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**Progressive
Fertichem (P) Ltd.**
(Chemicals & Fertilisers Division)
ISO 9001, ISO 14001 and ISO 45001 CERTIFIED



**PROGRESSIVE FERTICHEM (P) LTD.
TOPATOLI, DIST-KAMRUP (METRO), ASSAM**

**COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OCT'2022 TO MARCH'2023
F. No. J-11011/1131/2007-IA (II)**

PART-A: SPECIFIC CONDITIONS

I. CONSTRUCTION PHASE

SN.	EC CONDITIONS	COMPLIANCE STATUS
(i)	The company shall run the plant with high efficiency DCDA method to achieve SO ₂ emissions less than 1.5 kg/MT of Sulphuric acid production. The monitoring arrangement shall be made and regular monitoring shall be done to ensure the prescribed limits.	DCDA method is used for increasing production of high grade of sulfuric acid production. Environmental monitoring is being carried out regularly. Monitoring values are within the prescribed limit. Monitoring reports are enclosed as Annexure-I .
(ii)	Fluoride emissions from Single Super Phosphate Fertilizer Plant shall not exceed 25 mg/Nm ³ . Monitoring of HF shall be carried out along with other parameters and data submitted to the Ministry's Regional Office at Shillong six monthly and Assam SPCB quarterly along with statistical analysis.	Emission of Fluoride, HF from Single Super Phosphate Fertilizer Plant is being monitored regularly and monitoring reports are referred as Annexure-I . Six monthly EC compliance & monitoring reports are regularly submitted to the MoEF Guwahati, CPCB Zonal office & SPCB, Assam.
(iii)	The process emissions and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Process emission & Particulate matter emissions from various processes are reduced using bag filter & scrubber. Pollution control devices are installed in such a way that the emission level does not go beyond the stipulated standards. Monitoring is done regularly as per norms of CPCB. Monitoring reports are referred as Annexure-I . Automatic shut down process is being adopted in case of failure of any pollution control devices.
(iv)	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by Assam SPCB.	Fugitive emissions in different locations are being monitored regularly. Monitoring Reports are referred as Annexure-I .

CONTD/2



SN.	EC CONDITIONS	COMPLIANCE STATUS
(v)	Total ground water requirement shall not exceed 100m ³ /day and prior permission shall be obtained from SGWB/CGWB. No effluent will be discharged and "Zero" effluent discharge will be adopted. The company shall submit the copy of permission of water drawl to Ministry's Regional Office at Shillong within 3 months.	Our present total requirement of ground water is enhanced to 130m ³ /per day. We have got NOC from CGWA for withdrawal of ground water vide NOC no- CGWA/NOC/IND/REN/2/2023/7838 Dated-12/05/2023.
(vi)	Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal site should be periodically monitored and reports submitted to Ministry's Regional Office at Shillong, CPCB and Assam SPCB.	Ground water quality in and around the plant being monitored periodically. We have installed piezometric well also. Monitoring reports referred as Annexure-II .
(vii)	Solid waste from the SSP plant shall be recycled and reused as filler material in the SSP plant. Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use.	Solid waste generated from SSP plant are recycled and reused in the plant. Gypsum is not produced in our plant.
(viii)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Fertilizer sector shall be strictly implemented.	All the recommendations made in CREP are implemented and followed. CREP report referred as Annexure-III .
(ix)	The company shall develop the green belt in at least 33% land area to mitigate the effect of fugitive emissions and noise as per the guidelines of CPCB.	Green belt is developed around the periphery of the plant as per guidelines of CPCB.
(x)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health of the workers is checked on regular basis and records are maintained as per the Factories Act.
(xi)	During transfer of materials spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	During transfer of material necessary precaution is adopted so that no spillages are occurred. Materials are transfer in covered vehicles.
(xii)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	All safety measures are taken to avoid any fire hazards during manufacturing process in material handling.

CONTD/3



B. GENERAL CONDITIONS:

SN.	EC CONDITIONS	COMPLIANCE STATUS
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/State Government or any statutory body.	We strictly follow all the stipulation made by PCB Assam.
ii)	The gaseous emissions (SO ₂ , SO ₃ , NO _x , NH ₃ , F, fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.	Gaseous emission for the parameters SO ₂ , SO ₃ , NO _x , NH ₃ , F and fertilizer dust are being monitored regularly. Monitoring reports are enclosed vide Annexure-I . Reports are regularly submitted to the Ministry's Regional office, Guwahati, CPCB Shillong and Pollution Control Board Assam.
iii)	All the waste waters generated from the various processes shall be recycled/reuse in the plant and zero discharge shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	Being a "dry unit" waste water is not generated in the manufacturing process. However domestic waste generated is being treated and reused in the manufacturing process of SSP Fertilizer and green belt development.
iv)	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.	Point is noted. Expansion and modifications will be carried out on prior approval of Ministry.
v)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	On site Emergency plan and standing instruction is given to the concerned officers to suspend operation in the event of failure of pollution control devices. Operation is restarted after the desired rectifications made.



