

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

****End of Report ****

Authorized Signatory
(Dr K Ganesan - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Balkampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near Weighbridge (East)
Sample Description	AAQ 3: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	13.04.2023 & 15.04.2023
Date of commencement of analysis	15.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No	HECS/AA/002/150423N
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	GC-MS-MS with Head Space Sampler	Agilent Technologies	GC 7890A, MS-MS 7000 Triple Code & HS 7697A	15.07.2022	14.07.2023
2.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
3.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023
4.	VOC Analyser	Ion Science	Tiger Phoccheck	10.01.2023	10.01.2024
5.	Ion Chromatograph	Metrohm	925 ECO IC	15.07.2022	14.07.2023

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	PAHs	µg/m ³	BLQ (LOQ 0.5)	NS	NS
2.	H ₂ S	ppm	BLQ (LOQ 0.05)	NS	NS
3.	V	µg/m ³	BLQ (LOQ 0.5)	NS	NS
4.	Hydrogen Bromide, HBr	µg/m ³	BLQ (LOQ 0.5)	NS	NS
5.	Hydrogen Fluoride, HF	µg/m ³	BLQ (LOQ 0.5)	NS	NS
6.	Hydrochloric Acid, HCL	µg/m ³	BLQ (LOQ 0.5)	NS	NS

Test Methods Followed: PAH: IS 5182 (Pt 12)/ VOC: In house validated method followed by GC MS (HECS/INS/SOP/073:2016)/ H₂S: IS 5182 (Pt 7) / V: USEPA method - Acid Digestion followed by ICP-MS analysis; HBr, HF and HCl: USEPA M-26.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not Specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Main Gate Car Parking Area (North)
Sample Description	AAQ 4: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	12.04.2023 & 13.04.2023
Date of commencement of analysis	13.04.2023
Date of completion of analysis	22.04.2023
Report Date	24.04.2023
Report No	HECS/AA/004/130423
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No	Calibrated On	Due Date
1.	Respirable Dust Sampler	Envirotech Instruments	APM/460/2095-DTH-2016	15.04.2023	14.04.2024
2.	Fine Particulate Sampler	Envirotech Instruments	APM/550/877-DTK-2019	15.04.2023	14.04.2024
3.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000-203254	NA	NA
4.	Desiccator	Best lab	NA	NA	NA
5.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

Note: NA- Not Applicable

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Particulate Matter < 10 µm	µg/m ³	72.3	100 (24 hours)	60 (Annual)
2.	Particulate Matter < 2.5 µm	µg/m ³	47.8	60 (24 hours)	40 (Annual)
3.	Sulphur Dioxide	µg /m ³	17.6	80 (24 hours)	50 (Annual)
4.	Nitrogen Dioxide	µg/m ³	19.8	80 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m ³	0.3	4 (1 hours)	2 (8 hours)
6.	Lead	µg/m ³	BLQ (LOQ 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	µg/m ³	BLQ (LOQ 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	µg/m ³	BLQ (LOQ 5)	400 (24 hours)	100 (Annual)
9.	Benzene	µg/m ³	BLQ (LOQ 1)	5 (Annual)	5 (Annual)
10.	Benzo (α) pyrene	ng/m ³	BLQ (LOQ 1)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m ³	BLQ (LOQ 2)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m ³	BLQ (LOQ 10)	20 (Annual)	20 (Annual)
13.	VOCs	µg/m ³	BLQ (LOQ 0.05)	NS	NS

Test Methods Followed: PM₁₀: IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂: IS 5182 (Pt 6): 2006 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(α)P: IS: 5182 (Pt 12): 2004/ VOC: In house validated method followed by GC-MS (HECS/INS/SOP/073:2016).

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Main Gate Car Parking Area (North)
Sample Description	AAQ 4: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	12.04.2023 & 13.04.2023
Date of commencement of analysis	13.04.2023
Date of completion of analysis	22.04.2023
Report Date	24.04.2023
Report No	HECS/AA/004/130423N
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	GC-MS-MS with Head Space Sampler	Agilent Technologies	GC 7890A, MS-MS 7000 Triple Code & HS 7697A	15.07.2022	14.07.2023
2.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
3.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023
4.	VOC Analyser	Ion Science	Tiger Phoccheck	10.01.2023	10.01.2024
5.	Ion Chromatograph	Metrohm	925 ECO IC	15.07.2022	14.07.2023

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	PAHs	µg/m ³	BLQ (LOQ 0.5)	NS	NS
2.	H ₂ S	ppm	BLQ (LOQ 0.05)	NS	NS
3.	V	µg/m ³	BLQ (LOQ 0.5)	NS	NS
4.	Hydrogen Bromide, HBr	µg/m ³	BLQ (LOQ 0.5)	NS	NS
5.	Hydrogen Fluoride, HF	µg/m ³	BLQ (LOQ 0.5)	NS	NS
6.	Hydrochloric Acid, HCL	µg/m ³	BLQ (LOQ 0.5)	NS	NS

Test Methods Followed: PAH: IS 5182 (Pt 12)/ VOC: In house validated method followed by GC MS (HECS/INS/SOP/073:2016)/ H₂S: IS 5182 (Pt 7) / V: USEPA method - Acid Digestion followed by ICP-MS analysis; HBr, HF and HCl: USEPA M-26.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not Specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report*****

(Dr K Ganesan – Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near Utility Building (Off site)
Sample Description	AAQ 5: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	15.04.2023 & 17.04.2023
Date of commencement of analysis	17.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No	HECS/AA/005/170423
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No	Calibrated On	Due Date
1.	Respirable Dust Sampler	Envirotech Instruments	APM/460/2003-DTD-2011	15.04.2023	14.04.2024
2.	Fine Particulate Sampler	Envirotech Instruments	APM/550/138-DTL-2012	15.04.2023	14.04.2024
3.	MS Glass Micro Fiber Filter	Micro Separations	MGF/2000-203254	NA	NA
4.	Desiccator	Best lab	NA	NA	NA
5.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

Note: NA- Not Applicable

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Particulate Matter < 10 µm	µg/m ³	85.6	100 (24 hours)	60 (Annual)
2.	Particulate Matter < 2.5 µm	µg/m ³	56.7	60 (24 hours)	40 (Annual)
3.	Sulphur Dioxide	µg/m ³	19.2	80 (24 hours)	50 (Annual)
4.	Nitrogen Dioxide	µg/m ³	21.3	80 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m ³	0.4	4 (1 hours)	2 (8 hours)
6.	Lead	µg/m ³	BLQ(LOQ 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	µg/m ³	BLQ(LOQ 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	µg/m ³	BLQ(LOQ 5)	400 (24 hours)	100 (Annual)
9.	Benzene	µg/m ³	BLQ(LOQ 1)	5 (Annual)	5 (Annual)
10.	Benzo (α) pyrene	ng/m ³	BLQ(LOQ 1)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m ³	BLQ(LOQ 2)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m ³	BLQ(LOQ 10)	20 (Annual)	20 (Annual)
13.	VOCs	µg/m ³	BLQ(LOQ 0.05)	NS	NS

Test Methods Followed: PM₁₀ IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂ IS 5182 (Pt 6): 2006 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(a)P: IS: 5182 (Pt 12): 2004/ VOC: In house validated method followed by GC-MS (HECS/INS/SOP/073:2016).

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Sampling Location	Near Utility Building (Off site)
Sample Description	AAQ 5: Ambient Air Quality Monitoring - (8 hrs/3 samples = 24 hrs/1 day)
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of sampling & Receipt	15.04.2023 & 17.04.2023
Date of commencement of analysis	17.04.2023
Date of completion of analysis	24.04.2023
Report Date	25.04.2023
Report No	HECS/AA/005/170423N
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	GC-MS-MS with Head Space Sampler	Agilent Technologies	GC 7890A, MS-MS 7000 Triple Code & HS 7697A	15.07.2022	14.07.2023
2.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
3.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023
4.	VOC Analyser	Ion Science	Tiger Phoccheck	10.01.2023	10.01.2024
5.	Ion Chromatograph	Metrohm	925 ECO IC	15.07.2022	14.07.2023

RESULTS

S.No.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	PAHs	µg/m ³	BLQ (LOQ 0.5)	NS	NS
2.	H ₂ S	ppm	BLQ (LOQ 0.05)	NS	NS
3.	V	µg/m ³	BLQ (LOQ 0.5)	NS	NS
4.	Hydrogen Bromide, HBr	µg/m ³	BLQ (LOQ 0.5)	NS	NS
5.	Hydrogen Fluoride, HF	µg/m ³	BLQ (LOQ 0.5)	NS	NS
6.	Hydrochloric Acid, HCL	µg/m ³	BLQ (LOQ 0.5)	NS	NS

Test Methods Followed: PAH: IS 5182 (Pt 12)/ VOC: In house validated method followed by GC MS (HECS/INS/SOP/073:2016)/ H₂S: IS 5182 (Pt 7) / V: USEPA method - Acid Digestion followed by ICP-MS analysis; HBr, HF and HCl: USEPA M-26.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; µg/m³ - microgram per cubic meter; ppm-parts per million; NS - Not Specified.

