# SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

## December 2022

SEIAA-TN/F.6957/EC/8(B)/683/2019 DATED:11.12.2019

#### LOCATION:

TAMIL NADU POLYMER INDUSTRIES PARK LIMITED (TPIPL) S.NO. 143 (P), 187 (P), 2053B (P) VOYALUR & PUZHUDIVAKKAM TEHSIL: PONNERI, TIRUVALLUR, TAMIL NADU.

SUBMITTED BY: TAMIL NADU POLYMER INDUSTRIES PARK LIMITED (TPIPL) NO: 19 A, RUKMINI LAKSHMIPATHY ROAD, EGMORE, CHENNAI, TAMILNADU.

### Table of Contents

List of Figuresiii
List of Tablesiv
List of Annexuresv
Project Detailsv
1. LOCATION MAP
1.1 Site Photographs2
2. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT
2.1 PART - A: Common Conditions Applicable for Pre-Construction, Construction and Operational Phases 3
2.2 Specific Conditions: Pre-Construction Phase9
2.3 Specific Condition Construction Phase12
3. Monitoring
3.0 Ambient air quality monitoring
3.1.1 Ambient Air Quality Monitoring Stations19
3.1.2 Ambient Air Quality Monitoring Methodology20
3.2 Ambient Noise level monitoring21
3.2.1 Ambient Noise Monitoring Locations
3.2.2 Methodology of Noise Monitoring22
3.2.3 Noise Test Parameters:22
3.3 Soil Analysis22
3.3.1 Soil Monitoring Locations22
3.3.2 Soil Parameters:23
3.4 Ground water quality monitoring23
3.4.1 Ground water parameters:24
3.5 Surface water quality monitoring25
3.5.1 Surface Water Parameters26
3.6 Conclusion
4. ENVIRONMENTAL MONITORING DETAILS

### List of Figures

Figure 1. 1 Location Map	1
Figure 1. 2 Site Photographs	2
Figure 3. 1 AAQ Monitoring	20
Figure 3. 2 Noise Monitoring	21
Figure 3. 3 Soil Monitoring	23
Figure 3. 4 Ground Water Monitoring	24
Figure 3. 5 Surface Water Monitoring	25

### List of Tables

Table 2. 1 Compliance Statement	3
Table 2. 2 Compliance Statement	9
Table 2. 3 Compliance Statement	12
Table 3. 1 Details of Ambient Air Quality Monitoring Stations	19
Table 3. 2 Details of Ambient Noise Monitoring Stations	21
Table 3. 3 Soil Sample Collection	22
Table 3. 4 Details of Ground Water Sample Collection	23
Table 3. 5 Details of Surface Water Sample Collection	25

### List of Annexures

S. No	List of Contents
Annexure 1	Copy of Environmental Clearance
Annexure 2	Consent to Establishment Submission Screenshot
Annexure 3	Environmental Monitoring Report
Annexure 4	Newspaper Advertisement
Annexure 5	Newspaper Advertisement Submission Acknowledgement at MoEFCC and SEIAA
Annexure 6	EC Submission to Local Bodies
Annexure 7	EC Copy Uploaded at Our Website
Annexure 8	Environmental Statement Uploaded at Our Website
Annexure 9	Compliance Report Uploaded at Our Website
Annexure 10	DTCP Land Use Classification

### Project Details

Name of the Project	M/s. Tamil Nadu Polymer Industries Park Ltd.
	SF. No. 143 (P), 187 (P), 2053B(P)
Location	Villages: Voyalur & Puzhudivakkam,
Location	Tehsil: Ponneri, Tiruvallur,
	State: Tamil Nadu.
EC. Letter No.	SEIAA-TN/F.6957/EC/8(b)/683/2019 dated 11.12.2019
EC. Letter NO.	(Enclosed as Annexure - 1)
Total Area	239.82 acre

