



File No: J-11011/430/2005-IA II (I)  
Government of India  
Ministry of Environment, Forest and Climate  
Change  
IA Division  
\*\*\*



Date 02/05/2024



To,

Rakesh Puri  
INDIAN FARMERS FERTILISER COOPERATIVE LTD  
IFFCO Saran, C-1, Court Chowk Rd, Saket District Centre, District Centre, Sector-6, Saket Saket,  
SOUTH, DELHI, , 110017  
iffcofertilizer01@gmail.com

**Subject:** Proposed Modernization of Nano Fertilizer Plant, Aonla Unit at IFFCO Aonla, Paul Pothen Nagar, P.O. IFFCO Township, District- Bareilly, Uttar Pradesh- 243403 by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) -Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/UP/IND3/462982/2024 dated 12/03/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1904UP5875849N
(ii) File No.	J-11011/430/2005-IA II (I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(a) Chemical fertilizers ,5(a) Chemical fertilizers
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Modernization of Nano Fertilizer Plant, Aonla Unit at IFFCO Aonla, Paul Pothen Nagar, P.O. IFFCO Township, District- Bareilly, Uttar Pradesh- 243403 by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO)
(viii) Name of Company/Organization	INDIAN FARMERS FERTILISER COOPERATIVE LTD
(ix) Location of Project (District, State)	BAREILLY, UTTAR PRADESH
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per	No

## EIA Notification, 2006

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking Environmental Clearance for Modernization of Nano Fertilizer Plant, Aonla Unit at IFFCO Aonla, Paul Pothen Nagar, P.O. IFFCO Township, District- Bareilly, Uttar Pradesh- 243403 by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO).

4. The project/activity is covered under Category 'A' of item 5(a), Chemical Fertilizer industry of Schedule of Environment Impact Assessment (EIA) Notification, 2006 (as amended).

5. The PP applied for Environment Clearance in the Common Application Form and submitted EIA/EMP Report and other documents. The PP in the Form reported that it is an Expansion case **under 7(ii) of OM** dated 11.04.2022. In scenario 5(i) of the said OM, there are requirements of revised EIA/EMP report, CCR and appraisal by EAC. The proposal is placed in this 76<sup>th</sup> EAC meeting on 28<sup>th</sup> February, 2024, wherein the PP along with accredited Consultant, M/s EQMS Global Pvt. Ltd, (NABET Accreditation No.: NABET/EIA/2225/RA 0303 Valid Upto- 23.11.2025] made a detailed presentation on the salient features of the project. The information submitted by the PP is as follows:

6. The main product of the unit is Urea and Ammonia is its intermediate product. Now, unit has proposed to change the product formulation and nitrogen content of Nano Urea. The concentration of Nitrogen content in Nano Urea will change to "4 to 20%" of nitrogen content.

7. The PP reported that the Existing land area is **515.16 Ha**. No additional land will be required for proposed modernization and no R& R is involved in the Project. The details of products to be manufactured are as follows:

S. No.	Product	Unit	As per EC & CTO	After Proposed Modernization	Impact
1.	Urea	MTPA	23,26,500	23,26,500	No Change
2.	Ammonia	MTPA	13,20,000	13,20,000	
3.	Captive Power	MW	50 MW	50 MW	
4.	Nano-Urea (4 to 20% nitrogen content)/ Nano-Sulphur / Nano-Micronutrients	KL/ Annum	36,500	36,500	Only change in Specification of Nano Urea Product (Change in product formulation from 4% to 4-20% nitrogen content).
5.	Plastic Bottles (500 ml)	Lakh /year	730	730	No Change
6.	Plastic Cap (for 500 ml bottles)	Lakh /year	730	730	

8. The PP reported that there is no violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under the E(P) Act/Air Act/Water Act.

9. Ministry had issued EC earlier vide letter no **J-11011/430/2005-IA II (I) dated 02.02.2022** for project "**Modernization and Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer with proposed production capacity of 36500 KLA, located at IFFCO Aonla, Paul pothen Nagar, P.O. IFFCO Township, District – Bareilly, Uttar Pradesh**" by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO).

10. The PP reported that Certified compliance of the ECs (letter dated 2.2.2022 and 13.3.2006) was issued by IRO, MoEF&CC, Lucknow vide letter dated 01.02.2024. As per the report, all the conditions are complied.

11. The PP reported that there is no Wildlife Sanctuary within 10 km distance from the project site. No, national parks, Biosphere Reserves, Tiger/Elephant Reserves, etc. is present within 10 km distance from the project site. Four Reserved Forest are present at East, South & West Boundary of plant. Aril River is the nearest river flowing at 0.51 km (W) from the project site. *Pavo cristatus* (Indian Peafowl) which is Schedule-I species have been identified in the study area. Conservation plan for the same has been prepared and submitted to CWW for approval.