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

***** End of Report *****

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Name of the Customer	M/s. Syngene International Ltd.,
Address of the Customer	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Stack ID	Boiler Stack 2.5 TPH
Sample Description	Manual Stack Emission Monitoring
Sampling / Received Date	18.04.2023
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	18.04.2023
Completed On	22.04.2023
Report Date	23.04.2023
Report No.	HECS/002/180423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Stack Sample-1 VSS1	Envirotech Instruments	79 DTJ 2017	15.07.2022	15.07.2023
2.	Dry Gas Meter	Envirotech Instruments	2321877 VSS1	15.07.2022	15.07.2023
3.	Pitot tube	Envirotech Instruments	S Type EA-92	15.07.2022	15.07.2023
4.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
5.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

RESULTS

General Details	
Ambient temperature	35 °C
Flue Gas Temperature	131 °C
Fuel Source	Liquefied Petroleum Gas (LPG)
Stack Height	31.5 meters
Diameter	0.825 meter
Discharge Rate	6336.56 Nm ³ /hr
Velocity	4.7 m/s

Parameter monitored	Results obtained	Test Method Followed	KSPCB Standard
PM	12.54 mg/Nm ³	IS 11255: (Part 1): 1985	75 mg/Nm ³
SO ₂	BLQ (LOQ 4 mg/Nm ³)	IS 11255: (Part 2): 1985	100 mg/Nm ³
NO _x	6.8 mg/Nm ³	IS 11255: (Part 7): 2005	710 mg/Nm ³
CO ₂	10.86 %	IS 13270: 1992	NS
CO	BLQ (LOQ 0.4 mg/Nm ³)	IS 13270: 1992	150 mg/Nm ³
O ₂	10.13 %	IS 13270: 1992	NS
NMHC	BLQ (LOQ 0.4 mg/Nm ³)	USEPA method 25	100 mg/Nm ³

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; % - Percentage; NMHC- Non-methane Hydro Carbons; NS – Not Specified;

KSPCB- Karnataka State Pollution Control Board

INFERENCE	AS PER KSPCB STANDARDS, THE ANALYSED PARAMETERS ARE WITHIN THE PRSCRIBED LIMITS
-----------	---

** End of Report**

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Name of the Customer	M/s. Syngene International Ltd.,
Address of the Customer	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Stack ID	Boiler Stack 5.0 TPH (Offsite)
Sample Description	Manual Stack Emission Monitoring
Sampling / Received Date	15.04.2023
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	15.04.2023
Completed On	20.04.2023
Report Date	21.04.2023
Report No.	HECS/003/150423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Stack Sample-1 VSS1	Envirotech Instruments	79 DTJ 2017	15.07.2022	15.07.2023
2.	Dry Gas Meter	Envirotech Instruments	2321877 VSS1	15.07.2022	15.07.2023
3.	Pitot tube	Envirotech Instruments	S Type EA-92	15.07.2022	15.07.2023
4.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
5.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

RESULTS

General Details	
Ambient temperature	36 °C
Flue Gas Temperature	108 °C
Fuel Source	Light Diesel Oil (LDO)
Stack Height	31.5 meters
Diameter	0.825 meter
Discharge Rate	8148.28 Nm ³ /hr
Velocity	5.2 m/s

Parameter monitored	Results obtained	Test Method Followed	KSPCB Standard
PM	39.5 mg/Nm ³	IS 11255: (Part 1): 1985	75 mg/Nm ³
SO ₂	42.6 mg/Nm ³	IS 11255: (Part 2) : 1985	100 mg/Nm ³
NO _x	51.6 mg/Nm ³	IS 11255: (Part 7) :2005	710 mg/Nm ³
CO ₂	11.39 %	IS 13270: 1992	NS
CO	35.6 mg/Nm ³	IS 13270: 1992	150 mg/Nm ³
O ₂	9.6 %	IS 13270: 1992	NS
NMHC	13.2 mg/Nm ³	USEPA method 25	100 mg/Nm ³

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; mg/Nm³: milligram per normal cubic meter;

PM: Particulate Matter; ppm: Parts per Million; % - Percentage; NMHC- Non-methane Hydro Carbons; NS - Not Specified;

KSPCB- Karnataka State Pollution Control Board

INFERENCE	AS PER KSPCB STANDARDS, THE ANALYSED PARAMETERS ARE WITHIN THE PRESCRIBED LIMITS
-----------	--

** End of Report**

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Name of the Customer	M/s. Syngene International Ltd.,
Address of the Customer	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Treated Sewage Water
Sample collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of Sampling	12.04.2023
Qty. of sample received	2 L in HDPE Can + 100 sterile container
Date of sample received	12.04.2023
Date of Analysis start & completion	12.04.2023&20.04.2023
Report Date	21.04.2023
Report No.	HECS/WW/005/120423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
2.	Pipette-F2-100-1000 µL	Thermo Fischer Scientific	2018	11.10.2022	11.10.2023
3.	Pipette-F2-0.5-5mL	Thermo Fischer Scientific	2018	11.10.2022	11.10.2023
4.	BOD Incubator	Manish Enterprises	Manish 51	21.08.2022	21.08.2023
5.	Hot Air Oven	Acesco	2012	21.08.2022	21.08.2023
6.	Water Bath	Rotek	2012	21.08.2022	21.08.2023
7.	COD Digester	Kjeltron	2018	21.08.2022	21.08.2023
8.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023
9.	Digital pH meter	El Deep Vision - 101	2018	Internal calibration with NIST certified CRM	
10.	ICP-MS	Agilent Technologies	7700x	15.07.2022	14.07.2023

RESULTS

Sl.No.	Parameters monitored	Test method followed	Units	Results	KSPCB Standard
1.	pH at 25°C	4500 H ⁺ B APHA 23 rd Edn: 2017	-	6.74	6.5-9.0
2.	BOD, 3 days at 27°C as O ₂	IS3025 (Part 44): 1993	mg/L	7.6	≤ 10
3.	Chemical Oxygen Demand	IS 3025 (Part 58): 2006	mg/L	36	≤ 50
4.	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	mg/L	230	≤ 2100
5.	Total Suspended Solids (TSS)	IS 3025 (Part 17): 1984	mg/L	19.3	≤ 20
6.	Oil and Grease	IS 3025 (Part 39):1991	mg/L	2.3	≤ 10
7.	Ammonical Nitrogen	IS 3025: (Part 34): 1988	mg/L	2.8	≤ 5

Note: mg/L - Milligrams per Litre; KSPCB- Karnataka State Pollution Control Board

INFERENCE AS PER KSPCB STANDARD, THE ANALYZED PARAMETERS ARE WITHIN THE PRESCRIBED LIMIT

End of Report

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)



Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page 1 of 1

Name of the Customer	M/s. Syngene International Ltd.,
Address of the Customer	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Sample Description	Treated Sewage Water
Sample collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Date of Sampling	12.04.2023
Qty. of sample received	2 L in HDPE Can + 100 sterile container
Date of sample received	12.04.2023
Date of Analysis start & completion	12.04.2023 & 20.04.2023
Report Date	21.04.2023
Report No.	HECS/WW/005/120423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
2.	Pipette-F2-100-1000 µL	Thermo Fischer Scientific	2018	11.10.2022	11.10.2023
3.	Pipette-F2-0.5-5mL	Thermo Fischer Scientific	2018	11.10.2022	11.10.2023
4.	BOD Incubator	Manish Enterprises	Manish 51	21.08.2022	21.08.2023
5.	Hot Air Oven	Acesco	2012	21.08.2022	21.08.2023
6.	Water Bath	Rotek	2012	21.08.2022	21.08.2023
7.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

RESULTS

Sl.No.	Parameters monitored	Test method followed	Units	Results	KSPCB Standard
1.	Total Nitrogen	IS 3025: (Part 34): 1988	mg/L	7.4	≤ 10
2.	Faecal Coliforms	IS1622:1981	MPN/100 mL	Absent (DL < 2)	Shall not be detectable

Note: mg/L - Milligrams per Liter; MPN - Most Probable Number; DL - Detection Limit; Less than 2 considered as absent;

KSPCB- Karnataka State Pollution Control Board

INFERENCE	AS PER KSPCB STANDARD, THE ANALYZED PARAMETERS ARE WITHIN THE PRESCRIBED LIMIT
-----------	--

End of Report

Authorized Signatory
(Dr K Ganesan - Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after Invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Name of the Customer	M/s. Syngene International Ltd.,
Address of the Customer	Kalavar P.O. via Bajpe, Mangaluru-574 142, Karnataka, India
Stack ID	DG 2000 kVA
Sample Description	Manual Stack Emission Monitoring
Sampling / Received Date	13.04.2023
Sample Collected by	M/s. Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	13.04.2023
Completed On	18.04.2023
Report Date	19.04.2023
Report No.	HECS/001/130423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S. No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Stack Sample-1 VSS1	Envirotech Instruments	79 DTJ 2017	15.07.2022	15.07.2023
2.	Dry Gas Meter	Envirotech Instruments	2321877 VSS1	15.07.2022	15.07.2023
3.	Pitot tube	Envirotech Instruments	S Type EA-92	15.07.2022	15.07.2023
4.	Electronic Weighing Balance	Shimadzu	AUW220D	22.08.2022	22.08.2023
5.	Flue Gas Analyzer	VINTECH EFM 2000	18L15	30.09.2022	30.09.2023
6.	UV VIS Spectrophotometer	King Lab	KLUV-1110	10.10.2022	10.10.2023

