

Date: 21st January 2025

OD/MAL/Project/2024-25/045

Director,
Ministry of Environment, Forests & Climate Change, Government of India,
Regional Office {East Zone},
Regional Office {EZ}, A/3, Chandersekhanpur,
Bhubaneswar-751023

Subject: Submission of Six-monthly Compliance Report. December 2024 of the Environmental/Safeguards conditions stipulated in Environment clearance letter for the Proposed "Technical Ammonium Nitrate Manufacturing Plant" at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil-Chatrapur, District-Ganjam. Odisha by M/s Mahadhan AgriTech Ltd. (MAL) (Formerly known as M/s Smartchem Technologies Limited)

Reference: F. No. IA-J-11011/152/2020-IA-II(I) dated 25th May 2021

Dear Sir,

We wish to inform you that we have obtained Environmental clearance from MoEF & CC vide letter no: F. No: IA-J-11011/152/2020-IA-II(I) dated 25th May 2021 for the Proposed "Technical Ammonium Nitrate Manufacturing Plant" at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil-Chatrapur, District-Ganjam, Odisha by M/s Mahadhan AgriTech Ltd. (MAL) (Formerly known as M/s Smartchem Technologies Limited).

In this regard, we wish to inform you that, as per the conditions laid down in the Environmental Clearance letter, we are hereby submitting Six-monthly Compliance report along with all the requisite annexure as per the guidelines of the Ministry of Environment, Forest & Climate Change.

Hope this will meet the requirements.

Thanking you,

Yours faithfully,
For, M/s Mahadhan AgriTech Limited (MAL)


AUTHORISED SIGNATORY

SIX MONTHLY COMPLIANCE REPORT, DECEMBER-2024

“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



(Formerly known as Smartchem Technologies Limited)

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

Taloja Office- Plot K1, MIDC Industrial Area, Taloja- 410 208

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Phone no.: +91-8108016397, +91-22 50688845

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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**. Thereafter, Transfer of Environmental clearance was also taken from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited by MoEF&CC vide IA-J-11011/152/2020-IA-II(I) dated 07.12.2023 is attached as **Annexure 1.1**. Project is under construction.

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 | 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 | 100% |
| 2. | Ground Improvement | 100% |
| 3. | Boundary Wall | 100% |
| 4. | Green Belt | 504 saplings Planted so far |
| 5. | RCC works | 44% |
| 6. | Structural Works | 50% |

Site Photographs



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

| | |
|---|--|
| Engineering Workshop | Raw water & fire water pump house |
|  |  |
| ANS Process Plant | Cooling tower |
|  |  |
| WNA HE train & Absorption tower | Power Receiving Sub Station |
|  |  |
| Ammonia Storage Tank | WNA Process Plant |
|  |  |
| NA Storage Tank | Pipe rack |

Chapter-3 Point-Wise Compliance of The Environmental Conditions

| Specific Conditions | | | | | | | | | | | |
|------------------------|--|--|--------------------|-----------------|----------------|---------|-----------------------------------|-----------|------------------------|------------------------------|--|
| S. No. | Conditions | Compliance | | | | | | | | | |
| 1. | <p>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.</p> | <p>Noted and shall be complied.</p> <p>Summary of Environmental measures adopted are attached as Annexure 2.</p> | | | | | | | | | |
| 2. | <p>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.</p> | <p>Noted and shall be installed after completion of construction work.</p> | | | | | | | | | |
| 3. | <p>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.</p> | <p>Noted and shall be complied.</p> <p>Details of planned storage is given below:</p> <table border="1"> <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</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 |
| Hazardous Chemical | Type of storage | Capacity in MT | | | | | | | | | |
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| 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. | <p>Noted and shall be complied.</p> <p>PPE are provided to all employees. Photographs are attached as Annexure 3.</p> <p>A full-fledged occupational health center (OHC) is established within the plant for the employee & workmen to give first aid in case of any emergency or an employee or workman is feeling sick or is not well. An MBBS doctor will be available in the OHC. The center will have provision for all necessary emergency equipment as well as one emergency bed & stretcher for indoor admission and observations. Besides, an ambulance van is also available at site on round the clock for transportation of patients as and when required. In addition to above, the company is having 4 well-trained Male Nurse in First aid center. Also, our contractors are tie up with the nearby Hospital for medical help. The first Aid facility is enclosed with Annexure 3.1, and Hospital Tie up letter is enclosed with Annexure 3.2.</p> | | | | |

| | | |
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| | | |
| 5. | Training shall be imparted to all the employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees. | <p>Noted and shall be complied.</p> <p>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.</p> |
| 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 Licenser, EPCM consultant and MAL team. Necessary recommendations have been incorporated and PIDs are updated.</p> |

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| 8. | <p>Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) 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>Not Applicable. Solvent will not be used in the plant.</p> |
| 9. | <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. |

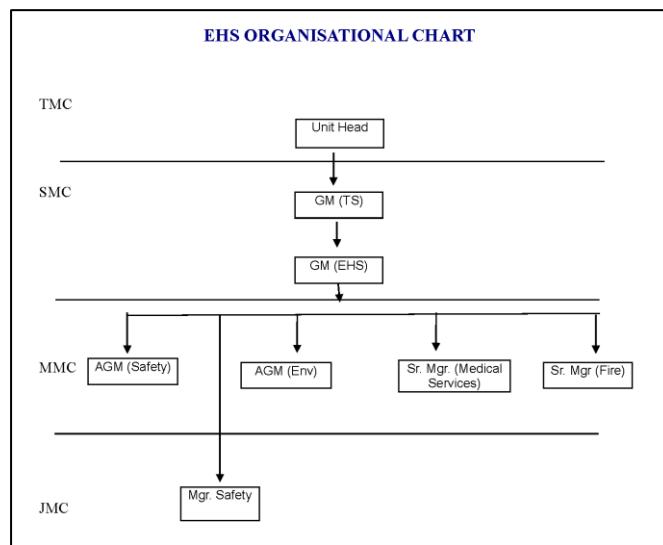
| | |
|--|--|
| | <ul style="list-style-type: none">➤ Ammonia gas detectors will be installed at identified location near Ammonia storage Tanks.➤ Installation of Leakage detectors wherever required and installation of safety & relief valves and routed to safe location to avoid fugitive emissions.➤ Automatic 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 |
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| | | <p>leakages and thus minimizing the fugitive emissions of VOCs.</p> <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. | 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>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>The construction water facility is being developed by TSSEZL & being used for the construction works.</p> |
| 11. | Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting | Noted and shall be complied. |

| | | |
|-----|--|--|
| | <p>of rainwater 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 effluent/any wastewater shall not be allowed to mix with storm water.</p> | <p>A rainwater harvesting / aquifer recharging system have been proposed as water conservation measure. 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</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</p> |

| | | |
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| | <p>per the CPCB guidelines in consultation with the State Forest 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>Greenbelt shall be developed all around the proposed site.</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, 504 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</p> |

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| | <p>steps are taken, if required, through respective departments. The Environmental Management Cell also collects data about health of workers, green belt development etc.</p> <p>Company appointed full time EHS Manager at site to monitor and comply the related aspects and activities.</p> <p>The EHS Organization chart is given below.</p> |
|--|---|



| General Conditions | | |
|---------------------------|--|------------------------------|
| S. No. | Condition | Compliance |
| 1. | <p>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</p> | Noted and shall be complied. |

| | | |
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| | conditions imposed and to add 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. | <p>LED shall be used in the plant.</p> <p>At present 5 High Masts (with LED lightings) are installed and working at site.</p> |
| 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 | <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> |

| | community welfare measures in the 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. | <p>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</p> <table border="1" data-bbox="812 608 1468 1100"> <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 |
| 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 | | | | | | | | | | | | | | | | | | | | | |
| 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. |

| | | |
|-----|---|--------|
| 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. |
|-----|---|--------|

Annexure – 1: Environmental Clearance Letter

Annexure 1.1: Name Change Letter

Annexure – 2: Environment Measures adopted at Site

Annexure- 2.1: Ambient Air Quality Monitoring report

Annexure -2.2 Muck Removal letter

Annexure – 3: Safety Measures adopted at Site

Annexure- 3.1: First aid center and Ambulance Facility

Annexure -3.2: Hospital Tie up letter

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



By Speed post/Online

F.No: IA-J-11011/152/2020-IA-II(I)

Government of India

Ministry of Environment, Forest and Climate Change

Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 25th May, 2021

To,

M/s Smartchem Technologies Ltd. (STL),
DFPCL, Sai Hira, Survey no. 93,
Mundhwa, Pune City, Pune,
Maharashtra-411036

Email: chittaranjan.panigrahi@dfpcl.com

Sub: Setting up of Technical Ammonium Nitrate Manufacturing Plant by M/s Smartchem Technologies Ltd. (STL) located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha -Environment Clearance regarding.

Sir,

This has reference to your online proposal No. No IA/OR/IND2/160599/2020, dated 12th February, 2021 for environmental clearance to the above-mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up of Technical Ammonium Nitrate Manufacturing Plant by M/s Smartchem Technologies Ltd. (STL), located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha.

3. All Chemical Fertilizer units are listed at S. No. 5(a) of the 'Schedule' of the Environmental Impact Assessment (EIA) Notification under Category 'A' and appraised at Central Level by Expert Appraisal Committee (EAC). The proposal also includes coal-based power generation of 10 MW, which is listed as category 1(d), i.e., thermal power plants in the Schedule under Category 'B' of EIA notification, 2006.

4. The details of proposed products and capacity are as under:-

| S. No | Name of Product | Quantity | |
|----------|--|----------|-----------|
| | | MTPD | MTPA |
| 1. | Nitric Acid (NA)- (100% basis) | 900 | 2,97,000 |
| 2. | Technical Ammonium Nitrate Solution (TAN) (100% basis) | 1143 | 3,77,190 |
| 3. | Technical Ammonium Nitrate Prill (LDAN or HDAN on campaign basis) | 1000 | 3,30, 000 |

| | | | |
|----|---|---------|---|
| 4. | Captive Power Plant (CPP) – (I + II) | 14.6 MW | - |
| | I- From Coal Fired Boiler- Applicability of EC-I | 10 MW | - |
| | II- From waste heat turbo Generator (STG)- (Exempted from EC) | 4.6 MW | - |

5. Terms of Reference (TOR) was issued by MoEF&CC vide letter of even no. dated 24.07.2020. Since environmental clearance has already been granted to TSSEZL Industrial Park (Gopalpur Industrial Park) by MoEF&CC under item no. 7(c) vide letter no. 21-136/2015-IA.III dated 20.09.2018, thus public hearing/public consultation is exempted for the instant proposal.

6. Total land area for the proposed project is 40.24 Acres. Industry will develop greenbelt in an area of 33.0% i.e., 13.28 acre out of total area of the project. The estimated project cost is Rs.1600 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.92.45 Crores and the Recurring cost (operation and maintenance) will be about Rs.20.70 Crores per annum. Total Employment will be of 1820 persons. It is committed that Rs.8.0 Crore will be spent towards Corporate Social Responsibility.

7. There are no environmentally sensitive components such as National Park, Wildlife Sanctuary, Elephant / Tiger Reserve, forest migratory routes of fauna and wet land present within 10 Km radius of plant site. However, few water bodies are flowing near to the project site i.e., Khari Nala (0.40 Km, W), Bay of Bengal (2.58 Km, E) and Surya River (8.19 Km, W).

