DELTA FINOCHEM PVT. LTD.

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Factory : Gat No.-350, Village Wadivarhe, Tal. Igatpuri, Dist. Nashik - 422 403. M.S. (India)
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● deltafinochem@gmail.com ● **Web** : deltafinochem.in ● **CIN** : U24100MH2000PTC123980

Geotek Global Certification Pvt. Ltd.
imab International Management Accreditation Board
ISO 9001 - 2008 Organization

Date: 14.01.2019

To,
Shri. Kanwarjit Singh. IFS
Additional Principal Chief Conservator of Forests(C)
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building Civil Lines,
Nagpur
Mob.9440810026
Tel No. 0712 2531918

Reference - E.C. copy DT 31st March 2015.

Sub: Submission of Six monthly E.C. compliance report for period July 2018 To December 2018.

Respected Sir,

Enclosed please find six monthly E.C compliance report for your perusal. In compliance of condition number- general condition of the E.C.

Thanking You,
You're faithfully

Delta Finochem Pvt Ltd

SIX-MONTHLY ENVIRONMENTAL COMPLIANCE REPORT

(July 2018 to December 2018)

FOR SUBMISSION TO:

MINISTRY OF ENVIRONMENT AND FORESTS (MOEF)

SUBMITTED BY:

M/S. DELTA FINOCHEM PVT LTD

GAT NO. 350 VILLAGE WADIWARHE, TAL IGATPURI, DIST NASHIK -422403

Conditions of Environmental Clearance	Status of Compliance
Adequate stack height shall be provided to furnace oil fired boiler as per CPCB/MPCB guidelines and continuous real time online emission monitoring system will be installed.	The stack height of the furnace oil fired boiler is as per CPCB/MPCB norms and it is continuously monitored manually.
As proposed, scrubber shall be provided to control process emissions viz. HCI and Bromine. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintain& properly. At no time, the emission levels shall go beyond the prescribed standards	The scrubber lines are provided wherever necessary and the scrubbing media is sent to ETP regularly. Efficiency of the scrubbers is monitored and scrubbers are maintained in proper condition. The emission levels are checked from time to time. A copy of the emission report is enclosed herewith. (Exhibit 'A')
Ambient air quality data shall be collected as per NAAEQS standards notified by the Ministry vide G.S.R.No.826 (E) dated 18mSeptember, 2009. The levels of PM 10: S02 NOX, VOC, CO and HCI shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Maharashtra Pollution Control Board (MPCB).	Ambient air quality is being monitored on regular basis. Copy of the same is enclosed as(Exhibit 'B'). Results of the same are being displayed on main gate .Copy of these results are shared with Regional office of MOEF, the respective zonal office of CPCB and Maharashtra Pollution Control Board (MPCB).

In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, _raw materials storage area etc. shall be. Regularly monitored. The emissions shall conform to the limits stipulated by the MPCB.	In order to control fugitive emissions, materials / chemicals are handled in closed system. Suitable dust collectors are provided in required areas. All emissions are within limits of MPCB. (Exhibit 'C')
For further control of fugitive emissions, following steps shall be followed : 1. Closed handling system shall be provided for chemicals. 2. Reflux condenser shall be provided over reactor. 3. System of leak detection and repair of pump/pipeline based on preventive Maintenance. 4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. 5. Cathodic protection shall be provided to the underground solvent storage tanks.	We have closed systems for handling of chemicals i.e. storage tanks with pumps and pipelines. Condensers are provided on each reactor. We have preventive maintainance schedule for all the equipments installed. Complied. Cathodic protection is provided to the underground solvent storage tanks
The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	The gaseous emissions from DG set are dispersed through as per CPCB standards. Stack height is 7 meters. Acoustic enclosure is provided to the DG sets to mitigate the noise pollution

