

 सत्यमेव जयते	भारतसरकार GOVERNMENT OF INDIA पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE Integrated Regional Office, Chennai 1 st & 2 nd floor, HEPC Building, No.34, Cathedral Garden Road, Nungambakkam, Chennai - 600034	
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F.No. EP/12.1/2019-20/2/TN/1426

Date: 22.04.2021

To

The Vice Chairman,
M/s. Encee Aromatics (P) Limited,
2/98-A, Vellipalayam Road,
Mettupalayam - 641 301.

Subject: Expansion of synthetic/natural aromatic manufacturing unit at Chickadasampalayam village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by M/s. Encee Aromatics (P) Limited - Environmental Clearance after TOR - Reg.

**Ref: 1) Letter J-11011/142/2008 - IA -II(I) Dated: 16.09.2009.
2) Your letter dated: 17.03.2021**

Sir,

With reference to the above-mentioned subject, the project was inspected by this office and a copy of the certified compliance report is attached herewith for your necessary action.

This has been approved by the competent authority vide diary no. 243 dated 21-4-2021

Yours faithfully,

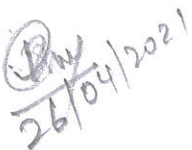


(Dr. C. Kaliyaperumal)
Director (S)

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Nungambakkam, Chennai-600 034.

Encl: As above.


26/04/2021

CERTIFIED COPY OF COMPLIANCE REPORT

Subject: Expansion of synthetic /natural aromatic manufacturing unit at Chickadasampalayam village, Mettupalayam Taluk, Coimbatore District Tamil Nadu by M/s. Encee Aromatics (P) Limited – Environmental Clearance after TOR - Reg.

Ref: No: MoEF Letter No. J-11011/142/2008 – IA –II(I) dated 16-09-2009.

Present status of the project: The Project Authorities (PA) is manufacturing 13 products (Ambrettolide, Iso Butyl Quinoline, Floral Concretes, Floral Absolutes, Enamber, Vetiverol, Vetyveryl Acetate, Undecavertol, Enascone, Spice Extraction Concrete, Spice Extraction Absolute, Spice Oil Black Pepper &Ginger and Enafran). The industry is under operation.

Date of Monitoring: 8-4-2021

S. No	CONDITION	COMPLIANCE
A	SPECIFIC CONDITIONS	
i.	The Industrial effluent generation shall not exceed 4.89 m ³ /d. The effluent after neutralization shall be evaporated in the evaporator and condensate (3m ³ /d) shall be used for cooling tower makeup. The concentrates (1.89m ³ /d) from the Multiple Effect Evaporator shall be dried in the solar evaporation pond. The residue from the solar evaporation pan will be disposed of as per Hazardous waste (Management & Handling) Rules, 2008. Construction of solar evaporation pan shall as per the CPCB guidelines. The domestic effluent (3.2 m ³ /d) shall be disposed through septic tank /Soak pit	<p>Complied.</p> <p>As stated that the industrial effluent generation now is 2.54 KLD (As per consent 4.89 KLD) and the same has been treated in the ETP. The treated effluent of 1.0 KLD is being reused in cooling tower as makeup process and the remaining 1.54 KLD is treated in the solar evaporation pan. The residues from the process are stored in the HDPE bags and periodically sent to the TSDF, Viruthunagar for further treatment as per the Hazardous and other wastes (Management and Trans boundary) Rules, 2016.</p> <p>The sewage generation from domestic process is 3.2 m³/d and it is being treated in industry's own land through one no. of Septic tank (4.1X1.2X2.8m) and dispersion trench of (6.7X1.1X1.5m). Zero Liquid</p>

		Discharge (ZLD) has been implemented in the factory and hence no effluent is being discharged outside the plant premise. The latest CTO renewal obtained from TNPCB is valid upto 31.3.2022.
ii.	The gaseous emissions from the thermo fluid heaters and DG sets shall be disposed through stack of adequate height as per CPCB/State pollution Control Board Standards. Acoustics enclosures shall be provided to the DG sets to mitigate the noise pollution	Complied. The gaseous emissions from Thermic fluid heaters and DG sets are disposed through stacks of appropriate height as per the Board's suggestion. Acoustics enclosures have also been provided to the DG sets to mitigate the noise pollution. Noise levels are monitored by TNPCB at 7 locations on yarly basis and at 10 locations through external lab on monthly basis. As per the reports the levels are within the limit.
iii.	The Company shall upload the status compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall be simultaneously sent to the Regional office of MoEF, the levels of SPM, RSPM<SO2<NOX (ambient levels) and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important places.	Refer below. The PA has not uploaded the status of the compliance of the stipulated environmental clearance conditions including the monitored data on their website so for and they have agreed to upload. Further they have also not submitted the hard copy to the Regional Office of the MoEF. They have not displayed the monitored data at a convenient location near the main gate of the company and at important places.
iv.	The company shall obtain Authorization for collection, storage and disposal of hazardous wastes and prior permissions from SPCB shall be obtained for disposal of solid/hazardous waste in TSDF. The concerned company shall undertake measures for the firefighting facilities in case of emergency.	Complied. The company has obtained Hazardous waste Authorization from TNPCB vide no. T4/TNPCB/F43509/CBE(N)/HWM/2015 dated-29.06.2015 under Hazardous and other wastes (Management and Transboundary) Rules, 2016 for generation, collection, storage