8. Ambient air quality monitoring was carried out at 8 locations during 1st October 2020 to 31st December 2020 and the baseline data indicates the ranges of concentrations as: PM10 (47-110 $\mu\text{g}/\text{m}^3$), PM2.5 (22.5-58.0 $\mu\text{g}/\text{m}^3$), SO2 (5.38-15.4 $\mu\text{g}/\text{m}^3$) and NOx (13.8-40.6 $\mu\text{g}/\text{m}^3$). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.78 $\mu\text{g}/\text{m}^3$, 3.03 $\mu\text{g}/\text{m}^3$, 4.89 $\mu\text{g}/\text{m}^3$, 1.17 $\mu\text{g}/\text{m}^3$ and 1.52 $\mu\text{g}/\text{m}^3$ with respect to PM10, PM2.5, NOx, SO2, & NH3. All parameter concentrations are within the National Ambient Air Quality Standards (NAAQS) except PM10.

9. Total water requirement is 7000 KLD. Industrial water will be provided by TSSEZL for industrial and domestic use. Total amount of industrial effluent that is envisaged to be generated is 1614 KLD. Rest water will be re-circulated within the process. A suitable Effluent Treatment Plant (ETP) shall be installed for treatment of all wastewater. Discharge from this ETP shall be routed to the Common ETP developed by TSSEZL within the Industrial Park. In principle, TSSEZL has agreed to accept this STL ETP discharge as input to their CETP. The CETP of TSSEZL is RO based, which will further treat the disposed effluent from STL site. Part of the water supply in form of recycled water from TSSEZL will be from their CETP which will be used within the STL plant as make-up for Cooling Tower.

10. Total connected load of the complex shall be around 16 MW and normal operating load (demand load) will be 12~12.5 MW. 4.6 MW of power requirement will be sourced from NA plant process waste Steam turbo Generator (STG). The start-up power (5 MVA) will be sourced from the State grid. Remaining power requirement will be

sufficed by coal based Captive Power plant. Power from coal based captive power plant will be produced in accordance with the requirement. 2250 kVA and 1250 kVA DG Sets will be used as standby during power failure. Stack Height of 30 m will be provided as per CPCB norms to the proposed DG sets. PP reported that 2 x 60 TPH coal fired boiler will be installed in the plant. ESP and stack of height of 70 m will be installed for controlling the particulate emissions within the statutory limit for the proposed boiler.

11. Details of Process emissions generation and its management:

| Stack No. | Stack Attached to | Stack Height | APCS | Expected Pollutants |
|-----------|---|-----------------|--|---------------------|
| 1 | Tail Gas from Nitric Acid Plant | 63 m | Passed through by selective catalytic reduction with ammonia in presence of Vanadium Pentoxide, Platinum or Iron/Chromium oxides catalysts | NOx (NO2) |
| 2 | Prilling Tower and TAN plant common scrubbing stack | 35 m (Scrubber) | The air is cooled and scrubbed | PM, NH3 |

12. Details of Solid waste & Hazardous waste generation and its management:

The municipal solid waste generation at the project site will be 99 Kg/day which will be segregated in biodegradable waste and recyclable waste. Recyclable waste (paper, plastic, glass, etc) will be sold off to authorized vendors and Biodegradable waste (canteen waste, food waste, green area waste, etc) to common waste management site of TSSEZL for disposal. Solid Waste Management Rules, 2016 shall be followed.

| S. No | Name of Waste | Source of Generation | Category No. (As per HW Rules 2016) | Quantity | Mode of Treatment & Disposal Method |
|-------|-----------------------------------|-------------------------------------|-------------------------------------|------------------|---|
| 1 | Discarded Containers/Bags /Liners | Storage & Handling of Raw Materials | Sch-I/33.1 | 150 MTPA | Collection, Storage, Decontamination or sale to authorised decontamination facility |
| 2 | Used/Spent Oil | Filtration | Sch-I/5.1 | 60 KL/Annum | Collection, Storage, Transportation & Disposal by selling to registered Refiners |
| 3 | ETP Sludge | In-house ETP | Sch-I/35.3 | Approx. 300 MTPA | Collection, Storage, Transportation and disposal to authorized CHWTSDF |

| | | | | | |
|---|---------------------------------------|------------|---------------|---------------------|--|
| 4 | Metal Scrap | - | Non-Hazardous | 60 MTPA | To approved recycler |
| 5 | Fly ash | Boiler | Non-Hazardous | 41580 MTPA | Sell to cement Industry |
| 6 | Spent Ion Exchange resin | DM plant | Sch-I/35.1 | 5000 lit in 5 years | Collection, Storage, Transportation and disposal to authorized CHWTSDF |
| 7 | NOx abator used Catalyst | NOx abator | Sch-I/18.1 | 10 MT/five year | Collection, Storage, Transportation and disposal to authorized CHWTSDF |
| 8 | Catalyst (Platinum, Rhodium Catalyst) | Process | Sch-I/18.1 | 160 Kg/Year | Regeneration |

Note: PP also reported that the spent catalyst in the form of metallic oxides will be stored in MS drums with sealed lid. Same will be sold to CPCB/MoEF&CC authorized/registered recycler for its recycling.

13. It has been informed that the pipeline of the project falls in the CRZ area. Therefore, CRZ clearance is also required for pipelines. PP submitted the EC application for Chemical Fertilizer in Industry 3 Sector and CRZ application for pipeline before the CRZ Sector. Project Proponent informed the EAC that the CRZ proposal for pipeline is under consideration with CRZ Sector for CRZ clearance, vide proposal no. IA/OR/CRZ/204641/2021. The matter has been examined in the Ministry based on the comments of CRZ Sector.

14. The proposal of EC was initially placed before the EAC in its meeting held during March 11-12, 2021 wherein the EAC deferred the proposal. Based on the information submitted by PP on 31.03.2021, the proposal was again re-appraised by the Expert Appraisal Committee (Industry-3 Sector), in its 9th meeting held during 12-13 April, 2021. The project proponent and their consultant M/s. EQMS India Pvt. Ltd, made a detailed presentation through Video Conferencing (VC) and have presented the EIA/EMP report.

15. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of their knowledge and belief and no information has been suppressed in the EIA/EMP report. 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 project proponent.



The Committee noted that the EIA/EMP report reflects the present environmental concerns and the projected scenario for all the environmental components. The Committee deliberated issue based on EC and CRZ clearance and suggested Ministry to take decision on administrative procedure in which both EC and CRZ clearance required. Action plan and budget allocation for green belt development was deliberated and revised commitment submitted by PP for green belt development and budget allocation for the same was accepted by the committee. Detailed action plan for mitigation of particulate emission (i.e. PM10, PM2.5) was also deliberated by the committee and found to be satisfactory. Schedule-I conservation plan found satisfactory. The committee deliberated mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee also suggested that the storage of toxic/explosive raw material/products shall be undertaken with utmost precautions and following the safety norms and best practices. Additional information submitted by PP was deliberated and found to be addressing the concerns of the EAC.

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 Experts Members of the EAC also found the proposal in order and recommended for the grant of environmental clearance.

16. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its 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 project proponent 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.

17. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate Change hereby accords Environmental clearance to the project for setting up of Technical Ammonium Nitrate Manufacturing Plant by M/s Smartchem Technologies Ltd. (STL), located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Conditions:

- (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.
- (ii) Continuous online (24x7) 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 of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

- (iii) 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.
- iv) 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.
- (v) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vi) 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.
- (vii) Safety and risk assessment studies shall be conducted and action plan and mitigation measures shall be properly implemented.
- (viii) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) 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 flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (ix) Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.
- (x) Total fresh water requirement 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.
- (xi) 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 effluent/ any wastewater shall not be allowed to mix with storm water.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other 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.

- (xiii) 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 Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2m x 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 plant in around the study area.
- (xiv) 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.
- (xv) A separate Environmental Management Cell (having qualified person 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.

B. General Conditions:

- (i) 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.
- (ii) 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.
- (iii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iv) 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).
- (v) 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.

(vi) 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.

(vii) 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.

(viii) 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 be posted on the website of the company.

(ix) 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 Regional Offices of MoEF&CC by e-mail.

(x) 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.

(xi) 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.

(xii) 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.

18. 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.

19. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

20. Any appeal against this environmental clearance 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.

21. 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.

22. This issues with the approval of the competent authority.


(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Email: rb.lal@nic.in
Tele-fax: +91-11-24695362

(डॉ. आर. बॉ. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
मानव संसदीय विभाग, नई दिल्ली
Government of India, New Delhi

Copy to: -

1. The Deputy Director General of Forests (C), Integrated Regional Office, Bhubaneswar, A/3, Chandersekharpur, Bhubaneswar-751023
2. The Secretary, Department of Forest & Environment Department, Govt.of Odisha, Kharavel Bhavan, Bhubaneswar, Odisha,
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32
4. The Member Secretary, State Pollution Control Board, Odisha, Head Office), Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012, Odisha

5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, Ganjam, Odhisha
7. Member Secretary (CRZ Sector), IA Division, MoEFCC, New Delhi-110003
8. Guard File/Monitoring File/Website/Record File/Parivesh portal

(Dr. R. B. Lal)
Scientist 'E'/Additional Director



File No:IA-J-11011/152/2020-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 07/12/2023



To,

Sh. Chitta Ranjan Panigrahi Associate Vice President M/s MAHADHAN AGRITECH LIMITED
Sai Hira, Survey No.93, Mundhwa, Pune -411036 . Maharashtra India., PUNE, MAHARASHTRA,
411036
chittaranjan.panigrahi@dfpcl.com

Subject: Transfer of Environmental Clearance (EC) from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited for “Technical Ammonium Nitrate Manufacturing Plant” located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha - reg

Sir/Madam,

1. This has reference to your online proposal no. **IA/OR/IND3/450268/2023** dated **26.10.2023** regarding transfer of Environmental Clearance from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited.
2. The particulars of the proposal are as below :

| | |
|---|---|
| (i) EC Identification No. | EC23A1907OR5896324T |
| (ii) File No. | IA-J-11011/152/2020-IA-II(I) |
| (iii) Clearance Type | Transfer of EC |
| (iv) Category | A |
| (v) Project/Activity Included Schedule No. | 5(a) Chemical fertilizers ,1(d) Thermal Power Plants |
| (vi) Sector | Industrial Projects - 3 |
| (vii) Name of Project | Transfer of Environmental clearance (EC) from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited for “Technical Ammonium Nitrate Manufacturing Plant” located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha |
| (viii) Name of Company/Organization | |

| | |
|---|--|
| (ix) Location of Project (District, State) | GANJAM, ODISHA |
| (x) Issuing Authority | MoEF&CC |
| (xi) EC Date | 25/05/2021 |
| (xiii) Details of Transferee | M/s Mahadhan Agritech Limited Smartchem Technologies Limited, DFPCL, Sai Hira, Survey no. 93,Mundhwa, Pune |
| (xiv) Details of Transferor | City,490,27,411036 |

3. The Ministry of Environment, Forests and Climate Change has granted Environmental Clearance vide letter no. F.No. IA-J-11011/152/2020-IA.II (I) dated 25th May, 2021 for Setting up of Technical Ammonium Nitrate Manufacturing Plant" located at DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha to M/s Smartchem Technologies Limited (STL).

4. Now, M/s Mahadhan Agritech Limited has informed vide their letter no. OD/MAL/Project/2023-24/009 dated 25.10.2023 that the company has changed the name from M/s Smartchem Technologies Limited (STL) to M/s Mahadhan Agritech Limited.

5. NOC from transferor i.e M/s Smartchem Technologies Limited signed by Arun Agrawal, Executive Vice President, M/s Smartchem Technologies Limited states that only the name of company has been changed and board of directors/Management of the company are same, there is no change in the management and share holding.