RESULTS

General Details	
Ambient temperature	35 °C
Flue Gas Temperature	139 °C
Fuel Source	Diesel
Stack Height	30.0 meters
Diameter	0.35 meter
Discharge Rate	1281.69 Nm ³ /hr
Velocity	5.4 m/s

Parameter monitored	Results obtained	Test Method Followed	KSPCB Standard
PM	52.6 mg/Nm ³	IS 11255: (Part 1): 1985	75 mg/Nm ³
SO ₂	44.7 mg/Nm ³	IS 11255: (Part 2) : 1985	100 mg/Nm ³
NO _x	191.6 mg/Nm ³	IS 11255: (Part 7) :2005	710 mg/Nm ³
CO ₂	10.86 %	IS 13270: 1992	NS
CO	36.5 mg/Nm ³	IS 13270: 1992	150 mg/Nm ³
O ₂	10.13 %	IS 13270: 1992	NS
NMHC	13.8 mg/Nm ³	USEPA method 25	100 mg/Nm ³

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; % - Percentage; NMHC- Non-methane Hydro Carbons; NS - Not Specified;

KSPCB- Karnataka State Pollution Control Board

INFERENCE	AS PER KSPCB STANDARDS, THE ANALYSED PARAMETERS ARE WITHIN THE PRSCRIBED LIMITS
-----------	---

** End of Report**

Authorized Signatory
(Dr K Ganesan – Laboratory and Quality Manager)

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Hubert Enviro Care Systems (P) Ltd.

H.O.: # 18, 92nd Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax : 42985500 E-mail : labsales@hecs.in

C-45, Industrial Estate, Baikampady, Mangalore, Karnataka - 575011.

Ph: 0824 - 2408111, Email: kro@hecs.in, Website: www.hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Customer	M/s. Syngene International Ltd.,
Project Site/ Address	Kalavar P.O. via Bajpe, Mangaluru-574 142, India
Monitoring Description	Ambient Noise Level
Data Collected by	M/s. Hubert Enviro Care Systems Pvt Ltd.,
Monitoring Date	18.04.2023
Report Date	19.04.2023
	HECS/NM/001-004/180423

CALIBRATION STATUS OF EQUIPMENT USED FOR SAMPLING AND TESTING

S.No.	Equipment	Make	Model No.	Calibrated On	Due Date
1.	Sound Level Meter	HTC	SL 1350	11.07.2022	10.07.2023

RESULTS

Time (Hrs)	Near ETP (South)	Near MSEZ Gate (West)	Near Weighbridge (East)	Main Gate Parking Area (North)
06.00	54.8	56.2	55.1	60.4
07.00	55.8	57.4	56.2	61.2
08.00	56.6	58.5	57.6	62.7
09.00	57.7	60.2	58.4	63.5
10.00	57.5	61.6	59.5	64.9
11.00	58.8	62.7	60.3	65.8
12.00	59.3	63.8	61.4	66.3
13.00	60.5	64.5	62.8	67.8
14.00	61.1	65.4	63.6	68.7
15.00	62.3	67.2	64.7	69.9
16.00	63.5	68.6	65.9	70.5
17.00	64.6	69.2	66.1	71.9
18.00	65.8	68.5	67.5	70.2
19.00	63.9	67.3	66.2	69.4
20.00	62.5	66.1	65.3	68.6
21.00	61.4	65.2	64.8	67.5
22.00	60.2	64.3	63.2	66.3
23.00	59.4	63.8	62.4	65.7
00.00	58.5	61.4	61.4	64.6
01.00	56.3	60.5	60.8	63.5
02.00	55.5	59.7	59.6	62.7
03.00	54.4	58.8	57.2	60.4
04.00	53.3	57.4	55.2	59.8
05.00	52.7	56.6	54.8	57.4
MIN	52.7	56.2	54.8	57.4
MAX	65.8	69.2	67.5	71.9
Day dB (A)	60.4	63.9	62.3	66.8
Night dB (A)	55.7	59.7	58.8	62.0

Limits: Industrial Area: Day Time-75 dB (A), Night Time-70 dB (A). Commercial Area: Day Time-65 dB (A), Night Time-55 dB (A). Residential Area: Day Time-55 dB (A), Night Time-45 dB (A). Silence Zone: Day Time-50 dB (A), Night Time-40 dB (A).

Note: Monitoring Date represents 24 hours from 6:00 am to 6:00am next day. Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level. Reference: The Noise Pollution (Regulation and Control) Rules, 2000, CPCB, New Delhi.

Authorized Signatory

(Dr K Ganesan – Laboratory and Quality Manager)



1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization. 2. Samples are not drawn by HECS unless or otherwise mentioned. 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after Invoicing or Issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

Annexure - 1

Syngene

CSR/CER-Syngene International Mangalore SEZ

Details of the CSR/CER projects for the year FY 2021-22:

SL. No.	Name of the Project	Village/ Panchayat	CSR/CER category	Cost Estimation (In Lakhs)
1	Miyawaki-Urban Forest	Mangalore City	'Plantation / Avenue Plantation'	30
2	Computer Lab -Maravoor higher primary school	Maravoor	Education Infrastructure	2
3	Model Anganavadi	Maravoor	Education Infrastructure	25
Total				57

Details of the CSR/CER projects projected for year FY 2022-23

SL. No.	Name of the Project	Village/ Panchayat	CSR/CER Category	Cost Estimation (In Lakhs)
1	Children's Park	Bajpe Panchayat	Community Development	8
2	Street Solar Lights	Kalavar/ Bala	Community Development	4.5
3	Science Lab - Equipment's/ Instruments	Bantwal Taluk	Education	1.5
4	Construction of Classroom	Bajpe	Education Infrastructure	7
5	Construction of Classroom	Karambar, Bajpe	Education Infrastructure	7
Total				28

Rajesh



ENVIRONMENT, OCCUPATIONAL HEALTH, SAFETY & SUSTAINABILITY POLICY

The Biocon Group, an integrated Biopharmaceutical enterprise, is committed to high standards and continual improvement in the areas of Environment, Occupational Health, Safety and Sustainability (EHSS).

We shall strive to achieve this by :

- Complying with all applicable laws, regulations, legal requirements and other requirements in all countries in which the company operates.
- Ensuring protection of environment and prevention of pollution at all levels of operations.
- Providing safe and healthy working environment for our employees, contract workmen, visitors and other stakeholders by eliminating hazards and reducing occupational health and safety risks to prevent work-related injury and ill-health.
- Empowering employees and contract workmen through training programs that are focused on operational safety, occupational health and environmental protection.
- Ensuring a sustainable value chain by building a network of responsible business partners committed to environmental stewardship across the product life cycle starting from sourcing of raw materials to manufacturing and distribution of our products.
- Adopting energy conservation, reduction of waste through recovery, recycle and reuse, mitigation of climate change risks and threats to biodiversity in all process operations thereby integrating sustainability into our business operations.
- Providing the framework and resources for setting, reviewing and achieving Environment, Health, Safety and Sustainability objectives & targets. Continually evaluating and improving Environment, Health, Safety and Sustainability performance through compliance, periodic audits and effective documentation.
- Adopting best practices in Environment, Health, Safety and Sustainability through continual improvements in EHSS management system that pursues the latest developments in this area.
- Using effective communication, consultation and participation of employees and contract workmen to maintain highest standards of Environment, Health, Safety and Sustainability.

The Biocon Group management is committed towards implementation of the EHSS policy. This policy is applicable to all businesses, employees and contract workmen of all entities of the Biocon Group.



Kiran Mazumdar Shaw
Chairperson & Managing Director

Date: 21-08-2019

V:07

ಪರಿಸರ, ಔದ್ಯೋಗಿಕ ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರ ನೀತಿ

ಬಯೋಕಾನ್ ಗ್ರೂಪ್ ಒಂದು ಕ್ರೋಢೀಕೃತ ಬಯೋಫಾರ್ಮಾಸುಟಿಕಲ್ ಸಂಸ್ಥೆಯಾಗಿದ್ದು, ಪರಿಸರ, ಔದ್ಯೋಗಿಕ ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರ ನೀತಿ (ಇವಿಚ್‌ಎಸ್‌ಎಸ್) ವಲಯದಲ್ಲಿ ಉನ್ನತ ಗುಣಮಟ್ಟದ ಮತ್ತು ನಿರಂತರ ಸುಧಾರಣೆಗೆ ಬದ್ಧವಾಗಿದೆ.