		<p>and transportation and disposal of hazardous waste and it was valid upto 28.06.2020.</p> <p>The generated hazardous waste has been stored and sent to the authorized recyclers for further treatment. PA has applied in TNPCB online for renewal of Authorization.</p> <p>Fire protection equipment like fire hydrants, sprinklers, smoke detectors, fire extinguishers, sand buckets are installed. PA obtained fire service license on 12-11-2020 with one year validity.</p>
v.	<p>The Project Authorities shall strictly comply with the rules and guidelines under Manufacture, Storage, Import of Hazardous Chemicals Rules,1989 as amended in October, 1994 and January,2000. All transportation of Hazardous chemicals shall be as per the MVA,1989.</p>	<p>Complied.</p> <p>The PA informed that the guidelines under Manufacture, Storage, Import of Hazardous Chemicals Rules,1989 as amended in October, 1994 and January,2000 are being strictly implemented. Further informed that all transportation of Hazardous chemicals is carried out as per the Act. Further, the PA has prepared an Emergency Response Plan for Hazardous Waste Management providing instructions on handling of hazardous waste spillage.</p>
vi.	<p>Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.</p>	<p>Complied.</p> <p>Hazardous chemicals are being stored in impervious storage tank forms as well as in drums. Flame arresters are provided on tank farm. The solvent is transferred through pumps.</p>
vii.	<p>The company shall undertake following waste Minimization measures:</p> <p>a. Metering and control of quantities of active ingredients to minimize waste</p>	<p>Complied.</p> <p>a. Metering and controlled equipments are used. b. The by-products from the process are being reused in the other suitable processes.</p>

	<ul style="list-style-type: none"> 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 Closed Feed System into batch Reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment cleaning to reduce wastewater generation. 	<ul style="list-style-type: none"> c. Automated filling is not followed. d. Closed feed system is followed. e. No Venting is provided. f. High pressure pumps and hoses are being used for equipment cleaning to reduce the wastewater generation.
viii.	<p>For control of fugitive emission following steps shall be followed:</p> <ul style="list-style-type: none"> 1. Closed handling system shall be provided for chemicals. 2. Reflux condenser shall be provided over reactor 3. System of leak detection and repair of pumps/pipeline based on preventive maintenance 4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. 	<p>Complied.</p> <ul style="list-style-type: none"> 1. The chemicals and acids are handled in closed system. 2. The Reflux condenser has been provided to the entire reactor. 3. Leak detection and repair of pumps/ Pipelines has been done periodically to ensure the system is healthy. 4. Acids are taken from the storage tanks to the reactors through pipelines.
ix.	<p>The solvent Management shall be as Follows:</p> <ul style="list-style-type: none"> a. Reactor shall be connected to chilled brine condenser system. b. Reactor and solvent handling pump shall have mechanical seals to prevent leakages c. The condensers shall be provided with the sufficient HTA and residence time so as to achieve more than 95% recovery d. Solvents shall be stored in a separate space specified with all safety measures e. Proper earthing shall be provided in all the electrical equipment wherever solvents handling is done f. Entire plant shall be flame proof. The solvent storage tanks shall be 	<p>Complied.</p> <p>The below mentioned solvent management is followed</p> <ul style="list-style-type: none"> a. Reactors are connected to chilled brine condenser system. b. Reactor and solvent handling pump are provided with mechanical seals. c. The condensers are provided with the sufficient HTA and residence time so as to achieve more than 95% recovery. d. Solvents are stored in a separate space specified with all safety measures. e. Proper earthing is provided in