vi)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Ambient air quality monitoring locations are installed in consultation with state Pollution Control Board. Ambient air quality being monitored regularly. Data on ambient air quality is referred as Annexure-I .
vii)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	As per the CPCB guidelines we have installed stack appropriate height and Scrubbers. Scrubbed water is reused in the process. Waste water is not generated in the process.
viii)	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N ₂ blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.	We don't have any pressurized storage tank. Captive production of Sulphuric Acid is kept in storage tank guarded by concrete guard wall.
ix)	<p>The company shall undertake following Waste Minimization measures.</p> <ul style="list-style-type: none"> • Metering and control of qualities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of automated filling to minimize spillage. • Use of "Closed Feed" system into batch reactors. • Venting equipment through vapour recovery system. • Use of high pressure hoses for equipment cleaning to reduce wastewater generation. 	Necessary waste minimization measures as specified are being taken at our plant.
x)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/ Central Pollution Control Board.	Fugitive emission is regularly monitored. Monitoring data is referred as Annexure I .



xi)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	We are following the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling Transboundary Movement) Rules, 2008 as amended. Consent to Operate is obtained from Pollution Control Board, Assam for collection, storage and disposal of Hazardous wastes vide No. WB/OTWA/HW-353/20-21/129/64 dated 16/02/2021.
xii)	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).	Noise level in and around the plant is being monitored. Monitoring values are within the prescribed limit. Noise level is maintained using acoustic enclosures, silencer at the source of noise generation. Noise monitoring report is referred as Annexure-I .
xiii)	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	Rain water harvesting structure is developed to harvest rain water and it is being used in green belt development and other purpose.

SN.	EC CONDITIONS	COMPLIANCE STATUS
xiv)	The company shall develop undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Agreed with. Following Eco-Development measures during the last 4 financial Years: <ol style="list-style-type: none"> 1. During 2019-20: Rs. 12,26,360/- had been spent for Skill Development center at Topatoli. 2. During 2020-21:Rs.15,00,000/contributed to P.M care Fund. 3. During 2021-22: Rs. 17, 00,000/- had been spent for Distribution of livestock in the nearby village. 4. During 2022-23: We have spent Rs 24,40,000/- distribution of 200 nos swing Machine to the eligible women in the vicinity of the factory premises.
xv)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.	All the conditions in EIA/EMP report is being implemented. EIA and EMP Referred as Annexure III, IV respectively.



xvi)	A separate Environmental Management Cell 'equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	We have separate environment Management cell.
xvii)	The project authorities shall earmark adequate funds 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 provided shall not be diverted for any other purpose.	Agreed with.
xviii)	The implementation of the project vis-a-vis environmental action plans shall be monitored by the Regional Office of the Ministry at Shillong/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Status of the compliance of the stipulated environmental conditions including results of monitored data to respective agencies as stipulated also uploaded in our company's website www.pfcpl.in . Previous EC Compliance report for the period April'2022 to Sept'2022 was submitted vide our letter nos PFPL/ENV/MOEF/029/089&PFPL/ENV/MOEF/029-90 dated 15/11/22



SN.	EC CONDITIONS	COMPLIANCE STATUS
xix)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry at http://envfor.nic.in . 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.	Complied with.
xx)	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.	Agreed with.
7.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed with.
8.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.	Agreed with.
9.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority Act, 1997.	Agreed with.
10.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed with.



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**COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OCT'2022 TO MARCH'2023**

F. No. No. SEIAA.21/2013/EC/38

PART A - SPECIFIC CONDITIONS

I. Construction Phase

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	The Project Proponent shall run the plant with high efficiency DCDA method to achieve SO ₂ and SO ₃ emissions less than 1.5 kg/MT and 0.5kg/MT respectively of Sulphuric acid production. The monitoring arrangement shall be made and regular monitoring shall be done to ensure the prescribed limits.	High efficiency DCDA method is used for production of sulfuric acid. Monitoring is done regularly to ensure the monitoring value within the prescribed limit. Monitoring report are referred as Annexure -I
2.	Fluoride emissions from Granulate Single Super Phosphate Fertilizer Plant shall not exceed 25 mg/Nm ³ . Monitoring of HF shall be carried out along with other parameters and data submitted to PCB, Assam & SEIAA, Assam six monthly.	Fluoride emission from the SSP plant being monitored regularly. However monitoring of HF is being carried out with the help of HF analyzer. EC compliance and monitoring reports are six monthly submitted to PCB, Assam & SEIAA. Monitoring Reports are referred as Annexure-I
3.	The process emissions and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure pollution control system(s) adopted by the unit, shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Process Emissions from various units are monitored regularly. Monitoring reports are referred as Annexure-I . However we adopt automatic shut down system for the failure of any Pollution control devices.
4.	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by CPCB.	Fugitive emissions in the different locations are being monitored regularly. Monitoring Reports are referred as Annexure-I
5.	Total ground water requirement shall not exceed 130 m ³ /day and permission shall be obtained from SGWB/CGWB. No effluent will be discharged and "Zero" effluent discharge will be adopted. The Project Proponent shall submit the copy of permission of water drawl to SEIAA, Assam & MOEF Regional Office at Shillong immediately.	Our present total requirement of ground water is enhanced to 130m ³ /per day. We have got NOC from CGWA for withdrawal of ground water vide NOC no-CGWA/NOC/IND/REN/2/2023/7838 Dated-12/05/2023. we have also maintained "Zero Effluent Discharge"
6.	Regular monitoring of ground water by installing peizometric wells around the guard pond and sludge disposal site should be periodically monitored and reports submitted to SEIAA, Assam & MOEF Regional Office at Shillong and PCB Assam.	Ground water quality inside & outside the campuses are monitored regularly. Monitoring report attached as Annexure-II .