ಈ ಮೂಲಕ ನಾವು ಈ ಸಾಧನೆಗಳನ್ನು ಮಾಡಲು ಯತ್ನಿಸುತ್ತಿದ್ದೇವೆ,

- ಕಂಪನಿ ಕಾರ್ಯನಿರ್ವಹಣೆ ಮಾಡುವ ಎಲ್ಲ ದೇಶಗಳಲ್ಲಿ ಎಲ್ಲ ಅನ್ವಯಿಕ ಕಾನೂನುಗಳು, ನಿಯಮಾವಳಿಗಳು, ಕಾನೂನು ಅಗತ್ಯಗಳು ಮತ್ತು ಇತರ ಅಗತ್ಯಗಳಿಗೆ ಬದ್ಧವಾಗುವುದು.
- ಕಾರ್ಯನಿರ್ವಹಣೆಯ ಎಲ್ಲ ಹಂತಗಳಲ್ಲಿ ಪರಿಸರ ರಕ್ಷಣೆ ಮತ್ತು ಮಾಲಿನ್ಯ ತಡೆಯನ್ನು ವಿಚಿತಪಡಿಸುವುದು.
- ಅಪಾಯಗಳನ್ನು ನಿರ್ಮೂಲಗೊಳಿಸಿ ಮತ್ತು ಔದ್ಯೋಗಿಕ ಆರೋಗ್ಯ ಮತ್ತು ಸುರಕ್ಷತಾ ರಿಸ್ಕ್ ಕಡಿಮೆ ಮಾಡಿ ಕೆಲಸ ಸಂಬಂಧಿ ಗಾಯ ಮತ್ತು ಅನಾರೋಗ್ಯವನ್ನು ತಡೆಯುವ ಮೂಲಕ ನಮ್ಮ ಉದ್ಯೋಗಿಗಳು, ಒಪ್ಪಂದದ ಕೆಲಸಗಾರರು, ಸಂದರ್ಶಕರು ಮತ್ತು ಇತರ ಪಾಲುದಾರರಿಗೆ ಸುರಕ್ಷಿತ ಮತ್ತು ಆರೋಗ್ಯಕರ ಕೆಲಸದ ಪರಿಸರವನ್ನು ಒದಗಿಸುವುದು.
- ಕಾರ್ಯನಿರ್ವಹಣೆ ಸುರಕ್ಷತೆ, ಔದ್ಯೋಗಿಕ ಆರೋಗ್ಯ ಮತ್ತು ಪರಿಸರ ರಕ್ಷಣೆಯ ಮೇಲೆ ಗಮನ ಕೇಂದ್ರೀಕರಿಸಿದ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮಗಳ ಮೂಲಕ ಉದ್ಯೋಗಿಗಳು ಮತ್ತು ಒಪ್ಪಂದದ ಕೆಲಸಗಾರರನ್ನು ಸಜ್ಜುಗೊಳಿಸುವುದು.
- ಕಚ್ಚಾ ಸಾಮಗ್ರಿಗಳ ಖರೀದಿಯಿಂದ ಆರಂಭಿಸಿ ನಮ್ಮ ಉತ್ಪನ್ನಗಳ ಉತ್ಪಾದನೆ ಮತ್ತು ವಿತರಣೆಯ ಎಲ್ಲ ಉತ್ಪನ್ನ ಜೀವಿತಾವಧಿಯಲ್ಲಿ ಪರಿಸರ ರಕ್ಷಣೆಗೆ ಬದ್ಧವಾದ ಜವಾಬ್ದಾರಿಯುತ ವಹಿವಾಟು ಪಾಲುದಾರರ ಜಾಲವನ್ನು ನಿರ್ಮಿಸುವ ಮೂಲಕ ಸುಸ್ಥಿರವಾಗಿ ವ್ಯಾಲೂ ಚೈನ್ ಅನ್ನು ನಿರ್ಮಿಸಲು ಬದ್ಧವಾಗಿರುವುದು.
- ಇಂಧನ ಸಂರಕ್ಷಣೆ, ರಿಕವರಿ, ರಿಸೈಕಲ್ ಮತ್ತು ಮರುಬಳಕೆ ಮೂಲಕ ತ್ಯಾಜ್ಯವನ್ನು ಕಡಿಮೆ ಮಾಡುವುದು, ಹವಾಮಾನ ವೈಪರೀತ್ಯದ ರಿಸ್ಕ್‌ಗಳನ್ನು ನಿವಾರಿಸುವುದು ಮತ್ತು ಎಲ್ಲ ಪ್ರಕ್ರಿಯೆ ಕಾರ್ಯನಿರ್ವಹಣೆಗಳಲ್ಲಿ ಜೈವಿಕ ವೈವಿಧ್ಯಕ್ಕೆ ಇರುವ ರಿಸ್ಕ್‌ಗಳನ್ನು ನಿವಾರಿಸಿ ನಮ್ಮ ವಹಿವಾಟು ಕಾರ್ಯನಿರ್ವಹಣೆಯಲ್ಲಿ ಸುಸ್ಥಿರತೆಯನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು.
- ಪರಿಸರ, ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರ ಉದ್ದೇಶಗಳು ಮತ್ತು ಗುರಿಗಳನ್ನು ಸಾಧಿಸಲು, ನಿಗದಿಸಲು ಮತ್ತು ಮರುಪರಿಶೀಲಿಸಲು ರೂಪುರೇಷೆ ಮತ್ತು ಸಂಪನ್ಮೂಲಗಳನ್ನು ಒದಗಿಸುವುದು. ಬದ್ಧತೆ, ಸಕಾಲಿಕ ಆಡಿಟ್ ಮತ್ತು ಪರಿಣಾಮಕಾರಿ ದಾಖಲೆಗಳ ಮೂಲಕ ಪರಿಸರ, ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರತೆಯನ್ನು ನಿರಂತರವಾಗಿ ಮೌಲೀಕರಿಸುವುದು ಮತ್ತು ಸುಧಾರಿಸುವುದು.
- ಪರಿಸರ, ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರತೆ ವಲಯದಲ್ಲಿ ಇತ್ತೀಚಿನ ಬೆಳವಣಿಗೆಗಳನ್ನು ಅಧ್ಯಯನ ನಡೆಸುವ ಇವಿಚ್‌ಎಸ್‌ಎಸ್ ಆಡಳಿತ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ ನಿರಂತರ ಸುಧಾರಣೆಯ ಮೂಲಕ ಈ ಪ್ರದೇಶದಲ್ಲಿನ ಉತ್ತಮ ಅಭ್ಯಾಸಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು.
- ಉನ್ನತ ಗುಣಮಟ್ಟದ ಪರಿಸರ, ಆರೋಗ್ಯ, ಸುರಕ್ಷತೆ ಮತ್ತು ಸುಸ್ಥಿರತೆಯನ್ನು ನಿರ್ವಹಿಸಲು ಉದ್ಯೋಗಿಗಳು ಮತ್ತು ಒಪ್ಪಂದದ ಕೆಲಸಗಾರರೊಂದಿಗೆ ಪರಿಣಾಮಕಾರಿ ಸಂವಹನ, ಸಲಹೆ ಮತ್ತು ತೊಡಗಿಸಿಕೊಳ್ಳುವಿಕೆಯನ್ನು ಬಳಸುವುದು.

ಇವಿಚ್‌ಎಸ್‌ಎಸ್ ನೀತಿಯ ಅನುಷ್ಠಾನಕ್ಕೆ ಬಯೋಕಾನ್ ಗ್ರೂಪ್ ಆಡಳಿತವು ಬದ್ಧವಾಗಿದೆ. ಈ ನೀತಿಯು ಬಯೋಕಾನ್ ಗ್ರೂಪ್ ಎಲ್ಲ ಸಂಸ್ಥೆಗಳ ಎಲ್ಲ ವಹಿವಾಟುಗಳು, ಉದ್ಯೋಗಿಗಳು ಮತ್ತು ಒಪ್ಪಂದದ ಕೆಲಸಗಾರರಿಗೆ ಅನ್ವಯಿಸುತ್ತದೆ.



ಕಿರಣ್ ಮಜುಂದಾರ್ ಪಾ
ಚೀಫ್‌ಆಫೀಸ್ ಮತ್ತು ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು

ದಿನಾಂಕ: 21-08-2019
ಆವೃತ್ತಿ: V:07

ತುರ್ತು ಸಂಪರ್ಕ ಸಂಖ್ಯೆ. 2000

EHSS/SYN/MOEF&CC/2022-23/001
Date: 29 Nov 2022

Syngene

To,

Regional Director (Karnataka)
Ministry of Environment, Forests & Climate Change
Regional Office (Southern Zone), Kendriya Sadan
IV Floor, E& F Wings, 17th Main Road,
II Block, Koramangala,
Bangalore - 560 034,

Syngene International Limited
MSEZ, Plot No. IP-30, IP-40, & IP-50
IP-25 (Part), & IP-53(Part)
Kalevar Village & Post
Dakshina Kannada,
Mangaluru - 574142
CIN: L0510KA1999PLC014957
www.syngeneintl.com

Dear Sir,

Sub: Submission of Compliance to Environmental Clearance (SEIAA 03 IND 2021) issued to Syngene International Limited, IP-39, IP-46, IP-60 & IP-25 (Part) & IP -61 (Part) Kalaver Village and post, Mangalore SEZ.