	provided with breather valve to prevent losses.	all the electrical equipment wherever solvents handling is done. f. Entire plant is having flame proof system. The solvent storage tanks are provided with breather valve to prevent losses.
x.	Fugitive emissions in the work zone environment, product, raw materials storage area etc. Shall be regularly monitored. The emissions shall conform to the limits imposed by TNPCB	Refer below. The fugitive emission monitoring is not being carried.
xi.	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Complied. The materials are handled properly to avoid spillages and garland drains are constructed to avoid mixing of accidental spillages with domestic waste and storm drains.
xii	The company shall harvest surface as well as rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complied. The rainwater harvesting arrangements have been implemented to conserve the water. The roof top rainwater is collected and used for ground recharging.
xiii.	The company shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling.	Complied. <ul style="list-style-type: none"> - Prohibition of match box and other ignitable items are in place. Flame proof electric fitting is provided. - Fire protection equipment like fire hydrants, sprinklers, fire extinguishers, sand buckets are installed at the appropriate places. - Basic firefighting training is imparted to relevant staff working in the hazardous area. - The fire license has been obtained from Tamil Nadu Fire-Rescue services. PA obtained fire service license on 12-11-2020 with one year validity.

xiv.	Training shall be imparted to all the employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all the employees shall be undertaken on regular basis. Training to all the employees on handling of chemicals shall be imparted.	Complied. The training programmes for the staffs regarding the handling of chemicals are conducted regularly. Pre-employment and periodical medical examinations are carried out for the employees and records are maintained.
xv.	Usage of PPEs by all the employees/workers shall be ensured.	Complied. PPEs are provided to all the employees engaged in the workplace and they are using.
xvi.	Occupational health surveillance (OHS) of the workers shall be done on a regular basis and records maintained as per factories Act.	Complied. OHS is carried out regularly as per the Factories Act and record is maintained.
xvii.	Greenbelt shall be developed in 0.95 ha of the plant area. Selection of plant species shall be as per the CPCB guidelines.	Complied. The total area of the factories 3.78 Ha. Out of this, they have taken up greenbelt in an area of 1.35 ha (35.71%) by planting different species. PA informed that the plant species have been selected based on the guidelines of DFO and Horticulturist.
xviii.	The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduced consumption of water.	Complied. The roof top water is collected and used for ground recharge. The surface run off is diverted to the percolation pits.
xix.	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Funds so earmarked shall not be diverted for any other purposes.	Complied. As informed by the Project Authority, allocation made in 2019-20 as below: 1. Air pollution control system Capital cost: Rs.25.0 lakhs Recurring cost: Rs.5.0 lakhs 2. Water pollution control system Capital cost: Rs.95.0 lakhs Recurring cost: Rs.30.0 lakhs 3. Environmental Monitoring Capital cost: Rs.10.0 lakhs Recurring cost: Rs.7.0 lakhs

		4. Green belt development, rainwater harvesting and others Capital cost: Rs.30.0 lakhs Recurring cost: Rs.5.0 lakhs
xx.	The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report.	Complied. The Project Authorities has implemented all the environmental protection measures and safeguards recommendations made in the EIA/EMP/Risk assessment report.
xxi.	Provisions shall be made for the housing for the construction labour within the site with all the necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, Medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied. The PA informed that during the construction time basic amenities were provided to the employees. The housing was in the form of temporary in nature and removed after completion of the construction works. Further stated that all the construction wastes were handled properly without and damage to the surroundings.
B	GENERAL CONDITIONS	
i.	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Complied. The PA informed that all the conditions stipulated by the Tamil Nadu Pollution Control Board are being implemented.
ii.	No Further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environmental and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied. No expansion or modification was carried out in the plant without the Ministry approval as informed. The PA has proposed for expansion in the existing industry by as per the TOR. The expansion involves in increasing the production quantity of Ambrettolide, Iso Butyl Quinoline, Enamber and insertion of seven (7) new products such as Ethyl Safranate, Essential Oils, Nootkatone, Trans-Trans-2-4-Decadienal, Trans-2-Dodecenal, Watermelon