6. Office of the Registrar of Companies, Ministry of Corporate Affairs has issued Certificate of Incorporation pursuant to change of name stating that the name of the company has been changed from SMARTCHEM TECHNOLOGIES LIMITED to MAHADHAN AGRITECH LIMITED. CIN No. is : U67120PN1987PLC166034. Certificate of Incorporation pursuant to change of name indicates Corporate Identification Number (CIN): U67120PN1987PLC166034.

7. A copy of undertaking signed by Shri Chittaranjan Panigrahi, Associate Vice President of M/s Mahadhan Agritech Limited, has been submitted stating to abide by all the terms and conditions i.e specific conditions, general conditions and other conditions prescribed in the environmental clearance dated 25th May, 2021.

8. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance to the project for "**Technical Ammonium Nitrate Manufacturing Plant**" located at **DLCT-1, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha** was granted by this Ministry vide letter of even No. dated 25th May, 2021 is hereby transferred **from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited**, on the same terms and conditions and validity period under which prior environmental clearance was initially granted.

9. This issues with approval of the competent authority.

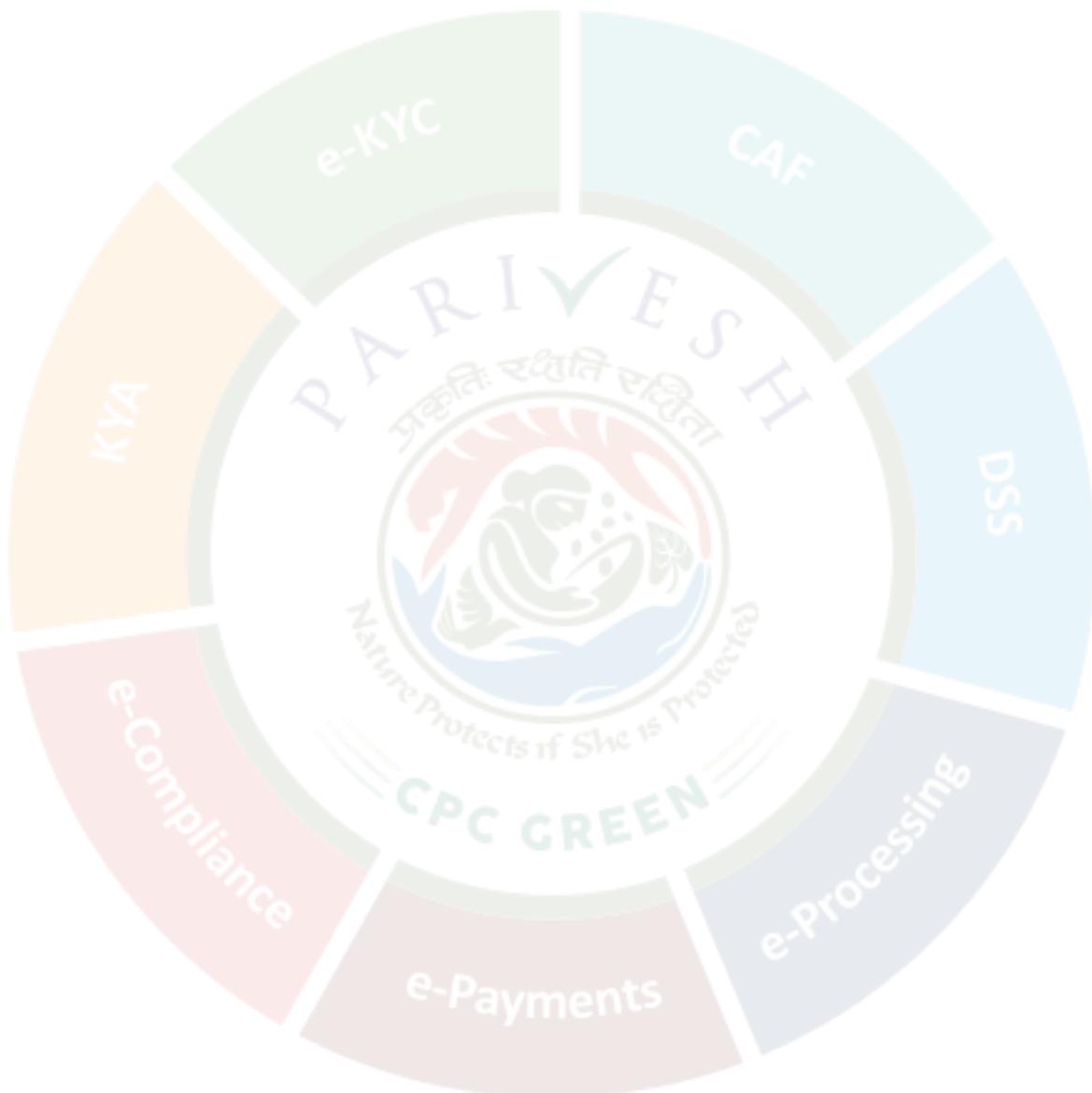
Copy To

1. The Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar, Odisha – 751023.
2. The Additional Chief Secretary, Department of Forest, Environment and Climate Change, Govt. of Odisha, Kharavel Bhavan, Bhubaneswar, Odisha.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar, Odisha 751012.
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001.

6. The District Collector, Ganjam, Odisha -754103.
7. Guard File/Record File/Monitoring File/MoEF&CC Website/Parivesh Portal.

Additional EC Conditions

N/A



Annexure 2

Preventive measures adopted at construction site to reduce the pollution.

Air- Project is under construction phase and as of no such plant operational building is constructed and not in operational. Only construction related machineries are being utilized. These all machineries are certified according to pollution acts and engineering-controlled devices fitted. The periodic maintenance process is also carried out as per desired frequency.

Moreover, we are conducting the AAQ, the reports are enclosed as "**Annexure 2.1**".



Annexure 2.1
Ambient Air monitor

For Dust suppression activity we made a practice of water sprinkling on the road surface to control the dust.



Soil- The agreement for Muck disposal is attached here; it has been signed between TSSEZL and M/s Sai Sri (who is the contractor performing the Piling work on MAL site) for dumping the piling muck at designated place within the industrial park provided by Industrial Park developer itself. Order copy of such agreement is enclosed as "**Annexure 2.2**".



Annexure 2.2
TSSEZL-PO given.pdf

Since the project is in construction stage, and all other excavated soils are being taken on reuse for back filling purposes (After completion of Civil foundation works).

Water- No such underground water is being taken on usage. At the current stage of construction, now piling works are completed. So, no such major consumption of water is there.

We have done an agreement with TSSEZL for using of ground surface water as the construction works, the copy of agreement is attached here.

Noise- In construction phase using the Acoustic type of DG for noise control. We routinely checking the DG set area noise DB.



Waste Management-

Non-Hazardous Solid Wastes: The Solid waste from transit mixture washing muck (debris/ sludge) generated from RMC are reused to develop the road and ramp areas and disposed of at a designated approved location by site local body, for debris / construction waste.

Food wastes are disposed by our authorized vendor at BMC designated places.

Reinforcement Scraps are reused with in our premises on some development works like shed preparation of equipment etc. and are being kept at designated places.



Illumination Checking of sites- All lamps are LED which are installed at our site for illumination purposes.





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Report no. - CEMC/DF/090724/A1

Issued Date-09.07.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

| | |
|------------------------------|---|
| Name & Address of the Client | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024A1 |
| Nature of Sampling | Ambient Air Sample |
| Sampling By | Mr.R.N Das |
| Instrument Used | Respirable Dust Sampler, Fine Dust Sampler, CO Meter and Gaseous Attachment |
| Location of Sampling | Near MAL Office |
| Sampling Date | 01.07.2024 |

ANALYSIS RESULT

| Sl. No. | Items | Unit | Result | *NAAQ Standard | Testing Method |
|---------|---|-------------------|--------|----------------|--------------------|
| 01 | Particulate Matter (PM ₁₀) | µg/m ³ | 61.2 | 100 | IS: 5182 (Part-23) |
| 02 | Particulate Matter (PM _{2.5}) | µg/m ³ | 31.4 | 60 | IS: 5182 (Part-24) |
| 03 | Sulphur Dioxide (SO ₂) | µg/m ³ | 8.4 | 80 | IS: 5182 (Part-2) |
| 04 | Nitrogen Oxides (NO _x) | µg/m ³ | 12.6 | 80 | IS: 5182 (Part-6) |
| 05 | Carbon Monoxide (CO) | mg/m ³ | 0.4 | 4.0 | IS: 5182 (Part-10) |

*NAAQ (National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification)

End of Report


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Report no. - CEMC/DF/090724/A2

Issued Date-09.07.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

| | |
|------------------------------|---|
| Name & Address of the Client | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024A1 |
| Nature of Sampling | Ambient Air Sample |
| Sampling By | Mr.R.N Das |
| Instrument Used | Respirable Dust Sampler, Fine Dust Sampler, CO Meter and Gaseous Attachment |
| Location of Sampling | Near LDAN Bagging Area |
| Sampling Date | 01.07.2024 |

ANALYSIS RESULT

| Sl. No. | Items | Unit | Result | *NAAQ Standard | Testing Method |
|---------|---|-------------------|--------|----------------|--------------------|
| 01 | Particulate Matter (PM ₁₀) | µg/m ³ | 64.8 | 100 | IS: 5182 (Part-23) |
| 02 | Particulate Matter (PM _{2.5}) | µg/m ³ | 33.6 | 60 | IS: 5182 (Part-24) |
| 03 | Sulphur Dioxide (SO ₂) | µg/m ³ | 12.2 | 80 | IS: 5182 (Part-2) |
| 04 | Nitrogen Oxides (NO _x) | µg/m ³ | 17.6 | 80 | IS: 5182 (Part-6) |
| 05 | Carbon Monoxide (CO) | mg/m ³ | 0.52 | 4.0 | IS: 5182 (Part-10) |

*NAAQ (National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification)

End of Report


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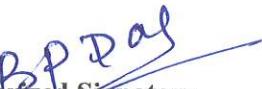
Issued Date-09.07.2024

NOISE MONITORING REPORT

| | |
|------------------------------|---|
| Name & Address of the Client | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024N |
| Nature of Sampling | Noise Monitoring |
| Sampling By | Mr.R.N Das |
| Instrument Used | Noise Level Meter |
| Sampling Date | 01.07.2024 |

| Sl. No. | Locations | Unit | Day time | | | Night time | | |
|---------|----------------------|-------|----------|------|------|------------|------|------|
| | | | Max | Min | Avg | Max | Min | Avg |
| 1 | Near DG-1 (30 KVA) | dB(A) | 73.6 | 67.2 | 70.4 | 66.3 | 62.1 | 64.2 |
| 2 | Near DG-2 (200 KVA) | dB(A) | 72.3 | 68.3 | 70.3 | 67.1 | 63.5 | 65.3 |
| 3 | Near DG-2 (62.5 KVA) | dB(A) | 71.8 | 66.6 | 69.2 | 65.3 | 60.5 | 62.9 |

| Area Code | Category of Area/Zone | Permissible Limit in dB (A) | | |
|-----------|-----------------------|-----------------------------|------------|--|
| | | Day Time | Night Time | |
| A | Industrial Area* | 75 | 70 | |
| B | Commercial Area | 65 | 55 | |
| C | Residential Area | 55 | 45 | |
| D | Silence Zone | 50 | 40 | |


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Report no. - CEMC/DF/090724/St1

Issued Date-09.07.2024

DG STACK ANALYSIS REPORT

| | |
|----------------------------------|---|
| Client Name & Address | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024 St1 |
| Nature of Sampling | DG Stack Monitoring |
| Sampling Location | DG-1 (30KVA) |
| Sampling By | Mr.R.N Das |
| Sampling Date | 01.07.2024 |

