

DR. S. KALYANASUNDARAM, (F.S. (Retd.)
CHAIRMAN



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Chennai-600 015.
Telephone No. :044-2435 9974

ENVIRONMENTAL CLEARANCE

Lr.No.SEIAA-TN /F.No- 1365/2013/EC-30/6(b)/2015/dated /17.11.2015

To:

The Senior Plant Manager,
M/s. Indian Oil Corporation Ltd.,
Indane Bottling Plant,
SIPCOT Industrial Growth Sector,
Perundurai,
Erode District - 638 052.

Subject - SEIAA-TN- Environmental Clearance-M/s. Indian Oil Corporation Limited, Plot No 180,181,195 to 207, 223 & 227 to 231, Perundurai Village, Erode Taluk, Erode District for the proposal for expansion of bottling capacity by adding additional 1 x 24 filling machines in the second carousel, augmentation of storage capacity by adding 3 x 600 MTs mounded ballets and augmentation of tank lorry decanting shed by adding 8 more TLD bays to unload/receive bulk LPG in the existing LPG Bottling Plant, Indane Bottling Plant at SIPCOT Industrial Growth Sector. -- **Issue of Environmental Clearance- Reg.**

Sir,

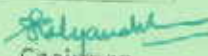

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2005, by the State Level Expert Appraisal Committee, Tamilnadu in its 69th meeting and decided to recommend the project for issue prior environment clearance by SEIAA and SEIAA after careful consideration decided to issue Environmental Clearance in its 141st meeting held on 17.11.2015 vide Item No. 141/06 based on the Information submitted by you which are extracted below.

1	(i) Name of the Project	M/s. Indian Oil Corporation, LPG Bottling Plant.
	(ii) Date of Application:	11.06.2013
2.	Name of Sector: Schedule No.(in the EIA Notification,2005)	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)- 6(b)

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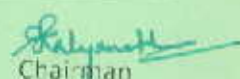
3.	New Project/ Expansion	Expansion																				
4	Name of the Applicant/Project Proponent	The Senior Plant manager/Indian Oil Corporation Ltd																				
5.	Name of the Consultancy Company	ABC Techno Labs India Pvt Ltd.																				
6(i)	Project Location	Survey Nos 180(pt), 181(pt), 194(pt), 195(pt), 196(pt), 197(pt), 198, 199, 200, 201, 202(pt), 223(pt), 229(pt), 230 & 231 of Perundurai Village, SIPCOT Industrial Growth Centre, Perundurai Village, Taluk: Erode District: Erode																				
6(ii)	Co-ordinates	11° 14' 15.09"N- 11° 15' 59.32" N -Latitude 77° 33' 17.29"E 77° 33' 34.12"E - Longitude																				
(ii)	Whether GO attracted	No																				
7(i)	Area of the Site(in Hectares)	Total Area- 24.57 Hectares																				
7(ii)	Built up area(in Sq. Metres)	<table border="1"> <thead> <tr> <th>Land Use Parameter</th> <th>Area (sq mt)</th> </tr> </thead> <tbody> <tr> <td>Plant Building Area</td> <td>5099.05</td> </tr> <tr> <td>Plant Non- Building Area</td> <td>35531.54</td> </tr> <tr> <td>LPG Storage Area</td> <td>4815.78</td> </tr> <tr> <td>Truck Parking Area</td> <td>12585.78</td> </tr> <tr> <td>Driveway and Pathways</td> <td>11978.74</td> </tr> <tr> <td>Future Expansion Area</td> <td>20234.37</td> </tr> <tr> <td>Green Belt Development Area</td> <td>85915.11</td> </tr> <tr> <td>Open Area</td> <td>70496.53</td> </tr> <tr> <td>Total Area (in Acres)</td> <td>246656.91 (24.57ha)</td> </tr> </tbody> </table>	Land Use Parameter	Area (sq mt)	Plant Building Area	5099.05	Plant Non- Building Area	35531.54	LPG Storage Area	4815.78	Truck Parking Area	12585.78	Driveway and Pathways	11978.74	Future Expansion Area	20234.37	Green Belt Development Area	85915.11	Open Area	70496.53	Total Area (in Acres)	246656.91 (24.57ha)
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8.	Land use Classification as per Record	Industrial Area																				
9.	TOR given by SEAC? (if yes then specify the meeting)	Yes, Lr.No.SE/AA-TN/F.No.1365/M-XXXIX/TOR-153/2013/dated 17/09/2013.																				
10(i)	Project Cost	Rs 32 crores.																				
10(ii)	EMP Cost(O&M)	CAPITAL COST- Rs 39.35Lakhs, OPERATIONAL COST- Rs 5.43Lakhs.																				
11	Distance from Protected areas Areas/Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.	NO Critically Polluted areas/ Protected areas Areas /Eco-Sensitive areas/Inter State Boundaries as cited.																				


