



सत्यमेव जयते

File No: 11034
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
TAMIL NADU)



Dated 27/08/2024



To,

KUNCHITHABATHAM MANOHARAN
M/s. Thiru Arooran Sugars Limited, Distillery Unit
5th, 112, Eldorado, Uthamar Gandhi Salai/Nungambakkam High Road, Nungambakkam, Chennai - 600
034, CHENNAI, TAMIL NADU, 600034
manoharankb@kalssugars.co.in

Subject: Grant of Terms of Reference with Public hearing under the provision of the EIA Notification 2006 as amended-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference along with Public Hearing under the provision of the EIA Notification 2006-regarding in respect of project for the Existing Molasses Based Distillery Unit from 60 KLPD of Rectified Spirit to 60 KLPD of Rectified Spirit or 60 KLPD of Extra Neutral Alcohol Unit at S.F.Nos. 274/2A, 274/2B, 275/2, 276/2, 277/2, 277/3, 278/2, 279/1, 279/2, 279/3, 279/5, 280/2A, 280/2B, 280/2C, 280/2D, 280/2E, 282/3, 282/4, 282/5, 282/2, 49/1, 331/2, 331/3, 331/4A, 331/4B of Umayalpuram Village, Thirumandangudi Village & Koonancheri Village, Papanasam Taluk, Thanjavur District, Tamil Nadu by M/s. Thiru Arooran Sugars Limited Distillery Unit – Category “B1” – 5(g)-Distilleries submitted to SEIAA vide proposal number SIA/TN/IND2/482851/2024 dated 30/07/2024.

Ref:

1. Online Proposal No. SIA/TN/IND2/482851/2024, Dated: 21.06.2024
2. Your application for Terms of Reference dated: 01.07.2024
3. Minutes of the 485th SEAC meeting held on 25.07.2024
4. Minutes of the 746th SEIAA meeting held on 07.08.2024

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24B2501TN5423415N
(ii) File No.	11034
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vii) Name of Project	Existing Molasses Based Distillery Unit from 60

<p>(viii) Name of Company/Organization</p> <p>(ix) Location of Project (District, State)</p> <p>(x) Issuing Authority</p> <p>(xii) Applicability of General Conditions</p> <p>(xiii) Applicability of Specific Conditions</p>	<p>KLPD of Rectified Spirit to 60 KLPD of Rectified Spirit or 60 KLPD of Extra Neutral Alcohol Unit</p> <p>M/s. Thiru Arooran Sugars Limited, Distillery Unit, KUNCHITHABATHAM MANOHARAN</p> <p>THANJAVUR, TAMIL NADU</p> <p>SEIAA</p> <p>yes</p> <p>yes</p>
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3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 13/08/2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The SEAC has based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
6. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to grant Terms of Reference with Public Hearing for instant proposal of M/s. Thiru Arooran Sugars Limited, Distillery Unit, KUNCHITHABATHAM MANOHARAN under the provisions of EIA Notification, 2006 and as amended thereof.
7. The Ministry/SEIAA reserves the right to stipulate additional conditions, if found necessary.
8. The Terms of Reference with public Hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
9. The TORs prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August 2017.
10. This issues with the approval of the Competent Authority.

Copy To

1. The Principal Secretary to Government, Environment, Climate Change and Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. The Chairperson, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF (C), Regional Office, MoEF & CC (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
5. Monitoring Cell, IA Division, Ministry of Environment, Forests & CC, Paryavaran Bhavan, CGO Complex, New Delhi - 110 003.
6. The District Collector, Thanjavur District.
7. Stock File.

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	<ol style="list-style-type: none"> 1. PP shall conduct energy audit of the existing unit through a BEE accredited consultant. 2. The unit shall submit a methodology to achieve Zero Liquid Discharge with a Reject management system. 3. The proponent shall furnish the details of additional pollution load to the environment due to these activities. 4. Details of raw materials such as molasses, their source with availability. 5. Details of the use of steam from the boiler. 6. Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard. 7. Action plan to reduce spent wash generation. 8. Proposed effluent treatment system for molasses distillery spent wash, spent lees, condensate and utilities and scheme for R.O plant & achieving zero effluent discharge (ZLD) and the same shall be vetted by Anna University/IIT. 9. Details about capacity of spent wash holding tank, material used, design consideration. No. of piezometers to be proposed around spent wash holding tank. 10. Action plan to control ground water pollution shall be furnished. 11. Details of solid waste management including management of boiler ash, yeast sludge, etc. 12. Details of incinerated spent wash ash generation and its disposal. 13. Details of bio-composting yard (if applicable). 14. Details of source of Air Pollution and it's mitigation measures. 15. Details of CO₂ generation and it's bottling process. 16. Action plan to control odour pollution. 17. Arrangements for installation of continuous online monitoring system (24x7 monitoring device). 18. 'Efficiency and adequacy report' for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished. 19. Land use conversion for industrial use zone shall be obtained from the competent Authority/DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any. 20. The proponent shall conduct the EIA study and submit the EIA report for the entire area along with layout and necessary documents such as "A" register and village map. 21. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project. 22. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. 23. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 33% of the total land area of the project. 24. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed. 25. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP.