12. The PP reported that Ambient air quality monitoring was carried out at 8 locations during 1<sup>st</sup> October 2023 to 31<sup>st</sup> December 2023 and the baseline data indicates the range of concentrations as PM<sub>10</sub> (54.5 – 85.2 g/m<sup>3</sup>), PM<sub>2.5</sub> (26.5 – 52.1 g/m<sup>3</sup>), SO<sub>2</sub> (6.1 – 15.3 g/m<sup>3</sup>) and NO<sub>2</sub> (11.3 – 24 g/m<sup>3</sup>), NH<sub>3</sub> (31.6 – 43.5 g/m<sup>3</sup>) and CO (0.6 – 0.9 mg/m<sup>3</sup>). All parameters are within the National Ambient Air Quality Standards (NAAQS).

13. The PP reported that After modernization, there will be requirement of additional 14 KLD of freshwater which will be

suffice by existing supply. The total freshwater requirement will increase from 34150 KLD to 34164 KLD. The water will be met through existing supply i.e., groundwater.

14. There is no generation of effluent from manufacturing process of Nano-fertilizer. However, there is generation of 1 KLD wastewater from washing and operation of cooling tower in the plant along with 9 KLD domestic sewage generated. After proposed modernization, no additional wastewater generation is anticipated. Industrial wastewater generation shall be limited within the existing sanctioned quantity i.e., 5676 KLD. ETP cum neutralization tank for industrial effluent and 10 KLD of STP for domestic effluent has been provided in the nano plant. Treated water is being reused in the internal Horticulture provided in the Nano Plant boundary. In existing plant, Industrial effluent is being treated in the existing ETP, Air stripper, steam stripper & Guard Pond and Domestic effluent in STP installed in Township. Wastewater streams are segregated into two categories i.e., Weak effluent containing – Low Ammonia and Strong effluent containing - High Ammonia. Weak effluent from DM plant and Cooling Tower & Strong effluent from Process is treated in different tanks of ETP and after treatment being collected in two different Guard Ponds. The wastewater generated from Urea plant containing Ammonia and urea is being treated in urea Hydrolyser to recover CO<sub>2</sub> and ammonia from wastewater. Recovered Ammonia and CO<sub>2</sub> is being reused in the process and treated wastewater is recycled as boiler feed water after polishing in DM Plant. In Ammonia plant, the process condensate stripper has been provided to stripped off the Ammonia, CO<sub>2</sub>, methanol, etc., and recycled back to the process. Stripped condensate is being used as Boiler feed water make-up after polishing. Most of this treated effluent is being used in horticulture purposes for irrigation of green belt developed in and around the plant & township and remaining /during rainy season treated wastewater is discharged outside.

15. There shall be no change in the power requirement. In existing, the power requirement of the plant & township is 50 MW. Same is being met by Captive power and Grid Supply. The electrical power generated in CPP (Captive Power Plant) is used to fulfill the requirement of entire plant and part of electrical power is also supplied by UPPCL through 132 KV line. For Power backup, DG having capacity of 2 x 2188 KVA are already installed in existing unit. Power requirement for the Nano plant is 2.0 MW. After proposed Modernization, there will be no change in the power requirement. No additional DG set is proposed in the modernization.

16. Existing unit has Natural gas based 150 TPH steam boiler with 120 m stack, 2 x 80 TPH GT/HRSG- I & II with 30 m stack for power plant. No additional Boiler is proposed. Particulate emission is within the statutory limit given by CPCB & UPPCB.

#### 17. Details of Fuels:

Type of Fuel	Quantity of Fuel	Source
Natural Gasas Fuel (Nm <sup>3</sup> /hr)	64487	GAIL
HSD (Run during power failure only) (KL/Annum)	1.1	Local Suppliers

#### 18. Details of Process Emissions Generation and its Management:

S. No.	Stack Attached	Fuel Used	APCM	Permissible Limit
1	SG Boiler – 150 TPH	Natural gas	Attached to 120 m stack	-
2	GT/ HRSG -I (Power Plant) – 80 TPH	Natural gas	Attached to 30 m stack	
3	GT/ HRSG-II (Power Plant) – 80 TPH	Natural gas	Attached to 30 m stack	
4	HRU Ammonia- II	Natural gas	Attached to 30 m stack	-
5	Primary Reformer- I	Natural gas	Attached to 30.2 m stack	NO <sub>x</sub> < 400 mg/Nm <sup>3</sup>
6	Primary Reformer- II	Natural gas	Attached to 30 m stack	NO <sub>x</sub> < 400 mg/Nm <sup>3</sup>
7	DG Sets (2 x 2188 KVA)	HSD	Attached to 9.24m & 22 m stack	PM<75 mg/Nm <sup>3</sup> NMHC< 150 mg/Nm <sup>3</sup> CO< 150 mg/Nm <sup>3</sup> NO <sub>x</sub> < 1100 ppm