Solvent management shall be carried out as follows : I. Reactor shall be connected to chilled brine condenser system. II. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. III. The condensers shall be provided with sufficient HTA and residence times to achieve more than 95% recovery. IV. Solvents shall be stored in a separate space specified with all safety measures	Complied.
Proper earthling shall be provided in all the electrical equipment wherever solvent handling is done.	Proper earthling is provided in all the electrical equipment wherever solvent handling is done.
Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Entire plant is flame proof. The solvent storage tanks provided with breather valve to prevent losses.
All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Complied.
Total fresh water requirement from tanker supply shall not exceed 40 m3/day. No ground water shall be used.	Total fresh water requirement from tanker supply does exceed 40 m3/day.
Industrial effluent generation shall not exceed 15m3per day as measured by continuous & real time online effluent monitoring system and treated in ETP and then passed through RO system. Sewage will be treated in STP. 'Zero' effluent discharge should be adopted and no effluent will be discharged outside the premises, Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, Solvent transfer shall be by pumps. As proposed, process organic residue and spent carbon shall be sent to cement industries. ETP sludge and process inorganic shall be disposed off to the CHWTSDF.	We have adopted a zero discharge system. Hence real time & continuous on line monitoring system is not installed. Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided on tank farm, Solvent transfer is done by pumps. Over and above, we have also installed a lightening arrester on top of the terrace. The process organic residue and spent carbon and ETP sludge is

	sent to CHWTSDF authorized by MPCB.
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.	Complied.
The company shall undertake following waste minimization measures a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw material so 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 vapor recovery system. f. Use of high pressure hoses for equipment clearing to reduce waste water generation.	Metering and control of active ingredients is done wherever required. Reuse of by-products from the process as raw material so raw material substitutes in other processes shall be carried out wherever possible. Sub items 'c' to 'f' are observed on regular basis.
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.	Adequate fire fighting system has been provided.
At least 5 % of the total cost of the project shall be earmarked towards the Enterprise social responsibility 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 Bhopal. Implementation of such program shall be ensured accordingly in a time bound mariner.	CSR activity shall be carried out as per requirements of the people residing in and around nearby villages.
As proposed green belt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the project area do inward direction and along road sides etc. Selection of plant	Complied.
The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to being into focus any	Corporate environment policy done.

infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance /violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	The standard operating procedures have being prepared and maintained. Non compliance report shall be prepared for the knowledge of stakeholders as and when required.
Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Shall be complied as and when required.
No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal 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 environmental protection measures required, if any.	Shall be complied as and when required.
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 stations is installed in the upwind and downwind direction as well as where maximum ground level-concentrations are-anticipated :	Complied.
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	Complied. The necessary tests are regularly done on quarterly

conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	basis. (Exhibit 'D')
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.	Complied.
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 regulation. Training to all employees' oil handling of chemicals shall be imparted.	The training on safety and health is ongoing process. For pre employment medical checkup the company has a tie with registered Hospital, all the employees have been physically and medically checked up every year. Chemical handling training is being imparted to the concerned employees from time to time.
Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.	PPE like , hand-gloves, face mask, acid-alkali proof boots , aprons etc are provided to all the employees working on the shop-floor. Register of PPE'S issue are maintained.
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 environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Implemented.
The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	CSR activity shall be carried out as per requirements of the people residing in and around nearby villages.
The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Covered under CSR activity.

A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Laboratory facility is already available with us.
As proposed, the company shall earmark sufficient funds toward capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein, The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose	Adequate funds shall be provide as and when required.
A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	Such suggestions / representations shall be taken into account as and when received.
The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF. The respective Zonal Office of CPCB and the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied.
The environmental statement for each financial year ending 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	The environmental statement for each financial year ending is submitted to the Maharashtra State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended.

compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	
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 seen at Website of the Ministry at This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	The public at large has been informed regarding receipt of the Environmental clearance from the Ministry and the copy of the EC has been published in two widely circulated local newspapers, one in local language.
The project authorities 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 and the date of start of the project.	Complied.

