

SIX MONTHLY COMPLIANCE REPORT, DECEMBER-2023

“PROPOSED TECHNICAL AMMONIUM NITRATE MANUFACTURING PLANT”



at

**DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi,
Tehsil- Chatrapur, District- Ganjam, Odhisha- 761020**

Environment Clearance Letter	F.No. IA-J-11011/152/2020-IA-II(I) dated 25 th May, 2021
Category as per EIA notification, 2006	5(a), A

Project Proponent



**MAHADHAN
AGRITECH
LIMITED**

(Formerly known as Smartchem Technologies Limited)

**M/s MAHADHAN AGRITECH LTD. (MAL)
(Formerly known as Smartchem Technologies Ltd.)**

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Chapter-1 Introduction

M/s Mahadhan Agritech Ltd. (MAL) (Formerly known as M/s Smartchem Technologies Limited), a 100% subsidiary of Deepak Fertilizers and Petrochemicals Corporation Limited (DFPCL) is one of the leading manufacturers of Technical Ammonium Nitrate (TAN) in the world and the only producer of explosive grade Low Density Porous Prilled Ammonium Nitrate (LDAN) in India. It is the largest manufacturer of TAN in India and ranked amongst top 5 manufacturers globally. The total installed capacity of plants is around 500,000 MT at different locations. MAL manufactures different types of Technical Ammonium Nitrate products with different technology to suit the requirements of their customers, delivering specific solutions for their applications. Their state-of-the-art manufacturing units are strategically located at the Eastern and Western coasts of India to efficiently cater to the domestic as well as international markets.

Now, MAL has proposed to install a Technical Ammonium Nitrate Plant which comprises of 900 MTPD (100% basis) Weak Nitric Acid (NA) plant to manufacture Ammonium Nitrate solution 1143 MTPD (100% basis). The produced Ammonium Nitrate solution of 1143 MTPD shall be used to produce max 300 MTPD Ammonium Nitrate melt and Technical Ammonium Nitrate (TAN) Prills (either LDAN or HDAN on campaign basis) with max. 1000 MTPD production. The Product mix set-up will be such that the production of TAN will not be more than 1143 MTPD. From the TAN prilling plant, both LDAN and HDAN can be produced. The proposed site is located within the domestic tariff area of the Industrial Park being developed by Tata Steel SEZ Limited (TSSEZL) at Gopalpur, Odisha. The total plant area is 40.24 acres.

There will be facility for power generation (Cogen) from waste heat steam from the NA plant to generate 4.6 MW of power. As well MAL will also set up Captive coal-based power plant for generation of 10 MW or lesser capacity. Power from coal based captive power plant will be produced in accordance with the requirement.

The proposed project will include site development, main process plants along with Offsites facilities & Utilities, raw material and product storages, electrical substation, covered warehouses, manufacturing plant and administrative buildings etc. The project shall also include the construction of cross-country facilities for receipt of imported ammonia from ships.

Technical Ammonium Nitrate (TAN) is used primarily for all non-fertilizer applications. It is a key ingredient in pharmaceuticals, mining, power, construction, and steel industries. The proposed project “manufacturing of Technical Ammonium Nitrate” is an inorganic compound and not covered under purview of EIA notification, 2006. However, the manufacturing process of TAN being broadly similar to

the Fertilizer manufacturing process, project was applied under category item no 5(a) i.e., Chemical Fertilizer as per the EIA notification, dated September 14, 2006 (as amended time to time).

Environmental clearance from MoEF&CC was taken vide F. No. IA-J-11011/152/2020-IA-II (I) dated 25th May, 2021. Copy of Environmental Clearance is attached as **Annexure 1**.

A summary of the total proposed development area is given in **Table 1.1** below.

