

Minutes of the 94th SEAC Meeting held on 08th September 2017

<p>94-04 F.6416</p>	<p>Proposed expansion of multipurpose Chemical Terminal from 86928 KL to 108950 KL by M/s. Reliance Industries Ltd., at S.No:1183/1 & 2, 1194, 1184/14, 1184/22, 1184/11, 1184/20, 1184/10, 1184/1, 1183/2A/1A3, 1184/5, 1184/2, 4, 6, 7, 8,9 , 12, 13, 15, 16, 17, 18, 19, 3, 1193/1, 2, 3, 1192, 1183/2A/1A1, 2E, 2B, 2A3, 2F, 2C, 2G, 2A/1A/2, 1190/2A, 2B, 8, 2C, 3, 4, 5, 6, 7, 1, 1185, 1191/1A, 1191/2, 3, 4, 5, 6, 7,8, 1183/2A/4, 2A5, 2A6, 2A7, 2A1B, 2A1C, 2D, 1191/1B, 1191/1, 2, 3, 1184/18, 1184/19, 1189/2, 1177/1, 1177/2, 1177/3, Kondakarai Village, Ponneri Taluk, Thiruvallur District, Tamilnadu – Category “B1”-6(b) Isolated Storage and handling of hazardous Chemicals –TOR to be issued- Regarding</p>
	<p>The Proponent, M/s. Reliance Industries Ltd., has applied for TOR for the proposed expansion of multipurpose chemical Terminal from 86928 KL to 130344 KL at S.No: 1183/1 & 2, 1194, 1184/14, 1184/22, 1184/11, 1184/20, 1184/10, 1184/1, 1183/2A/1A3, 1184/5, 1184/2, 4, 6, 7, 8,9 , 12, 13, 15, 16, 17, 18, 19, 3, 1193/1, 2, 3, 1192, 1183/2A/1A1, 2E, 2B, 2A3, 2F, 2C, 2G, 2A/1A/2, 1190/2A, 2B, 8, 2C, 3, 4, 5, 6, 7, 1, 1185, 1191/1A, 1191/2, 3, 4, 5, 6, 7,8, 1183/2A/4, 2A5, 2A6, 2A7, 2A1B, 2A1C, 2D, 1191/1B, 1191/1, 2, 3, 1184/18, 1184/19, 1189/2, 1177/1, 1177/2, 1177/3, Kondakarai Village, Ponneri Taluk, Thiruvallur District, Tamilnadu on 16.06.2017.</p> <p>The proposal for expansion was initially placed in the 93rd meeting held on 11.08.2017. The SEAC decided to defer the proposal for want of certain particulars which included the following:</p> <ol style="list-style-type: none"> 1. The proponent has listed the survey no's on which the proposed project is going to come up - 1177/1, 1177/2 & 1177/3. In this as per CMDA land use classification (CMDA master plan, 2026) the survey no 1177 has been listed under primary residential zone. This means that the project area identified by the proponent falls under primary residential zone. Such being the case, industrial activity cannot be permitted on primary residential areas. When this was pointed out to the proponent, they promised to provide clarifications

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	<p>regarding this issue and accordingly the proponent should furnish documentary evidence regarding the land use re-classification for the project site proposed.</p> <p>In response to the above item, the proponent in the presentation made in the 93rd meeting held on 12.08.2017 clarified that the land proposed to be used for the upcoming project has not been reclassified as suitable for industrial activities. Hence, they wanted to rework on the proposal in view of the land availability and resubmit the proposal for the consideration of the SEAC for the issue of ToR. Accordingly, SEAC decided to defer the proposal since the proponent desires to modify the proposal.</p> <p>The modified proposal was submitted by M/s. Reliance Industries Limited on 30.08.2017 for the proposed increase in storage capacity from 86928 KL to 108950 KL. In the modified proposal the proponent has furnished replies to the queries asked in the SEAC letter dated: 16.08.2017. The reply with reference to the land availability query is as follows:</p> <p>“The land has been acquired by us in 2003-04 and in our possession. The land use application were also submitted then. We have once again approached CMDA for the required correction. As this may take large time and we are keen on establishing certain important storage facilities without jeopardizing the planned implementation of the proposed project.</p> <p>In view of the above it is now decided to modify the proposal in terms of storage capacity and plot plan of the MCT. The revised storage capacity at the MCT, post the proposed expansion project shall be 108950 KL. In the revised layout plan, we intend to establish two ATF/SKO tanks within the existing terminal space which is declared as special and hazardous industrial use zone classified by CMDA.</p> <p>We undertake that there shall be no development on the land survey number 1177 until the land use conversion is done to special and hazardous industrial use zone”.</p>
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From the above clarification, the Committee concluded that the land availability issue has been satisfactorily settled and decided to consider the issue of ToR to the proponent. In the further discussion during the 94th meeting of SEAC, the proponent presented clarifications and details as requested in the previous SEAC meeting and requested for the issue of ToR for preparing EIA report. The Committee **decided to prescribe TOR (Annexure I)** for the preparation of EIA report. As per MoEF &CC, OM Dated 07.12.2014 & 04.04.2016, **Public Hearing is not required**, as the project is located in a designated Special & Hazardous industrial use zone.