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Ashwamedh
Engineers & Consultants.
Laboratory Services Division

STACK EMISSION MONITORING REPORT

Sample / Report No.	SA/12/18/1519	Report Date	17/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Process Stack Emissions
Sample Quantity/Packing	HCl : 30 ml x 1 no. plastic bottle NH_3: 30 ml x 1 no. plastic bottle	Date - Sampling	13/12/2018
		Date - Receipt of Sample	13/12/2018
Sampling Procedure	IS 11255 (Part 3):2008	Date - Start of Analysis	13/12/2018
Order Reference	Verbal Discussion	Date -Completion of Analysis	15/12/2018

Stack Details	
Stack No.	**Scrubber No 1**
Stack attached to	Reactor 'A' Block
Material of construction	FRP
Stack height above ground level	10 m
Stack diameter	0.25 m
Stack shape at top	Round
Type of fuel	-
Fuel Consumption	-
Flue gas Temperature	33 °C
Flue gas Velocity	6.25 m/s
Total gas Quantity	1074 Nm^3/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Acid Mist (as HCl)	**10.3**	35	mg/Nm^3	By Titrimetric Method
Ammonia (NH_3)	**BDL (DL 0.6)**	-	mg/Nm^3	USEPA 846/13 A

BDL : Below Detection Limit

[redacted]

Ninad Soundankar
Technical Manager (Chemical)
AUTHORISED SIGNATORY

Ashwamedh Engineers & Consultants

End of Report

Note:
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2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. Perishable samples will be disposed immediately after report dispatch.
4. Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.

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Laboratory Services Division

STACK EMISSION MONITORING REPORT

Sample / Report No.	SA/12/18/1520	Report Date	17/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Process Stack Emissions
Sample Quantity/Packing	HCl : 30 ml x 1 no. plastic bottle NH_3: 30 ml x 1 no. plastic bottle	Date - Sampling	13/12/2018
		Date - Receipt of Sample	13/12/2018
Sampling Procedure	IS 11255 (Part 3):2008	Date - Start of Analysis	13/12/2018
Order Reference	Verbal Discussion	Date -Completion of Analysis	15/12/2018

Stack Details				
Stack No.	**Scrubber No 2**			
Stack attached to	Reactor 'B' Block			
Material of construction	FRP			
Stack height above ground level	10 m			
Stack diameter	0.25 m			
Stack shape at top	Round			
Type of fuel	-			
Fuel Consumption	-			
Flue gas Temperature	34 °C			
Flue gas Velocity	6.5 m/s			
Total gas Quantity	1113 Nm^3/h			
Parameter	**Result**	**Limits as per MPCB Consent**	**Unit**	**Method**
Acid Mist (as HCl)	**9.54**	35	mg/Nm^3	By Titrimetric Method
Ammonia (NH_3)	**BDL (DL 0.6)**	-	mg/Nm^3	USEPA 846/13 A

BDL : Below Detection Limit

Ninad Soundankar
Technical Manager (Chemical)
AUTHORISED SIGNATORY

Ashwamedh Engineers & Consultants

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Laboratory Services Division

STACK EMISSION MONITORING REPORT

Sample / Report No.	SA/12/18/1521	Report Date	17/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Process Stack Emissions
Sample Quantity/Packing	HCl : 30 ml x 1 no. plastic bottle NH_3: 30 ml x 1 no. plastic bottle	Date - Sampling	13/12/2018
		Date - Receipt of Sample	13/12/2018
Sampling Procedure	IS 11255 (Part 3):2008	Date - Start of Analysis	13/12/2018
Order Reference	Verbal Discussion	Date -Completion of Analysis	15/12/2018

Stack Details				
Stack No.	**Scrubber No 3**			
Stack attached to	Reactor 'C' Block			
Material of construction	FRP			
Stack height above ground level	10 m			
Stack diameter	0.25 m			
Stack shape at top	Round			
Type of fuel	-			
Fuel Consumption	-			
Flue gas Temperature	31 °C			
Flue gas Velocity	7.5 m/s			
Total gas Quantity	1284 Nm^3/h			
Parameter	**Result**	**Limits as per MPCB Consent**	**Unit**	**Method**
Acid Mist (as HCl)	**9.67**	35	mg/Nm^3	By Titrimetric Method
Ammonia (NH_3)	**BDL (DL 0.6)**	-	mg/Nm^3	USEPA 846/13 A

BDL : Below Detection Limit

Ninad Soundankar
Technical Manager (Chemical)
AUTHORISED SIGNATORY

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Laboratory Services Division