ANALYSIS RESULT

| Sl. No | Items | Result | Standard as per CPCB | Testing Method |
|---------------|---|---------------|-----------------------------|----------------------------|
| 01 | Flue Gas Temp. in K | 363 | -- | IS 11255 (PART-3) |
| 02 | Average flue gas Velocity in m/sec | 7.02 | -- | IS 11255 (PART-3) |
| 03 | Differential Pressure in mmH ₂ O | 3.4 | -- | IS 11255 (PART-3) |
| 04 | Particulate Matter (PM) in g/kW-hr | 0.22 | 0.3 | IS 11255 (PART-1) |
| 05 | NOX+NMHC in g/kW-hr | 3.1 | 4.7 | Colorimetric Method |
| 06 | Carbon Monoxide (CO) in g/kW-hr | 2.6 | 3.5 | Flue Gas Analyzer |

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in meter, h = Height of the building in meters where the generator set is installed, KVA = Total generator set capacity in KVA)


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Report no. - CEMC/DF/090724/St2

Issued Date-09.07.2024

DG STACK ANALYSIS REPORT

| | |
|----------------------------------|---|
| Client Name & Address | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024St2 |
| Nature of Sampling | DG Stack Monitoring |
| Sampling Location | DG-2 (200 KVA) |
| Sampling By | Mr.R.N Das |
| Sampling Date | 01.07.2024 |

ANALYSIS RESULT

| Sl. No | Items | Result | Standard as per CPCB | Testing Method |
|--------|---|--------|----------------------|---------------------|
| 01 | Flue Gas Temp. in K | 379 | -- | IS 11255 (PART-3) |
| 02 | Average flue gas Velocity in m/sec | 6.85 | -- | IS 11255 (PART-3) |
| 03 | Differential Pressure in mmH ₂ O | 3.1 | -- | IS 11255 (PART-3) |
| 04 | Particulate Matter (PM) in g/kW-hr | 0.15 | 0.2 | IS 11255 (PART-1) |
| 05 | NOX+NMHC in g/kW-hr | 2.6 | 4.0 | Colorimetric Method |
| 06 | Carbon Monoxide (CO) in g/kW-hr | 2.2 | 3.5 | Flue Gas Analyzer |

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in meter ,h = Height of the building in meters where the generator set is installed, KVA = Total generator set capacity in KVA)


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Report no. - CEMC/DF/090724/St3

Issued Date-09.07.2024

DG STACK ANALYSIS REPORT

| | |
|----------------------------------|---|
| Client Name & Address | M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Reference No. | CEMC-09072024St3 |
| Nature of Sampling | DG Stack Monitoring |
| Sampling Location | DG-3 (62.5 KVA) |
| Sampling By | Mr.R.N Das |
| Sampling Date | 01.07.2024 |

ANALYSIS RESULT

| Sl. No | Items | Result | Standard as per CPCB | Testing Method |
|---------------|---|---------------|-----------------------------|----------------------------|
| 01 | Flue Gas Temp. in K | 370 | -- | IS 11255 (PART-3) |
| 02 | Average flue gas Velocity in m/sec | 7.79 | -- | IS 11255 (PART-3) |
| 03 | Differential Pressure in mmH ₂ O | 4.1 | -- | IS 11255 (PART-3) |
| 04 | Particulate Matter (PM) in g/kW-hr | 0.24 | 0.3 | IS 11255 (PART-1) |
| 05 | NOX+NMHC in g/kW-hr | 3.6 | 4.7 | Colorimetric Method |
| 06 | Carbon Monoxide (CO) in g/kW-hr | 2.8 | 3.5 | Flue Gas Analyzer |

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in meter, h = Height of the building in meters where the generator set is installed, KVA = Total generator set capacity in KVA)


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Report no. - CEMC/DF/090724/W1

Issued Date-09.07.2024

WATER QUALITY TEST REPORT

| | |
|------------------------------|---|
| Name & Address of the Client | : M/s. MAHADHAN AGRITECH LIMITED TAN, GOPALPUR |
| Date of Sampling | : 01.07.2024 |
| Sampling by | : Mr.R.N Das |
| Date of Sample Received | : 01.07.2024 |
| Date of Analysis | : 01.07.2024 to 08.07.2024 |
| Sample Description | : Drinking water |
| Sample Quantity | : 1.0 Ltr |
| Sample Location | : MAL Project Office |
| Reference No. | : CEMC-09072024W1 |

ANALYSIS RESULT

| Sl. No | Parameter | Unit | Standard as per IS: 10500 | Testing Method | Result |
|--------|--|-------|---------------------------|---|--------|
| 1 | Colour | Hazen | 5 | APHA 2120 B,C | <5 |
| 2 | Odour | - | AL | APHA 2150 B | AL |
| 3 | Taste | - | AL | APHA 2160 C | AL |
| 4 | Turbidity | NTU | 1 | APHA 2130 B | <1 |
| 5 | pH Value | - | 6.5-8.5 | APHA 4500H ⁺ B | 6.56 |
| 6 | Total Hardness (as CaCO ₃) | mg/l | 200 | APHA 2340 C | 26 |
| 7 | Iron (as Fe) | mg/l | 0.3 | APHA 3500Fe, B | <0.05 |
| 8 | Chloride (as Cl) | mg/l | 250 | APHA 4500Cl ⁻ B | 9.72 |
| 9 | Residual, free Chlorine | mg/l | 0.2 | APHA 4500Cl, B | ND |
| 10 | Total Dissolved Solids | mg/l | 500 | APHA 2540 C | 68.2 |
| 11 | Calcium (as Ca) | mg/l | 75 | APHA 3500Ca B | 5.55 |
| 12 | Magnesium (as Mg) | mg/l | 30 | APHA 3500Mg B | 2.88 |
| 13 | Copper (as Cu) | mg/l | 0.05 | APHA 3111 B,C | <0.03 |
| 14 | Manganese (as Mn) | mg/l | 0.1 | APHA 3500Mn B | <0.05 |
| 15 | Sulphate (as SO ₄) | mg/l | 200 | APHA 4500 SO ₄ ²⁻ E | 1.52 |
| 16 | Nitrate (as NO ₃) | mg/l | 45 | APHA 4500NO ₃ ⁻ E | 0.43 |
| 17 | Fluoride (as F) | mg/l | 1.0 | APHA 4500F ⁻ C | 0.1 |
| 18 | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | APHA 5530 B,D | <0.001 |
| 19 | Mercury (as Hg) | mg/l | 0.001 | APHA 3500Hg | <0.001 |
| 20 | Cadmium (as Cd) | mg/l | 0.003 | APHA 3111 B,C | <0.003 |
| 21 | Selenium (as Se) | mg/l | 0.01 | APHA 3114 B | <0.001 |
| 22 | Arsenic (as As) | mg/l | 0.01 | APHA 3114 B | <0.001 |
| 23 | Cyanide (as CN) | mg/l | 0.05 | APHA 4500CN ⁻ C,D | ND |
| 24 | Lead (as Pb) | mg/l | 0.01 | APHA 3111 B,C | <0.01 |
| 25 | Zinc (as Zn) | mg/l | 5 | APHA 3111 B,C | <0.05 |
| 26 | Chromium (as Cr ⁶⁺) | mg/l | 0.05 | APHA 3500Cr B | <0.05 |
| 27 | Mineral Oil | mg/l | 0.01 | APHA 5220 B | <0.01 |
| 28 | Alkalinity (as CaCO ₃) | mg/l | 200 | APHA 2320 B | 26.4 |
| 29 | Aluminium (as Al) | mg/l | 0.03 | APHA 3500Al B | <0.01 |
| 30 | Boron (as B) | mg/l | 0.5 | APHA 4500B, B | <0.2 |

NB: AL- Agreeable, ND-Not Detected

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No.-522/3458,Near Utkal Hyundai,Opposite Apex College,Pahal,Bhubaneswar-752101,Odisha, India, ,Mobile: 9861032826

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
 E-mail: cemclab@yahoo.in



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2015 & OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report no. - CEMC/DF/090724/W1

Issued Date-09.07.2024

AS PER ANALYSIS REPORT THIS WATER IS PORTABLE.

Authorized Signatory



Notes:

- The result given above related to the tested sample, as received. The customer asked for the above test only.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, , Mobile: 9861032826

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
E-mail: cemclab@yahoo.in



SAI SRI CONSTRUCTIONS

ENGINEERS & CONTRACTORS

Specialist in Pile Foundations

Ref: SSC/TSSEZL/24-25/001

Date: 14-09-2024

PURCHASE ORDER

To

Tata Steel Special Economic Zone Limited
2B, 2nd Floor, Fortune Towers,
Chandrasekhrpur, Bhubhaneswar – 751023
GSTIN: 21AACCG8304L1ZS

Dear Sir/ Madam,

Sub: Disposal of Soil – PO Regarding

Ref: TSSEZL/MKT/CO/075 Dated: 05-09-24, PI/TSSEZL/016/23-24 Dated: 10-09-24

With reference to the above commercial offer and TSSEZL invoice, the payment for the said 100% amount (Rs. 123900.00, inclusive of taxes) is made on 12-09-24 through Axis Bank and the transaction UTR No. is **AXISP00539549057** for your reference.

Terms & Conditions:

1. Estimated Quantity of the soil to be disposed – 3,500 m³.
2. Disposal location for the bored soil shall be informed by TSSEZL.
3. Transportation for the disposal shall be arranged by Sai Sri Constructions (SSC) at its own cost.
4. Rate of the disposed material is Rs. 30.00/- per cubic meter, exclusive of taxes.
5. Taxes, duties and other applicable charge will be extra and borne by SSC.
6. Sai Sri Constructions (SSC) shall be liable to pay the applicable royalty (if any).
7. Measurement of soil to be disposed of shall be jointly conducted by TSSEZL & SSC.
8. TSSEZL shall raise a tax invoice based on the volume of soil disposed of, following joint verification by both TSSEZL and SSC. Adjustment of the advance amount/payment of additional amount by SSC shall be as per the final invoice.
9. Sai Sri Constructions will adhere to all the safety procedures as applicable within Gopalpur Industrial Park.
10. SSC will ensure proper levelling and compaction of the dumped material at the designated area.
11. SSC will ensure that no plastic, metals or other non-degradable items are included in the dumped material. Only biodegradable and construction waste will be dumped.
12. Sai Sri Constructions shall comply with all applicable statutory regulations.

Kindly treat this as the PO for the mentioned work and give us the permission to work against the offer.

Thanking You,

For SAI SRI CONSTRUCTIONS



D Sree Rama Murthy

AT S.Arjipalli, W/11-H.No.82, Menani Thana, Rajamma Street, Post - Bada Aryapalli, Chatrapur, Ganjam, Odisha - 761 045

GSTIN : 21ABPFS9286E2ZQ

PAN No. ABPFS9286E

0891-2557751

98485 38833, 92466 20444

info@saisri.in, reddy_chsn@yahoo.co.in

www.saisri.in

Annexure 3

PPE Compliance

In Project Safety Plan we declared the Mandatory PPE's-

- Safety Shoe
- Safety Helmet
- Reflective Vest

In addition to above mandatory PPE's; prior to performance the task on ground, we are performing Job risk assessment, in which we mention the usage of job specific PPE's like Face Shield, Face Visor, Leather Hand gloves and Leather Body apron etc.. for personal safety. Workmen's are wearing such mandatory and additional job specific PPE's during their works on the ground ; which monitored and supervised by the safety representatives.



Annexure 3.1

First Aid Center & Ambulance Facility at site

A full-fledged occupational health centre (OHC) at site, with round the clock availability of male nurse and Ambulance Facility at site.



