सत्यमेव जयते

THIRU A.V. VENKATACHALAM,I.F.S
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road,
Saidapet,Chennai-15.
Phone No.044-24359974
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA/TN/F. 6100/5(f)/EC -54 /2017 dt: 16.10.2017.

To

M/s. Pharmazell (India) Private Limited (Unit-I),
S.F.No. 164/1, Plot No. B5 & B6, MEPZ,
Kadaperi Village, Tambaram Taluk,
Kancheepuram District

Sir,

Sub: SEIAA -TN –Environmental Clearance-Proposed expansion of basic organic chemicals manufacturing facility from 1,819.2 TPA to 2119.2 TPA in a notified Industrial area at S.No: 164/1, Plot No. B5 & B6, MEPZ, Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamilnadu under category B1 and schedule 5(f) - Synthetic Organic Chemicals Industry (Bulk Drugs & Intermediates excluding drug formulations) by M/s. Pharmazell (India) Private Limited (Unit I) - Issued - Regarding.

Ref: 1. Your application for EC Dt: 04.01.2017.
2. Minutes of 85th SEAC Meeting held on 30.03.2017.
3. Minutes of 212th SEIAA Meeting held on 30.05.2017.
4. Letter No. SEIAA /F.6100/2016/TOR/5(f)/TOR-276/2016

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Dated: 30.05.2017.

5. EIA report submitted on 21.09.2017.
6. Minutes of 95th SEAC Meeting held on 06.10.2017.
7. Minutes of 242nd SEIAA Meeting held on 11.10.2017.
8. Minutes of 243rd SEIAA Meeting held on 16.10.2017.

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This has reference to your application dated 04.01.2017 and subsequent communication on the above mentioned subject by M/s. Pharmazell (India) Private Limited (Unit-I), for expansion of basic organic chemicals manufacturing facility in Form-1, Prefeasibility Report to SEIAA-TN for obtaining Environmental Clearance for the Proposed expansion of basic organic chemicals manufacturing facility from 1819.2 TPA to 2119.2 TPA in a notified Industrial area at S.No: 164/1, Plot No. B5 & B6, MEPZ, Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamilnadu under Item No. 5(f)– ' Synthetic Organic chemicals Industry (dyes & dyes intermediate; bulk drugs and intermediates excluding drug formulation; Synthetic rubbers; basic Organic Chemicals, other synthetic organic chemicals and chemical intermediates (located in a notified industrial area/estate) &Category 'B1'of the Schedule to the EIA Notification, 2006.

Based on the application made in Form-1, Prefeasibility report, Proposed TOR, Annexure, and the additional clarifications furnished by the proponent, the SEAC in its 85thmeeting held on 30.03.2017 decided to issue TOR and called for the preparation of the detailed EIA report. The EIA report was submitted by the Project Proponent dated 21.09.2017. The proposal was considered as per the EIA Notification, 2006 by the State Level Expert Appraisal Committee, Tamilnadu in its 95th SEAC meeting held on 05.10.2017, 06.10.2017 & 07.10 2017 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 243rd meeting held on 16.10.2017 vide Item

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No. 243 - 02 subject to terms and conditions stipulated under the provisions of Environment Impact Assessment Notification, 2006 as amended based on the Information submitted by you which are extracted below:

1	(i) Name of the Project: (ii) Date of Application:	M/s. Pharmazell (India) Private Limited (Unit-I) 04.01.2017	
2	Name of Sector: Schedule No(in the EIA Notification,2006)	5(f) Synthetic Organic Chemicals Industry (Bulk Drugs & Intermediates excluding drug formulations)	
3.	New Project/ Expansion	Expansion	
4	Name of the Applicant/Project Proponent	Mr. R.Govindaraj, Managing Director	
5	(i) Project Location	S.No: 164/1, Plot No. B5 & B6, MEPZ, Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamilnadu	
	(ii) Co-ordinates	12°56'51.87"N; 80°07'14.48"E	
	(iii) Whether any GO attracted	No.	
6	(i)Area of the Site (in Hectares)	10,470 Sq.m (2.587 Acres)	
7	(ii)Land use area (in Ha)	Total Land Area	1.047Ha
		Process Plant Area	0.6 Ha
		Roads and Pavements	0.296 Ha
		Solid Waste Storage Area	0.01 Ha
		ETP Area	0.101 Ha
		Green belt Area	0.04 Ha
8	Land use	Industrial area – Madras Export Processing Zone (MEPZ), Tambaram,	