#### Process Stacks / Vents

1	Prilling Tower-I	-	96 m	PM < 50 mg/Nm <sup>3</sup>
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2	Prilling Tower-II	-	104 m	PM < 50 mg/Nm <sup>3</sup>
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**19. Details of Solid waste/ Hazardous waste generation and its management.** There is no change in the quantity of Waste generation after proposed modernization and expansion.

Sr. No	Name of Waste	Source of Generation	Category No. (As per Sch-I&II 2016)	After proposed Modernization-Quantity (MTPA)	Mode of Treatment & Disposal Method
1	Discarded Containers/Bags/Liners	Storage & Handling of Raw Materials	Sch-I/33.3	3000 Nos/ year drums & 100 MT of empty bags	All the discarded drums / containers / bags are collected and stored in Scrap yard. From scrapyards, these are sold to authorized recycler.
2	Used/Spent Oil	Used/Spent Oil	Sch-I/5.1	100.8	Used/spent oil is collected, stored at well identified scrap yard and then disposed by selling to Registered recycler.
3	ETP Sludge	In-house ETP	Sch-I/34.3	0.06	The sludge generated from the Effluent collection pits is being collected, dried and stored within the plant premises in HDPE bags and then disposed-off to TSDF Site through registered transporter.
4	Spent Catalyst	Process	Sch -I/ 18.1	300	Collected and stored in MS drum / HDPE drums, Sold to UPPCB/CPCB approved registered recyclers.
5	Plastic Waste**	Bottle Manufacturing Plant	-	25 MTPA	Recyclable waste is sold off to authorized Recycler.

20. The capital cost and recurring cost earmarked towards the existing Environmental Management Plan (EMP) is 9636.98 Lakhs (capital) and about 877.22 Lakhs per annum. Industry proposes to allocate Rs. 0.5 Crores towards Corporate Environment Responsibility i.e. Installation of Hand Pumps, Solar Lights, Support with Building materials to Schools for construction of Classrooms and Toilets, Community Halls etc. Other facilities / activities as required by local authorities.

21. Industry has already developed greenbelt in an area of 36% i.e., **184.163 Ha** out of total area of the project.

22. The PP reported that the Project being applied under para 7(ii) of EIA Notification, 2006, public consultation is exempted for the project.

23. The PP proposed to set up an Environment Management Cell (EMC) by engaging Environment officials for the functioning of EMC.

24. The PP submitted the Disaster Management Plan and On-site and Off-site Emergency Plans in the EIA report.

25. No major additional cost under proposed modernization is envisaged as the change in raw material mix for Nano urea with change in product profile of Nano urea is proposed without any change in capacity or plant configuration. Total Employment in the plant is approx. 2426 persons during operation phase. No further increase in employment is proposed.

#### **26. Deliberations by the EAC**

During deliberations, EAC discussed the following issues:

PP has submitted revised water balance and reduced the fresh water requirement from 34164 KLD to 32707 KLD. As per water balance report, PP has proposed 5675 m<sup>3</sup>/day to be discharged for horticulture purpose. The Committee felt that PP shall explore recycling/reuse of water in phase wise manner to reduce the discharge of treated water for horticulture. PP shall use 100 % recycled water for cooling make up water in order to reduce the dependence of fresh water from ground water source. PP shall carry out rain water harvesting within the 10 km study area equivalent to quantity of ground water extraction. PP shall submit action taken report to IRO, MoEF&CC and CPCB every year.

The committee was satisfied with the response provided by PP on above information.

The EAC constituted under the provisions of the EIA Notification, 2006 comprising expert members /domain experts in various fields, examined the proposal submitted by the PP in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the PP.

The EAC noted that the PP has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the PP.