SIKSHA 'O' ANUSANDHAN

(A Deemed to be University declared u/s 3 of UGC Act, 1956)

Re-Accredited by NAAC with A++ Grade

AGREEMENT

This agreement is entered into at Berhampur on this 01 July 2024

BETWEEN

IMS & SUM HOSPITAL, CAMPUS-III, a company incorporated under the Companies Act, 1956 and having its registered office at SITALAPALLI, PO-NARENDRAPUR, DIST.- GANJAM, ODISHA, PIN-760007. (Hereinafter referred to as 'IMS & SUM HOSPITAL, CAMPUS-III' which expression shall, unless repugnant to or inconsistent with the context or meaning thereof, mean and include its successors and permitted assigns) of the ONE PART.

AND

TOYO INDIA PRIVATE LIMITED a company incorporated under the Companies Act, 1956 having its Registered Office at 71, Kanjurmarg (E), Mumbai – 400 042, INDIA, India and having its Project Office at C/o- Mahadhan Agritech Limited , Plot No. DLCT-1, Gopalpur Industrial Park, Chamakhandi, Chatrapur, Ganjam, Odisha, Pin No- 761020 (herein after called as TOYO-I which expression shall, unless repugnant to or inconsistent with the context or meaning thereof, mean and include its successors and permitted assigns), of the OTHER PART.

WHEREAS IMS & SUM HOSPITAL, CAMPUS-III a pioneer in the field of healthcare running a chain of Multi-Specialty Hospitals and other health care facilities in Odisha, investigations, Consultation/Opinion, Nursing & Pharmacological, Counseling, Procedural & Surgical Treatment, Dietary Service and other Emergency Services.

WHEREAS TOYO-I is engaged in the **2 X 10,000 MT Ammonia Storage Tank and associated facilities** of Ganjam District and is desirous of offering its employee's emergency medical services, IP Admissions and first aid services from IMS & SUM HOSPITAL CAMPUS-III. We have agreed to offer our expertise and capabilities for healthcare of employees referred by TOYO-I.

WHEREAS IMS & SUM HOSPITAL, CAMPUS-III and TOYO-I after mutual discussions, proposed to enter into this agreement to record the terms and conditions therefore as contained hereinafter in this Agreement.

NOW THIS AGREEMENT WITNESSETH:

1. DEFINITIONS:

a) "Authorization Letter" means a letter issued by TOYO-I addressed to IMS & SUM HOSPITAL, CAMPUS-III, authorizing IMS & SUM HOSPITAL, and CAMPUS-III to provide the services in case of any emergency. The Authorization letter shall be duly signed by the authorized signatory of TOYO-I and shall contain all the relevant details necessary for enabling IMS & SUM HOSPITAL, CAMPUS-III for providing the Services. The Authorization Letter will be sent to IMS & SUM HOSPITAL, CAMPUS-III within 48 hours of TOYO-I working days.

b) "Emergency Medical Facilities" includes medical treatment including but not limited to the necessary tests, scans/MRI, surgeries etc. provided by IMS & SUM Hospital, CAMPUS-III to the employees/workers who are admitted as "in-patients" and also any treatment given during emergency. The treatment of the employee/worker shall be decided solely by IMS & SUM HOSPITAL, CAMPUS-III and/or its Doctors based on the ailment suffered.


Director
IMS & SUM Hospital-III
Sitalapalli, Ganjam



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c) "In-patients" means a patient who is admitted in IMS & SUM HOSPITAL, CAMPUS-III.

02. for all admissions, being "In-Patients" or treatment given during emergency. The authentication of the respective employee will have to be verified by IMS & SUM HOSPITAL CAMPUS-III official with TOYO-I authorized representative.

03. IMS & SUM HOSPITAL, CAMPUS-III will also provide emergency ambulance facility for pickup of the patient, subject to the patient being within 50kms radius from IMS & SUM HOSPITAL, CAMPUS-III and subject to the availability of the equipped ambulance during the time of emergency.

04. IMS & SUM HOSPITAL, CAMPUS-III shall provide the services to the employees admitted as "In-patients" at IMS & SUM HOSPITAL, CAMPUSIII Rates on a credit basis. In the cases of emergency and in the absence of the Authorization Letter, IMS.& SUM HOSPITAL, CAMPUS-III shall provide services to the employees admitted as "In- patient" at IMS & SUM HOSPITAL, CAMPUS-III rates upon the employee presenting to IMS & SUM HOSPITAL, CAMPUS-III his/her Identity Card and/or a telephonic confirmation from authorized Official as given hereunder, to avail the Credit facility of IMS & SUM HOSPITAL, CAMPUS-III.

05. IMS & SUM HOSPITAL, CAMPUS-III will provide a room/bed, as per the eligibility criteria mentioned in the Authorization Letter. In case accommodation is not available as per the eligibility, IMS & SUM HOSPITAL, CAMPUS-III will admit the employee immediately in the next higher class of accommodation and shift the employee immediately on availability of the specified room as per eligibility. However, in exceptional cases of contagious diseases or when it is mandatory for the patient to stay separately on medical advice, such facility may be provided to the employee and the same may be billed accordingly. TOYO-I shall define the eligibility criteria beforehand commensurate with the employee grade.

06. This arrangement shall commence as of the Effective date on 01-07-2024 and shall be valid, till the Completion of the **Ammonia Storage Tank and associated facilities Project, Ganjam**.

07. This agreement shall be valid unless terminated by the parties in writing. Either party may terminate this arrangement at any time by giving at least One-month prior written notice to the Other Party. IMS & SUM HOSPITAL, CAMPUS-III can terminate the Agreement on continuous nonpayment by TOYO-I of the Bills for period of 2 (two) months at any time.

08. IMS & SUM HOSPITAL, CAMPUS-III agrees that, in case this arrangement is terminated, the In-Patients who are already admitted will continue to receive complete treatment till such time they are discharged.

09. The Authorization letter shall be signed only by TOYO-I authorized official given as under on its letter head. The list of authorized signatories shall also be provided.

10. IMS & SUM HOSPITAL, CAMPUS-III will provide TOYO-I, the details of their relationship officer who can be contacted during emergencies. The confirmation by the relationship officer to IMS & SUM HOSPITAL, CAMPUS-III should be adequate to immediately start all the necessary treatment of the patient until and unless the authorization letter is received from TOYO-I at IMS & SUM HOSPITAL, CAMPUS-III within 48 hrs.

11. MEDICAL DISCHARGE SUMMARY

IMS & SUM HOSPITAL, CAMPUS-III shall, in respect of each employee referred by TOYO-I for treatment will maintain due registration, record of investigations any key medical inference as part of its medical record and provide a discharge summary.

Any clarification required by TOYO-I on the Medical treatment shall be addressed to IMS & SUM HOSPITAL, CAMPUS-III.

The corporate desk at IMS & SUM HOSPITAL, CAMPUS-III would from time to time intimate the CMO/authorized representative on the progress made by the patient admitted at IMS & SUM HOSPITAL, CAMPUS-III.

12. DIET


Director
IMS & SUM Hospital-III
Sikatapalli, Ganjam



It is agreed that the patients admitted, will be provided the diet as planned by a dietitian and such charges are exclusive in the room rent. A dietitian's fee will be charged. However, the persons accompanying the patient will not be provided such diet and will have to make their own arrangement.

13. PRE/PERI/POST TREATMENT REPORT & FOLLOW UP

IMS & SUM HOSPITAL, CAMPUS-III will provide Health Status Report and or Estimate of Treatment only on written request by TOYO-I. TOYO-I could request such reports or estimates only for complicated and critical treatments. Follow-up/Checkup dates shall be advised to the patients at the time of their discharge from IMS & SUM HOSPITAL, CAMPUS-III, but sending them again for such post treatment check-up /follow-up will be left to the discretion of the authorized officers of TOYO-I.

14. BILLING AND PAYMENT

IMS & SUM HOSPITAL, CAMPUS-III shall for the cashless facility extended present the Bills accompanied a copy of the authorization letter issued by TOYO-I in favor of the employee, to TOYO-I on a monthly basis and TOYO-I shall settle the same within 30 days from the of receipt of the bill.

However, in the event of TOYO-I requiring any clarification in respect of the bill, it shall write to IMS & SUM HOSPITAL, CAMPUS-III seeking clarification within 15 days from the date of IMS & SUM HOSPITAL, CAMPUS-III providing the clarification.

15. DISPUTE RESOLUTION

The parties agree to attempt to resolve all disputes arising hereunder, promptly, equitably and good faith.

All disputes, controversies, claims and differences arising out of or in relation to this Agreement any breach hereof, except those which cannot be settled through correspondence and mutual Consultation of the parties hereto, shall be finally settled by arbitration to be conduct in Bhubaneswar in accordance with the provisions of the Arbitration and Conciliation Act 1996 or any status modification(s) or reenactment thereof for the time being in force. All arbitration proceedings shall be conducted in English and daily record of such proceedings shall be maintained in English.

Notwithstanding anything contained in the Agreement, on termination of the Agreement this claim will continue exist until all disputes related to the parties under this Agreement have been resolved.

16. CONFIDENTIAL INFORMATION

Each party recognize that during negotiations and pursuant to this Agreement, it has been and will be given access to information that is confidential and/or proprietary to the other party. Each party undertakes not to use any such confidential, proprietary or restricted information for own purposes without the prior written consent of the other party.

17. AMENDMENTS

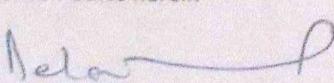
No modifications or amendments of the Agreement and no waiver of any of the terms or condition here of, shall be valid or binding unless made in writing and duly executed by both parties.

18. ENTIRE UNDERSTANDING

This Agreement sets out the entire understanding of the parties in respect of the subject matter hereof, and overrides any agreement or other document, recording the understanding negotiations or commitments of the parties of the subject matter hereof, prior to the date first above written.

19. THIRD PARTY RIGHTS

This Agreement is not intended and shall not be construed to confer on any person other than the parties here to, any rights and/or remedies herein


Director
IMS & SUM Hospital-III
Sikiaipatti, Ganjam



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20. ASSIGNMENT

Neither party shall assign and/or transfer any nor all of its rights, obligation and / or interests arising or claimed under or by virtue of this Agreement to a third party without obtaining the prior written consent of the other party.

21. CREDIT LIMIT

IMS & SUM HOSPITAL, CAMPUS-III shall facilitate for cashless facilities wherever applicable. However, the maximum credit limit will be Rs. 05 Lakh which shall be paid by TOYO-I as per Clause 14 of this agreement.

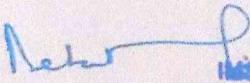
22. LAW & JURISDICTION:

This Agreement shall be governed in accordance with the provisions of the laws of India and subject to the jurisdiction of courts in Chennai.

IN WITNESS WHEREOF both the PARTIES here to have signed this Agreement on this day, month and year as mentioned above.

Signed by

Signed by


Deba Prasad Dash (DIRECTOR)
Director
IMS & SUM Hospital-III
Sakapalli, Gajjum

Authorized Signatory

For & on behalf of

IMS & SUM HOSPITAL, CAMPUS-III


Toyo-I Tata - Mal/Tata SEZ
GOPALPUR INDUSTRIAL PARK
PROJECT 6455
MTAT
Engineering India Pvt. Ltd.
For & on behalf of
GOPALPUR
Scanned by



AASTHA HOSPITAL

(All types of OPD & IPD, Surgery Are Done Here)

Date: AASTHA HOSPITAL LANE, INSIDE BHABA NAGAR, BRAHMAPUR- 4 (GM.)

Cell : 9437187004, 9861167080, Regd. No. : 735/07

Place: Berhampur



Ref. No.

Date

To

RCM (Resident Construction Manager),

ThermosystemsPvt. Ltd (TSPL),

MahadanAgitech Ltd. (MAL),

P-427, Gopalpur – Odisha.