CONTD/2



EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

SN.	EC CONDITIONS	COMPLIANCE STATUS
7.	Solid waste from the GSSP plant shall be recycled and reused as filler material in the GSSP plant. Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use.	Solid wastes generated from GSSP are reused and recycle in the manufacturing process.
8.	Closed conveyer system shall be installed in grinding unit to prevent fugitive emission and also closed system shall be installed for formulation of PPC.	Raw materials & end products are transferred through covered conveyer belt.
9.	The domestic waste water shall be disposed off through septic tank-soak pit.	Domestic waste water treated in STP.
10.	The unit shall develop vacuum cleaner for wiping the floor dust instead of working it with water.	Vacuum cleaner is being used for wiping the floor dust.
11.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Fertilizer sector shall be strictly implemented.	All the recommendations made in CREP are implemented and followed. It is also referred as Annexure-III .
12.	The Unit shall develop the green belt in at least 33% land area to mitigate the effect of fugitive emissions and noise as per the guidelines to CPCB and submit an action of plan of plantation to SEIAA, Assam.	Greenbelt is developed around the periphery of the plant as per guide line of CPCB.
13.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. Implement OHSAS 14001 within 3 years.	Occupational health records are maintained as per factories act.
14.	During transfer of materials spillage shall be avoided and garland drains are maintained properly to avoid mixing of accidental spillages with domestic waste and storm drains.	Agreed with.
15.	The Project Proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	All safety measures are taken to avoid any fire hazards during manufacturing process in material handling.
16.	Proper housekeeping program shall be implemented.	Proper housekeeping program is maintained on daily basis.
17.	The project proponent shall comply with the rules framed under EPA 1986 for handling, storage, transportation & disposal of products as mentioned above.	Agreed with. We have followed all the rules framed under EPA1986 for handling, Storage, Transportation & disposal of products.

CONTD/3





EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

B. GENERAL CONDITIONS:

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	The consent to establish/operate shall be obtained from Pollution Control Board, Assam and copy of the same shall be submitted to SEIAA.	Consent to establish then consent to operate is obtained under Air (Prevention & Control of Pollution) Act 1981 and Water (Prevention & Control of Pollution) Act 1974. Copy of the same already submitted to SEIAA. Current CTO is obtained vide letter no WB/GUW/T-1224/P-I/14-15/381 dated- 10-05-2023.
2.	The project Proponent Authorities shall strictly adhere to the stipulations of the SPCB/State Government or any statutory body.	We have adhered to the stipulations made by the SPCB/ state government.
3.	The gaseous emissions (SO ₂ , SO ₃ , NO _x , NH ₃ , HF, fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to SEIAA, Assam, MOEF Regional Office and PCB, Assam.	Particulate matter & Gaseous emissions from various process units are monitored regularly and monitoring reports are referred as Annexure-I . Reports are regularly sent to the SEIAA, Assam, MoEF Integrated Regional Office and PCB, Assam.
4.	All the waste waters generated from the various processes shall be recycled/reuse in the plant and zero discharge shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste water shall be used for irrigation in the green belt.	Being a "dry unit" waste water is not generated in the manufacturing process. However domestic waste generated is being treated and reused in the manufacturing process of SSP Fertilizer and green belt development.
5.	Regular monitoring of ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , fluoride & Cd content in impact zone and record shall be maintained to assess the status of ambient air. Additional ambient air quality monitoring station shall be installed if required in down wind direction.	Concentration of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , fluoride in ambient air regularly monitored and monitoring reports are referred as Annexure- I
6.	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	As per the CPCB guidelines we have installed stack of appropriate height and scrubbers. The Scrubber water is reused.
7.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of accident leak detection device shall also be installed at the strategic places for early detection and warning.	Adequate safety measure is taken. However instruction is given to the official in case of any accident, leak detection should immediately shut down the operation till the rectification is made.





EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

SN.	EC CONDITIONS	COMPLIANCE STATUS
8.	Regular mock drills for onsite emergency management plan shall be carried out. Implementation of changes/improvement required if any, in on site management plan shall be ensured.	We have onsite emergency management plan.
9.	All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Closed vessels are used in the manufacturing process to reduce the fugitive emission.
10.	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N ₂ blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.	Sulphuric Acid is kept in storage tank guarded by concrete guard wall.
11.	The Project Proponent shall undertake following Waste Minimization measures. <ul style="list-style-type: none"> • Metering and control of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of automated filling to minimize spillage. • Use of "Closed Feed" system into Batch reactors. • Venting equipment through vapour recovery system. • Use of high pressure hoses for equipment cleaning to reduce wastewater generation. 	Waste minimization measures like reduced, reused & recycle taken at our plant.
12.	The project Proponent authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the PCB, Assam shall be obtained for collection, treatment, storage, and disposal of hazardous wastes under HW (Management, handling and transboundary) Rule, 2008.	Guidelines of Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling Transboundary Movement) Rules, 2008 as amended. We had obtained Consent to operate from Pollution Control Board, Assam for collection, storage and disposal of Hazardous wastes vide No. WB/OTWA/HW-353/20-21/129/64 Dated 16/02/2021.





EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

SN.	EC CONDITIONS	COMPLIANCE STATUS
13.	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).	Noise level in and around the plant is being monitored. Noise monitoring report is referred as Annexure-I . The overall noise level is confirm to the standard prescribed by CPCB.
14.	The Project Proponent shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	Rain water harvesting structure is developed to recharge the ground water level.
15.	The Project Proponent shall undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SEIAA, within three months of receipt of this letter for approval.	We have under taken the following eco-development measure for community welfare. i) During 2019-20: Rs. 12,26,360/- had been spent for Skill Development Center at Topatoli. ii) During 2020-21: Rs. 15,00,000/- contributed to P.M. care fund. iii) During 2021-22: Rs. 17, 00,000/- had been spent for distribution of livestock in the nearby villages. iv) During 2022-23 we have spent Rs- 24, 40,000 for distribution of 200 nos. Swing Machine to the eligible women in the vicinity of the factory premises.
16.	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report as submitted.	All the stipulated condition mentioned in Agreed with. EIA/EMP report is implemented. Reports are referred as Annexure IV .
17.	A separate Environmental Management Cell with qualified staff shall be set up for implementation of stipulated environment safeguard.	We have separate environmental Management cell with full fledged laboratory facilities with suitably qualified personal to carry out various environment management and monitoring function.
18.	The project Proponent shall earmark adequate funds 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 provided shall not be diverted for any other purpose.	Agreed with.





EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

SN.	EC CONDITIONS	COMPLIANCE STATUS
19.	The implementation of the project vis-a-vis environmental action plans shall be monitored by the SEIAA, Assam. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Industry.	Regularly submitting six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data to respective agencies as stipulated also uploaded in our company's website www.pfcpl.in . Previous EC Compliance report for the period April'2022 to September'2022 was submitted vide our letter nos PFPL/ENV/MOEF/029/089&PFPL/ENV/MOEF/029/090 dated 15/11/2022.
20.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Assam and copies of the clearance letter are available in the department's website: www.assamforest.in . 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 vernacular language of the locality concerned and a copy of the same be forwarded to the SEIAA, Assam.	Complied with.
21.	The project proponent shall inform the SEIAA, Assam and MOEF Regional Office Shillong, the date of starting of the expansion of project.	Noted and complied with.
22.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed with.
23.	The SEIAA reserves the right to stipulate additional conditions, if found necessary. The Industry in a time bound manner shall implement these conditions.	Agreed with.
24.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1986 Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed with.





EC COMPLIANCE REPORT FOR THE PERIOD OCT'2022 TO MARCH'2023

SN.	EC CONDITIONS	COMPLIANCE STATUS
25.	No further expansion or modification in the plant shall be carried out with our prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to this SEIAA, a fresh reference shall be made to the SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed with.
26.	The earlier environmental clearance issued by SEIAA, Assam vide no. SEIAA.21/2013 dated 23 rd Sept. 2013 is superseded with the Environment Clearance accorded by SEIAA, Assam with immediate effect from the date of issue of this order.	Agreed with.
27.	The environmental clearance accorded shall be valid for expansion project for a period of 5 years w.e.f. 23 rd Sept. 2013.	Agreed with.

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**CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION IN RESPECT OF
FERTILIZER INDUSTRY**

SL. NO	CONDITIONS	ACTION TAKEN
A.	Wastewater Management	
1.	Efforts will be made for conservation of water, particularly with a target to have consumption less than 8.12 and 15 m ³ /tonne of urea produced for plant based on gas, naphtha and fuel oil, respectively. In case of plants using Naphtha and Gas both as feed stocks, water consumption target of less than 10m ³ / tone will be achieved. An action plan for this will be submitted by June 2003 and targets be achieved by March 2004.	Not applicable in our case.
2.	Use of arsenic for CO ₂ absorption in ammonia plants and chromate based chemicals for cooling system, which is still continuing in some industries, will be phased out and replaced with non- arsenic and non-chromate systems by December 2003. In this regard, action plan will be submitted by June 2003.	Our plant is a non-arsenic unit for CO ₂ absorption.
3.	Adequate treatment for removal of oil, chromium (till non- chromate based cooling system is in place) and fluoride will be provided to meet the prescribed standards at the source (end respective process unit) itself. Action plan will be firmed up by June 2003 for compliance by March 2004.	Fluoride level is being monitored regularly monitoring values are within the prescribed limit.
4.	Proper and complete nitrification and de-nitrification will be ensured wherever such process used for effluent treatment, by September 2003	Not applicable in our case.

