INNOVASSYNTH

INNOVASSYNTH TECHNOLOGIES (I) LTD.

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CIN No. U24110MH2001PLC134105

26th Dec 2019

To,
The Director,
Ministry of Environment & Forests,
Regional Office, (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines, Nagpur – 440001

Ref: Environmental Clearance File No. J-11011/20/2017-IA-II (I) dated 12th April 2018 granted by MOEFCC, Govt. Of India.

Dear Sir,

Subject: Expansion project of Innovassynth Technologies (I) Limited for manufacturing of Synthetic Organic Chemicals – Third progress/ Status Report EC Compliance

We have received the Environment Clearance from Ministry of Environment, Forest & Climate Change (MOEFCC), Government of India on 12th April 2018 for our Project, after that we have made compliances as per requirement.

We are submitting herewith the details of our project during the period of June 2019 to Dec 2019. Please consider it as a Third EC compliance report.

With this reference we wish to submit the details required as below:

1. Current status of Project.
2. Point wise compliance to stipulation as laid down by ministry.

We hope you will find same in line with your requirements.

Thanking You,

For Innovassynth Technologies (I) Limited

Authorized Signatory

1. Present Status of Project:

1. CG -1127 (Substituted Triazine Derivative) expanded to capacity of 900 MT/A is completed.
2. Total trade effluent of 260 CMD is being treated in MEE, full-fledged ETP Plant having primary, secondary and tertiary treatment and RO to achieve zero liquid discharge is completed.

2. Point by Point comment on Environment Clearance letter

Sr No	Terms and conditions in EC	Compliance
i	Consent to Establishment/Operate for the Project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act 1981 and the Water (Prevention and Control of Pollution) Act 1974.	We have taken consent to establishment & operate from MPCB.
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.	Project is already zero liquid discharge unit & after expansion also it remains the same.
iii	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	We have already taken permission from MWML and certificate valid up to 31st March 2020.
iv	National Emission Standard for Organic Chemicals Manufacturing Industries issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	Followed as per requirement.
v	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines	We have process scrubbers for process gaseous and bag filter with cyclone separator for boiler stack.
vi	Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) The condensers shall be provided with sufficient HTI and residence time so as to achieve more than 98% recovery. (d) Solvents shall be stored in a separate space specified with all safety measures. (e) Proper earthing shall be provided in all the	a) Reactors are provided with chilled brine condenser system. b) All the solvent pumps are provided with mechanical seals to prevent leakages. c) Condensers with sufficient HTI provided to achieve 98% recovery. d) Solvents are stored in designated area with all the safety measures.

	electrical equipment wherever solvent handling is done. (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breath valve to prevent losses. (g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	e) Proper earthing is provided to the equipment handling solvents. f) Entire plant is provided with flameproof machinery. The solvent storage tanks are provided with breather valves. g) Vent condenser provided to the storage tanks.
vii	Total fresh water requirement shall not exceed 1042 cum/day to be met from Patalganga river, prior permission in this regard shall be obtained from the concerned regulatory authority/CHWA	It will not exceed 1042 cum/day.
viii	Process effluent/any wastewater shall not be allowed to mix with storm water, Storm water drain shall be passed though guard pond.	Proper storm water drains are provided at project site with guard pond.
ix	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	All hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are already provided on tank farm, and solvents are transfer through pumps.
x	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.	All hazardous waste is sent to TSDF, MWML. (Mumbai Waste Management, Taloja)
xi	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.	The Company is strictly complying 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 are as per the Motor Vehicle Act (MVA), 1989.
xii	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 process. (c) Use of automated filling to minimize spillage (d) Use of close Feed system into batch	Followed as per the requirement. (a) All raw materials are metered and controlled for its quantities to minimize waste. (b) Recovered Solvents are reused in processes.

	reactors. (e) Venting equipment through vapour recovery system (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	(c) Pumps are used to transfer liquids in closed pipelines. (d) Closed hoppers are provided for solid material charging in reactors. (e) Vent Condensers are provided as secondary condensers for vapour recovery. (f) High Pressure Hoses are used wherever required.
xiii	The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in download wind direction and along roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	We already provided greenbelt area of 80808 m^2 (33% of total plot area) at projects site. The site is already lush green having more than 15000 trees.
xv	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Company has spent an amount of Rs 26.57Cr. towards the capital expenditure as on 30th Nov 2019 and hence liable to spend Rs.66.42 Lakhs for the ESR activity as on 30th Nov 2019 (which is 2.5% of invested amount). Company has initiated the measures for the same. Refer annexure I
xvi	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	For the DG sets are provided with proper stack height as per CPCB norms & acoustic enclosure.
xvii	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.	Firefighting system is already available at project site.
xviii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Medical checkup of the all workers are regularly done.
xix	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust	Proper storages of raw materials are already provided.