STACK EMISSION MONITORING REPORT

Sample / Report No.	SA/12/18/1517	Report Date	17/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Stack Emissions
Sample Quantity/Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle CO_2:1 no tadler bag	Date - Sampling	13/12/2018
		Date - Receipt of Sample	13/12/2018
Sampling Procedure	IS 11255 (Part 1):1985, Reaffirmed 2003, (Part 2): 1985, Reaffirmed 2003, (Part 3): 2008, (Part 7): 2005	Date - Start of Analysis	13/12/2018
Order Reference	Verbal Discussion	Date -Completion of Analysis	16/12/2018

Stack Details				
Stack No.	**Boiler Stack**			
Stack attached to	Boiler Stack No. 1 (MR-14868)			
Material of construction	MS			
Stack height above ground level	30 m			
Stack diameter	0.38 m			
Stack shape at top	Round			
Type of fuel	FO			
Fuel Consumption	400 kg/d			
Flue gas Temperature	127 °C			
Flue gas Velocity	8.16 m/s			
Total gas Quantity	2473 Nm^3/h			
Parameter	**Result**	**Limits as per MPCB Consent**	**Unit**	**Method**
Particulate Matter (PM) (12% CO_2 Correction)	**77**	150	mg/Nm^3	IS 11255 (Part 1):1985, Reaffirmed 2003
Sulphur Dioxide (SO_2)	**6.48**	-	mg/Nm^3	IS 11255 (Part 2): 1985, Reaffirmed 2003
	0.41	78.75	Kg/d	
Oxides of Nitrogen (NO_2)	**27**	-	mg/Nm^3	IS 11255 (Part 7): 2005

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End of Report

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STACK EMISSION MONITORING REPORT

Sample / Report No.	SA/12/18/1518	Report Date	17/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Stack Emissions
Sample Quantity/Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle CO_2:1 no tadler bag	Date - Sampling	13/12/2018
		Date - Receipt of Sample	13/12/2018
Sampling Procedure	IS 11255 (Part 1):1985, Reaffirmed 2003, (Part 2): 1985, Reaffirmed 2003, (Part 3): 2008, (Part 7): 2005	Date - Start of Analysis	13/12/2018
Order Reference	Verbal Discussion	Date -Completion of Analysis	16/12/2018

Stack Details				
Stack No.	**DG Stack**			
Stack attached to	DG Set 550 KVA			
Material of construction	MS			
Stack height above ground level	7 m			
Stack diameter	0.028 m			
Stack shape at top	Round			
Type of fuel	Diesel			
Fuel Consumption	50 L/h			
Flue gas Temperature	97 °C			
Flue gas Velocity	9.25 m/s			
Total gas Quantity	751 Nm^3/h			
Parameter	**Result**	**Limits as per MPCB Consent**	**Unit**	**Method**
Particulate Matter (PM)	**12**	150	mg/Nm^3	IS 11255 (Part 1):1985, Reaffirmed 2003
Sulphur Dioxide (SO_2)	**1.48**	-	mg/Nm^3	IS 11255 (Part 2): 1985, Reaffirmed 2003
	0.13	7.2	Kg/d	
Oxides of Nitrogen (NO_2)	**23**	-	mg/Nm^3	IS 11255 (Part 7): 2005

Ninad Soundankar
Technical Manager (Chemical)
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End of Report

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Ashwamedh Engineers & Consultants
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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	AA/12/18/1514	Report Date	19/12/2018
Name & Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	**Near Main Gate**	Date-Sampling	14/12/2018 to 15/12/2018
Sample Quantity/ Packing	PM_{10}, Bap, Metals: 1 x 3 no. filter paper $PM_{2.5}$:1x 1 no. filter paper SO_2, NO_2: 30 ml x 6 no. plastic bottle each NH_3: 30 ml x 24 no. plastic bottle Ozone: 30 ml x 1 no. plastic bottle C_6H_6: 30 x 6 no. charcoal tubes CO: 1 x 1 no. tedlar bag	Date-Receipt of Sample	15/12/2018
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/12/2018
Order Reference	Verbal discussion	Date-Completion of Analysis	18/12/2018

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
1.2 km/h	NE – SW	(Max./Min.):51/28%	(Max./Min.): 28/16°C	24 h