CONTD/2



(2)

5.	Ground water monitoring around the storage facilities and beyond the factory premises will be carried out at regular intervals particularly for pH. Fluoride CPCB will finalize the guidelines for groundwater monitoring by December 2003. No effluent arising from process plants and associated facilities will be discharged to the storm water drain. The quality of storm water will be regularly monitored by all the industries.	Ground water quality is being monitored at regular intervals inside and outside the factory premises as per CPCB guidelines. Being a "dry unit" no effluent generated from process.
6.	No effluent arising from process plants and associated facilities will be discharged to the storm water drain. The quality of storm water will be regularly monitored by all the industries.	Being a dry unit no industrial waste is generated.
7.	The industries, where waste water/ effluent flows through the storm water drains even during the dry season will install continuous systems for monitoring the storm water quality for pH, ammonia and fluoride. If required, storm water will be routed through effluent treatment plant before discharging. An action plan will be submitted by June 2003 and necessary action will be taken by June 2004.	Not applicable in our case.
B. Air Pollution Management		
1.	All the upcoming urea plants will have urea prilling towers based on natural draft so as to minimize urea dust emissions.	Not applicable.
2.	The existing urea plants particularly, the plants having forced draft prilling towers will install appropriate systems (e.g. Scrubber, etc.) for achieving existing norms of urea dust emissions. In this regard, industries will submit action plan by June 2003 and completion of necessary actions by June 2004.	Not applicable.
3.	The sulphuric acid plants having SCSA system will switch over to DCDA system by March 2004 to meet the emission standard for SO ₂ as 2kg/tone of H ₂ SO ₄ produced. An action plan for this will be submitted by June 2003.	We have Installed DCDA system in our acid plant to decrease the emission level of SO ₂ .

CONTD/3



(3)

4.	Sulphuric acid plants having DCDA system will improve the conversion and absorption efficiencies of the system as well as Scrubbers to achieve SO ₂ emission of 2kg tonne of acid produced in case of plants having capacity above 300 TPD and 2.5 kg tonne in case of plants having capacity upto 300 tpd. An action plan will be submitted by June 2003 and emission levels will be complied with by September 2004.	DCDA is installed to improve the conversation and absorption efficiency of the system and scrubbers.
5.	Stack height for sulphuric acid plants will be provided as per the guidelines and on the basis of normal plant operations (and not when the scrubbers are in use) by June 2003. The scrubbed gases are to be let out at the same height of the stock.	Stack height is maintained as per CPCB guide line.
6.	An action plan for providing proper dust control systems rock phosphate grinding unit in phosphoric acid plants/ single super phosphate plants, so as to achieve particulate emission of 150 mg/Nm ³ will be submitted by September 2003 and complied with by March 2004.	Bag filter is used to collect dust from grinding unit. Particulate emission is being monitored regularly whose value within the prescribed limit.
7.	Particulate as well as gaseous fluoride will be monitored and adequate control systems will be installed by June 2004 to achieve the norms on total fluoride emissions (25 mg/Nm ³).	Pollution control device is installed to control the particulate & gaseous emission. Monitoring is being done regularly to achieve the stipulated norms.
8.	Continuous SO ₂ emission monitoring systems will be installed in sulphuric acid plants (having capacity 200 TPD and above) by March 2004. Action plan for this will be submitted by June 2003.	Not applicable in our case because capacity of our sulfuric acid plant is 80 TPD.
9.	Regular monitoring of ambient air quality with regard to SO ₂ , PM, SO ₃ , fluoride and acid mist will be carried out.	Ambient air quality is being monitored regularly.

CONTD/4



C.	Solid Waste Management	
1.	Gypsum will be effectively managed by providing proper lining, dykes with approach roads and monitoring of groundwater quality around storage facilities. Accumulated gypsum will be properly capped. In this regard, action plan will be submitted by June 2003 and for compliance by December 2003.	Gypsum is not generated in our plant.
2.	An action plan for proper handling, storage and disposal of spent catalyst having toxic metals will be submitted by June 2003 and implemented by September 2003. The industry will also explore recovery/buy-back of spent catalyst by September 2003.	Not applicable in our case.
3.	Carbon slurry, Sulphur muck and chalk will be properly managed and disposed of in properly designed landfill either within premises or in common facility. Action plan on this will be submitted by June 2003 and implemented by March 2004.	Carbon slurry is not generated in our plant. However sulphur muck generated in the production are used for land filling.
4.	Existing stock of chromium and arsenic bearing sludge will be properly disposed by December 2003. Industries will also explore recovery of chromium from the sludge. CPCB will provide guidelines for proper disposal of the sludge.	Chromium and Arsenic bearing sludge is not used in our plant.



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**Progressive
Fertichem (P) Ltd.**
(Chemicals & Fertilisers Division)
ISO 9001, ISO 14001 and ISO 45001 CERTIFIED



**PROGRESSIVE FERTICHEM (P) LTD.
TOPATOLI, DIST-KAMRUP (METRO), ASSAM**

ENVIRONMENTAL MANAGEMENT PLAN

ANNEXURE- IV

SL. NO	PARAMETERS	ACTION TAKEN
1.	Training of workers.	Training is given to all workers before engaged them in work.
2.	Environment Monitoring	Environmental monitoring is being carried out regularly. Pollution level is controlled as per CPCB norms.
3.	Event reporting system	On site emergency plane is prepared and implemented. A registered is maintained for all accident and other event which is noticed at the work place.
4.	Cumulative effect	Periodical evaluation of the cumulative impact has been carried out regularly.
5.	Green Belt development	Green Belt is developed in and around the site.
6.	-Interaction with the public	Periodical discussion has been carried out on effect of air pollution and its way of mitigation with the local organization.
7.	Environmental Management Cell	An Environmental Management Cell has been formed for managing the environmental impact as prescribed in EIA.