	pollution and other fugitive emissions.	
xx	The energy sources for lighting purpose shall preferably be LED based A minimum of 10-20% of the total power requirement for the industrial operations shall be met from non-conventional energy resources/solar/supply.	LED lightings are already provided to minimize power requirement.
xxi	Continuous online (24x7) monitoring system for stack emission shall be installed for measurement of fuel gas discharge and the pollutants concentration and the data to be transmitted to the CPCB and SPCB server. For 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.	We have already installed online monitoring system i.e. web camera with night vision capability and flow meters.
Other General Conditions		
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	Annual returns in Form-4 as required will submitted to MPCB and Form -5. Consent to establish & operate obtained from MPCB. (We have received the CTO & CTE from MPCB and we are strictly adhered to the stipulations, terms & conditions mentioned herein.)
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate change. In case of deviation or alterations in the project proposals from those submitted to this Ministry for clearance a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required if any.	Agreed.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Periodic monitoring done; reports are attached.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No.	We are regularly carryout monitoring at project site as per

	826(E) dated 16th November 2009 shall be followed.	National Ambient Air Quality Emission Standards. Reports are attached.
v	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. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act,1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Periodic monitoring done; reports are attached.
vi	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Rainwater harvest implemented.
viii	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environment management, and risk mitigation measures relating to the project shall be implemented.	The company has already complied with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environment management, and risk mitigation measures relating to the project is implemented.
ix	The Comply shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	We have already started ESC activities in local surrounding villages.
x	The company shall undertake eco-developmental measures including community welfare measures in the project are for the overall improvement of the environment.	Noted & Agreed
xi	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for the conditions stipulated herein. The funds so	The company will spend sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the

	earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	implementation schedule for the conditions stipulated herein. The funds earmarked for above measures will not be diverted for any other purpose.
xii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any were received while processing the proposals.	Noted & Agreed We have not received any suggestions and representations while processing the proposals from concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local and the local NGO. Hence this clearance copy not given to them.
xiii	The project proponent shall also submit six monthly reports on the status compliance of the stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environment Clearance and six-monthly compliance status report shall be posted on the website of the company.	This is 3rd half yearly report.
xiv	The environmental statement for each financial year ending 31st March in Form – V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environment clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Form - V is submitted to MPCB regularly. Status of compliance of EC is already put on company website along with EC Letter and also sent to Regional Offices of MOEF&CC by email.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be sent at Website of the Ministry at http:/moef.nic.in. This shall be advertised within seven days from the date of issues of the clearance letter, at least in two local newspaper that are widely circulated in	The advertisement of the obtained Environmental clearance was published in the newspapers, Loksatta (Marathi) dated 27th April 2018 and Indian Express (English) dated 27th April 2018.

	the region of which one shall be in the vermicular languages of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
xvi	The project authorities shall inform the Regional Office as well as the ministry the data of financial closer and final approval of the project by the concerned authorities and the date of start of the project.	We have already taken CTE & CTO from Maharashtra Pollution Control Board (MPCB). We have already informed to the ministry and Regional Office of MOEF&CC about the project start in the last year vide letter dated 04/09/2018.

Annexure I
ESR Activity

Particulars	Approx. Amount Rs. Lacs	Brief Description of project	Status
Multiutility Toilet Block for Municipal Council	25.52	Multi utility toilet block construction for municipal council in the town which will be used by people in the market and also commuters on the highway. This block will be maintained by municipal council.	Work started and will be completed by March 2020.
Toilet Block at Mulgaon	9.4	Toilet block for villagers of Mulgaon which is in the vicinity of factory.	Work started and will be completed by March 2020.
Water Purifier & Cooler for Municipal Hospital	3.5	Water purifier with cooler to be installed in Municipal hospital premises which will be used by patients coming from rural areas. Also, it will be used by people in the surrounding market area.	Work started and will be completed by March 2020.
Faecal Sludge Treatment Plant 30KL (FSTP) for Municipal Council	28	Currently there is no treatment facility for the faecal sludge collected by Municipal Council. As requested by Municipal Council, we propose to install FSTP which will treat the faecal sludge collected from town.	Technical evaluation is in progress and work will start from Feb 2020.
Total	**66.42**		