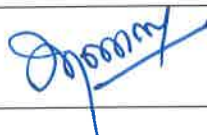

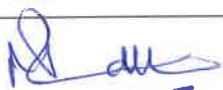

The EIA report should contain data and information which will include the following:

1. Monitoring wells should be immediately installed one upstream, few within the premises and three downstream to collect soil and ground water from multiple aquifers. This should be part of the baseline data to be incorporated in the EIA report.
2. Periodic data (minimum of 3 months) from VOC sensors/air quality sample for monitoring specifically petroleum hydrocarbons in the ambient air for the current operations. This should be part of the baseline data to be incorporated in the EIA report
3. The detailed report on the green belt development already developed (density, diversity, age of trees, area covered, etc) since 2004, the starting of the operation and the future proposals for the green belt development.
4. The CSR activities already completed since 2004, the start of the operation in and around the project site within Thiruvallur

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	<p>district with evidence (copy of the receipts, photographs, reports, etc) and the future proposals for CSR activity.</p> <p>5. The proponent has requested for permission to use Summer 2017 baseline data in the EIA report and the committee permitted the same.</p>		
S.No	Name	Designation	Signature
1	Dr. K. Thanasekaran	Member	
2	Dr. A. Navaneetha Gopalakrishnan	Member	--
3	Dr.K.Valivittan	Member	
4	Dr.Indumathi M. Nambi	Member	
5	Dr. G. S. Vijayalakshmi	Member	
6	Dr. M. Jayaprakash	Member	
7	Shri V. Sivasubramanian	Member	--
8	Shri V. Shanmugasundaram	Member	
9	Shri B. Sugirtharaj Koilpillai	Member	
10	Shri. P. Balamadeswaran	Co-opt Member	
11	Shri. M.S. Jayaram	Co-opt Member	

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Annexure - I

**6(b):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT
IMPACT ASSESSMENT STUDY FOR ISOLATED STORAGE & HANDLING OF
HAZARDOUS CHEMICALS (AS PER THRESHOLD PLANNING QUANTITY
INDICATED IN COLUMN 3 OF SCHEDULE 2 & 3 OF MSIHC RULES 1989
AMENDED 2000) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT**

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

2) Introduction

- i. Details of the EIA Consultant including NABET accreditation
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3) Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - 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 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental

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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.

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.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km 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)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. 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.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse 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)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area x. Geological features and Geo-hydrological status of the study area shall be included.

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- xi. Details of Drainage of the project upto 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)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse 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)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. 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 the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. 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.
- vi. 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

- i. 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.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO₂, NO_x, 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.

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- iii. 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.
- iv. 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.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. 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.
- xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based onsite-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling 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 modelling 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.
- ii. Water Quality modelling - in case of discharge in water body
- iii. 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

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raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor cum- rail transport shall be examined.

iv. 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.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. 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.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. 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.

x. 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.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers

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- ii. 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.
- iii. 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,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. 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.
- ii. 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.
- iii. 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.
- iv. 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.

11) Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked 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.

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12) 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 thereof and compliance/ATR to the notice(s) and present status of the case.

13) A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR ISOLATED STORAGE & HANDLING OF HAZARDOUS CHEMICALS (AS PER THRESHOLD PLANNING QUANTITY INDICATED IN COLUMN 3 OF SCHEDULE 2 & 3 OF MSIHC RULES 1989 AMENDED 2000)

1. Details on list of hazardous chemicals to be stored along with storage quantities at the facility, their category (as per MSIHC Rules), MSDS.
2. Mode of receiving hazardous chemicals in isolated storages and mode of their dispatch.
3. Layout plan of the storage tanks and other associated facilities.
4. Details on types and specifications of the storage facilities including tanks, pumps, piping, valves, flanges, pumps, monitoring equipments, systems for emissions control safety controls including relief systems.
5. Arrangements to control loss/leakage of chemicals and management system in case of leakage.
6. Risk Assessment & Disaster Management Plan
 - Identification of hazards
 - Consequence Analysis
 - Details of domino effect of the storage tanks and respective preventive measures including distance between storage units in an isolated storage facility.
 - Onsite and offsite emergency preparedness plan.

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