Ref: Environmental Clearance vide letter No: SEIAA 03 IND 2021 Dated: 26 Mar 2021

With respect to above subject, we are herewith submitting the half-yearly compliance for the conditions stipulated in the Environmental Clearance.

Kindly accept and acknowledge the same.

Thank you.

For M/s Syngene International Limited MSEZ

Authorized Signatory



Copy to:

1. SEO KSPCB, 17 Category
2. REO KSPCB Mangalore

✓
15/02/2023

RECEIVED
Regional Office
Karnataka State Pollution Control Board
Plot No.10-'B', Baikampady Industrial Area
Mangaluru-575011

29/4/2022

Syngene

DATE: 24 Apr 2021

To,

Environment Officer

Karnataka State Pollution Control Board

Regional Office

Bikampady Industrial area

Mangalore-560011

Syngene International Limited
MSEZ Unit - 1, Mangalore SEZ,
Plot No. IP-39, IP-46, IP-60,
IP-25 (Part) & IP-61 (Part),
Kalavar village & Post,
Mangalore 574142 India
CIN: L85110KA1993PLC014937
www.syngeneintl.com

Subject: Submission of Compliance report for the Environment Clearance obtained for Proposed expansion and change in the mix of API's manufacturing capacity and establishment of new facility for manufacture of Biopharmaceutical products at Syngene International Limited at IP-39, IP-46, IP-60, IP-25(Part) & IP-61(Part) at Mangalore SEZ, Kalavar Village, Mangalore.

Ref: SEIAA 03 IND 2019 Dated 26.03.2021

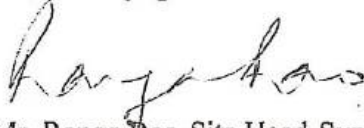
Dear sir,

This is to inform you that we have published the information regarding obtainment of Environmental Clearance in Vijaya Karnataka and Times of India on 23rd April 2021. Copy of the same is being enclosed for your records.

Thank you

Yours Faithfully,

For, M/S Syngene International Limited MSEZ



Mr. Ranga Rao-Site Head-Syngene International Limited Mangalore SEZ



Copy to :

1. Regional Director-MoEF (Karnataka)
2. SEO KSPCB, 17 Category
3. Department of Ecology & Environment

Regional Office
Karnataka State Pollution Control Board
Plot No.10-13,
Bikampady Industrial Area,
Mangalore-575011.

26/4/21

SHREE GOKARNATHESHWARA COLLEGE OF EDUCATION
BANGALORE, MANGALORE 3. Ph: 0824245216, 844935111
(Email: shreegokarnatheswara@gmail.com)

WANTED PRINCIPAL

Application are invited for the post of Principal

- Qualification:
1. A PhD in Education or any Pedagogic subject offered in the institution eight years of teaching experience in a Secondary Teacher Education Institution.
 2. Post-Graduate degree in Science/Social Science/Humanities/Commerce with 55% marks, M.Ed with 55% marks or M.A.(Education) and B.Ed with 55% marks.
 3. Eight Years of teaching experience in a secondary Teacher Education Institution

• Eligible Retired can also apply

• Apply immediately

Correspondent

Financial Sector MNC

Urgently Required in Udupi, Kundapura and Bhyndoor

Wealth Manager- Salary 25K+ Incentives

Retired Govt Bankers / NRIS/ House makers

Age: 30-65 Year

Minimum Qualification: SSIC

PH.: 8310541216, 8792539504

4 sheep found dead at food plant

Madhavi: Four sheep were found dead at the storage unit of a food processing centre at kuduru near Kushalnagar. It is said the sheep had entered the unit on Saturday evening to feed on rice and wheat stored there. Without noticing their presence, the employees locked its doors from outside. When some employees opened the doors on Tuesday, they found the dead sheep. **THE**

TEACHER REQUIREMENT

B.A. B.Ed (Hindi) - 2 Posts

Walk in interview: Date and reporting time

28 April 2021 (Wednesday) @ 9.30 am

Venue: **HMM English Medium Primary School**

Opposite Viveka Hospital, Basuru cross Road, Vaidhobbi,

Kundapura- 576201. 9008806765, 7760296765

Candidates are invited to send the application to school

mail ID hmmsschool75@gmail.com (not mandatory)

Please follow SOP guidelines

Sd/- B.M. Sukumar Shetty

President / Correspondent

SYNGENE INTERNATIONAL LIMITED
IP-39, IP-46, IP-60 and IP-25 (Part) & IP-61 (Part) of
Mangalore SEZ Karnataka
Kudshina Kannada District, Karnataka State.

PUBLIC NOTICE

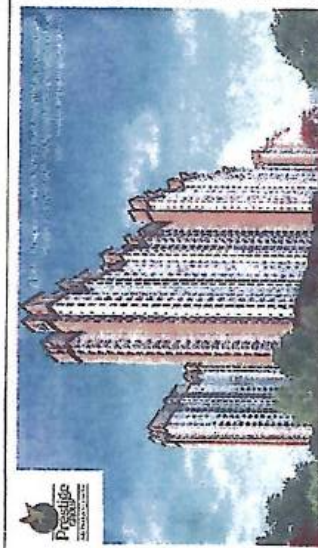
This is to inform the public that SEIAA (State Level Environmental Impact Assessment Authority) has issued File No. - SEIAA 03 IND Dated 26.03.2021 for its New Synthetic Organic Manufacturing Unit at Plot No. IP-39, IP-46 & IP-60, IP-25 (Part) & IP-61 (Part) Mangalore SEZ Limited, Kudshina Kannada District, Karnataka State. The Environmental Clearances issued by SEIAA is available in the official website of SEIAA, Karnataka (<http://seiaa.karnataka.gov.in/>) & MoEF & CC (<https://www.mefcc.nic.in/>) and copies are available with the State Pollution Control Board.

Syngene International Limited,
Blecon Park, Plot No. 2 & 3, Bommasandra IV Phase,
Jigani Link Road, Bengaluru - 560 099

TIMES interact

To book your advertisement,
Call 9278612222 | Log In: <https://ads.timesgroup.com>

Connecting People, Places and Professions



2750+ HAPPY FAMILIES

LOCK A FINEST DESIGN

Join them by booking your dream home at Prestige Jindal City

1, 2, 3, & 4 BHK Price Start at ₹ 45 Lakhs*

Pay 25% on booking & 75% on possession

Phase I - Booking completion

Phase II - December 2022

Call: 84950 84950

BOOK NOW TO AVAIL

25:75 OFFER

PRESTIGE JINDAL CITY

MADE OF GREAT LIVING

PRESTIGE JINDAL CITY

MADE OF GREAT LIVING

PRESTIGE JINDAL CITY

MADE OF GREAT LIVING

PRESTIGE JINDAL CITY

MADE OF GREAT LIVING

Union Bank
Development Division,
8th Floor, Central Office, 239,
Vishnu Chavan Marg, Nariman
point, Mumbai - 400 021.

TENDER NOTICE

Union Bank of India invites sealed offers for "Engaging Premier Institutes for Leadership Development Programme". Please visit the Bank's website www.unionbankofindia.co.in or the Government portal www.procure.gov.in for downloading the RFP document, to know the eligibility criteria and other details. The last date of receipt of RFP response is May 28, 2021 upto 01:00 PM. Any amendments/modifications/changes including any addendum in the tender shall be notified on the Bank's website only.

General Manager (HR-LAD)

Date: 22.04.2021

business

DISTRIBUTORS

REQUIRE Distributors for International FMCG brand in South India Contact: +91 980840712 Email: hr@lensindia.com

tender & notices

TENDERS

Union Bank
Department of Information Technology, Ad Shankaracharya Marg, Opp. Povel Lake, Powai, Andheri East, Mumbai - 400 072.

BIDDER NOTICE

Union Bank of India invites e-Tender from reputed, established and experienced

Out of hosp, CM urges people to cooperate

Continued from page 1

The new guidelines came into public domain only on Thursday evening but its implementation began earlier in the day. Shops were forced to down shutters in markets across the state, triggering panic buying even as rumours of a total lockdown began doing the rounds.

Hours after testing negative for Covid-19 and being discharged from hospital, CM BS Yediyurappa convened an urgent video conference of his council of ministers and officials to discuss the implementation of lockdown curbs as exports have emphasised the importance of breaking the chain of Covid-19 transmission. The CM had earlier urged people to stay indoors and cooperate with the administration in implementing the lockdown, saying, "many people are dying on the streets. Two to three members in a family have accumulated Covid. The situation is indeed bad."

As part of these curbs, shops and establishments selling non-essential commodities, multiplexes, malls, theatres, water parks and clubs have been shut on weekdays as well. Religious places have also been closed, although priests have been allowed to carry out rituals.

Public transport, including buses, autos and taxis, can operate at 50% of their seating capacity only on weekdays. Private vehicles are also allowed. "On weekends, buses including BMTC and KSRTC, autos and taxis will not be allowed to operate. Private vehicles too cannot ply on weekends except for emergencies," a senior official clarified. "The assembly of more than five people has also been prohibited during the weekend as per the provisions of section 144 of CrPc," he added.