Subject: Tie-up for Medical Treatments

Dear Sir,

We are happy to inform you that, our hospital will facilitate all possible treatment for the employees of ThermosystemsPvt. Ltd. in the event of any accidental emergency.

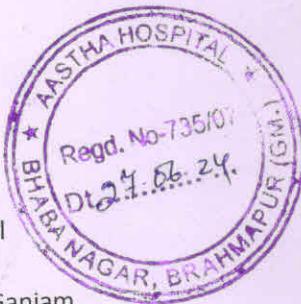
We are committed to serve our patient for their betterment at all possible extent.

Thanks & Regards,

For, Aastha Hospital

Berhampur, Dist:- Ganjam

State: Odisha.



Annexure 4

Trainings Conducted to workmen

Emergency & FirstAid Training to workmen



Job Specific Training at Site



| TAN PROJECTS AT GOPALPUR | | | |
|--|---------------------|---|---------------|
| Attendance Sheet of EHS Training (MAL-TCE-EHS-003-R-01) | | TATA TATA CONSTRUCTION INDIA LIMITED | |
| Date: | 10-12-2024 | | |
| Time: | 9:30 AM | | |
| Location: | TURBO COMPRESSOR | | |
| Topic: | FIRE FIGHTING | | |
| Conducted by: | MITRANAND ABITHANI | | |
| Sl. No. | Name | Designation | Signature |
| 1 | Dengatham Nitol | Cap | Tech |
| 2 | Hemant Jaiswal | Cap | Hemant |
| 3 | Utpala Pradhan | EM | Utpala |
| 4 | Rakesh Patel | F | Rakesh |
| 5 | Dilip Yadav | R | Dilip |
| 6 | Rakesh kumar yadav | L | Rakesh |
| 7 | Ramgopal Patel | R | Ramgopal |
| 8 | Ram Latachand Patel | R | Ram Latachand |
| 9 | Ramgopal | R | Ramgopal |
| 10 | Bhaveshkumar Patel | R | Bhaveshkumar |
| 11 | Jitendra Sethi | R | Jitendra |
| 12 | Dinesh Patel | Kh | Dinesh |
| 13 | Sambhav Patel | R | Sambhav |
| 14 | Gopal Patel | Kh | Gopal |
| 15 | Dipak Sethi | H | Dipak |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

[Signature]
Signature of Trainer...

| TAN PROJECTS AT GOPALPUR | | | |
|--|---|---|--------------------|
| Attendance Sheet of EHS Training (MAL-TCE-EHS-003-R-01) | | TATA TATA CONSTRUCTION INDIA LIMITED | |
| Date: | 26-11-2024 | | |
| Time: | 11:00 A.M. to 11:30 A.M. | | |
| Location: | Tower M-8, Ayodhya Area | | |
| Topic: | Work at Height | | |
| Conducted by: | Chandrasekhar, Siva, Srinivasan, Ramal, Mahesh, Prabhu, | | |
| Sl. No. | Name | Designation | Signature |
| 1 | Lipson Behera | Site Foreman | <i>[Signature]</i> |
| 2 | Samyakaran Nayak | Supervisor | <i>[Signature]</i> |
| 3 | Kale Choran Biswak | Supervisor | <i>[Signature]</i> |
| 4 | M. Harikrishna Rao | Fabricator | <i>[Signature]</i> |
| 5 | Santosh Kumar Behera | Fitler | <i>[Signature]</i> |
| 6 | Bhaskar Reddy | Fitler | <i>[Signature]</i> |
| 7 | Bonamali Sahu | Fitler | <i>[Signature]</i> |
| 8 | Dwarika Nath Pradhan | Fitler | <i>[Signature]</i> |
| 9 | Simon Chala Behera | Rigger | <i>[Signature]</i> |
| 10 | Dibyashish Gouda | Rigger | <i>[Signature]</i> |
| 11 | Dilip Behera | Scalorider | <i>[Signature]</i> |
| 12 | Jagannath Reddy | Khakasi | <i>[Signature]</i> |
| 13 | Parinay Patel | Khakasi | <i>[Signature]</i> |
| 14 | Jitendra Gouda | Gas cutter | <i>[Signature]</i> |
| 15 | L. Dilip Kumar | Gas cutter | <i>[Signature]</i> |
| 16 | Sitaram Behera | Weldor | <i>[Signature]</i> |
| 17 | Susont Nihal | Weldor | <i>[Signature]</i> |
| 18 | Prince Behera | Helper | <i>[Signature]</i> |
| 19 | M. Haris Chandra | Helper | <i>[Signature]</i> |
| 20 | Sitaram Patel | Helper | <i>[Signature]</i> |

[Signature]
Signature of Trainer...

| TAN PROJECTS AT GOPALPUR | | | |
|--|---|---|----------------------|
| Attendance Sheet of EHS Training (MAL-TCE-EHS-003-R-01) | | TATA TATA CONSTRUCTION INDIA LIMITED | |
| Date: | 20-12-2024 | | |
| Time: | 3:30 PM | | |
| Location: | Height work & hot work & scaffolding work | | |
| Topic: | Manas K. Pradhan | | |
| Conducted by: | | | |
| Sl. No. | Name | Designation | Signature |
| 1 | Ganesh kumar Behera | Fitler | Ganesh kumar Behera |
| 2 | Banamali Behera | " | " |
| 3 | Jitendra Biswak | Gas cutter | Jitendra Biswak |
| 4 | Dwarika Nath Pradhan | Rigger | Dwarika Nath Pradhan |
| 5 | Susanta Nayak | Welder | Susanta Nayak |
| 6 | Susanta Behera | Scaffolder | Susanta Behera |
| 7 | Sitaram Behera | Rigger | Sitaram Behera |
| 8 | Chandan Patel | Scaffolder | Chandan Patel |
| 9 | M. Behera | Rigger | M. Behera |
| 10 | Tushar Pradhan | " | Tushar Pradhan |
| 11 | Dhanendra Sethi | Scaffolder | Dhanendra Sethi |
| 12 | Dharendra Behera | " | Dharendra Behera |
| 13 | Sunit Pradhan | " | Sunit Pradhan |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

[Signature]
Signature of Trainer...

Annexure 6

Tree Plantation









Free Eye Screening and Cataract Operation Camp

Organized by Mahadhan Agritech Limited, TAN Gopalpur in close association with Sankara Eye Hospital, Samarjhola

(Kalipalli Gram Panchayat on 22 September 2024)



Background:

India is home to almost 35 million people suffering from Visual disorders. Almost 80% of these are avoidable or curable and yet a very large population continue to live with these disorders and many of them go blind for want of accessible and affordable treatment. Rural Odisha (Kallipalli GP) suffers from the absence of access to qualitative and affordable eye care.

Determine eye impairments, such as glaucoma, cataracts, and macular degeneration, that unnoticeably develop over time. Regular eye check-ups can detect these conditions early on before they cause significant vision loss in around 5-6 villages of Kalipalli Panchayat of Chatrapur block of Ganjam district in Odisha. These villages are in and around the MAL construction site.

Free Eye Screening cum Cataract operation camp:

The primary objective of the camp was to raise awareness about eye health and provide access to free eye and general health check-ups to people who could not afford them. The camp was set up in a community centre and was open to all, regardless of age, gender, or socio-economic status.

MAL and Sankar Eye Hospital, Samarhol jointly organized this initiative at Kalipalli Community Hall on 22nd September 2024. Medical professionals of Sankar Eye Hospital, Ophthalmologists, optometrists, and general physicians were part of this camp, where they conducted eye screening and minor treatments using teleophthalmology services. People who require cataract surgeries and other eye surgeries are referred to their base hospital at Samarjhol.

Process initiated:

MAL team and Sankara Eye Hospital's camp manager had developed the content for the public announcement and design & printing of the leaf plate before the program. Earlier, MAL team had visited the Sankara Eye Hospital to ensure that the technical team of SEH reached the venue in time and that necessary logistics were provided for the possible patients having cataract operations at the hospital. Kalipalli Village committee were informed earlier and taken their consent to organize the camps in their village. Public announcement and distribution of leaf plates containing the time and venue of the camp were done for three days continuously in the nearby villages.



In the camp, 108 patients registered their names for screening. Out of 108, 27 patients were identified for cataracts operations and asked to go to Sankara Eye Hospital for an operation. Similarly, out of 108, 39 patients identified as having vision problems and who provided bifocal spectacles freely on the spot.

The Kalipalli Village committee has appreciated the program and requested to continue the same in near future.

SNAPSHOT







Conclusion

Due to this camp, 15 patients from Kalipalli and its nearby villages receive free eye surgeries, regaining their sight and independence. Now these 15 patients can return to their work, support their families and participate in daily activities with renewed confidence. 39 patients identified having vision issues received free spectacles can perform better in reading news papers and work at site without any hindrances.

This camp brings hope and joy to many, transforming lives one eye at a time.

XXXXXXXXXXXX



SMARTCHEM
TECHNOLOGIES
LIMITED

Dated the 17th of June 2021

To
The Collector and District Magistrate,
Ganjam,
Odisha.



Sub: - Intimation regarding grant of Environmental Clearance to set up project of "Technical Ammonium Nitrate Manufacturing Plant by M/S Smartchem Technologies Ltd. (STL) located at DLCT-I, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha regarding.

Ref: - MoEF Letter No – F. No : IA-J-11011/152/2020-IA-II (I) dated 25-05-2021.

Dear Sir,

With reference to the subject cited above, we are happy to inform you that the Ministry of Environment, Forest and Climate Change, Government of India has accorded Environmental Clearance with specific and general conditions to set up project of "Technical Ammonium Nitrate Manufacturing Plant by M/S Smartchem Technologies Ltd. (STL) located at DLCT-I, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha on 25 – 05 – 2021 under the provisions of EIA Notification, 2006 and the amendments therein.

In compliance with the General Conditions of the said Clearance, we are submitting herewith a copy of the letter granting Environment Clearance in favour of STL for ready reference and kind perusal.

Thanking & assuring you of our best intent for investment & partnership with Government of Odisha.

Thanking you,

Yours faithfully,

For SMARTCHEM TECHNOLOGIES LIMITED.

(Dr. Srimat Roy)

General Manager, Corporate Affairs

N-2/9, IRC Village, 1st Floor, Nayapalli, Bhubaneswar-751015, Odisha, India.

E-mail – srimat.roy@dfpcl.com, M – 09777741555



Projects & Technology: Plot No. 32, Sector 16, Opp. K.B.P. (Modern College),
Vashi, Navi Mumbai - 400 703 | Tel.: +91 22 41518888 | Fax: +91 22 2766 3361

Regd. Office: Sai Hira, Survey No. 93, Mundhwa, Pune - 411 036 | Tel.: +91 20 6645 8000
Website: www.smartchem.co.in | CIN: U67120PN1987PLC166034

100% subsidiary of Deepak Fertilisers
And Petrochemicals Corporation Limited



SMARTCHEM
TECHNOLOGIES
LIMITED

Dated the 17th of June 2021

To
The Sub Collector,
Chhatrapur, Ganjam,
Odisha.

Sub: - Intimation regarding grant of Environmental Clearance to set up project of "Technical Ammonium Nitrate Manufacturing Plant by M/S Smartchem Technologies Ltd. (STL) located at DLCT-I, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha regarding.

Ref: - MoEF Letter No – F. No : IA-J-11011/152/2020-IA-II (I) dated 25-05-2021.