**TEST REPORT****NABL ACCREDITED****AMBIENT AIR ANALYSIS REPORT**

Rep.No. AAAR_1503067_01_135

Certificate No. TC-7669
Date: 15/03/2023

Issued to : M/s. Progressive Fertichem Pvt. Ltd., Vill: Topatoli, Dist.: Kamrup(M), Guwahati, Assam

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : OCT/22 19/10/2022 TO 26/10/2022, NOV/22 22/11/2022 TO 28/11/2022,
 DEC/22 30/12/2022 TO 05/01/2023, JAN/23 19/01/2023 TO 24/01/2023,
 FEB/23 09/02/2023 TO 15/02/2023, MAR/23 08/03/2023 TO 15/03/2023
 Sampling Instrument Used : AMBIENT AIR SAMPLER
 Pollution Control Device, if any : YES/NO

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	19/10/22	Near North-East Platform	Clear	0.11	0.008
ii)		Near North Platform		0.13	0.010
iii)	20/10/22	Near Main Gate		0.15	0.013

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	22/11/22	Near North-East Platform	Clear	0.10	0.007
ii)		Near North Platform		0.12	0.009
iii)	23/11/22	Near Main Gate		0.13	0.011

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	30/12/22	Near North-East Platform	Clear	0.12	0.009
ii)		Near North Platform		0.11	0.010
iii)	31/12/22	Near Main Gate		0.14	0.012

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	19/01/23	Near North-East Platform	Clear	0.11	0.007
ii)		Near North Platform		0.13	0.009
iii)	20/01/23	Near Main Gate		0.15	0.013

Note: i) The results relate to the tested parameters & items sample.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.
 iii) Fluoride & Cadmium are analysed by B. BOROOAH COLLEGE.

Contd.....



Rep.No. AAAR_1503067_01_135


Certificate No. TC-7669
Date: 15/03/2023

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P


SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	09/02/23	Near North-East Platform	Clear	0.10	0.006
ii)		Near North Platform		0.12	0.010
iii)	10/02/23	Near Main Gate		0.16	0.012

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS	
				F ($\mu\text{g}/\text{m}^3$)	Cd ($\mu\text{g}/\text{m}^3$)
i)	08/03/23	Near North-East Platform	Clear	0.08	0.007
ii)		Near North Platform		0.11	0.009
iii)	09/03/23	Near Main Gate		0.13	0.010


Utpal Bezbaruah
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Fluoride & Cadmium are analysed by B. BOROOAH COLLEGE.

-----END OF REPORT-----



TEST REPORT

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_1503067_01_135

Date: 15/03/2023

Issued to : M/s. Progressive Fertichem Pvt. Ltd., Vill: Topatoli, Dist.: Kamrup(M), Guwahati, Assam

Sample Drawn By : UTPAL BEZBARUAH

Sampling Plan & Procedure : EETNE/SOP/01

Analysis Duration : OCT/22 19/10/2022 TO 26/10/2022, NOV/22 22/11/2022 TO 28/11/2022, DEC/22 30/12/2022 TO 05/01/2023, JAN/23 19/01/2023 TO 24/01/2023, FEB/23 09/02/2023 TO 15/02/2023, MAR/23 08/03/2023 TO 15/03/2023

Sampling Instrument Used : AMBIENT AIR SAMPLER

Pollution Control Device, if any : YES/NO

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	19/10/22	Near North-East Platform	Clear	56.3	32.0	19.1	10.8	30.5
ii)		Near North Platform		52.0	28.8	15.9	9.7	27.7
iii)	20/10/22	Near Main Gate		57.9	33.2	20.8	11.3	32.8

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	22/11/22	Near North-East Platform	Clear	55.9	31.7	20.2	11.0	32.6
ii)		Near North Platform		53.8	30.2	17.3	10.5	29.4
iii)	23/11/22	Near Main Gate		58.1	34.0	21.6	12.1	33.7

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	30/12/22	Near North-East Platform	Clear	56.8	32.5	21.9	11.7	31.0
ii)		Near North Platform		52.7	29.6	17.0	10.1	28.2
iii)	31/12/22	Near Main Gate		58.5	34.9	22.3	12.6	33.4

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	19/01/23	Near North-East Platform	Clear	57.1	33.2	21.4	12.5	32.6
ii)		Near North Platform		54.0	31.9	20.2	10.8	31.3
iii)	20/01/23	Near Main Gate		58.8	35.1	22.7	13.1	34.0

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

iii) NH₃ is analysed by B. BOROOAH COLLEGE.

Contd.....



Rep.No. AAAR_1503067_01_135

Date: 15/09/2019 Certificate No. TC-7669

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P

SL. NO.	DATE OF SAMPLING	LOCATION/SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	09/02/23	Near North-East Platform	Clear	56.2	31.8	21.0	12.2	32.4
ii)		Near North Platform		53.1	29.0	19.5	11.3	30.2
iii)	10/02/23	Near Main Gate		58.4	33.2	21.9	12.8	33.6

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

SL. NO.	DATE OF SAMPLING	LOCATION/SOURCE	WEATHER	PARAMETERS				
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	NH ₃ (µg/m ³)
i)	08/03/23	Near North-East Platform	Clear	56.8	30.7	20.5	12.6	31.9
ii)		Near North Platform		52.9	28.4	18.9	10.7	29.3
iii)	09/03/23	Near Main Gate		57.5	32.6	22.3	13.1	32.7

Remarks: - Sampling were done under the annual based.