Restaurants and standalone liquor outlets have been permitted only takeaway services on weekdays and they will not be allowed to operate on weekends. Private offices too have been instructed to shift to work-from-home mode, while government offices are allowed to work at 50% of their workforce. Private offices in essential sectors, including banking, insurance, pharmaceuticals, water and power supply, are allowed to operate from offices, while government offices dealing with the Covid-19 pandemic will operate at full capacity.

After the meeting, revenue minister R Ashoka said a total of Rs 571 crore is being released by the state government to various district administrations including BBMP for Covid-19 management.

The minister said Kalaburagi is being allotted Rs 50 crore, Bengaluru Rural and Bengaluru Urban Rs 15 crore each and Rs 10 crore each to Channarayana, Davangere, Shivamoga, and Tumakuru among others.

Taking note of long queues at crematoria in the city, Ashoka said that a 4-acre plot in Tavara near Bengaluru will be opened for cremations of Covid-19 bodies. "It can be used for cremation of 50-60 bodies daily as per traditions using firewood," he said.

Afternoon Swoop in B'luu

In the state capital, police swung into action in the afternoon getting traders in all market areas to observe strict lockdown.

ಅಮೋಘ ಸರ್ಕಾರ
ಅಮೋಘ ಮತ್ತು ಕುಟುಂಬ ಸೌಖ್ಯ ಇಲಾಖೆ
ಸಂಪನ್ಮೂಲಗಳ ಸಾರ್ವಜನಿಕ ಅಭಿವೃದ್ಧಿ, ಕುಂದಾಪುರ-576201
33/234808 ಎ-ಮೇಲ್: amokundapur-nhs@karnataka.gov.in



State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 03 IND 2021

Date: 30.11.2021

CORRIGENDUM

The Annexure mentioned in the Environmental Clearance letter No. SEIAA 03 IND 2021 dated 26.03.2021 issued to M/s. Syngene International Limited, Mangalore Special Economic Zone Limited (MSEZL), Kalavar Village, Mangalore Taluk, Dakshina Kannada District and Karnataka for Expansion of API's, Non Active API's & Biopharmaceutical Products Manufacturing Facility Project at plot nos. IP-39, IP-46 & IP-60, IP- 25(Part), IP-61 (Part), Survey No's 5/5B(P), 5/6 (P), 5/7(P), 5/8A(P), 5/8B, 5/8C(P), 5/10(P), 6/1(P), 6/2(P), 6/3(P), 7/1(P), 7/2, 7/3(P), 8/1C(P), 10/1, 10/2, 10/3, 10/4A(P), 10/5, 10/6, 10/7(P), 10/8(P), 10/9, 10/10A(P), 10/11(P), 10/12(P), 10/13(P), 11/1(P), 11/2(P), 11/3, 11/4, 11/5, 11/6, 11/9, 11/10, 12/5(P), 12/6(P), 12/11(P), 12/12(P), 13/1, 13/2(P), 13/3, 13/4, 13/5, 13/6, 14/4(P), 14/5(P), 14/6(P), 14/7(P), 14/8, 14/9, 15/1(P), 15/2A, 15/2B(P), 15/2C(P), 15/2D(P), 15/2E, 17/8(P), 17/13(P), 17/22(P), 17/23(P), 17/25(P), 98/1(P), 98/2(P), 99/1(P), 99/2(P), 100(P), 1(P), 19/8(P), 20/3(P), 20/4A, 20/4B, 20/4C, 138/1(P) MSEZL, Kalavar Village, Mangalore Taluk, Dakshina Kannada District and Karnataka state shall be modified and read as " Annexure-I", Annexure -II, Annexure -III & Annexure - IV inserted as follows.

ANNEXURE - 1

List of products to be manufactured with their below given capacities

Sl.No	Product Type	Quantity (MTA)
1	Biopharmaceuticals	1.056
2	API's, R&D Synthesis, and Launch Product	492.65
3	Non-API products	320
	Total	813.706

ANNEXURE - II

As per the Office Memorandum dated 28.01.2021 which inter-alia stated SEAC has clearly recommend the permissible pollution load for this proposed project.

S.No	Utility	Water Requirement (KLD)	Effluent Water (KLD)		Total Effluent Generation (KLD)	Pollution Load in kgs	
			HTDS	LTDS		TDS	COD
1	Domestic use	77		73	73	73	43.8

2	Process & scrubbing	348	198	67	265	4107.5	6280.5
3	Cooling towers	927	.	188	188	307.8	22.8
4	Boiler	279	.	114	114	470	5.64
	TOTAL	1631	198	442	640	4958.3	6352.7

ANNEXURE - III

Details of Hazardous Waste Management.

Sl	Category	Name of the hazardous waste	Category no	UOM	Final Quantity Tons/Annunum	Characteristic
1	5.1	Used Oil /Spent Oil	5.1	KL	6	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
2	5.2	Wastes or residues containing oil	5.2	MT	5	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
3	28.1	Process Residue and wastes	28.1	MT	882	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
4	28.2	Spent Catalyst	28.2	MT	34	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
5	28.3	Spent Carbon	28.3	MT	10	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
6	28.6	Spent Solvents	28.6	MT	52286	a. Collected in dedicated storage vessels with secondary containment b. filled in MS / PVC container. Stored in Dedicated Storage facility



1-12

						provided with Shelter and Impervious floor
7	34.1	Empty barrels/container s/liners contaminated with hazardous chemicals/wastes	33.1	NO	40,000.00	Stored in Dedicated Storage facility provided with Shelter and Impervious floor
8	35.3	Chemical sludge from waste water treatment	35.3	MT	5400	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
9	37.3	Concentration or evaporation residues (MEE Salt)	37.3	MT	1825	Collected and filled in MS / PVC container. Stored in Dedicated Storage facility provided with Shelter and Impervious floor
10	28.5	Expired products	28.5	MT	40.6	Stored in Dedicated Storage facility provided with Shelter and Impervious floor
10	NA	Miscellaneous waste	NA	MT	50	Stored in Dedicated Storage facility provided with Shelter and Impervious floor

ANNEXURE - IV
Air pollution sources & control measures.

Sl. No.	Source	Capacity & Nos.	Fuel type	Stack Height	Location
1	Boilers	10 TPH x 2 Nos.	HSD or LPG or CNG or LDO or FO	30 m Stack	Industry site
		5 TPH x 1 No.		30 m stack	Offsite ETP site
		2 TPH x 1 Nos		30 m stack	Industry site
2	DG sets	3000 kVA x 2 Nos.	HSD /CNG/LPG	20 m	Industry site
		500 kVA x 1 No.		8 m	Offsite ETP site



11

		2000 kVA		30 m	Industry site
3	Process emissions API - 41 Reactors Non-API - 15	-	-	25 m AGL	Wet scrubber API - 4 Scrubber Non-API - 4 Scrubbers.
4.	Process emission- Reactors & Biopharmaceutical production	-	-	25 m AGL	1. Acid scrubber 2. Alkaline scrubber 3. Media scrubber 4. Acid / alkali scrubber

Details of Process Emissions Generation And Its Management.

S. NO	NAME OF THE GAS	QUANTITY KG/DAY	DISPOSAL METHOD
1	Hydrogen chloride	56.42	Scrubbed by using C.S. Lye solution
2	Carbon dioxide	24.63	Dispersed into the atmosphere
3	Hydrogen	3.0	Diffused by using Nitrogen through Flame arrestor
4	Nitrogen	2400 (NM ³ /day)	Let into the atmosphere
5	Sulphur Dioxide	31.37	Scrubbed by using C.S. Lye solution
6	Oxides of Nitrogen	62.74	Let into the atmosphere
7	Carbon Monoxide	15.68	Let into the atmosphere

Rest of the contents and the conditions of the Environmental Clearance letter No. SEIAA 03 IND 2021 dated 26.03.2021 remains unchanged




(Vijay Mohan Raj V)
 Member Secretary,
 SEIAA, Karnataka.

Copy to:

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.

- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.



State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 03 IND 2021

Date: 26.03.2021

To,

M/s. Syngene International Limited
Mangalore Special Economic Zone Limited (MSEZL),
Kalavar Village, Mangalore Taluk,
Dakshina Kannada District and Karnataka

Sir,

Sub: Expansion of API's, Non Active API's & Biopharmaceutical Products Manufacturing Facility Project at Plot nos. IP-39, IP-46 & IP-60, IP-25(Part), IP-61 (Part), Survey No's 5/5B(P), 5/6 (P), 5/7(P), 5/8A(P), 5/8B, 5/8C(P), 5/10(P), 6/1(P), 6/2(P), 6/3(P), 7/1(P), 7/2, 7/3(P), 8/1C(P), 10/1, 10/2, 10/3, 10/4A(P), 10/5, 10/6, 10/7(P), 10/8(P), 10/9, 10/10A(P), 10/11(P), 10/12(P), 10/13(P), 11/1(P), 11/2(P), 11/3, 11/4, 11/5, 11/6, 11/9, 11/10, 12/5(P), 12/6(P), 12/11(P), 12/12(P), 13/1, 13/2(P), 13/3, 13/4, 13/5, 13/6, 14/4(P), 14/5(P), 14/6(P), 14/7(P), 14/8, 14/9, 15/1(P), 15/2A, 15/2B(P), 15/2C(P), 15/2D(P), 15/2E, 17/8(P), 17/13(P), 17/22(P), 17/23(P), 17/25(P), 98/1(P), 98/2(P), 99/1(P), 99/2(P), 100(P), 1(P), 19/8(P), 20/3(P), 20/4A, 20/4B, 20/4C, 138/1(P) MSEZL, Kalavar Village, Mangalore Taluk, Dakshina Kannada District and Karnataka state by M/s. Syngene International Limited- issue of Environmental Clearance Reg.