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Email : mktg@goldfinchengg.com, accounts@goldfinchengg.com, lab@goldfinchengg.com / Website : www.goldfinchengg.com

QF/LA/09

Report Ref. No.: GFL/W/R/19/09-17

Report Date : 19.09.2019

Analysis Report

Name of the Industry	**M/s. Innovasynth Technologies (India) Limited, Khopoli**		
Date of Sampling	12.09.2019	**Sample Description**	Effluent sample
Date of Receipt of Sample	12.09.2019	**Sample Volume**	2 Liters
Date of Analysis Started	13.09.2019	**Sample Collected by**	Laboratory
Date of Analysis Completed:	19.09.2019	**Sample Container**	Polythene Cans

Sr. No.	Parameters	Unit	GFL/W/19/09-17 Untreated	MPCB Limits	Test Method Used
1.	pH	--	10.57	--	APHA-4500 H+ B (23rd Edition)
2.	Total Suspended Solids	mg/l	24	--	APHA 2540 D (23rd Edition)
3.	B.O.D. 27°C. 3 days	mg/l	258	--	IS 3025 (part 44):1993 (Reaffirmed 2003)
4.	C.O.D	mg/l	1220	--	APHA 5220 B (15th Edition)
5.	Oil & Grease (Ether Extractable)	mg/l	6	--	IS 3025 part 39
6.	Total Residual Chlorine	mg/l	NIL	--	APHA 4500 Cl B (23rd Edition)
7.	Total Ammonical Nitrogen	mg/l	12.8	--	APHA 4500NH_3 B & C (23rd Edition)
8.	Free Ammonical Nitrogen	mg/l	9.85		IS 3025(Part 34)1988
9.	Phenol	mg/l	2.61	--	APHA 5530 C (23rd Edition)
10.	Total Dissolved Solid	mg/l	1802	--	APHA 2540 C (23rd Edition)
11.	Chlorides	mg/l	566	--	APHA 4500 Cl^- B (23rd Edition)
12.	Sulphate	mg/l	29.64	--	APHA 4500 SO_4^{2-} C(23rd Edition)
13.	Phosphate	mg/l	0.52	--	APHA 4500 P.C. (23rd Edition)

For Goldfinch Engineering Systems Private Limited

Analyzed By
Utkarsa
Govt Analyst

Verified By
Hallw
Lab-Incharge

Approved By
BWD
Director-Lab/Govt.Analyst

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QF/LA/09

Report Ref. No.: GFL/W/R/19/09-18 **Report Date : 19.09.2019**

Analysis Report

Name of the Industry	**M/s. Innovasynth Technologies (India) Limited, Khopoli**		
Date of Sampling	12.09.2019	**Sample Description**	Effluent sample
Date of Receipt of Sample	12.09.2019	**Sample Volume**	2 Liters
Date of Analysis Started	13.09.2019	**Sample Collected by**	Laboratory
Date of Analysis Completed:	19.09.2019	**Sample Container**	Polythene Cans

Sr. No.	Parameters	Unit	GFL/W/19/09-18 Treated	MPCB Limits	Test Method Used
1.	pH	--	7.24	Between 6.0 to 8.5	APHA-4500 H+ B (23rd Edition)
2.	Total Suspended Solids	mg/l	16	Less than 100	APHA 2540 D (23rd Edition)
3.	B.O.D. 27°C. 3 days	mg/l	38	Less than: 100	IS 3025 (part 44):1993 (Reaffirmed 2003)
4.	C.O.D	mg/l	138	Less than: 250	APHA 5220 B (15th Edition)
5.	Oil & Grease (Ether Extractable)	mg/l	<1	Less than: 10	IS 3025 part 39
6.	Total Residual Chlorine	mg/l	NIL	Less than: 1	APHA 4500 Cl B (23rd Edition)
7.	Total Ammonical Nitrogen	mg/l	9.73	Less than: 50	APHA 4500NH_3 B & C (23rd Edition)
8.	Free Ammonical Nitrogen	mg/l	0.84	Less than: 4	IS 3025(Part 34)1988
9..	Phenol	mg/l	0.12	Less than 5	APHA 5530 C (23rd Edition)
10.	Total Dissolved Solid	mg/l	790	Less than 2100	APHA 2540 C (23rd Edition)
11	Chlorides	mg/l	264	Less than 600	APHA 4500 Cl^- B (23rd Edition)
12	Sulphate	mg/l	26.34	Less than 1000	APHA 4500 SO_4^{2-} C (23rd Edition)
13.	Phosphate	mg/l	0.67	Less than 5.0	APHA 4500 P.C. (23rd Edition)