Method of analysis: For SO₂ = IS:5182 Part-II/ CPCB, NO₂ = IS:5182 Part-VI/ CPCB

PM₁₀ = IS:5182 Part-XXIII/CPCB, PM_{2.5} = USEPA FRM 40CFR Part 50, 53 Appendix- L FEM Candidate Method-I

NH₃ = IS:5182 Part-II/ Method 401

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Average	Weighted	Concentration in Ambient Air Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/CPCB	Annual		50
			24 hours		80
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/CPCB	Annual		40
			24 hours		80
3	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/CPCB	Annual		60
			24 hours		100
4	Particulate Matter (PM _{2.5}), µg/m ³	IS:5182 (Part-24):2019	Annual		40
			24 hours		60
5	Ammonia (NH ₃), µg/m ³	IS:5182 Part-II/ Method 401	Annual		100
			24 hours		400

For Envion Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Environmental Chemist)


Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

iii) NH₃ is analysed by B. BOROOAH COLLEGE.

-----END OF REPORT-----



FUGITIVE EMISSION ANALYSIS REPORT

Rep.No.: 230315_1503067_04_136

Date: 15/03/2023

Name & Address:

M/s. Progressive Fertichem Pvt. Ltd.,
Vill: Topatoli, Dist.: Kamrup(M),
Guwahati, Assam

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	20/10/22	Near North Platform	219.4	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	227.3	-All materials are stored in closed sheds to mitigate fugitive emission.

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	23/11/22	Near North Platform	220.6	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	231.5	-All materials are stored in closed sheds to mitigate fugitive emission.

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	31/12/22	Near North Platform	216.2	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	225.8	-All materials are stored in closed sheds to mitigate fugitive emission.

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	20/01/23	Near North Platform	207.4	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	230.1	-All materials are stored in closed sheds to mitigate fugitive emission.

Utpal Bezbaruah
Utpal Bezbaruah
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.contd....



Rep.No.: 230315_1503067_04_136

NABL ACCREDITED
Date: 15/03/2023
Certificate No. TC-7669

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	10/02/23	Near North Platform	197.0	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	226.3	-All materials are stored in closed sheds to mitigate fugitive emission.

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	09/03/23	Near North Platform	209.8	-Water spraying is done to control the fugitive emission.
ii)		Near Loading Area	224.1	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS

For Envision Enviro Technologies North East, Guwahati

Utpal
Utpal Bezbaruah
(Environmental Chemist)

Dr. Pranita
Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. ANLMR_1503067_06A_139

Date: 15/03/2023

Name & Address:

M/s. Progressive Fertichem Pvt. Ltd.,
Vill: Topatoli, Dist.: Kamrup(M),
Guwahati, Assam

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	31/12/22	Near Main Gate	71.5	67.1
ii)		Near H ₂ SO ₄ Plant	67.2	65.0
iii)	30/12/22	Near Zn And MgSO ₄ Plant	73.3	69.3

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	09/03/23	Near Main Gate	72.2	66.2
ii)		Near H ₂ SO ₄ Plant	68.9	64.4
iii)	08/03/23	Near Zn And MgSO ₄ Plant	72.8	68.0

Remarks: Noise level are carried out during 75% of the Day Time & Night Time together.

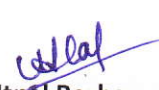
Method of analysis : IS 4758 : 1968 RA: 2017


Sampling Instrument Used : SLM100 SLNO484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

FOR ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI


Utpal Bezbaruah
(Environmental Chemist)


Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_1503067_02_137

Date: 15/03/2023

Issued to : M/s. Progressive Fertichem Pvt. Ltd., Vill: Topatoli, Dist.: Kamrup(M), Guwahati, Assam

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : OCT/22 19/10/2022 TO 26/10/2022, NOV/22 22/11/2022 TO 28/11/2022, DEC/22 30/12/2022 TO 05/01/2023, JAN/23 19/01/2023 TO 24/01/2023, FEB/23 09/02/2023 TO 15/02/2023, MAR/23 08/03/2023 TO 15/03/2023
Sampling Instrument Used : STACK KIT/FLUE GAS ANALYZER
Pollution Control Device, if any : NO/YES ✓

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL. NO	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	19/10/22	Stack attached to Boiler	85.0	196.3	12.1	24.8	32.2

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	22/11/22	Stack attached to Boiler	84.7	188.2	11.5	26.1	33.0

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	30/12/22	Stack attached to Boiler	82.9	201.5	10.7	23.0	32.7

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL. NO	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	19/01/23	Stack attached to Boiler	80.6	192.1	11.2	21.9	32.9

Method of analysis : IS 11255 Part-III:2008 RA





Recognized by Pollution Control Board, Assam

Rep.No. SAR_1503067_02_137

Date: 15/03/2023 **NABL ACCREDITED**

Certificate No. TC-7569

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	09/02/23	Stack attached to Boiler	83.5	211.4	12.0	22.7	30.8

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

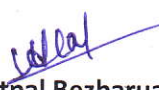
SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	SO ₂ mg/Nm ³	Fluoride mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	08/03/23	Stack attached to Boiler	87.1	219.6	13.2	24.6	31.7

Method of analysis : IS 11255 Part-III:2008 RA

Emission Standards :

Parameter	Standards
Particulate Matter	150 mg/Nm ³
SO ₂	286 mg/Nm ³ (100 ppm)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Environmental Chemist)


Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Fluoride, Acid Mist, SO₃ Analysis done by B.BOROOAH COLLEGE.