This has reference to your online application dated 07th January 2021 bearing proposal No.SIA/KA/IND2/191828/2021 addressed to SEIAA, Karnataka on the subject mentioned above. The proposal has been appraised as per procedure prescribed in the provisions under the EIA notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the application in Form-1, Pre-feasibility report, and the additional clarification furnished in response to the observations of the SEAC, Karnataka.

2. It is a proposal seeking Environmental clearance for Expansion of API's Non Active API's & Biopharmaceutical Manufacturing Products Manufacturing Facility Project at Mangalore SEZ, Kalavar Village, Mangalore Taluk, Dakshina Kannada District by M/s. Syngene International Limited. This is a project covered under Sl.No.5(f) of the Schedule Under of EIA Notification 2006 and amendments made there on.

3. It is inter alia noted that Environmental Clearance has been issued to this project vide letter No. SEIAA 43 IND 2019 dated 06.08.2020 for Expansion of API's

[Signature]

State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

Manufacturing capacity by addition of new products & new facility for manufacture of Biopharmaceutical Products within the existing industry premises Project with a total production quantity of 813.966 TPA.

4. It is inter-alia noted that M/s Syngene International Ltd. have proposed for Expansion of API's, Non API's & Biopharmaceutical manufacturing unit within the existing industry premises Project. The total plot area is 1,87,855.075 Sqm. Total Built up area is 1,09,629.4 Sqm. The total project cost is Rs. 1151 Crores. The details of existing and proposed products with capacities are as per Annexure:-

5. The total water requirement for the proposed project is 1631 KLD, and It will be met from the MSEZL supply, The waste water generation from APIs production block is 422 KLD from Existing API's & Non-APIs products including sewage and 218 KLD from Proposed Biopharmaceutical products. Industry shall adopt Zero Liquid discharge (ZLD) effluent treatment system for API's & Non-APIs products. Same principle will be followed for the Biopharmaceutical effluent System. Power requirement is 6500 KVA for API products and 1500 KVA for operational of Biopharmaceutical products and will be met from MESCOM, a Branch of Karnataka State Power Distribution Corporation Limited (KPTCL).

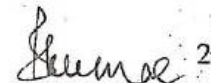
The existing unit has DG set of 3000 KVA X 2 No's and 500 KVA for ETP operation and proposed to install additional DG set of 2000 KVA as power back up. The existing unit has 10 TPH X 2 No's Boiler and 5 TPH boilers is for Offsite ETP site and proposed for install 2 TPH boilers for biopharmaceutical products.

6. The project proposal was considered by SEAC during the video conference meeting held on 4th February 2021 as B2 category activity in accordance with the Notification S.O. 3636 (E) dated 15th October 2020. Based on the information submitted by you, presentation made by your consultant Dr. Mohammed Habibulla S/o Mohammed Hyder, the State Level Expert Appraisal Committee (SEAC) appraised the proposal and has recommended for issue of Environmental Clearance.

7. The SEIAA Karnataka has considered the project in its meeting held on 22nd February 2021 and after due consideration of the relevant documents submitted by you and additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC, decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

 2

- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (Incase of the presence of schedule-1 species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

II Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. 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.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. 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.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per

Sumar 3

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

CPCB/SPCB guidelines.

- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. 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

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and theadequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

Shumma 4

- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

VII. Green Belt

- i. 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.

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

Sumit 5

State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

IX. Corporate Environment Responsibility

- i. The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less than Rs. 3.31 Crores in accordance with the O.M. F. No.22-65/2017-IA.III dated 20th October 2020 and report be submitted to the Authority as committed during the SEAC meeting.
- ii. 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.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

- i. 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

Shreem 6

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

- 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.
- ii. 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.
 - iii. 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.
 - iv. 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.
 - v. 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.
 - vi. "The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into 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 rosz.bng-mefcc@gov.in Hard copy of HYCRs shall not be acceptable".
 - vii. 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.
 - viii. 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.
 - ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - x. 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.
 - xi. 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).
 - xii. 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.

Sumas 7

State Level Environment Impact Assessment Authority-Karnataka


(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

- xiii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv. 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.
- xvi. 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.
- xvii. 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.

Yours faithfully,


(Brijesh Kumar) 26/3/2024
Member Secretary,
SEIAA, Karnataka.

Copy to:

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.

State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Expansion of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility Project by
M/s. Syngene International Limited

ANNEXURE


List of Existing products with their capacities

Sl.No	Products	Production Capacity (TPA)
1	APIs (61 Nos)	492.91
2	Non- APIs (9 Nos.)	320
3	Biopharmaceutical products (28 Nos.)	1.056
	Total	813.996

List of Proposed Products to be manufactured with their capacities

Proposed Products		
Sl.No	Product Type	Quantity (TPA)
1	Biopharmaceuticals	1.056
2	API's, R&D Synthesis, and Launch Product	492.65
3	Non-API products	320
	Total Capacity	813.706

Yours faithfully,


(Brijesh Kumar) 26/3/2021
Member Secretary,
SEIAA, Karnataka.



State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 03 IND 2021

Date: 02.02.2023.

Amendment of Environmental Clearance

The Annexure mentioned in the Environmental Clearance letter No. SEIAA 03 IND 2021 dated 26.03.2021 & Corrigendum dated 30.11.2021 issued to M/ s. Syngene International Limited, Mangalore Special Economic Zone Limited (MSEZL), Kalavar Village, Mangalore Taluk, Dakshina Kannada District and Karnataka for Expansion of API's, Non Active API's & Biopharmaceutical Products Manufacturing Facility Project at plot nos. IP- 39, IP-46 & IP-60, IP- 25(Part), IP-61 (Part), Survey No's 5/5B(P), 5/6 (P), 5/7(P), 5/8A(P), 5/8B, 5/8C(P), 5/10(P), 6/1(P), 6/2(P), 6/3(P), 7/1(P), 7/2, 7/3(P), 8/1C(P), 10/1, 10/2, 10/3, 10/4A(P), 10/5, 10/6, 10/7(P), 10/8(P), 10/9, 10/10A(P), 10/11(P), 10/12(P), 10/13(P), 11/1(P), 11/2(P), 11/3, 11/4, 11/5, 11/6, 11/9, 11/10, 12/5(P), 12/6(P), 12/11(P), 12/12(P), 13/1, 13/2(P), 13/3, 13/4, 13/5, 13/6, 14/4(P), 14/5(P), 14/6(P), 14/7(P), 14/8, 14/9, 15/1(P), 15/2A, 15/2B(P), 15/2C(P), 15/2D(P), 15/2E, 17/8(P), 17/13(P), 17/22(P), 17/23(P), 17/25(P), 98/1(P), 98/2(P), 99/1(P), 99/2(P), 100(P), I(P), 19/8(P), 20/3(P), 20/4A, 20/4B, 20/4C, 138/1(P) MSEZL, Kalavar Village, Mangalore Taluk, Dakshina Kannada District and Karnataka state shall be modified and read as " Annexure-I", Annexure -II, Annexure -III & Annexure – IV inserted as follows.

ANNEXURE – 1

List of products to be manufactured with their below given capacities

S.No	Product name	Quantity-TPA
1	SAPI 01 (Benzodiazepine Phenylacetamido Acetic Acid)	6
2	SAPI 05 (Dibenzofuran)	4.5
3	SAPI 06 ((Aminocyclopropyl Benzoate)	2
4	SAPI 07 (BromoPyrazine)	4.8
5	SAPI 09 (Phenylquinazoline)	6
6	SAPI 10 (Azaspiro carboxylic acid)	3
7	SAPI 11 (AzabicycloOctanone)	3
8	SAPI 12 (PyrrolidineCarboxamide)	3
9	SAPI 15 (Butanoic Acid)	3