		<p>Ketone, Jasmonyl.</p> <p>PA informed that the Spice Extraction Concretes, Spice Extraction Absolutes, Spice Oil (Black Pepper & Ginger), Floral Concretes and Absolutes will be produced under common category called Concretes and Absolutes.</p> <p>The production quantity of Vetiverol, Vetiveryl acetate and Enafran remains unchanged and subsequently Undecavertol and Enascone will not be produced in the proposed expansion of the plant.</p> <p>For this expansion only the PA requested Certified copy of the Compliance report from the Regional office.</p>
iii.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted unit until the desired efficiency has been approved.	<p>Complied.</p> <p>The PA informed that the emission levels were not exceeded the limits and the Project Authorities have agreed to shut down the respective unit in case of failure of any pollution control system adopted until it is rectified.</p>
iv.	The gaseous emissions (NO _x , SO ₂ and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO ₂ , NO _x and SPM shall be carried.	<p>Complied</p> <p>Gaseous emission monitoring is carried out through approved external lab on monthly basis and as per the reports the levels are within the limits. The PA informed that at no time, the emission levels has gone beyond the stipulated standards and assured that in the event of failure of pollution control system(s) adopted by the unit, the respective unit will not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring is carried out through approved external lab as well as through</p>

		TNPCB.
v.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.	<p>Complied.</p> <p>Ambient air quality monitoring locations were decided in consultation with SPCB covering up wind as well as downwind directions including where maximum ground level concentrations are anticipated at 4 locations through approved external lab on monthly basis as well as through TNPCB at 6 locations on yearly basis. As per the reports the levels are within the limit.</p> <p>The PA has not installed Online Continuous Emission Monitoring System (OCEMS). The PA has been suggested to install the same.</p>
vi.	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emission from various vents. The scrubbed water shall be sent to ETP for further treatment.	<p>Refer below:</p> <p>There are 10 nos. of stacks provided. No scrubbers are installed.</p>
vii.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustics hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under environmental (protection) Act,1986 Rules, 1989 viz 75dBA (day time) and 70dBA (night time)	<p>Complied.</p> <p>The Noise level in and around the plant is monitored at 10 locations on monthly basis through external lab and 7 locations on yearly basis through TNPCB and as per the reports the levels are within the limits during day and night time. Appropriate acoustics hoods, silencers and enclosures have been provided to all noise generation sources. PPE are provided to all the workers.</p>
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report	<p>Complied.</p> <p>Generally, the PA complying all the environmental protection measures</p>

	submitted to the Ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	and safeguard proposed in the report submitted to the Ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project are being implemented.
ix.	The Company will undertake all relevant measures for improving the socio – economic conditions of all the surrounding area. CSR activities will be undertaken by involving local villages and administration.	Complied. The PA informed that the company has undertaken several welfare activities in the nearby villages for the social upliftment of the surrounding community by involving the local villagers. A separate CSR cell is established for the said activity.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied. The PA informed that several eco-development measures are being carried out in the nearby villages for overall improvement of the environment. PA also encourages the local farmers to cultivate jasmine, and other native flowers by providing seedlings at free of cost.
xi.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Refer below: There is no separate Environmental Monitoring Cell and lab facilities established in the unit. The environmental monitoring is done through the external approved agency.
xii	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted to any other purposes.	Complied. The PA has provided adequate fund for both capital and recurring expenditure to implement the conditions stipulated by Ministry of Environment and Forest as well as TNPCB along with implementation schedule for all the conditions stipulated. PA assured that the fund so provided is not diverted for other purpose.
xiii.	The implementation of project vis-à-vis environmental action plans shall	Refer below:

	be monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six-monthly compliances status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	The PA has not submitted the six-monthly compliance reports to MoEF, RO and PA has been advised to submit the reports, as per the stipulated conditions.
xiv.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the NGO, if any from whom suggestions /representations, if any were received while processing the proposal.	Complied. PA informed that a copy of the Environment Clearance letter was submitted to the local Panchayat. PA also informed that with respect to the proposed expansion activity, public hearing was conducted on 3-2-2021 at Sikkadasampalayam Village, Metupalayam (Coimbatore District) by District Collector and DEE and proceeding of the same was made available.
xv.	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 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 by e-mail.	Refer below: The PA informed that Environmental statement for each financial year is being regularly submitted to the TNPCB. But not uploaded on their website. It is learnt that PA does not have its own website. PA has been advised to have their own website to provide all their EC related information. The status of the compliance of environmental clearance conditions to the Regional Offices of MoEF by e-mail also was not sent.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the ministry at http://envfor.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local Newspapers that are widely circulated in the region of which one	Refer below: PA informed that Advertisements were not given in two local Newspapers but informed the local bodies that they have accorded the environmental clearance.

	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.	
xvii.	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.	Refer below: The same were not intimated to the Regional Office.
xviii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to comply
xix.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Agreed to comply
xx.	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environmental Appellate Authority Act 1997.	Refer below: The PA informed that no appeal was made against this EC.

This has the approval of the Competent Authority vide Diary No.243 dated 21-4-2021



(Dr. C. Kaliyaperumal)
Director (S)

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