Parameter	Result	NAAQS # 2009	Unit	Method
Sulphur Dioxide (SO_2)	**5.85**	80	µg/m³	IS 5182 (Part 2): 2001 ,Reaffirmed 2006, WI/SAP-AA/5/2,
Nitrogen Dioxide (NO_2)	**6.87**	80	µg/m³	IS 5182 (Part 6): 2006, WI/SAP-AA/5/3
Particulate Matter (size less than 10 µm) or PM_{10}	**74**	100	µg/m³	IS 5182 (Part 23): 2006, WI/SAP-AA/5/1
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**24**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no. 15, WI/SAP-AA/5/1,
Ozone (O_3)	**BDL (DL:19.6)**	180	µg/m³	AWMA,3rd Ed., Method 411,Page no. 403,1988, WI/SAP-AA/5/9
Lead (Pb)	**BDL (DL:0.02)**	1	µg/m³	IS 5182 (Part 22): 2004, Reaffirmed 2009, WI/SAP-AA/5/17
Carbon Monoxide (CO)	**1.05**	4	mg/m³	CPCB Guidelines, Volume I, 37/2012-13,Page no.16 WI/SAP-AA/5/17
Ammonia (NH_3)	**BDL (DL:4)**	400	µg/m³	AWMA,3rd Ed., Method 401, Page no.35,1988, WI/SAP-AA/5/6
Benzene (C_6H_6)	**1.75**	5	µg/m³	IS 5182 (Part 11) : 2006, Reaffirmed 2009, WI/SAP-GC/5/6
Benzo (a) Pyrene (BaP) - particulate phase only	**BDL (DL:0.2)**	1	ng/m³	IS 5182 (Part 12) : 2004, Reaffirmed 2009, WI/SAP-GC/5/7
Arsenic (As)	**BDL (DL:0.3)**	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17
Nickel (Ni)	**BDL (DL:3)**	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17

BDL Below Detection Limit DL: Detection Limit
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	AA/12/18/1515	Report Date	19/12/2018
Name & Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	**Near ETP**	Date-Sampling	14/12/2018 to 15/12/2018
Sample Quantity/ Packing	PM_{10}, Bap, Metals: 1 x 3 no. filter paper $PM_{2.5}$: 1x 1 no. filter paper SO_2, NO_2: 30 ml x 6 no. plastic bottle each NH_3: 30 ml x 24 no. plastic bottle Ozone: 30 ml x 1 no. plastic bottle C_6H_6: 30 x 6 no. charcoal tubes CO: 1 x 1 no. tedlar bag	Date-Receipt of Sample	15/12/2018
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/12/2018
Order Reference	Verbal discussion	Date-Completion of Analysis	18/12/2018

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
1.2 km/h	NE – SW	(Max./Min.):51/28%	(Max./Min.): 28/16°C	24 h

Parameter	Result	NAAQS # 2009	Unit	Method
Sulphur Dioxide (SO_2)	**6.05**	80	µg/m³	IS 5182 (Part 2): 2001 ,Reaffirmed 2006, WI/SAP-AA/5/2,
Nitrogen Dioxide (NO_2)	**6.89**	80	µg/m³	IS 5182 (Part 6): 2006, WI/SAP-AA/5/3
Particulate Matter (size less than 10 µm) or PM_{10}	**77**	100	µg/m³	IS 5182 (Part 23): 2006, WI/SAP-AA/5/1
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**27**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no. 15, WI/SAP-AA/5/1,
Ozone (O_3)	**BDL (DL:19.6)**	180	µg/m³	AWMA,3rd Ed., Method 411,Page no. 403,1988, WI/SAP-AA/5/9
Lead (Pb)	**BDL (DL:0.02)**	1	µg/m³	IS 5182 (Part 22): 2004, Reaffirmed 2009, WI/SAP-AA/5/17
Carbon Monoxide (CO)	**1.25**	4	mg/m³	CPCB Guidelines, Volume I, 37/2012-13,Page no.16 WI/SAP-AA/5/17
Ammonia (NH_3)	**BDL (DL:4)**	400	µg/m³	AWMA,3rd Ed., Method 401, Page no.35,1988, WI/SAP-AA/5/6
Benzene (C_6H_6)	**1.79**	5	µg/m³	IS 5182 (Part 11) : 2006, Reaffirmed 2009, WI/SAP-GC/5/6
Benzo (a) Pyrene (BaP) - particulate phase only	**BDL (DL:0.2)**	1	ng/m³	IS 5182 (Part 12) : 2004, Reaffirmed 2009, WI/SAP-GC/5/7
Arsenic (As)	**BDL (DL:0.3)**	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17
Nickel (Ni)	**BDL (DL:3)**	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17