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt Analyst	Lab-Incharge	Director-Lab/Govt.Analyst

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QF/LA/09

Report Ref. No.: GFL/W/R/19/09-19 **Report Date : 19.09.2019**

Analysis Report

Name of the Industry	**M/s. Innovasynth Technologies (India) Limited, Khopoli**		
Date of Sampling	12.09.2019	**Sample Description**	Sewage Treated Water
Date of Receipt of Sample	12.09.2019	**Sample Volume**	2 Liters
Date of Analysis Started	13.09.2019	**Sample Collected by**	Laboratory
Date of Analysis Completed:	19.09.2019	**Sample Container**	Polythene Cans

Sr. No.	Parameters	Unit	GFL/W/19/09-19 Treated Sewage	MPCB Limits	Test Method Used
1.	Total Suspended Solids	mg/l	10	Less than 100	APHA 2540 D (23rd Edition)
2.	B.O.D. 27°C. 3 days	mg/l	4	Less than 100	IS 3025 (part 44):1993 (Reaffirmed 2003)
3.	C.O.D	mg/l	12	Not specified	APHA 5220 B (15th Edition)

For Goldfinch Engineering Systems Private Limited

Analyzed By **Govt Analyst**

Verified By **Lab-Incharge**

Approved By **Director-Lab/Govt.Analyst**

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QF/LA/10-A

Report Ref. No. : GFL/AA/R/19/09-15 **Report Date: 20.09.2019**

Analysis Report For Ambient Air Monitoring

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	11.09.2019	**Sample Description :**	Ambient
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AA/19/09-15	Limits	Units	Test Method
Location	Near Main Gate			
Date/Duration	11.09.2019			
PM 10	24.86	100	$\mu g/m^3$	IS 5182 (part 23):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
PM 2.5	11.68	60	$\mu g/m^3$	CPCB (NAAQS volume 1)
SO_2 conc.	<25.0	80	$\mu g/m^3$	IS 5182 (part 2):2001 Reaffirmed -2017 & CPCB (NAAQS volume 1)
NOx conc.	30.22	80	$\mu g/m^3$	IS 5182 (part 6):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
Lead	0.013	01	$\mu g/m^3$	CPCB (NAAQS volume 1)
Ammonia	32.85	400	$\mu g/m^3$	CPCB (NAAQS volume 1)
Carbon Monoxide	ND	04	mg/m^3	IS 5182 (part 10):1999 Reaffirmed - 2014
Arsenic	ND	06	ng/m^3	CPCB (NAAQS volume 1)
Nickel	11.02	20	ng/m^3	CPCB (NAAQS volume 1)
Ozone	ND	180	$\mu g/m^3$	IS 5182 (part 9):1974 Reaffirmed -2014
Benzene	ND	05	$\mu g/m^3$	IS 5182 (part 11):2006 Reaffirmed - 2017
Benzo(a)pyrene	<0.1	01	ng/m^3	IS 5182 (part 12):2004 Reaffirmed – 2014 & CPCB (NAAQS volume 1)

Sampling carried out using HVS **GOLDFINCH/INST-HVS/35** **Calibrated on : 09.08.2019** **Due on : 08.08.2020**	**Sampling carried out using ADS** **GOLDFINCH/INST-ADS/40** **Calibrated on : 18.01.2019** **Due on : 17.01.2020**