Table 1.1 : Salient Feature of the project

S. No.	Particular	Unit	Details	
1.	Products to be manufactured & Capacity	Nitric Acid (NA) (100% basis)	MTPD	900
		Technical Ammonium Nitrate Solution (TAN) (100% basis) #	MTPD	1143
		Technical Ammonium Nitrate Prill (LDAN or HDAN on campaign basis) ##	MTPD	1000
		Captive Power Plant (CPP) – (I + II)	MW	14.6
		I -From Coal Fired Boiler- Applicability of EC	MW	10
		II- From waste heat turbo Generator (STG)- Exempted from EC	MW	4.6
2.	Total Plot Area	Acre	40.24	
3.	Green belt area	Acre	13.28	
4.	Water Requirement	KLD	7000	
5.	Wastewater Generation (Industrial + Domestic)	KLD	1614	
6.	Wastewater Treatment Unit- ETP	KLD	2150	
7.	Power Requirement			
	Connected Load	MW	16	
	Normal Operating Load (Demand load)	MW	12 ~ 12.5	
8.	Power Backup	KVA	2250 & 1250	
9.	Manpower Requirement (Contractual & Permanent)	No.	320 (120+200)	
10.	Project cost including Environmental controlling equipment	Rs. Crores	1600	
11.	Capacity of Steam Boiler	TPH	2 x 60	

Chapter-2 Construction Status

Construction has started at the site. Status of construction is given below in **Table 1.2**

Table 1.2 : Status of Construction

S. No.	Particular	Status
1.	Pilling Work	75%
2.	Ground Improvement	50%
3.	Boundary Wall	Will be completed by Nov, 2023
4.	Green Belt	140 saplings Planted so far

Site Photographs



Boundary Wall & Internal Road (construction in progress)



Ground Improvement (stone column erection in progress)



Piling work (in progress)

Figure 1.1 : Site Photographs

Chapter-3 Point-Wise Compliance of The Environmental Conditions

Specific Conditions											
S. No.	Conditions	Compliance									
1.	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.	Noted and shall be complied. Summary of Environmental measures adopted are attached as Annexure 2 .									
2.	A continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Noted and shall installed after completion of construction work.									
3.	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.	Noted and shall be complied. Details of planned storage is given below: <table border="1" data-bbox="847 1482 1432 1890"> <thead> <tr> <th>Hazardous Chemical</th> <th>Type of storage</th> <th>Capacity in MT</th> </tr> </thead> <tbody> <tr> <td>Ammonia</td> <td>Ammonia Atmospheric Storage Tanks</td> <td>10,000 X2</td> </tr> <tr> <td>Ammonium Nitrate (TAN)</td> <td>Overall TAN storage capacity</td> <td>5000 MT in Bagging go down, inclusive of 600 MT in Conditioning</td> </tr> </tbody> </table>	Hazardous Chemical	Type of storage	Capacity in MT	Ammonia	Ammonia Atmospheric Storage Tanks	10,000 X2	Ammonium Nitrate (TAN)	Overall TAN storage capacity	5000 MT in Bagging go down, inclusive of 600 MT in Conditioning
Hazardous Chemical	Type of storage	Capacity in MT									
Ammonia	Ammonia Atmospheric Storage Tanks	10,000 X2									
Ammonium Nitrate (TAN)	Overall TAN storage capacity	5000 MT in Bagging go down, inclusive of 600 MT in Conditioning									

					silo whenever in use
			Weak Nitric acid (100 % Basis)	Tank	1500 X 4
			Ammonium nitrate solution storage (100 % Basis)	Tank	3 x 30
			Sulphuric Acid (98%)	Tank	25 X 1
			Caustic (48-50%)	Tank	35 X 1
			Coal for Boiler	Bulk	2000
			Chlorine	100 kg cylinders	5 cylinders
			Diesel	Tank	990 liters
			LPG	19.5 kg cylinders	5 cylinders
4.	Occupational health centre for surveillance of the worker's health shall be set up. The 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.	Noted and shall be complied.	<p>PPE are provided to all employees. Photographs are attached as Annexure 3.</p> <p>A full-fledged occupational health center (OHC) will be established within the plant for its employees to give first aid in case of any emergency or an employee is feeling sick or is not well. An MBBS doctor will be available in the OHC. The center will have provision for all necessary and emergency equipment's as well as one emergency bed & stretcher for indoor admission and observations. Besides, an ambulance van will also be attached to the medical center round the clock for transportation of patients as and when required. In addition to above, the company will have many well-trained workers in First aid, placed at different areas of workplace. Also, MAL will tie up with the nearby Hospital for medical help.</p>		
5.	Training shall be imparted to all the employees on safety and health aspects	Noted and shall be complied.			