BDL Below Detection Limit DL:Detection Limit
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	AA/12/18/1516	Report Date	19/12/2018
Name & Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	**Near Production 'B' Block**	Date-Sampling	14/12/2018 to 15/12/2018
Sample Quantity/ Packing	PM_{10}, Bap, Metals: 1 x 3 no. filter paper $PM_{2.5}$:1x 1 no. filter paper SO_2, NO_2: 30 ml x 6 no. plastic bottle each NH_3: 30 ml x 24 no. plastic bottle Ozone: 30 ml x 1 no. plastic bottle C_6H_6: 30 x 6 no. charcoal tubes CO: 1 x 1 no. tedlar bag	Date-Receipt of Sample	15/12/2018
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/12/2018
Order Reference	Verbal discussion	Date-Completion of Analysis	18/12/2018

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
1.2 km/h	NE – SW	(Max./Min.):51/28%	(Max./Min.): 28/16°C	24 h

Parameter	Result	NAAQS # 2009	Unit	Method
Sulphur Dioxide (SO_2)	**6.85**	80	µg/m³	IS 5182 (Part 2): 2001 ,Reaffirmed 2006, WI/SAP-AA/5/2,
Nitrogen Dioxide (NO_2)	**7.89**	80	µg/m³	IS 5182 (Part 6): 2006, WI/SAP-AA/5/3
Particulate Matter (size less than 10 µm) or PM_{10}	**83**	100	µg/m³	IS 5182 (Part 23): 2006, WI/SAP-AA/5/1
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**32**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no. 15, WI/SAP-AA/5/1,
Ozone (O_3)	**BDL (DL:19.6)**	180	µg/m³	AWMA,3rd Ed., Method 411,Page no. 403,1988, WI/SAP-AA/5/9
Lead (Pb)	**BDL (DL:0.02)**	1	µg/m³	IS 5182 (Part 22): 2004, Reaffirmed 2009, WI/SAP-AA/5/17
Carbon Monoxide (CO)	**1.63**	4	mg/m³	CPCB Guidelines, Volume I, 37/2012-13,Page no.16 WI/SAP-AA/5/17
Ammonia (NH_3)	**BDL (DL:4)**	400	µg/m³	AWMA,3rd Ed., Method 401, Page no.35,1988, WI/SAP-AA/5/6
Benzene (C_6H_6)	**2.38**	5	µg/m³	IS 5182 (Part 11) : 2006, Reaffirmed 2009, WI/SAP-GC/5/6
Benzo (a) Pyrene (BaP) - particulate phase only	**BDL (DL:0.2)**	1	ng/m³	IS 5182 (Part 12) : 2004, Reaffirmed 2009, WI/SAP-GC/5/7
Arsenic (As)	**BDL (DL:0.3)**	6	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17
Nickel (Ni)	**BDL (DL:3)**	20	ng/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2, Jun 1999, WI/SAP-AA/5/17

BDL Below Detection Limit DL:Detection Limit
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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WORK ROOM ENVIRONMENT MONITORING REPORT

Sample / Report No.	WR/12/18/1536	Report Date	22/12/2018
Name and Address of Customer	**Delta Finochem Pvt Ltd** Gat No. 350, Village-Wadiwarhe Tal-Igatpuri, Dist. Nashik-422 403	Order Reference: Verbal Discussion	
Sample Collected by	Laboratory	Sample Description / Type	Work Room Environment
Sampling Location	**Store (Loading & Unloading Area)**	Date - Sampling	14/12/2018
Sampling Quantity/Packing	RSPM, SPM : 1 no. filter paper & 1 no. zip bag VOC : 1 no. Charcoal tube	Date - Receipt of Sample	14/12/2018
Sampling Procedure	As per Method Reference	Date - Start of Analysis	15/12/2018
Duration of Sampling	8 h	Date - Completion of Analysis	22/12/2018