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12.	Production Details	Name of Product	Quantity(T/yr)
Sl No	DESCRIPTION	EXISTING FACILITIES	PROPOSED FACILITIES
i)	Bulk Storage	3 X 150 MT Bullets 1 X 1400 MT Horton Sphere	3 X 600 MT Mounded Bullets
ii)	LPG Pumps	2 x 48 m ³ /hr	1 x 85 m ³ /hr
iii)	LPG Compressors	2 x 75 CFM, 1 x 100 CFM	2 x 150 CFM
iv)	Air Compressor	2 x 170 CFM	1 X 300 CFM
v)	Carousel	1 x 24 point electronic carousel	1 x 24 point electronic carousel
vi)	Filling shed	Unloading finger, empty can filling shed, filled cylinder storage shed, loading finger and valve change shed.	1000 Sqm area to be extended
vii)	Tank Lorry Decantation	8 Bays	8 Bays
viii)	Fire Water Tank	2 X 3700 KL	1 X 3700 KL
ix)	Fire Pump: Auto Start	5 X 40 m ³ /hr	Nil
x)	Fire Hydrants & monitors	34 Nos of double hydrants & 40 nos of monitors	15 Nos of double hydrant and 10 monitors added
xi)	MV spray system	17 nos of DV's with QB system and MV spray network	4 additional DV's with sprinkler system will be provided
xii)	Generators	2 X 225 KVA, 1 X 10KVA	1 X 625 KVA
13.	Raw materials (Including Process Chemicals, catalysts & additives etc)	List of Raw materials Not applicable	Quantity(T/yr) -
14.	Material Balance/Mass Balance (Tons)	Not applicable	-
15.	Manufacturing Process	Only storage and distribution of petroleum products. The products received through trucks is received in storage tanks and pumped from Cntry for loading of tank trucks to retail outlets and further to consumers.	
16.	Man-power Requirement	150	
17.	Total Water Requirement	Source	S PCOT Industrial Growth Centre
		Water Requirement	Quantity (KLD)
	i)	Domestic	4.5
	ii)	(a) Industrial	1
		(b) Cooling water	0.5 (Closed circulation)
		Total	6 KLD
18.	Sewage generation and treatment	3.6 KLD, Septic tank Soak pit - 4Nos	4.1 mx 1.4 mx 2.15 m (each)
19.	ETP Details	1. Oil & Grease separator - 4Nos, (5.1 m dia x 2.8m) (each) 2. Settling Tank - 2no.	


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		(3.4m x 2.4m x 1.4m) (each)																
20.	Solid waste Management	Non-Hazardous Waste Handling and disposal Details																
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Sr No.	Hazardous Waste	MT/Year	Mode of Disposal															
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21	Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, (kg/hr)	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>Stack height(metres)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2X 275 KVA</td> <td>5.5(each)</td> </tr> <tr> <td>2</td> <td>1X 140 KVA</td> <td>5.5</td> </tr> <tr> <td>3</td> <td>1X 625 KVA (Proposed)</td> <td>6.0</td> </tr> </tbody> </table>	S.No.	Description	Stack height(metres)	1	2X 275 KVA	5.5(each)	2	1X 140 KVA	5.5	3	1X 625 KVA (Proposed)	6.0				
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22	Details of Fuel to be used:	Diesel for DG set. LPG Storage: There are 30 numbers of Gas Monitoring Sensors (GMS) installed for LPG leakage detection.																
23.	Power Requirement	TNEB 11 KVA DG set Refer item 21. (Back-up)																
24	EIA Study - Baseline studies Period	Primary baseline data collected during the period from 1 st January 2014 to 31 st March 2014.																
25	Public Hearing	As per the OM of MoEF dated 10.12.2014, public hearing is exempted for those projects within the industrial estate which were notified prior to EIA Notification, 2006.																
26	Storm Water Management	Garland drains to be provided along the periphery of premises.																
27	Rain Water Harvesting	Pits for Rainwater harvesting- 2 nos. 2cu.mt each Rain water sump -2 Nos. 100 sqm: area each.																
28.	Green Belt Development	Area - 8.6 Hectares (34%)																
29	CSR details	Not applicable.																


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30	Environment Management plan Budgetary Allocation	1. Capital Cost			
		2. O&M Cost			
		Sr. No.	Description	Recurring cost in Rs 5.43 Lakhs per annum	Capital Cost in Rs 39.35 Lakhs
(All the sampling stations in TOR shall be covered for monitoring).					

Validity:- The SEIAA-TN hereby accords Environmental Clearance to this project under the provisions of the EIA Notification 2006 as amended, with Validity for **FIVE** years from date of issue.