	of chemicals handling. Safety and visual reality training shall be provided to employees.	Training is conducted on regular basis to train about the safety procedures and strictly following the rules. Photographs of Trainings are attached as Annexure 4 .
6.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	<p>Noted and shall be complied.</p> <ul style="list-style-type: none"> • A separate sprinkler system with fire hydrant system/monitors shall be provided for fire protection of the tank. • Fire hydrant systems will be provided as per defined guidelines to fight any emergency. • Fire-fighting equipment will be provided at all the locations. <p>Various measures shall be adopted for protection of possible fire hazards like the fuel supply to boiler shall be fitted with an automatic shut-off mechanism, Operators shall be trained in safe systems of work, The building shall be designed to be non-combustible with automatic fire suppression engineered, Risk assessments shall be carried out to consider the potential dispersal and the potential impact of an explosion on the surrounding areas, Regular safety audits shall be undertaken etc.</p> <p>Fire Fighting Layout is attached as Annexure 5.</p>
7.	Safety and risk assessment studies shall be conducted, and action plan and mitigation measures shall be properly implemented.	<p>Safety and risk assessment study shall be carried out after completion of work.</p> <p>HAZOP study is carried out jointly with Licensor, EPCM consultant and MAL team. Necessary recommendations have been incorporated and PIDs are updated.</p>
8.	Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent	<p>Not Applicable.</p> <p>Solvent will not be used in the plant.</p>

	<p>handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flaming proof. The solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p>	
<p>9.</p>	<p>Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.</p>	<p>Measures proposed to be adopted to eliminate fugitive & VOC emissions are.</p> <ul style="list-style-type: none"> ➤ Preventive measures like SOP, Work Permit System, and Physical inspection / Monitoring of equipment will be taken to eliminate the chance of accident on account of explosion, spillages, fire, or hazardous substances etc. ➤ The finished product will be transported through covered trucks. ➤ ESP shall be provided for the Boiler to capture the particulate matter. ➤ The exhausted hot air loaded with dust leaving the dryer drums is sucked into the scrubbers by means of blower. The washing of the air is done in the Ventures and scrubber with an AN washing solution. Clean air is then sent to the stack by means of the air blower. ➤ Ammonia Storage tanks Compressor will be provided to maintain tanks pressure by converting vapor Ammonia to Liquid Ammonia and then returning to Tanks. ➤ Ammonia gas detectors will be installed at identified location near Ammonia storage Tanks.