Parameter	Result	Limits as Per Second Schedule of Factories Act/OSHA# TWA (8 h)	Unit	Method
Respirable Particulate Matter (RPM)	**0.08**	5#	mg/m^3	NIOSH 0500
Suspended Particulate Matter (SPM)	**0.05**	15#	mg/m^3	NIOSH 0500
Methylene Chloride	**ND**	-	mg/m^3	NIOSH 1001
Toluene	**BDL (DL:0.1)**	375#	mg/m^3	NIOSH 1501
Methanol	**ND**	260#	mg/m^3	NIOSH 2000

ND: Not Detected
BDL : Below Detection Limit, DL : Detection Limit
TWA: Time Weighted Average

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WORK ROOM ENVIRONMENT MONITORING REPORT

Sample / Report No.	WR/12/18/1535	Report Date	22/12/2018
Name and Address of Customer	**Delta Finochem Pvt Ltd** Gat No. 350, Village-Wadiwarhe Tal-Igatpuri, Dist. Nashik-422 403	Order Reference: Verbal Discussion	
Sample Collected by	Laboratory	Sample Description / Type	Work Room Environment
Sampling Location	**Manufacturing (Loading & Unloading Area)**	Date - Sampling	14/12/2018
Sampling Quantity/Packing	RSPM, SPM : 1 no. filter paper & 1 no. zip bag VOC : 1 no. Charcoal tube	Date - Receipt of Sample	14/12/2018
Sampling Procedure	As per Method Reference	Date - Start of Analysis	15/12/2018
Duration of Sampling	8 h	Date - Completion of Analysis	22/12/2018

Parameter	Result	Limits as Per Second Schedule of Factories Act/OSHA# TWA (8 h)	Unit	Method
Respirable Particulate Matter (RPM)	**0.17**	5#	mg/m^3	NIOSH 0500
Suspended Particulate Matter (SPM)	**0.20**	15#	mg/m^3	NIOSH 0500
Methylene Chloride	**ND**	-	mg/m^3	NIOSH 1001
Toluene	**BDL (DL:0.1)**	375#	mg/m^3	NIOSH 1501
Methanol	**ND**	260#	mg/m^3	NIOSH 2000

ND: Not Detected
BDL : Below Detection Limit, DL : Detection Limit
TWA: Time Weighted Average

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WORK ROOM ENVIRONMENT MONITORING REPORT

Sample / Report No.	WR/12/18/1534	Report Date	22/12/2018
Name and Address of Customer	**Delta Finochem Pvt Ltd** Gat No. 350, Village-Wadiwarhe Tal-Igatpuri, Dist. Nashik-422 403	Order Reference: Verbal Discussion	
Sample Collected by	Laboratory	Sample Description / Type	Work Room Environment
Sampling Location	**Tank Foam Area**	Date - Sampling	14/12/2018
Sampling Quantity/Packing	VOC : 1 no. Charcoal tube	Date - Receipt of Sample	14/12/2018
Sampling Procedure	As per Method Reference	Date - Start of Analysis	15/12/2018
Duration of Sampling	8 h	Date - Completion of Analysis	22/12/2018

Parameter	Result	Limits as Per Second Schedule of Factories Act/OSHA# TWA (8 h)	Unit	Method
Methylene Chloride	**ND**	-	mg/m^3	NIOSH 1001
Toluene	**BDL (DL:0.1)**	375#	mg/m^3	NIOSH 1501
Methanol	**ND**	260#	mg/m^3	NIOSH 2000

ND: Not Detected
BDL : Below Detection Limit, DL : Detection Limit
TWA: Time Weighted Average

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NOISE LEVEL MEASUREMENT REPORT

Sample / Report No.	N/12/18/04	Report Date	15/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403		
Monitoring Done By	Laboratory	Sample Description /Type	**Ambient Noise**
Order Reference	Verbal discussion	Date-Monitoring	14/12/2018