Remark- ND= Not Detected

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-A

Report Ref. No. : GFL/AA/R/19/09-16 **Report Date: 20.09.2019**

Analysis Report For Ambient Air Monitoring

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	10.09.2019	**Sample Description :**	Ambient
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AA/19/09-16	Limits	Units	Test Method
Location	**Near Q.C. Lab Terrace**			
Date/Duration	10.09.2019			
PM 10	24.57	100	$\mu g/m^3$	IS 5182 (part 23):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
PM 2.5	12.93	60	$\mu g/m^3$	CPCB (NAAQS volume 1)
SO_2 conc.	<25.0	80	$\mu g/m^3$	IS 5182 (part 2):2001 Reaffirmed -2017 & CPCB (NAAQS volume 1)
NOx conc.	55.60	80	$\mu g/m^3$	IS 5182 (part 6):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
Lead	0.10	01	$\mu g/m^3$	CPCB (NAAQS volume 1)
Ammonia	<17.0	400	$\mu g/m^3$	CPCB (NAAQS volume 1)
Carbon Monoxide	ND	04	mg/m^3	IS 5182 (part 10):1999 Reaffirmed - 2014
Arsenic	ND	06	ng/m^3	CPCB (NAAQS volume 1)
Nickel	8.33	20	ng/m^3	CPCB (NAAQS volume 1)
Ozone	ND	180	$\mu g/m^3$	IS 5182 (part 9):1974 Reaffirmed -2014
Benzene	ND	05	$\mu g/m^3$	IS 5182 (part 11):2006 Reaffirmed - 2017
Benzo(a)pyrene	<0.1	01	ng/m^3	IS 5182 (part 12):2004 Reaffirmed – 2014 & CPCB (NAAQS volume 1)

Sampling carried out using HVS **GOLDFINCH/INST-HVS/35** **Calibrated on : 09.08.2019** **Due on : 08.08.2020**	**Sampling carried out using ADS** **GOLDFINCH/INST-ADS/40** **Calibrated on : 18.01.2019** **Due on : 17.01.2020**

Remark- ND= Not Detected

For Goldfinch Engineering Systems Private Limited

Analyzed By	**Verified By**	**Approved By**
Ukumar		
Govt. Analyst	**Lab-In-charge**	**Director-Lab/Govt. Analyst**

PAN No. : AAACW1593P | GSTIN : 27AAACW1593P1ZP | PF No. : MH/THA/37337
UAN No. : MH33B0010167 | ESIC No. : 34-00-009299-000-0908

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QF/LA/10-A

Report Ref. No. : GFL/AA/R/19/09-17 **Report Date: 20.09.2019**

Analysis Report For Ambient Air Monitoring

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	12.09.2019	**Sample Description :**	Ambient
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AA/19/09-17	Limits	Units	Test Method
Location	On C3 colony Canteen			
Date/Duration	12.09.2019			
PM 10	27.02	100	$\mu g/m^3$	IS 5182 (part 23):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
PM 2.5	13.77	60	$\mu g/m^3$	CPCB (NAAQS volume 1)
SO_2 conc.	<25.0	80	$\mu g/m^3$	IS 5182 (part 2):2001 Reaffirmed -2017 & CPCB (NAAQS volume 1)
NOx conc.	12.4	80	$\mu g/m^3$	IS 5182 (part 6):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
Lead	0.02	01	$\mu g/m^3$	CPCB (NAAQS volume 1)
Ammonia	<17.0	400	$\mu g/m^3$	CPCB (NAAQS volume 1)
Carbon Monoxide	ND	04	mg/m^3	IS 5182 (part 10):1999 Reaffirmed -2014
Arsenic	ND	06	ng/m^3	CPCB (NAAQS volume 1)
Nickel	13.43	20	ng/m^3	CPCB (NAAQS volume 1)
Ozone	ND	180	$\mu g/m^3$	IS 5182 (part 9):1974 Reaffirmed -2014
Benzene	0.03	05	$\mu g/m^3$	IS 5182 (part 11):2006 Reaffirmed - 2017
Benzo(a)pyrene	<0.1	01	ng/m^3	IS 5182 (part 12):2004 Reaffirmed – 2014 & CPCB (NAAQS volume 1)
Sampling carried out using HVS **GOLDFINCH/INST-HVS/35** **Calibrated on : 09.08.2019** **Due on : 08.08.2020**		**Sampling carried out using ADS** **GOLDFINCH/INST-ADS/40** **Calibrated on : 18.01.2019** **Due on : 17.01.2020**		