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	Classification as per Record	Chennai- 600045
9	TOR given by SEAC? (If yes then specify the meeting)	Yes, 85th SEAC Meeting held on 30.03.2017.
10	Project Cost (after expansion)	Rs57.49/ - Crores
11	Distance from Protected areas Areas/Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.	Nil
12	Production Details	

S.no.	Description	Quantity/month	
	Product	Existing	Proposed (after Expansion)
1.	L-Cysteine Hydrochloride monohydrate	75 T	75 T
2.	L-Cysteine Hydrochloride anhydrous	41.6 T	41.6 T
3.	Carbocysteine	25 T	50 T
	Total	**141.6 T/month (1699.2 TPA)**	**166.6 T/Month (1999.2 TPA)**
	By product		
1.	Sodium Hypochlorite	10 T	10 T
	Total production quantity	**151.6 T/Month (1819.2 TPA)**	**176.6 T/Month (2119.2 TPA)**

13	Manufacturing	1. For production of **L-Cysteine Hydrochloride monohydrate and**

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	Process	**L-Cysteine Hydrochloride anhydrous**------Dissolution (Spent carbon for disposal)–Electrolysis (Chlorine absorbed as NaOCl in absorbtion tank)- Evaporation-Crystallisation-Centrifugation-Drying- Packing. 2. For production of **Carbocysteine**---- Reaction by adding NaOH-Carbon treatment- Filtrate and Dilution with DM water(Spent Carbon for Disposal)- Filtration and Washing- Precipitation by adding HCL-Centrifugation and washing (wash water to ETP)-Drying-Packing.
14	Man-power Requirement (after expansion)	177Nos.
15	Total Water Requirement – 332 KLD (after expansion)	MEPZ

Source	Quantity (KLD)
I. Process water	312 KLD
a. Industrial use and washing	100
b. RO reject	90
c. Boiler feed	20
d. Cooling tower make up	100
e. Wet scrubber make up	2
II. Domestic	17
III. Fire Hydrant system make up	1
IV. Gardening	2

16	Sewage generation and treatment	Sewage Generation – 15KLD, Disposed to MEPZ Common STP.

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17	ETP Details -100 KLD	**Name of the Unit**	**No. of Units**	**Dimension**
		ETP (100 KLD Capacity)		
		Equalisation Sump	1	5.5m x 5.3m x 5.0m
		Aeration Tank	1	10.0m x 10.0m x 3.0m
		Clarifier Tank	1	4.0m Dia x 2.5m Ht
		Primary Settling Tank	1	3.2m x 3.2m x 2.5m
		Secondary Aeration Tank	1	3.0m x 3.0m x 1.5m
		Secondary Settling Tank	1	3.0m x 3.0m x 2.5m
		Sludge Drying Bed	2	5.0m x 5.0m x 0.8m
		Filter Press	1	1.0m x 1.0m
		ETP Treated water Storage tank	2	2.0 m Dia x 3.67m Ht
		Multigrade Filter (MGF)	1	0.8 m Dia x 2.0 m Ht
		Iron Removal Filter (IRF)	1	0.8 m Dia x 2.0 m Ht
		Activated Carbon Filter (ACF)	1	0.8 m Dia x 2.0 m Ht
		Bag Filter	1	0.14 m Dia x 0.52m Ht
		RO system (6 m3/Hr Capacity) -2 Nos.		
		UF Feed Tank	1	2.0 m Dia x 3.67m Ht
		Ultra Filter Membranes with Housing	1	2.0 m L x 3.0 m Ht
		RO Feed Tank	1	2.0 m Dia x 3.67m Ht
		Micron Filter	2	Dia - 4" x H - 20"
		RO Membranes with Housing	2	3.0 m L x 2.0 m Ht
		RO Product Tank	1	2.0 m Dia x 3.67m Ht
		RO Reject Tank	1	2.0 m Dia x H - 1.67m Ht
		Evaporator (75 KLD Capacity)		