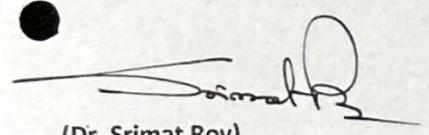
Dear Sir,

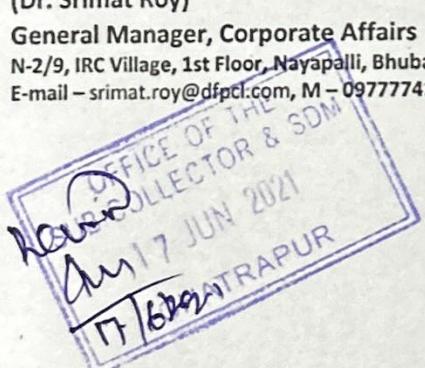
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In compliance with the General Conditions of the said Clearance, we are submitting herewith a copy of the letter granting Environment Clearance in favour of STL for ready reference and kind perusal.

Thanking & assuring you of our best intent for investment & partnership with Government of Odisha.

Thanking you,
Yours faithfully,
For SMARTCHEM TECHNOLOGIES LIMITED.


(Dr. Srimat Roy)
General Manager, Corporate Affairs
N-2/9, IRC Village, 1st Floor, Nayapalli, Bhubaneswar-751015, Odisha, India.
E-mail – srimat.roy@dfpcl.com, M – 09777741555





SMARTCHEM
TECHNOLOGIES
LIMITED

Dated the 17th of June 2021

To
The President,
Zilla Parishad, Ganjam,
Odisha.

Sub: - Intimation regarding grant of Environmental Clearance to set up project of "Technical Ammonium Nitrate Manufacturing Plant by M/S Smartchem Technologies Ltd. (STL) located at DLCT-I, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odhisha regarding.

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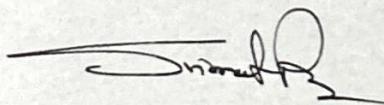
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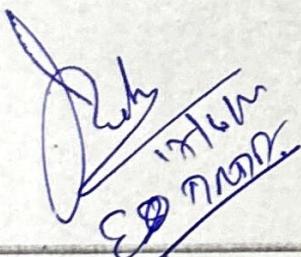
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E-mail – srimat.roy@dfpcl.com, M – 09777741555


E.P. 7700



SMARTCHEM
TECHNOLOGIES
LIMITED

Dated the 17th of June 2021

To
The Sarpanch,
Kalipalli Gram Panchayat,
Chhatrapur, Ganjam,
Odisha.

Sub: - Intimation regarding grant of Environmental Clearance to set up project of "Technical Ammonium Nitrate Manufacturing Plant by M/S Smartchem Technologies Ltd. (STL) located at DLCT-I, Domestic Tariff Area, Gopalpur Industrial Park, Chamakhandi, Tehsil- Chatrapur, District- Ganjam, Odisha regarding.

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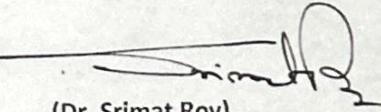
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N-2/9, IRC Village, 1st Floor, Nayapalli, Bhubaneswar-751015, Odisha, India.
E-mail – srimat.roy@dfpcl.com, M – 09777741555

Received
P. Dharmaraju Reddy
(M) – 9861718179.
(G.P Peon).



US targets Belarus with sanctions amid outcry over plane diversion

White House's economic curbs on Belarusian state-owned entities to begin on June 3

WASHINGTON

THE United States has announced punitive measures against Belarus targeting the regime of strongman President Alexander Lukashenko, who met with Russian president Vladimir Putin amid a global outcry over the forced diversion of a European plane.

White House press secretary Jen Psaki called for "a credible international investigation into the events of May 23," which she called "a direct affront to international norms."

Belarus scrambled a military jet to divert a Ryanair plane and arrested 26-year-old opposition journalist and activist Roman Protasevich who was onboard, triggering a global outcry.

The White House announced it was working with the European Union on a list of targeted sanctions against key members of Lukashenko's regime.

Meanwhile, economic sanctions against nine Belarusian state-owned enterprises, reimposed by Washington in April following a crackdown on pro-democracy protests, will come



Members of the Belarusian diaspora in Ukraine hold a rally against Lukashenko's regime outside the foreign ministry in Kiev | AFP

(US is calling for) a credible international investigation into the events of May 23, which is a direct affront to international norms

Jen Psaki, White House press secretary

into effect on June 3.

Further US moves on Belarus could target "those that support corruption, the abuse of human rights, and attacks

on democracy," Psaki said.

The White House also issued a "Do Not Travel" warning for Belarus to US citizens, and warned American passenger planes to "exercise extreme caution" if considering flying over Belarusian airspace.

The European Union has also urged EU-based carriers to avoid Belarusian airspace.

However President Vladimir Putin celebrated Russia's close ties with Belarus on Friday as

he hosted Lukashenko in the Black Sea resort of Sochi.

With observers closely watching the talks to see how far the Kremlin would go to support the regime, the Russian leader said he was "very glad" to see Lukashenko and agreed with him the Western reaction was an "outburst of emotion".

Lukashenko complained the West was seeking to stir unrest in Belarus. "An attempt is underway to rock the boat to reach the level of last August," he said, referring to anti-regime protests following a disputed election.

The Belarus strongman, who arrived with a briefcase, said he wanted to show Putin "some documents" related to the Ryanair incident and thanked him for his support in the latest standoff with the West. The talks lasted for more than five hours but their results were not announced.

Over the past years Lukashenko has had a volatile relationship with Moscow, playing it off against the West and ruling out outright unification with Russia.



An earthmover removes debris washed ashore from the burning ship on a beach in Colombo on Saturday | AFP

'Sri Lanka facing its worst marine ecological disaster'

COLOMBO

tonnes of hazardous nitric acid.

Darshani Lahandapura, Chairperson of the Marine Environment Pollution Authority (MEPA), said that according to the available information so far this would be the worst marine ecological disaster in the island nation.

"With the available information so far, this can be described as the worst disaster," she said. The plastic beads floating in the waters covering the affected coastal area are badly affecting the marine ecology, she said.

The cargo vessel was carrying a consignment of chemicals and raw materials for cosmetics from Hazira in Gujarat to Colombo Port on May 20 when it caught fire some 9.5 nautical miles away from the port of Colombo.

Apart from the 325 metric tonnes of fuel in its tanks, the vessel was loaded with 1,486 containers carrying about 25

tonnes of hazardous nitric acid.

Beni: Six people were killed, including a woman who was burned alive, during an attack blamed on the regional militia group ADF in eastern Democratic Republic of Congo, sources said Saturday. The Allied Democratic Forces were believed to have carried out the overnight attack on a road near the border with Uganda, where the group was founded. "ADF fighters attacked Kinyatsi, a village near the Virunga national park," said Donat Kibuna, local administrator for the Beni territory in North Kivu province. "We have counted six people killed, including a woman who was burned alive in her home," he said.

Remains of 215 children found at closed indigenous boarding school in Canada

TKAMLOOPS

THE remains of 215 children, some as young as three years old, have been found buried on the site of what was once Canada's largest Indigenous residential school, one of the institutions that held children taken from families across the nation.

Chief Rosanne Casimir of the Tk'emlups te Secw'pemc First Nation said in a news release that the remains were confirmed last weekend with the help of ground-penetrating radar.

More bodies may be found because there are more areas to search on the school grounds, Casimir said on Friday.

In an earlier release, she called the discovery an "unthinkable loss that was spoken about but never documented at the Kamloops Indian Residential School." It was the once the site of Canada's largest residential school.

From the 19th century until the 1970s, more than 150,000 First Nations children were required to attend state-funded Christian schools as part of a programme to assimilate them into Canadian society.

They were forced to convert to Christianity and not allowed to speak their native languages. Many were beaten and verbally abused, and up to 6,000 are said to have died. The Canadian government apologised in Parliament in 2008 and admitted that physical and sexual abuse in the schools was rampant.

Many students recall being beaten for speaking their native languages; they also lost touch with their parents and customs. Indigenous leaders have cited that legacy of abuse and isolation as the root cause of epidemic rates of alcoholism and drug addiction on reservations. A report more than five years ago by a Truth and Reconciliation Commission said at least 3,200 children had died amid abuse and neglect, and it said it had reports of at least 51 deaths at the Kamloops school alone between 1915 and 1963.

"This really resurfaces the issue of residential schools and the wounds from this legacy of genocide towards Indigenous people," Terry Teegee, Assembly of First Nations regional chief for British Columbia, said. British Columbia Premier John Horgan said he was "horrified and heartbroken" to learn of the discovery, calling it a tragedy of "unimaginable proportions" that highlights the violence and consequences of the residential school system.

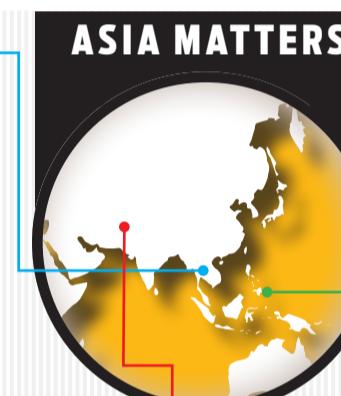
The Kamloops school operated between 1890 and 1969, when the federal government took over operations from the Catholic Church and operated it as a day school until it closed in 1978. AP

THAILAND

Covid sweeps through overcrowded prisons

Bangkok: A coronavirus surge sweeping through Thailand's prisons has thrown the spotlight on the kingdom's overcrowded penal system, where some inmates have less space to sleep than the inside of a coffin. As of Saturday, almost 25,000 people have tested positive inside jails, where inmates living cheek by jowl have been encouraged to keep wearing their masks even while they sleep. Authorities have floated plans to give early releases to prisoners with underlying medical conditions and have announced funding for more testing and medical care in recent days. But former inmates say those behind bars have been kept in the dark about the seriousness of the outbreak.

The Thai prison population stood at around 311,000 earlier this year, the International Federation for Human Rights said. AP



AFGHANISTAN

Schools in Kabul, provinces closed as Covid cases surge

Kabul: Afghanistan's health ministry announced the shutdown of all public and private universities and schools in the country's 16 provinces, including Kabul, for at least two weeks starting Saturday. The decision follows a surge in cases. On Friday, 977 people tested positive for Covid and 18 died, most of them in Kabul. Over 600,000 people have received a first dose of the vaccine, the ministry said. The vaccination drive has been put on hold due to shortages and the remaining stocks are reserved for those who got the first shot. AP

PHILIPPINES

China's decision to deploy ships protested

Manila: The Philippines has demanded that China withdraw its ships and fishing vessels from the vicinity of a Philippine-occupied island in the South China Sea, where the Chinese military has asserted its sovereignty and vowed to 'unswervingly safeguard' the disputed territory. The exchange of protests by the Asian neighbours over the island, internationally called Thitu, is the latest flareup in a long simmering territorial feud that has escalated in the last two months. The Department of Foreign Affairs in Manila said it has filed a diplomatic protest against "the incessant deployment, prolonged presence and illegal activities of Chinese maritime assets and fishing vessels in the vicinity of the Pag-asa islands." It used the Philippine name for Thitu, which China calls Zhongye Dao. AP

Clashes at anti-govt protests kill at least 10 in Colombia

BOGOTA

AT LEAST 10 people in the city of Cali were killed in a day of anti-government protests, authorities said Saturday, as Colombia enters its second month of demonstrations that have met violent repression.

President Ivan Duque announced on Friday he was deploying military troops to Cali while the nation marked

a full month of Colombia-wide rallies that have morphed into a broad anti-establishment mobilization.

"Ten people" are dead, "this is the toll we have this morning", said Cali's security secretary Carlos Rojas.

Police said eight of the 10 were shot dead.

He spoke after reports of violent street clashes. In one case, a representative from

the Cali prosecutor's office said an off-duty investigator had shot at a crowd, killing a civilian, before being lynched by protesters.