Remark- ND= Not Detected

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-A

Report Ref. No. : GFL/AA/R/19/09-18 **Report Date: 20.09.2019**

Analysis Report For Ambient Air Monitoring

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	09.09.2019	**Sample Description :**	Ambient
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AA/19/09-18	Limits	Units	Test Method
Location	Near MPP Plant			
Date/Duration	09.09.2019			
PM 10	32.19	100	$\mu g/m^3$	IS 5182 (part 23):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
PM 2.5	15.44	60	$\mu g/m^3$	CPCB (NAAQS volume 1)
SO_2 conc.	<25.0	80	$\mu g/m^3$	IS 5182 (part 2):2001 Reaffirmed - 2017 & CPCB (NAAQS volume 1)
NOx conc.	47.54	80	$\mu g/m^3$	IS 5182 (part 6):2006 Reaffirmed – 2017 & CPCB (NAAQS volume 1)
Lead	0.022	01	$\mu g/m^3$	CPCB (NAAQS volume 1)
Ammonia	<17.0	400	$\mu g/m^3$	CPCB (NAAQS volume 1)
Carbon Monoxide	ND	04	mg/m^3	IS 5182 (part 10):1999 Reaffirmed - 2014
Arsenic	ND	06	ng/m^3	CPCB (NAAQS volume 1)
Nickel	14.36	20	ng/m^3	CPCB (NAAQS volume 1)
Ozone	ND	180	$\mu g/m^3$	IS 5182 (part 9):1974 Reaffirmed - 2014
Benzene	ND	05	$\mu g/m^3$	IS 5182 (part 11):2006 Reaffirmed - 2017
Benzo(a)pyrene	<0.1	01	ng/m^3	IS 5182 (part 12):2004 Reaffirmed – 2014 & CPCB (NAAQS volume 1)

Sampling carried out using HVS **GOLDFINCH/INST-HVS/35** **Calibrated on : 09.08.2019** **Due on : 08.08.2020**	**Sampling carried out using ADS** **GOLDFINCH/INST-ADS/40** **Calibrated on : 18.01.2019** **Due on : 17.01.2020**

Remark- ND= Not Detected

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

PAN No. : AAACW1593P
UAN No. : MH33B0010167
GSTIN : 27AAACW1593P1ZP
PF No. : MH/THA/37337
ESIC No. : 34-00-009299-000-0908

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QF/LA/10-B

Report Ref. No. : GFL/AS/R/19/09-19 **Report Date: 20.09.2019**

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	10.09.2019	**Sample Description :**	Stack
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AS/R/19/09-19	Limits	Units	Test Method
Stack Attached To	**Boiler Stack**			IS 11255 (Part-3):2008 Reaffirmed 2018
Stack Diameter	1.30		meter	
Stack Height	30		meter	
Fuel used & Consumption	Briquette 20		T/ Day	
Velocity of flue gases	6.34		m/s	
Temperature of flue Gases	122		^0C	
Flow/volume of flue Gases	30291.1		m^3/Hr	
Particulate Matter	55.06	150	mg/Nm^3	IS 11255 (Part I):1985 Reaffirmed - 2014
Sulphur Di Oxide Content	28.49	120	Kg/Day	IS 11255 (Part 2):1985 Reaffirmed - 2014

Sampling carried out using
Stack Monitoring Kit
ID No. GOLDFINCH/INST-STACK/48,49
Calibrated on –16.05.2019
Calibrated due – 15.05.2020

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-B

Report Ref. No. : GFL/AS/R/19/09-20 **Report Date: 20.09.2019**

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	12.09.2019	**Sample Description :**	Stack
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AS/R/19/09-20	Limits	Units	Test Method
Stack Attached To	**DG Stack 1000 KVA**			IS 11255 (Part-3):2008 Reaffirmed 2018
Stack Diameter	0.25		meter	
Stack Height	6.3		meter	
Fuel used & Consumption	Diesel 185		kg/hr	
Velocity of flue gases	8.83		m/s	
Temperature of flue Gases	144		^0C	
Flow/volume of flue Gases	1559.3		m^3/Hr	
Particulate Matter	78.23	150	mg/Nm^3	IS 11255 (Part I):1985 Reaffirmed - 2014
Sulphur Di Oxide Content	1.76	88	Kg/Day	IS 11255 (Part 2):1985 Reaffirmed - 2014

Sampling carried out using
Stack Monitoring Kit
ID No. GOLDFINCH/INST-STACK/48,49
Calibrated on –16.05.2019
Calibrated due – 15.05.2020