		<ul style="list-style-type: none"> ➤ Installation of Leakage detectors wherever required and installation of safety & relief valves and routed to safe location to avoid fugitive emissions. ➤ Automatic weighing and Bagging machine will be provided with system to reduce spillage. ➤ Any Spillage/emission of dust during different activities of handling/ manufacturing process will be collected manually/by de-dusting system and recirculated within the process. ➤ Bag Filters and ID fans will be provided for collecting fugitive emissions for recycle into process. ➤ De-dusting system will be provided in the Bagging & Material Handling plant to collect fugitive emission of ammonium nitrate dust. ➤ Breather Valves will be used in the ammonia storage. ➤ Proper maintenance & operation for leak proof condition of machinery on regular basis. ➤ Sensors and detectors will be provided at strategic locations for early detection of any leak. ➤ Fire hydrant system will be provided as per defined guidelines to fight any emergency. ➤ Airborne dust at all transfers operations/ points will be controlled either by spraying water or providing enclosures. ➤ Regular maintenance of valves, pumps and other equipment will be done to prevent leakages and thus minimizing the fugitive emissions of VOCs.
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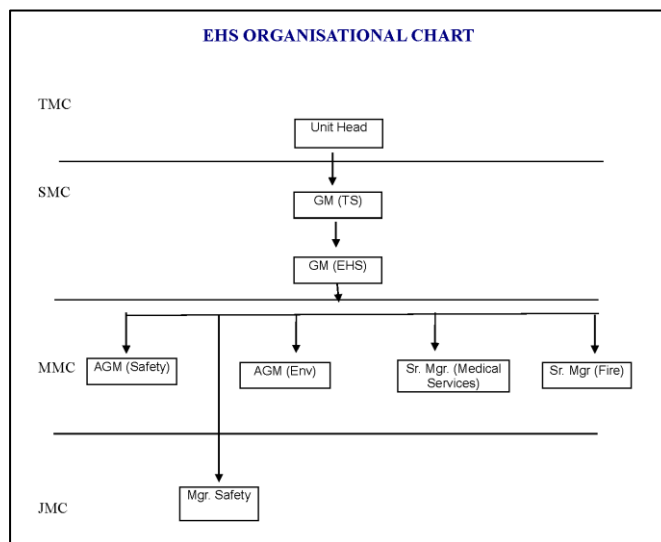
		<ul style="list-style-type: none"> ➤ Entire process will be carried out in the closed loop with proper maintenance of pressure and temperature. ➤ Periodic monitoring of work area will be carried out to check the fugitive emission. ➤ To eliminate chances of leakages from glands of pumps, mechanical seal will be provided. ➤ Good housekeeping, proper maintenance and continuous observation will prevent the chances of any fugitive emission from the process plant. ➤ When monitoring, if results indicate parameters above permissible limit, necessary correction/corrective action will be done immediately. ➤ Continuous Ambient Air and Stack Monitoring station shall be installed in the plant to monitor all the important parameters. <p>Photographs of Water sprinkling is attached as Annexure 2.</p>
10.	<p>Total freshwater requirements shall not exceed 7000 KLD which will be met from TSSEZL for industrial and domestic use. Necessary permission in this regard shall be obtained from the concerned regulatory authority and renewed from time to time.</p>	<p>Noted and shall be complied.</p> <p>The total industrial water requirement is estimated as 7000 KLD.</p> <p>Industrial water will be provided by TSSEZL for industrial and domestic use.</p> <p>Construction water is being facilitated by TSSEZL. Presently the Piling work being executing by ITDC, who has made an In-Principle agreement with TSSEZL to receive construction water.</p>
11.	<p>Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and</p>	<p>Noted and shall be complied.</p> <p>A rainwater harvesting / aquifer recharging system have been proposed as water conservation measure.</p>

	<p>harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/any wastewater shall not be allowed to mix with storm water.</p>	<p>The systems shall be installed at such location of the project area close to the administrative building so as to facilitate collection of most of the rainwater from the roofs of the building of the project area within the project site. Storm water is collected through concrete drains from the total plant area and will be directed to the rainwater harvesting system. No effluent raising from the process plants and associated facilities will be allowed to the storm water drains.</p> <p>The system will be cleaned during dry period and will be made ready to collect water for harvesting from its command area during monsoon. Provision has also been made in the rainwater harvesting system for Chlorination/disinfection especially during the first phase of monsoon.</p>
12.	<p>The company shall undertake waste minimization measures as follows (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of byproducts from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>Noted and shall be complied.</p>
13.	<p>The green belt of at least 5-10 m width shall be developed in at least 33% of the total project area, mainly along the plant periphery/additional land. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest</p>	<p>Noted and shall be complied.</p> <p>In order to mitigate and minimize the environmental impacts, arising due to project especially from air pollution, noise pollution, soil erosion etc. a dense Greenbelt shall be developed all around the proposed site.</p>

	<p>Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2m*2m and number of trees have to be increased accordingly. The plant species can be selected that will give better carbon sequestration. All trees must be planted within first year. In addition to the above-mentioned greenbelt development, PP shall also plant 10000 plants in around the study area.</p>	<p>MAL will develop a dense greenbelt in about 13.28 Acre (5.374 ha) (33%) area within the plant. About 1150 trees/ha shall be planted. On average about 6450 trees/shrubs along with, garden, herbs and shall be planted within the premises as a greenbelt. The green canopy not only absorbs some of these pollutants as carbon sink but also improves the aesthetic environment, besides attenuating the noise levels. Approx. 2 crores shall be spent on the green belt within and outside premises.</p> <p>Out of total trees, 140 no of saplings have already been planted at site. Photographs of plantation is attached as Annexure 6.</p>
14.	<p>The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.</p>	<p>Noted and shall be complied.</p> <p>Through CSR/CER activity company management will be committed to improve infrastructural facilities for the local people in field of Environmental, Infrastructure, Medical, and Transportation etc.,</p> <p>Details of few activities carried out in nearby area is attached as Annexure 7.</p>
15.	<p>A separate Environment Management Cell (having qualified person with Environment 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.</p>	<p>Noted and shall be complied.</p> <p>MAL will create a team consisting of officers to coordinate the activities concerned with management and implementation of environmental control measures. This team undertakes the activity of monitoring the ambient air quality, noise level etc. either departmentally or by appointing external agencies assistance wherever necessary. Regular monitoring of environmental parameters will be carried out to find out any deterioration in environmental quality and also to take corrective steps are taken, if required, through respective departments. The Environmental Management Cell</p>