2. Seiaa Specific Conditions:

S. No	Terms of Reference
2.1	<p>The subject was placed in the 746th authority meeting held on 07.08.2024. The authority noted that the subject was appraised in the 485th SEAC meeting held on 25.07.2024. SEAC has furnished its recommendations for granting Terms of Reference (ToR) with Public Hearing subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the following conditions.</p> <ol style="list-style-type: none"> 1. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan. 2. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 3. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 4. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 5. The Environmental Impact Assessment should study impact on standing trees and the trees should be numbered. 6. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and hydrological cycles. 7. The Environmental Impact Assessment should study impact on climate change, GHG emissions, temperature rise, pollution and above soil & below soil carbon stock. 8. The Environmental Impact Assessment shall include study of impact of the proposed activity on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways. 9. The project proponent shall furnish the details of trees in the project site with all trees numbered and protected. 10. The project proponent shall furnish a detailed study on the impact of proposed activity with mitigation measures on the nearby environmental fragile areas. 11. The project proponent shall furnish the detailed study on health with regard to respiratory distress due to allergens on workers and nearby villagers. 12. The project proponent shall furnish the impact on dust pollution on the nearby habitation and livelihoods. 13. The project proponent shall furnish the Risk assessment plan, EMP and Disaster management plan which should be prepared after thorough study.

S. No	Terms of Reference
	<p>14. The GPS co-ordinates for the boundaries at the green belt proposed & proposed project site shall be furnished separately.</p> <p>15. Air quality modelling study shall be conducted for the CPCB primary air pollutants specified by considering the impact on the proposed plant to the nearby villages.</p> <p>16. The details of quantity of steam to be generated, fuel and equipment to be used shall be furnished.</p> <p>17. The proponent shall ensure that the activities do not cause any damage to water environment, air quality and are carbon neutral.</p> <p>18. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) for the production pathway.</p> <p>19. The proponent shall ensure that the activities undertaken do not result in carbon emission and temperature rise in the area.</p> <p>20. The activities shall not in any no way cause emissions and build-up of Green House Gases. Action plan shall be furnished for eco-friendly actions that support sustainable management of the natural resources within and outside the plant premises.</p> <p>21. The type, quantum and the source of raw material for producing bio gas shall be furnished.</p> <p>22. Details regarding the implementation of 4R (Recycle/reduce/reuse/recover) principle in the plant shall be furnished.</p> <p>23. The Proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna.</p> <p>24. Many a truck carrying sugar cane/molasses/bagasse will be plying on the village roads and hence traffic/vehicular movement study need to be carried out.</p> <p>25. Measures proposed for prevention of odour emanating from solid waste processing plant and STP.</p> <p>26. The Environmental Impact Assessment shall include Study on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency.</p> <p>27. Impact of the proposed activity on soil, water and air envisaged shall be studied and mitigation measures proposed shall be detailed.</p>

Standard Terms of Reference for (Distilleries)

1. Executive Summary

S. No	Terms of Reference
1.1	Executive Summary

2. Introduction

S. No	Terms of Reference
2.1	Details of the EIA Consultant including NABET accreditation
2.2	Information about the project proponent

3. Project Description

S. No	Terms of Reference
3.1	Cost of project and time of completion.
3.2	Products with capacities for the proposed project.If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
3.3	List of raw materials required and their source along with mode of transportation.
3.4	Other chemicals and materials required with quantities and storage capacities
3.5	Details of Emission, effluents, hazardous waste generation and their management. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
3.6	Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided.
3.7	Hazard identification and details of proposed safety systems.
3.8	<p>Expansion/modernization proposals:</p> <p>a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 08th June, 2022 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.</p> <p>b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.</p>

4. Site Details

S. No	Terms of Reference
4.1	Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
4.2	A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
4.3	Co-ordinates (lat-long) of all four corners of the site. Google map-Earth downloaded of the project site. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
4.4	Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
4.5	Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
4.6	A list of major industries with name and type within study area (10km radius) shall be incorporated.
4.7	Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
4.8	Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
4.9	R&R details in respect of land in line with state Government policy.