(A) SPECIFIC CONDITIONS:-

- i) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.
- ii) "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.
- iii) Regular mock drills for the on-site emergency management plan shall be ensured.
- iv) The recommendations made in the EIA/DMP/EMP/Risk Assessment study shall be complied with. Risk Assessment shall be included in the Safety manual.
- v) The fugitive emissions during loading and unloading shall be suitably controlled. Fugitive emissions in the work zone environment and raw materials storage & handling areas shall be regularly monitored. The emissions shall confirm to the limits prescribed by the TNPCCB/CPCB.
- vi) Vehicular emissions should be kept under control and each vehicle shall carry valid Emission certificate issued by competent Authority.
- vii) Adequate dust extraction system such as water spray system as in handling points, transfer areas and other vulnerable dusty areas shall be provided.

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- viii) Adequate Pollution control measures such as Ducting with dust extracting arrangement, water sprinkling, spraying wherever required shall be established to achieve Occupational Health standards and Ambient air quality standards.
- ix) Chimney of 5.5m & 6.0m height shall be provided to DG sets for SO_x, NO_x and Particulate Matter (PM_{2.5} & PM₁₀).
- x) The waste water/ Sewage generated from any other source other than indicated shall also be taken for treatment & redesigning the treatment plants if required.
- xi) The project proponent shall explore all possibilities to reuse /recycle the treated effluent wherever possible to reduce the disposable effluent.
- xii) The used oil and used batteries shall be disposed off scientifically thro' authorized agencies of SPCB.
- xiii) The hazardous wastes generated shall be disposed of as per the provision of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
- xiv) Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SO₂, NO_x & Particulate Matter is anticipated. At least four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for monitoring SO₂, NO_x & Particulate Matter. Location of the monitoring stations should be decided in consultation with State Pollution Control Board based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring etc.
- xv) The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under the EP Act 1986.
- xvi) Interlocking system between process plant and pollution control equipment shall be installed, in case of treatment process disturbances/failure of pollution control equipment the industry shall be stopped and shall be restarted until the control measures are rectified to achieve the desired efficiency.
- xvii) Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
- xviii) A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.


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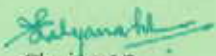

- xix) The land area of 8.6 Hectares earmarked within the project area shall be developed for green belt development in consultation with DFO on the selection of the species & number of plantations to be carried out.
- xx) The industry shall promote tree plantation to neutralize their carbon foot print. Green Belt consisting of three tiers of plantations of native species around plant and at least 75 m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80 %.
- xxi) Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water drawal.
- xxii) Scheduled Flora and Fauna found in the study area of the core zone around the project site shall be monitored closely and a plan shall be prepared and implemented for their conservation.
- xxiii) The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
- xxiv) The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NCT/ Honble High Court of Madras

(B) GENERAL CONDITIONS:-

- a. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.
- b. The Land use classification shall be meeting the requirement for this type of project, before commencement of establishment.

c. The Project Proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the Environmental Clearance informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with TNPCC and also at the Website of the SEIAA, TN at <http://www.seiaa.tn.gov.in>.]

- c. A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions/representatives, if any were received while processing the proposal.
- e. **The Environmental Clearance shall also be put on the website of the company.**


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- f. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- g. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
- h. The implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional office of MoEF&CC at Chennai, TNPCB and CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- i. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF&CC, GOI, at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public.
- j. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- k. **Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.**
- l. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- m. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- n. The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 55 dBA (day time) and 45 dBA (night time).
- o. The project proponent shall regenerate/preserve water body located at about 5.0 km from the propose site at its own expenses. The project proponent shall also develop village ponds in addition and shall ensure that the existing ponds in and around 5.0 Km radius are well maintained.


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- p. Hydro geological study of the area shall be reviewed annually and report submitted to the Authority. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.
- q. The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
- r. At least three nearest villages shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.
- s. CSR activity shall be implemented as committed by drawing a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, providing sanitation facilities, drinking water supply in the government schools nearby, community awareness, establishment of health centres, water supply to nearby villages and employment to local people whenever and wherever possible both for technical and non-technical jobs and protection of water sources around the project site etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on implementation shall be furnished regularly.
- t. A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.
- u. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.
- v. The project proponent shall disclose the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF&CC,GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- w. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- x. **The Environmental Clearance is valid for 5 years from the date of issue.**


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- y. Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.
- z. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- aa. The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Bangalore.
- bb. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- cc. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- dd. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- ee. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
- ff. 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, 1986, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with the amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Rights Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.
- gg. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


CHAIRMAN
SEIAA-TN

Copy to:-

1. The Principal Secretary to Government,
Environment & Forests Department,
Govt. of Tamil Nadu, Fort St. George,
Chennai - 600 009.

2. The Chairman,
Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar,
New Delhi 110032.
3. The Member Secretary,
Tamil Nadu Pollution Control Board,
76, Mount Sala, Guindy,
Chennai - 600 032.
4. The ACCF(C), Regional Office of MoEF,
34, heac Building, 1 & 2 nd Floors,
Cathedral Garden Road, Nungambakkam,
Chennai - 600 034.
5. Monitoring Cell, I A Division,
Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex,
New Delhi 110003.
6. The District Collector, Perurudurai District.
7. Stock File.



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