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-B

Report Ref. No. : GFL/AS/R/19/09-21 **Report Date: 20.09.2019**

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	11.09.2019	**Sample Description :**	Stack
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AS/R/19/09-21	Limits	Units	Test Method
Stack Attached To	**DG Stack 1010 KVA**			IS 11255 (Part-3):2008 Reaffirmed 2018
Stack Diameter	0.406		meter	
Stack Height	6.3		meter	
Fuel used & Consumption	Diesel 185		kg/hr	
Velocity of flue gases	8.93		m/s	
Temperature of flue Gases	154		^{0}C	
Flow/volume of flue Gases	4159.5		m^3/Hr	
Particulate Matter	42.39	150	mg/Nm^3	IS-11255 (Part-1):1985, Reaffirmed-2014
Sulphur Di Oxide Content	3.13	--	Kg/Day	IS-11255 (Part-2):1985, Reaffirmed-2014

Sampling carried out using
Stack Monitoring Kit
ID No. GOLDFINCH/INST-STACK/48,49
Calibrated on –16.05.2019
Calibrated due – 15.05.2020

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-B

Report Ref. No. : GFL/AS/R/19/09-22 **Report Date: 20.09.2019**

ANALYSIS REPORT FOR STACK EMISSION MONITORING

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	11.09.2019	**Sample Description :**	Stack
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.	GFL/AS/R/19/09-22	Limits	Units	Test Method
Stack Attached To	**DG Stack 500 KVA**			IS 11255 (Part-3):2008 Reaffirmed 2018
Stack Diameter	0.254		meter	
Stack Height	6.3		meter	
Fuel used & Consumption	Diesel 95		kg/hr	
Velocity of flue gases	8.40		m/s	
Temperature of flue Gases	147		^0C	
Flow/volume of flue Gases	1531.3		m^3/Hr	
Particulate Matter	50.63	150	mg/Nm^3	IS-11255 (Part-1):1985, Reaffirmed-2014
Sulphur Di Oxide Content	0.86	45.6	Kg/Day	IS-11255 (Part-2):1985, Reaffirmed-2014

Sampling carried out using
Stack Monitoring Kit
ID No. GOLDFINCH/INST-STACK/48,49
Calibrated on –16.05.2019
Calibrated due – 15.05.2020

For Goldfinch Engineering Systems Private Limited

Analyzed By	Verified By	Approved By
Govt. Analyst	Lab-In-charge	Director-Lab/Govt. Analyst

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QF/LA/10-C

Report Ref. No. : GFL/AN/R/19/09-24 **Report Date: 20.09.2019**

ANALYSIS FOR AMBIENT NOISE MONITORING

Name of the Industry :	**M/s Innovassynth Technologies (India) Ltd. Khopoli.**		
Date of Sampling :	12.09.2019	**Sample Description :**	Noise
Date of Receipt of Sample :	13.09.2019	**Sample Collected by :**	Laboratory
Date of Analysis Started :	14.09.2019	**Date of Analysis Completed :**	20.09.2019

Sample Code No.- GFL/AN/R/19/09-24		**Ambient Noise Level**		**Test Method**
Sr. No	**Location**	**Day dB**	**Night dB**	
1.	Near Main Gate	62.0	59.4	IS 9989-1981 Reaffirmed 2014
2.	Near Utility/ PP3,4,5	70.9	67.0	
3.	Near PP1,PP2	71.7	67.0	
4.	MPP Ground Floor	66.7	60.9	
5.	MPP 1st Floor	65.9	62.0	
6.	MPP 2nd Floor	66.3	65.9	
7.	DG ON	72.9	64.4	
8	PP1 Ground Floor	67.0	67.0	
9	PP1 1st Floor	66.7	62.0	
10	PP3/4/5 Ground Floor	67.9	67.0	
11	PP3/4/5 1st Floor	67.0	65.9	
12	DG (Near Boiler)	67.9	67.0	
13	Near Boiler	67.9	67.0	
14	Near PP6	66.3	65.9	
	M.P.C.B. LIMIT	**75**	**70**	

Survey carried out using dB meter
ID No. GOLDFINCH/INST-DB METER/32
Calibrated On: 09.02.2019
Calibration due: 08.02.2020

For Goldfinch Engineering Systems Private Limited

Analyzed By	**Verified By**	**Approved By**
Utekar		
Govt. Analyst	**Lab-In-charge**	**Director-Lab/Govt. Analyst**