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<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Multiple Effect Evaporator (MEE)</td><td>1</td><td>3.75 M3/Hr</td></tr>
</table>
</td></tr>
<tr><td>17A</td><td>Reuse of treated effluent</td><td>160 KLD of recycled water (RO Permeate 130 KLD & 30 KLD of Evaporator condensate water) will be reused in process.

44 KLD (Concentrated liquid from MEE) treated in centrifuge and salt sent for disposal</td></tr>
<tr><td>18</td><td>Solid waste Management</td><td>
<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Name of the Solid Waste</th><th colspan="2">Quantity (MT/Y)</th><th rowspan="2">Disposal method</th></tr>
<tr><th>Existing</th><th>Proposed (After Expansion)</th></tr>
<tr><td>1</td><td>Non-hazardous waste (Domestic)</td><td>17</td><td>17.5</td><td>Handed over to local waste collection system</td></tr>
<tr><td>2</td><td>Used / Spent Oil</td><td>3.0</td><td>3.0</td><td>Stored and Disposal to Authorized Recyclers</td></tr>
<tr><td>3</td><td>Spent Carbon</td><td>70 TON (Wet Weight)</td><td>100 TON (Wet Weight)</td><td>Stored and Disposal to TSDF / Coprocessing in Cement kiln</td></tr>
<tr><td>4</td><td>Chemical Sludge (A)</td><td>25</td><td>50</td><td>Stored and Disposal to TSDF / Coprocessing in Cement kiln</td></tr>
<tr><td>5</td><td>Evaporated Salt (B)</td><td>30</td><td>390</td><td>Stored and disposed/ or Recover and reuse</td></tr>
</table>
</td></tr>
</table>

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		6	Flue Gas Cleaning Residue (Boiler Chimney)	12.5	12.5	Stored and Disposal to TSDF
		7	Discarded Container /Barrels	1.5	2.5	Stored and Disposal to TSDF
		8	Date Expired Drugs /Medicines	8.0	15	Stored and Disposal to TSDF
		9	Wastes Residue Containing Oil	0.75	0.75	Stored and Disposal to TSDF

19	Stack emission Details: (All the stacks attached to process units, Boilers, D.G. Sets, (kg/hr)	**S. No**	**Source of Emission**	**Control Measures**	**Top dimensions**	**Height**	**Material of Construction**
		1	HCL Storage Tanks (3 Nos.)	Wet Scrubber with Stack	0.9	10	FRP
		2	Vacuum Pump – 11 Nos, Fume				

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				Cupboard – 2 Nos.			
			3	Reactor – 10 Nos., Crystallizer – 6 Nos.			
			4	Boiler – 3 T/Hr& 5 T/Hr	Common Cyclonic Dust Collector and Common Stack	0.45	32	Mild Steel
			5	DG set 750 KVA Capacity	Stack	0.2	9.5	Mild Steel
			6	DG set 750 KVA Capacity	Stack	0.2	9.5	Mild Steel
20	Details of Fuel to be used:	S. No	Boiler/DG Set			Fuel consumption Consumption		Fuel Type
		1.	3 TPH-Oil fired boiler			2.25 TPD		HSD
		2.	5 TPH-Oil fired boiler			6.428 TPD		HSD
		3.	DG Sets			2.4 KL/day		HSD
21	Power Requirement	TNEB				2000 KVA		