The EAC noted that the EIA reports are in compliance with the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The EAC deliberated on the proposed mitigation measures towards Air, Water, Noise and Soil pollutions. The EAC advised that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

The EAC deliberated on the Onsite and Offsite Emergency plans and various mitigation measures to be proposed during the implementation also of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The expert members of the EAC found the proposal in order and recommended for grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

27. Based on the proposal submitted by the PP and recommendations of the EAC (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for ***“Proposed Modernization of Nano Fertilizer Plant, Aonla Unit at IFFCO Aonla, Paul Pothen Nagar, P.O. IFFCO Township, District- Bareilly, Uttar Pradesh- 243403 by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO).”*** under the provisions of the EIA Notification 2006 and its subsequent amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at **Annexure-1**. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

28. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

29. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

30. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

31. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

32. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

33. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

34. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

35. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

36. This issues with the approval of the Competent Authority.

#### **Copy To**

1. Deputy Director General of Forests (C), Integrated Regional Office, Lucknow, Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow-226020
2. The Principal Secretary, Environment, Forest and Climate Change Department, Government of Uttar Pradesh, Aranya Vikas Bhawan, 21/475, Indira Nagar Lucknow
3. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building. No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District **Bareilly**, Uttar Pradesh
7. Guard File/Monitoring File/Website/Record File/Parivesh portal

#### **Annexure 1**

#### **Specific EC Conditions for (Chemical Fertilizers)**

##### **1. Specific**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	(i) The company shall 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, and risk mitigation measures relating to the project shall be implemented.
<b>1.2</b>	(ii) Stack height of 120 m shall be provided to gas fired 150 TPH SG boiler; Stack height of 30 m shall be provided to gas fired GT/HRGS-I; GT/HSRG-II; HRU Ammonia- II; Primary Reformer -I; Primary Reformer -II as per the prescribed limits of CPCB. Stack height of 30 m shall be provided to DG set (2 x 2188 KVA) as per CPCB norms.



S. No	EC Conditions
1.3	(iii) Fresh water requirement shall not exceed 32707 KLD from groundwater source after modernisation.
1.4	(iv) NOC from the Central Ground Water Authority shall be obtained before start of the construction of plant and drawing water from ground water source. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
1.5	(v) Effluent generation from nano urea plant shall not exceed 1 KLD. Effluent shall be treated in Effluent treatment plant and treated effluent shall be recycled/reused. Domestic wastewater shall be treated in the STP and treated wastewater shall be recycled/reused for horticulture purpose.
1.6	(vi) As per water balance report, from existing unit, 5675 m <sup>3</sup> /day to be discharged for horticulture purpose. Treated effluent should be passed through holding tank and for effluents: Online pH, flow, Ammonical Nitrogen, Fluoride should be installed and monitored for the said parameters. PP shall explore recycling/reuse of water in phase manner to reduce the discharge of treated water for horticulture. PP shall use 100 % recycled water of STP for cooling make up water in order to reduce the dependence of fresh water from ground water source. PP shall explore to carry out rain water harvesting within the 10 km study area equivalent to quantity of ground water extraction. PP shall submit action taken report to IRO, MoEF&CC and CPCB every year.
1.7	(vii) 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 SPCB.
1.8	(viii) The green belt has been developed in 184.163 ha (36% of the total plot area with tree density @ 2500 trees per hectares), mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP shall annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.9	(ix) A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions by engaging Unit Head- GM/DGM Manger (Lab) – Deputy Manager – Assistant manger Engineer lab. In addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1 st July of every year for the activities carried out during the previous year.
1.10	(x) The company shall 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, and risk mitigation measures relating to the

S. No	EC Conditions
	project shall be implemented. The budget proposed under existing EMP Rs. 9636.98lakhs (Capital cost) and 877.22 Lakhs per Annum (Recurring cost)] shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.11	(xi) All the hazardous waste shall be managed and disposed as per the HWM Rules 2016. Hazardous waste such as ETP sludge shall be either sent to TSDF. Spent catalyst shall be sent to Authorized recyclers. Municipal solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet waste shall be converted into compost and used as manure for greenbelt development.
1.12	(xii) The PP shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.13	(xiii) The project proponent shall comply with the environment norms for 'Fertilizer Industry' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29 th December, 2017 under the provisions of the Environment (Protection) Rules, 1986.
1.14	(xiv) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSIHC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedule, particularly Schedule-5 of the said rules may be referred.
1.15	(xv) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
1.16	(xvi) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
1.17	(xvii) The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
1.18	(xviii) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
1.19	(xix) The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process



S. No	EC Conditions
	effluent/ any wastewater shall not be allowed to mix with storm water.
1.20	(xx) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
1.21	(xxi) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
1.22	(xxii) Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Chemicals shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.23	(xxiii) PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority

**Standard EC Conditions for (Chemical fertilizers)**

**1.**

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having

S. No	EC Conditions
	preference in energy conservation and environment betterment.
1.4	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.6	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.7	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.8	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.9	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.
1.10	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 and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.
1.11	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.
1.12	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

**Additional EC Conditions**

N/A