also collects data about health of workers, green belt development etc.
Company appointed full time EHS Manager at site to monitor and comply the related aspects and activities.

The EHS Organization chart is given below.



General Conditions

S. No.	Condition	Compliance
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 the Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to the 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	Noted and shall be complied.

	additional environmental protection measures required, if any.	
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 an Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Noted and shall be complied.
3.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	LED shall be used in the plant. At present 3 High Masts (with LED lightings) are installed and working at site.
4.	The overall noise level 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 (daytime) and 70 dBA (nighttime).	Noted and shall be complied during construction and operation phase.
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-development measures including community welfare measures in the	Noted and shall be complied. Through CSR/CER activity company management will be committed to improve infrastructural facilities for the local people in field of Environmental, Infrastructure, Medical, and Transportation etc.,

	project area for the overall improvement of the environment.	Details of few activities carried out in nearby area is attached as Annexure 7 .																					
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.	Noted and shall be complied. The budget for the Environmental Management Plan will be Rs 92.45 crores as capital cost along with recurring cost of Rs 20.70 crores. Details are given below <table border="1" data-bbox="808 562 1469 1056"> <thead> <tr> <th>Particulars</th> <th>Capital cost in Rs. (Crores)</th> <th>Recurring Cost Rs. (Crores)</th> </tr> </thead> <tbody> <tr> <td>Water pollution Control, Effluent & Sewage Treatment plant</td> <td>23.55</td> <td>12.50</td> </tr> <tr> <td>Air Pollution Equipment</td> <td>50.45</td> <td>5..50</td> </tr> <tr> <td>Rainwater harvesting & Green belt development</td> <td>3.45</td> <td>1.00</td> </tr> <tr> <td>Solid and Hazardous waste Management</td> <td>10.00</td> <td>0.70</td> </tr> <tr> <td>Noise Pollution Control</td> <td>5.00</td> <td>1.00</td> </tr> <tr> <td>Total</td> <td>92.45</td> <td>20.70</td> </tr> </tbody> </table>	Particulars	Capital cost in Rs. (Crores)	Recurring Cost Rs. (Crores)	Water pollution Control, Effluent & Sewage Treatment plant	23.55	12.50	Air Pollution Equipment	50.45	5..50	Rainwater harvesting & Green belt development	3.45	1.00	Solid and Hazardous waste Management	10.00	0.70	Noise Pollution Control	5.00	1.00	Total	92.45	20.70
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Noise Pollution Control	5.00	1.00																					
Total	92.45	20.70																					
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.	Copies were circulated to all offices. Receiving is attached as Annexure 8 .																					
8.	The Project Proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective 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	Noted and shall be complied.																					

	be posted on the website of the company.	
9.	The environmental statement for each financial year ending 31 st 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 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 Regional Office of the Ministry.	Form V shall be submitted after operation of plant.
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 https://parivesh.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.	Advertisement was published in the Newspaper on 30.05.2021. Copies are attached as Annexure 9 .
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.	Noted and shall be complied.

Six Monthly Compliance Report- December 2023 for Technical Ammonium Nitrate Manufacturing Plant at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha



**MAHADHAN
AGRITECH
LIMITED**

(Formerly known as Smartchem Technologies Limited)

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.	Noted.
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Annexure – 1: Environmental Clearance Letter



Annexure – 2: Environment Measures adopted at Site



Annexure – 3: Safety Measures adopted at Site



Annexure – 4: Photographs of Safety Trainings



Annexure – 5: Layout showing Fire fighting line at site



Annexure – 6: Photographs of Tree Plantation



Annexure – 7: CER activities carried out in nearby area



Annexure – 8: Receiving of Intimation Letter for EC



Annexure – 9: Copy of Advertisement