Video footage showed a man lying in a pool of blood and another nearby wielding a gun; that man was then attacked by a group of people.

After chairing a security meeting in the city, Duque announced Friday "the maximum deployment of military assistance to the national police" would begin immediately.

Human Rights Watch, which has previously put the death toll higher than the official one, said the situation in the city was "very serious." AFP



OFFICE OF THE MUNICIPAL COUNCIL, JATNI

Phone: 0674-2490826, Mail:municipalityjatni@gmail.com Date: 28/05/21

"e" Procurement Notice

C-325: Bid Documents consisting of Work, Estimated Cost, Cost of Tender Paper, EMD, time of completion, Class of contractors and the set of terms and conditions of contract and other necessary documents can be seen in Govt. website i.e. www.tendersorissa.gov.in

- Tender Reference No : EO/JMC/053/2021-22
- Tender I.D No : 2021_ORULB-68763_1 to 4
- Name of the Work : Civil Construction works as mentioned in website
- No. of works : 4 nos.
- Estimated Cost : Rs. 13,23,000/- and Rs. 19,96,000/-
- Period of Completion : 60 days
- Date and Time of Bidding : 31/05/2021 to 07/06/2021 up to 5pm
- Last date and time for receipt of bids in the portal : 07/06/2021 up to 5pm
- Bids received online shall : 09/06/2021 at 11.30am be opened on
- Name and address of the : Executive Officer, Jatni Municipality officer inviting Bid

Further details can be seen from the procurement portal i.e. www.tendersorissa.gov.in

Sd/- Executive Officer
Jatni Municipality

OIPR- 13041/11/0008/2122

THE NATIONAL INSTITUTE OF HEALTH AND FAMILY WELFARE

Baba Gangnath Marg, Munirka, New Delhi-110 067

F.No. A.12023/09/2020-1 -Admn.1

VACANCY NOTICE FOR DIRECTOR, N.I.H.F.W.

The National Institute of Health and Family Welfare, an autonomous Institute funded by the Government of India. Ministry of Health and Family Welfare, is an apex technical Institute and Think Tank for promoting health and family welfare programmes in the country through Education and Training, Research and Evaluation, Consultancy, Advisory and Specialized Services.

Applications are invited by the Ministry of Health and Family Welfare (MoHFW) from the eligible citizens of India for the following post.

| Sr. No | Name of the post | No. of Post | Pay Level as per 7th CPC |
|--------|------------------|-------------|---|
| 1. | Director | 01 | Pay level in Pay Matrix 15 - Rs. 1.82,200 + NPA |

For details, including Hindi version of this advertisement, please visit Institute's website: "www.nihfw.org." Or MoHFW's website "www.mohfw.gov.in". Completed applications should reach to Shri Kumar Pranav, Under Secretary (Training Division), Ministry of Health and Family Welfare (Department of Health and Family Welfare), Room No.511, D-Wing, Nirman Bhawan, New Delhi-110011, before 30.06.2021.

Dy. Secretary (Training)
MoHFW

davp 17153/11/0002/2122



GOVERNMENT OF ODISHA OFFICE OF THE EXECUTIVE ENGINEER, P.H. DIVISION, BHANJANAGAR AT CHATRAPUR

Phone -06811 263909-FAX -06811 263950, E-mail -eephchp@gmail.com

NATIONAL COMPETITIVE BIDDING THROUGH e-Procurement

Bid Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021

Invitation for Bids (IIB)

| Sl. No | Name of the work | Identification No. | Estimated cost (Rs. in Lakhs) | Period of completion | Availability of Bid Documents for online Bidding | Name & address of Officer inviting Bid |
|--------|---|---|-------------------------------|----------------------|--|--|
| 1 | Improvement of source with pumping arrangements and other ancillary works for provision of water supply to Pakalapalli Marathi sahi, Santoshimaa Mandir Marathi sahi and adjoining areas of ward no 12 to 18 of Aska Phule State Plan 2020-21 | Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021 | 54.88 | 9 (None) | 11.00 Hrs of calendar Months | 17.30 Hrs. From 04.06.2021 to 21.06.2021 |
| 2 | Improvement of water supply to Phulbani Municipality under State Plan 2020-21 | Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021 | 78.14 | 9 (None) | 11.00 Hrs of calendar Months | 17.30 Hrs. From 04.06.2021 to 21.06.21 |
| 3 | Provision of water supply to phulbani and adjoining areas of ward no 7 to 12 of Khalikote NAC under State Plan 2020-21 | Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021 | 85.51 | 9 (None) | 11.00 Hrs of calendar Months | 17.30 Hrs. From 04.06.2021 to 21.06.21 |
| 4 | Providing potable drinking water by raising platform of hand pump tube well during emergency like flood in Purusottampur NAC under 13 - 4215 | Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021 | 21.20 | 4 (Four) | 11.00 Hrs of calendar Months | 17.30 Hrs. From 04.06.2021 to 21.06.21 |
| 5 | Providing potable drinking water by raising platform of hand pump tube well during emergency like flood in Aska NAC under 13 - 4215 | Identification No. 06 / 03 / SPH / C / 2021-22 dt. 27.05.2021 | 20.76 | 4 (Four) | 11. | |

SIX MONTHLY COMPLIANCE REPORT, DECEMBER-2024

“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



(Formerly known as Smartchem Technologies Limited)

M/s MAHADHAN AGRITECH LTD. (MAL)
(Formerly known as Smartchem Technologies Ltd.)
Taloja Office- Plot K1, MIDC Industrial Area, Taloja- 410 208
Email: chittaranjan.panigrahi@dfpcl.com,
Phone no.: +91-8108016397, +91-22 50688845

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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**. Thereafter, Transfer of Environmental clearance was also taken from M/s Smartchem Technologies Limited to M/s Mahadhan Agritech Limited by MoEF&CC vide IA-J-11011/152/2020-IA-II(I) dated 07.12.2023 is attached as **Annexure 1.1**. Project is under construction.

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 | 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 | 100% |
| 2. | Ground Improvement | 100% |
| 3. | Boundary Wall | 100% |
| 4. | Green Belt | 504 saplings Planted so far |
| 5. | RCC works | 44% |
| 6. | Structural Works | 50% |

Site Photographs



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

| | |
|---|--|
| Engineering Workshop | Raw water & fire water pump house |
|  |  |
| ANS Process Plant | Cooling tower |
|  |  |
| WNA HE train & Absorption tower | Power Receiving Sub Station |
|  |  |
| Ammonia Storage Tank | WNA Process Plant |
|  |  |
| NA Storage Tank | Pipe rack |

Chapter-3 Point-Wise Compliance of The Environmental Conditions

| Specific Conditions | | | | | | | | | | | |
|------------------------|--|--|--------------------|-----------------|----------------|---------|-----------------------------------|-----------|------------------------|------------------------------|--|
| S. No. | Conditions | Compliance | | | | | | | | | |
| 1. | <p>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.</p> | <p>Noted and shall be complied.</p> <p>Summary of Environmental measures adopted are attached as Annexure 2.</p> | | | | | | | | | |
| 2. | <p>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.</p> | <p>Noted and shall be installed after completion of construction work.</p> | | | | | | | | | |
| 3. | <p>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.</p> | <p>Noted and shall be complied.</p> <p>Details of planned storage is given below:</p> <table border="1"> <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</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 |
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| Ammonium Nitrate (TAN) | Overall TAN storage capacity | 5000 MT in Bagging go down, inclusive of 600 MT in | | | | | | | | | |

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| | | | | | 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. | <p>Noted and shall be complied.</p> <p>PPE are provided to all employees. Photographs are attached as Annexure 3.</p> <p>A full-fledged occupational health center (OHC) is established within the plant for the employee & workmen to give first aid in case of any emergency or an employee or workman is feeling sick or is not well. An MBBS doctor will be available in the OHC. The center will have provision for all necessary emergency equipment as well as one emergency bed & stretcher for indoor admission and observations. Besides, an ambulance van is also available at site on round the clock for transportation of patients as and when required. In addition to above, the company is having 4 well-trained Male Nurse in First aid center. Also, our contractors are tie up with the nearby Hospital for medical help. The first Aid facility is enclosed with Annexure 3.1, and Hospital Tie up letter is enclosed with Annexure 3.2.</p> | | | | |

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| 5. | Training shall be imparted to all the employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees. | <p>Noted and shall be complied.</p> <p>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.</p> |
| 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 Licenser, EPCM consultant and MAL team. Necessary recommendations have been incorporated and PIDs are updated.</p> |

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| 8. | <p>Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) 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>Not Applicable. Solvent will not be used in the plant.</p> |
| 9. | <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. |

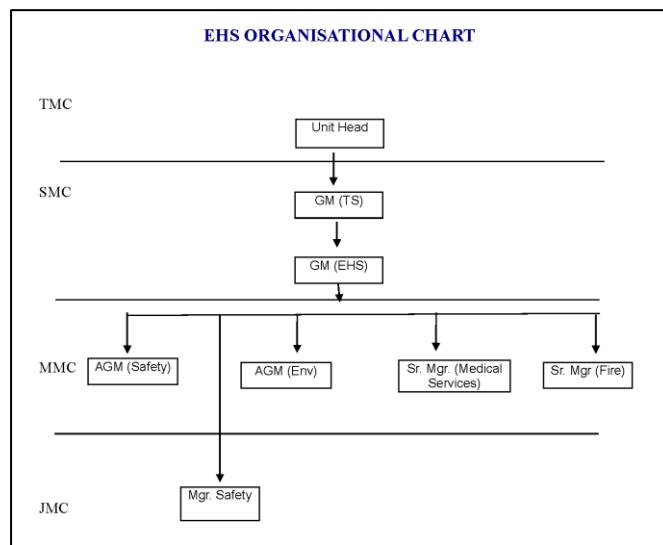
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| | <ul style="list-style-type: none">➤ Ammonia gas detectors will be installed at identified location near Ammonia storage Tanks.➤ Installation of Leakage detectors wherever required and installation of safety & relief valves and routed to safe location 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 |
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| | | <p>leakages and thus minimizing the fugitive emissions of VOCs.</p> <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. | 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>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>The construction water facility is being developed by TSSEZL & being used for the construction works.</p> |
| 11. | Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting | Noted and shall be complied. |

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| | <p>of rainwater 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 effluent/any wastewater shall not be allowed to mix with storm water.</p> | <p>A rainwater harvesting / aquifer recharging system have been proposed as water conservation measure. 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</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</p> |

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| | <p>per the CPCB guidelines in consultation with the State Forest 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>Greenbelt shall be developed all around the proposed site.</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, 504 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</p> |

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| | <p>steps are taken, if required, through respective departments. The Environmental Management Cell also collects data about health of workers, green belt development etc.</p> <p>Company appointed full time EHS Manager at site to monitor and comply the related aspects and activities.</p> <p>The EHS Organization chart is given below.</p> |
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| General Conditions | | |
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| S. No. | Condition | Compliance |
| 1. | <p>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</p> | Noted and shall be complied. |

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| | conditions imposed and to add 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. | <p>LED shall be used in the plant.</p> <p>At present 5 High Masts (with LED lightings) are installed and working at site.</p> |
| 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 | <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> |

| | community welfare measures in the 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. | <p>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</p> <table border="1" data-bbox="812 608 1468 1100"> <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 |
| 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 | | | | | | | | | | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | | |

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| | 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. |

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| 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 1.1: Name Change Letter

Annexure – 2: Environment Measures adopted at Site

Annexure- 2.1: Ambient Air Quality Monitoring report

Annexure -2.2 Muck Removal letter

Annexure – 3: Safety Measures adopted at Site

Annexure- 3.1: First aid center and Ambulance Facility

Annexure -3.2: Hospital Tie up letter

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