5. Forest And Wildlife Related Issues (If Applicable):

S. No	Terms of Reference
5.1	Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
5.2	Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
5.3	Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
5.4	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and

S. No	Terms of Reference
	the recommendations or comments of the Chief Wildlife Warden-thereon
5.5	Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
5.6	Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

S. No	Terms of Reference
6.1	Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
6.2	AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
6.3	Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
6.4	Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
6.5	Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
6.6	Ground water monitoring at minimum at 8 locations shall be included.
6.7	Noise levels monitoring at 8 locations within the study area.
6.8	Soil Characteristic as per CPCB guidelines.
6.9	Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
6.10	Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
6.11	Socio-economic status of the study area.

7. Impact And Environment Management Plan

S. No	Terms of Reference
7.1	Assessment of ground level concentration of pollutants from the stack emission based on site specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
7.2	Water Quality modeling - in case of discharge in water body
7.3	Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor cum- rail transport shall be examined.
7.4	A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
7.5	Details of stack emission and action plan for control of emissions to meet standards.
7.6	Measures for fugitive emission control
7.7	Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
7.8	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
7.9	Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
7.10	Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

8. Occupational Health

S. No	Terms of Reference
8.1	Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

S. No	Terms of Reference
8.2	Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
8.3	Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
8.4	Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

S. No	Terms of Reference
9.1	Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
9.2	Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
9.3	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
9.4	Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.

10. Details Regarding Infrastructure Facilities Such As Sanitation, Fuel, Restroom Etc. To Be Provided To The Labour Force During Construction As Well As To The Casual Workers Including Truck Drivers During Operation Phase.

S. No	Terms of Reference
10.1	No Data Found

11. Enterprise Social Commitment (Esc)

S. No	Terms of Reference
11.1	Adequate funds (at least 2.5 % of the project cost) shall be ear marked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

S. No	Terms of Reference
11.2	Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details there of and compliance/ATR to the notice(s) and present status of the case.
11.3	A tabular chart with index for point wise compliance of above TOR.

12. Specific Conditions

S. No	Terms of Reference
12.1	List of existing distillery units in the study area along with their capacity and sourcing of raw material.
12.2	Number of working days of the distillery unit.
12.3	Details of raw materials such as molasses/grains, their source with availability.
12.4	Details of the use of steam from the boiler.
12.5	Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.
12.6	Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.
12.7	Proposed Effluent treatment system for molasses/grain based distillery (spent wash, spent lees, condensate and utilities) as well as domestic sewage and scheme for achieving zero water conservation.
12.8	Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.
12.9	Details about capacity of spent wash holding tank, material used, design consideration. No. of peizometers to be proposed around spent wash holding tank.
12.10	Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.
12.11	Details of bio-composting yard (if applicable).
12.12	Action plan to control odour pollution.
12.13	Arrangements for installation of continuous online monitoring system (24x7 monitoring device)
12.14	If Sugar and distillery will have integrated effluent treatment facilities. Details regarding the same.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR DISTILLERIES

1. List of existing distillery units in the study area along with their capacity and sourcing of raw material.
2. Number of working days of the distillery unit.
3. Details of raw materials such as molasses/grains, their source with availability.
4. Details of the use of steam from the boiler.
5. Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.
6. Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.
7. Proposed effluent treatment system for molasses/grain based distillery (spent wash, spent lees, condensate and utilities) as well as domestic sewage and scheme for achieving zero effluent discharge (ZLD).
8. Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.
9. Details about capacity of spent wash holding tank, material used, design consideration. No. of peizometers to be proposed around spent wash holding tank.
10. Action plan to control ground water pollution.
11. Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.
12. Details of bio-composting yard (if applicable).
13. Action plan to control odour pollution.
14. Arrangements for installation of continuous online monitoring system (24x7 monitoring device)

In addition to the above, the following shall be furnished:-

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.

- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt/ private land, status of its acquisition, nearby (in 2-3 km.) water body, population, within 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population
- 11) Emergency preparedness plan in case of natural or in plant emergencies
- 12) Issues raised during public hearing (if applicable) and response given
- 13) CSR plan with proposed expenditure.
- 14) Occupational Health Measures
- 15) Post project monitoring plan

The following general points shall be noted:

All documents shall be properly indexed, page numbered. Period/date of data collection shall be clearly indicated.

1. Authenticated English translation of all material provided in Regional languages.
2. The letter/application for EC shall quote the SEIAA. File No. and also attach a copy of the letter.
3. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.
4. Certificate of Accreditation issued by the QCI to the environmental consultant shall be included.
5. The prescribed TORs would be valid for a period of Three years for submission of the EIA/EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.08.2014. As per the Ministry of Environment, Forest and Climate Change Impact Assessment Division, Government of India, Circular Memo No.J-11013/41/2006-IA-II(I)(Part) dated 7th November, 2014.

6. After preparing the draft EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006. The final EIA / EMP shall be submitted to the SEIAA – Tamil Nadu for obtaining Environmental Clearance.
7. The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
8. The TORs prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August 2017.