-----END OF REPORT-----

**TEST REPORT****NABL ACCREDITED****STACK ANALYSIS REPORT**

Rep.No. SAR_1503067_02_138

Date: 15/03/2023 Certificate No. TC-7669

Issued to : M/s. Progressive Fertichem Pvt. Ltd., Vill: Topatoli, Dist.: Kamrup(M), Guwahati, Assam

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : OCT/22 20/10/2022 TO 26/10/2022, NOV/22 23/11/2022 TO 28/11/2022,
 DEC/22 31/12/2022 TO 05/01/2023, JAN/23 20/01/2023 TO 24/01/2023,
 FEB/23 10/02/2023 TO 15/02/2023, MAR/23 09/03/2023 TO 15/03/2023
 Sampling Instrument Used : STACK KIT/FLUE GAS ANALYZER
 Pollution Control Device, if any : NO/YES

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	20/10/2022	Stack attached to SSP	53.4

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	23/11/2022	Stack attached to SSP	51.6

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	31/12/2022	Stack attached to SSP	50.7

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	20/01/2023	Stack attached to SSP	52.9

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P


SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	10/02/2023	Stack attached to SSP	53.7

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P

SL.No.	DATE OF SAMPLING	STACK DESCRIPTION	Fertilizer Dust (mg/Nm ³)
i)	09/03/2023	Stack attached to SSP	54.0

Method of analysis : IS 11255 Part-III:2008 RA

For Envision Enviro Technologies North East, Guwahati


 Utpal Bezbaruah
 (Environmental Chemist)


 Dr. Pranita Chakraborty
 Authorized/Reviewed by (Quality Manager)

Note: i) The results relate only to the parameters tested item sampled.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.
 iii) Analysis done by B.BOROOAH COLLEGE.

-----END OF REPORT-----



Recognized by Pollution Control Board, Assam

NABL ACCREDITED

Certificate No. TC-7669

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_1503067_02_138

Date: 15/03/2023

Issued to : M/s. Progressive Fertichem Pvt. Ltd., Vill: Topatoli, Dist.: Kamrup(M), Guwahati, Assam

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : OCT/22 20/10/2022 TO 26/10/2022, NOV/22 23/11/2022 TO 28/11/2022, DEC/22 31/12/2022 TO 05/01/2023, JAN/23 20/01/2023 TO 24/01/2023, FEB/23 10/02/2023 TO 15/02/2023, MAR/23 09/03/2023 TO 15/03/2023
Sampling Instrument Used : STACK KIT/FLUE GAS ANALYZER
Pollution Control Device, if any : NO/YES ✓

OCT/22 (Sample ID: EETNE/OCT/13/22) & ULR NO.: TC766922000000824P

SL. NO	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	20/10/2022	Stack attached to SSP	41.9	10.5	9.8	27.4	36.6

NOV/22 (Sample ID: EETNE/NOV/19/22) & ULR NO.: TC766922000000841P

SL. NO	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	23/11/22	Stack attached to SSP	42.0	11.2	9.3	28.8	35.1

DEC/22 (Sample ID: EETNE/DEC/26/22) & ULR NO.: TC766922000000874P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	31/12/22	Stack attached to SSP	37.5	10.1	8.6	29.0	34.2

JAN/23 (Sample ID: EETNE/JAN/14/23) & ULR NO.: TC766923000000014P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	20/01/23	Stack attached to SSP	44.6	9.8	8.7	27.5	33.7

Method of analysis : IS 11255 Part-III : 2008 RA

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Fluoride, Acid Mist, SO₃ Analysis done by B.BOROOAH COLLEGE

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NABL ACCREDITED

Rep.No. SAR_1503067_02_138

Date: 15/03/2023

Certificate No. TC-7649

FEB/23 (Sample ID: EETNE/FEB/08/23) & ULR NO.: TC766923000000031P

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	10/02/23	Stack attached to SSP	42.6	11.4	9.0	29.6	37.1

MAR/23 (Sample ID: EETNE/MAR/06/23) & ULR NO.: TC766923000000053P


SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS				
			Particulate Matter (mg/Nm ³)	Fluoride mg/Nm ³	SO ₂ mg/Nm ³	Acid Mist mg/Nm ³	SO ₃ mg/Nm ³
i)	09/03/23	Stack attached to SSP	43.9	12.7	9.9	28.3	40.8

Method of analysis : IS 11255 Part-III : 2008 RA

Emission Standards :

Fertilizer Industry	Parameter	Standards
Phosphatic Fertilizers	Particulate Matter	125 mg/Nm ³
	Fluoride	20 mg/Nm ³
	SO ₂	40 mg/Nm ³

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Environmental Chemist)


Dr. Pranita Chakraborty
Authorized/Reviewed by (Quality Manager)

- Note: i) The results relate only to the parameters tested item sampled.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Fluoride, Acid Mist, SO₃ Analysis done by B.BOROOAH COLLEGE.

-----END OF REPORT-----