State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

10	SAPI 17 (Methoxynaphthanalene Derivative)	6
11	SAPI 19 (Cetyl Ester)	4
12	SINT 01 (Dichlorocarboxamide)	6
13	SINT 02 (BenzamideMethanesulfonate)	3
14	SINT 03 (Flouren Glutamine)	9
15	SINT 04 (Benzonitrile Amide)	3
16	SINT 05 (Pyrrole - Pyrimidine)	6
17	SINT 07 (MethoxyOxobutanoic Acid)	3
18	SINT 08 (Benzyl chloro pyrimidine derivative)	6
19	SINT 09 (Bromo Aniline)	10
20	SINT11(AcetamideTetrahydrobenzothiadizepene)	6
21	SINT 20 (Itaconic Acid Ester)	4
22	SINT 21 (Allyl Derivative)	4
23	SINT 24 (Isophthalate Derivative)	4
24	Orlistat	30
25	Pyranone	24
26	CBTA	3
27	ACH-0145993	0.2
28	LYP 010	0.55
29	APR-246	0.5
30	Hydroxychloroquine	6
31	Remdesivir	39.5
32	Bromo thiadiazepine	0.6
33	Methoxy acridin diamine	6
34	Diketotriazolo pyridine der	1.4
35	Vactosertib	0.6
36	8-chloronaphthalen-piperizine derivative	1
37	Atorvastatin	30
38	Rosuvastatin	10
39	Valsartan intermediate	50
40	4-bromo 2-fluoro biphenyl	15
41	Trityl Olmesartan	20
42	Ethyl Guar	6
43	6-Chloro 2-hexanone	20
44	R&D custom synthesis	50
45	New chemicals entities	2
46	Validation products	10
47	Intermediates for APIs	20
48	Posaconazole	0.91
49	Dapagliflozin	3



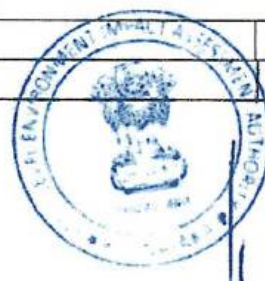
State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

50	DL Serine hydrazide HCl	20
51	Paxlovid	1
52	Sarcosin-OH	2
53	Synthetic Glycol	10
	Total	492.56 TPA
Sl No	Product Name	Quantity
	Biopharmaceutical products	TPA
1	Adalimumab	Total production of the products per annum will not exceed 1.056 TPA. The maximum number of batches planned is 176 batches are considered per year. This includes total quantity of all the products listed over here.
2	Bevacizumab	
3	Talazoparib	
4	Avelumab	
5	Luteinizing hormone	
6	Follicle stimulating hormone	
7	Etanercept	
8	Rituximab	
9	Infliximab	
10	Trastuzumab	
11	Ranibizumab	
12	Darbepoetin alfa	
13	Blood factors for coagulation (recombinant origin)	
14	Cetuximab	
15	Erythropoietin	
16	Recombinant origin proteins	
17	Palivizumab	
18	Abatacept	
19	Monoclonal antibodies	
20	Therapeutic proteins	
21	Imiglucerase	
22	Omalizumab	
23	Gonadotropin hormone	
24	Somatropin	
25	Tenecteplase	
26	Tocilizumab	
27	HPV vaccine (recombinant origin)	
28	Hepatitis vaccine (recombinant origin)	
	Sub Total	1.056 TPA

S.No	Non-API products		Quantity (TPA)
1	SAIG-01	Cloropyridine Carboxamide	100



3
—
1

State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

2	SAIG-02	Methoxyamino Chlorobenzene	100
3	SAIG-03	Trifluoromethyl Pyrimidine	15
4	SAIG-04	Dichloropyridinone	15
5	SAIG-05	Tetramethylfuranone	15
6	SAIG-06	Bromochloroalkylaniline	20
7	SAIG-07	Chloropyridinecarboxylic Acid	20
8	SAIG-08	Dichlorodisodiumbenzoate	20
9	SAIG-09	Chloromethoxysulphonamide	15
Sub Total			320 TPA

Summary of consolidated product types and quantity

Sl.No	Product Type	Quantity (MTA)
1	Biopharmaceuticals	1.056
2	API's, R&D Synthesis, and Launch Product	492.56
3	Non-API products	320
Total		813.616

ANNEXURE - II

As per the Office Memorandum dated 28.01.2021 which inter-alia stated SEAC has clearly recommend the permissible pollution load for this proposed project.

S.No	Utility	Water Requirement (KLD)	Effluent Water (KLD)		Total Effluent Generation (KLD)	Pollution Load in kgs	
			HTDS	LTDS		TDS	COD
1	Domestic use	77	-	73	73	73	43.8
2	Process & scrubbing	348	198	67	265	4107.5	6280.5
3	Cooling towers	927	-	188	188	307.8	22.8
4	Boiler	279	-	114	114	470	5.64
TOTAL		1631	198	442	640	4958.3	6352.7

Details of Effluent Characteristics

S.No	Parameter	Units	ETP Inlet	ETP Outlet
1	pH	-	3.0 - 8.0	6.5 - 7.5
2	BOD	Mg/L	5000	<250



State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

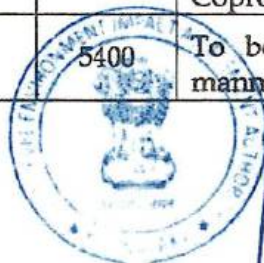
Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

3	COD	Mg/l	20000 - 25000	< 1000
4	TDS	Mg/l	0.9-1.2%	1100 - 2000

ANNEXURE - III

Details of Hazardous Waste Management.

Sl. No	Name of the hazardous waste	Category no	UOM	Final Quantity /Annum	Treatment and Disposal method to be adopted
1	Used Oil /Spent Oil	5.1	KL	10	To be stored in secure manner and handed over to authorized recycler/reprocessor/Co-processing units
2	Wastes or residues containing oil	5.2	MT	5	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units
3	Process Residue and wastes	28.1	MT	882	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units
4	Spent Catalyst	28.2	MT	34	To be stored in secure manner and handed over to authorized recycler
5	Spent Carbon	28.3	MT	10	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units
6	Spent Solvents	28.6	MT	51560	To be stored in secure manner and handed over to authorized recycler/reprocessor
7	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	33.1	MT	40,000	To be stored in secure manner and handed over to authorized recycler/Coprocessing units
8	Chemical sludge from waste water treatment	35.3	MT	5400	To be stored in secure manner and handed over



State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

					to authorized TSDF/Coprocessing units
9	Concentration or evaporation residues (MEE Salt)	37.3	MT	1825	To be stored in secure manner and handed over to authorized TSDF/Coprocessing units
10	Oil and Grease skimming	35.4	MT	5	To be stored in secure manner and handed over to authorized recycler/reprocessor/Co-processing units
11	Off Specification products	28.4	MT	5	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units
12	Date expired products	28.5	MT	5	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units
13	Miscellaneous waste such as PPE	NA	MT	5	To be stored in secure manner and handed over to authorized incinerator/Coprocessing units

ANNEXURE - IV
Air pollution sources & control measures.

Sl. No.	Source	Capacity & Nos.	Fuel type	constituents to be controlled in the emission	Tolerance limits mg/nm ³	Air pollution control device to be installed, in addition to chimney height as per col(4).	Stack Height	Location
1	Boilers	10 TPH x 2 Nos.	HSD or LPG or CNG or LDO or FO or	PM (mg/nm ³)	150	NA	30 m Stack	Industry site
		5 TPH x 1 No.		SO ₂ (PPM)	600		30 m stack	Offsite ETP site



State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

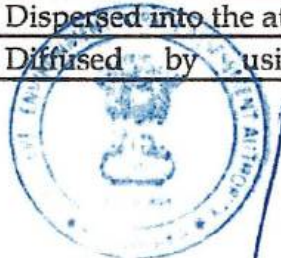
SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

		2 TPH x 1 Nos	PNG	NOX (PPM)	300		30 m stack	Industry site
2	DG sets	3000 kVA x 2 Nos.	HSD /CNG/ LPG/PNG	PM (mg/nm ³)	150	AEC	30 m	Industry site
		500 kVA x 1 No.		SO ₂ (PPM)	600	AEC	8 m	Offsite ETP site
		2000 kVA		NOX (PPM)	300	AEC	30 m	Industry site
3	Process emissions API - 41 Reactors Non-API - 15	-	NA	Acid mist	35	SCR	25 m AGL	Wet scrubber API - 10 Scrubbers Non-API - 4 Scrubbers.
4.	Process emission-Reactors & Biopharmaceutical production	-	-	-	-	-	25 m AGL	Acid Scrubber Alkaline scrubber Media Scrubber Acid / alkali scrubber-

Details of Process Emissions Generation And Its Management.

S. NO	NAME OF THE GAS	QUANTITY KG/DAY	DISPOSAL METHOD
1	Hydrogen chloride	56.42	Scrubbed by using C.S. Lye solution
2	Carbon dioxide	24.63	Dispersed into the atmosphere
3	Hydrogen	3.0	Diffused by using Nitrogen



State Level Environment Impact Assessment Authority-Karnataka
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 03 IND 2021

Amendment of Environmental Clearance for Expansion
of API's Non Active API's & Biopharmaceutical
Manufacturing Products Manufacturing Facility
by M/s. Syngene International Limited

			through Flame arrestor
4	Nitrogen	2400 (NM ³ / day)	Let into the atmosphere
5	Sulphur Dioxide	31.37	Scrubbed by using C.S. Lye solution
6	Oxides of Nitrogen	62.74	Let into the atmosphere
7	Carbon Monoxide	15.68	Let into the atmosphere

Rest of the contents and the conditions of the Environmental Clearance letter
No. SEIAA 03 IND 2021 dated 26.03.2021 remains unchanged



(Vijay Mohan Raj V)
Member Secretary,
SEIAA, Karnataka

Copy to:

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.