Sr. No.	Location	Time (h)	Results Noise Level dB (A) Fast Response	Method
1.	Near Main Gate	1115	51	IS 9876: 1981, CPCB Protocol for Ambient Level Noise Monitoring, July 2015 & Manufacturer Manual, WI/S/5/35 & 36,Issue No.3, Issue date 01.09.2016
		2030	45	
2.	Near Production Block	1120	62	
		2035	47	
3.	Maintenance Department	1125	70	
		2040	62	
4.	Near Tank Farm	1130	62	
		2045	54	

Limit

As Per the Noise Pollution (Regulation & Control) Rules , 2000 (Rules 3 (1) and 4(1)

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

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TEST REPORT

Sample / Report No.	E/12/18/1560	Report Date	20/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date -Sampling	13/12/2018
Sample Quantity/Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date -Receipt of Sample	14/12/2018
Sampling Procedure	IS 3025 (part 1): 1987, RA 1998, Amds. 1 & APHA, 22nd Ed.2012,1060 B, 1-39	Date -Start of Analysis	14/12/2018
Order Reference	Verbal discussion	Date -Completion of Analysis	19/12/2018

Sr. No.	Parameter	Result	Unit	Method
1	pH	**8.15**	-	IS 3025 (Part 11):1983, Reaffirmed 2006
2	Total Suspended Solids	**118**	mg/L	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
3	Biochemical Oxygen Demand (3 days, 27°C)	**1440**	mg/L	IS 3025 (Part 44): 1993, Reaffirmed 2009, Amds.1
4	Chemical Oxygen Demand	**15818**	mg/L	APHA, 22nd Ed., 2012, 5220-B, 5-17
5	Oil & Grease	**BDL (DL:1)**	mg/L	APHA, 22nd Ed., 2012, 5520-B, 5-40
6	Total Dissolved Solids	**2970**	mg/L	IS 3025(Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
7	Chloride (as Cl)	**374**	mg/L	IS 3025 (Part 32):1988, Reaffirmed 2009
8	Sulphate (as SO_4)	**63.5**	mg/L	IS 3025 (Part 24): 1986, Reaffirmed 2009

BDL: Below Detection Limit DL: Detection Limit

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TEST REPORT

Sample / Report No.	E/12/18/1561	Report Date	20/12/2018
Name and Address of Customer	**Delta Finochem Pvt. Ltd.** Gat No. 350, Village-Wadiwarhe, Tal. Igatpuri, Dist. Nashik 422403 Maharastra		
Sample Collected by	Laboratory	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date -Sampling	13/12/2018
Sample Quantity/Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date -Receipt of Sample	14/12/2018
Sampling Procedure	IS 3025 (part 1): 1987, RA 1998, Amds. 1 & APHA, 22nd Ed.2012,1060 D, 1-39	Date -Start of Analysis	14/12/2018
Order Reference	Verbal discussion	Date -Completion of Analysis	19/12/2018

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
1	pH	**7.32**	5.5-9.0	-	IS 3025 (Part 11):1983, Reaffirmed 2006
2	Total Suspended Solids	**12**	Not to exceed 100	mg/L	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
3	Biochemical Oxygen Demand (3 days, 27°C)	**14**	Not to exceed 30	mg/L	IS 3025 (Part 44): 1993, Reaffirmed 2009, Amds.1
4	Chemical Oxygen Demand	**92**	Not to exceed 250	mg/L	APHA, 22nd Ed., 2012, 5220-B, 5-17
5	Oil & Grease	**BDL (DL:1)**	Not to exceed 10	mg/L	APHA, 22nd Ed., 2012, 5520-B, 5-40
6	Total Dissolved Solids	**301**	Not to exceed 2100	mg/L	IS 3025(Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
7	Chloride (as Cl)	**18.5**	Not to exceed 600	mg/L	IS 3025 (Part 32):1988, Reaffirmed 2009
8	Sulphate (as SO_4)	**6.65**	Not to exceed 1000	mg/L	IS 3025 (Part 24): 1986, Reaffirmed 2009

BDL: Below Detection Limit DL: Detection Limit

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