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		DG set (Back-up)-	750 KVA- 2 nos.
22	Storm Water Management	Storm water to be disposed through to MEPZ storm water line.	
23	Rain Water Harvesting	A collection sump of 220 Cu.m. for storage of the rainwater collected from roof of shed and open area.	
24	Green Belt Development	Greenbelt will be developed inside the unit premises covering a total area of about 0.04 Hectares (400 Sq.m).	
25	CSR details	An amount of Rs 55 Lakhs is earmarked as capital cost towards CSR Activity. CSR plan includes providing infrastructure facilities to the local community.	
26	Environment Management plan Budgetary Allocation(after expansion)	Description / Annual Operating cost in Lakhs per annum / Capital Cost in Lakhs EMP / Rs. 78 / Rs. 376.72	

Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions stipulated below:

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(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) The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.

(iv) The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.

(v) Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational – health standards and Ambient air quality standards.

(vi) The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.

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(vii) Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laided down in MSDS.

(viii) The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.

(ix) The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.

(x) The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.

(xi) The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.

(xii) The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016.

(xiii) The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.

(xiv) The industry shall conduct air sampling at least once in six months for the general core parameters (PM_{10}, $PM_{2.5}$, SO_x, NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.

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(xv) 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.

(xvi) 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.

(xvii) The land area of 400 Sq.m of green belt area already developed within the project area shall be properly maintained.

(xviii) The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.

(xix) The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.

(xx) Risk cum disaster management plan should be in place at the time of commissioning.

(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 drawl.

(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.

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(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 NGT/ Honb'le High Court of Madras.

(xxv) The salt recovered from the Effluent treatment system shall not be disposed into the secured landfill, in order to prevent ground water pollution problems, being a highly soluble substance.

(xxvi) The project proponent shall earmark adequate funds to develop R&D for the recovery and reuse within the reasonable time frame in consultation with TNPCB.

(xxvii) The project proponent shall explore alternate technologies to reduce or prevent use of salt in the manufacturing process.

(xxviii) The Project Proponent has to provide rain water harvesting collection tank to the capacity of 220 cu.m in order to recover and reuse the rain water during normal rains.

(B) GENERAL CONDITIONS:-

i. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.

ii. 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

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clearance letter is available with TNPCB and also at the Website of the SEIAA, TN at http:/www.seiaa.tn.gov.in.

iii. 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.

iv. The Environmental Clearance shall also be put on the website of the company.

v. 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.

vi. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.

vii. 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.

viii. 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, SO_2 and NOx outside the premises at the appropriate place for the general public.

ix. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

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x. Proper house-keeping and cleanliness must be maintained within and outside the plant.

xi. 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.

xii. 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. 75dBA (day time) and 70 dBA (night time).

xiii. The project proponent shall also adequately contribute in the development of the neighboring 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.

xiv. 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.

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xv. 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.

xvi. 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.

xvii. The project proponent shall upload 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, SO_2, NOx (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.

xviii. 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.

xix. The Environmental Clearance is valid for 7 years from the date of issue.

xx. 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.

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xxi. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

xxii. 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 Chennai.

xxiii. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.

xxiv. 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.

xxv. 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.

xxvi. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.

xxvii. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules , 2010 framed under MMDR Act 1957,National Commission for protection of Child Right Rules ,2006 and rules

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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.

xxviii. 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.

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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, PariveshBhavan,
   CBD Cum-Office Complex, East Arjun Nagar,
   New Delhi 110032.

3. The Member Secretary,
   Tamil Nadu Pollution Control Board,
   76, Mount Salai, Guindy,
   Chennai - 600 032.

4. The ACCF(C), Regional Office of MoEF,
   34, hepc Building, I & 2 nd Floors,
   Cathedral Garden Road, Nungampakkam,
   Chennai - 600 034.

5. Monitoring Cell, I A Division,
   Ministry of Environment & Forests,
   Paryavaran Bhavan, CGO Complex,
   New Delhi 110003.

6. The District Collector, Kancheepuram District.

7. Stock File.