### **1. LOCATION MAP**

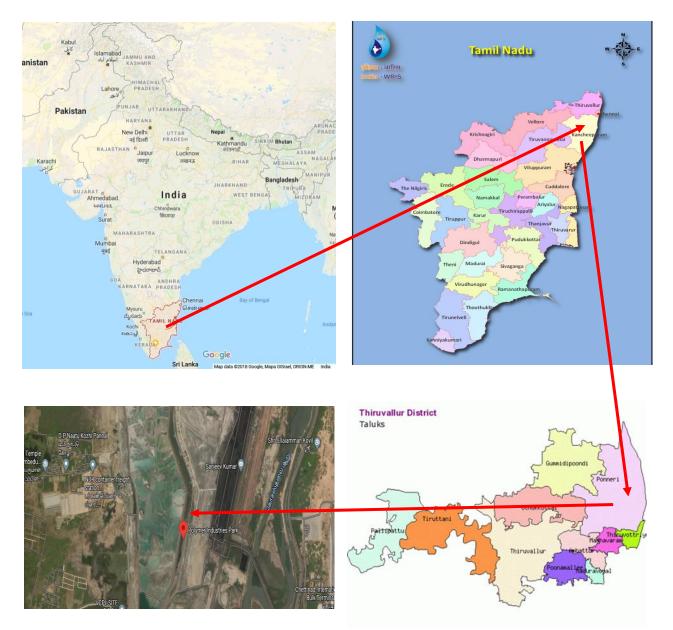


Figure 1. 1 Location Map

### 1.1 Site Photographs





Figure 1. 2 Site Photographs

### 2. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE

### **STATEMENT**

### 2.1 PART - A: Common Conditions Applicable for Pre-Construction, Construction and Operational Phases

Table 2. 1 Compliance Statement

S.NO	CONDITIONS	STATUS
1.	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.	Yes. NGT has disposed the Appeal No. 11/2020 with certain directions. vide its order dated 04.05.2022. The appeal was filed by Thiru. K. Saravanan, S/o. Kasinathan, Chennai – 90 before the Hon'ble National Green Tribunal, Southern Zone at Chennai challenging the Environment Clearance (EC) issued by State Level Impact Assessment Authority (SEIAA) for establishment of Tamilnadu Polymer Industries Park Limited.
		TPIPL has filed a Civil Appeal (CA 4709/2022) before the Hon'ble Supreme Court praying to quash the judgment issued by the Hon'ble NGT Southern Zone, Chennai.
2	The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.	All the member units will be advised to comply with.
3	The Environmental safeguards contained in the application of the proponent/mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.	TPIPL shall comply with all the conditions of EC.
4	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, fire and Rescue Services Department, Civil Aviation	Condition is being complied. All the member units will be instructed to obtain all necessary statutory

	Department, Forest Conservation Act, 1980 and Wild	clearances and approvals.
	Life (Protection) Act, 1972, State / Central Ground	
	Water Authority, Coastal Regulatory Zone Authority,	
	other statutory and other authorities as applicable to	
	the project shall be obtained by project proponent	
	from the concerned competent authorities.	
5	The SEIAA reserves the right to add additional	Condition noted.
	safeguard measures subsequently, if non-compliance	
	of any of the EC conditions is found and to take action,	
	including revoking of this Environmental Clearance as	
	the case may be.	
6.	A proper record showing compliance of all the	Condition is being complied.
	conditions of Environmental Clearance shall be	5 1
	maintained and made available at all the times.	
7.	The environmental statement for each financial year	Condition will be complied.
	ending 31st March in Form-V as is mandated to be	Screenshot of Environmental
	submitted by the project proponent to the concerned	Statement uploaded on TPIPL
	State Pollution Control Board as prescribed under the	website is given in Annexure – 8.
	Environment (Protection) Rules, 1986, as amended	5
	subsequently, shall also be put on the website of the	
	company. The status of compliance of environmental	
	clearance conditions and shall also be sent to the	
	Regional Office of the Ministry of Environment and	
	Forests, Chennai by e-mail.	
8.	The Regional Office of the Ministry located at Chennai	Condition noted.
	shall monitor compliance of the stipulated conditions.	
	The project authorities should extend full cooperation	
	to the officer (s) of the Regional Office by furnishing	
	the requisite data/ information/ monitoring reports.	
9.	"Consent for Establishment" shall be obtained from	Consent to Establishment has been
	the Tamil Nadu Pollution Control Board and a copy	granted and copy of the same is
	shall be submitted to the SEIAA, Tamil Nadu.	enclosed as Annexure 2.
10.	In the case of any change(s) in the scope of the project,	Condition noted. There is no change
	a fresh appraisal by the SEAC/SEIAA shall be obtained	in scope of the project.
	before implementation.	
11.	The conditions will be enforced inter-alia, under the	Condition noted.
	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 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, including the Hon'ble National Green tribunal relating to the subject	
12.	matter. The Environmental Clearance shall not be cited for	Condition noted.
	relaxing the other applicable rules to this project.	
13.	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.	TPIPL shall comply with all the conditions of EC.
14.	The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PMI0, PM2.5, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	Condition is being complied. Compliance report for the period October 2021 to March 2022 has been uploaded in the website of TPIPL and the screenshot is given in Annexure –9.
15.	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 deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	TPIPL shall comply with all the conditions of EC.
16.	The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.	Condition noted.
17.	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.	Condition noted.

18.	The Environmental Clearance does not absolve the	Condition noted.
	applicant/proponent of his obligation/requirement to	
	obtain, other statutory and administrative clearances	
	from other statutory and administrative authorities.	
19.	Where the trees need to be cut, compensation	Condition noted.
	plantation in the ratio of 1:10 (i.e., planting of 10 trees	
	for every one tree that is cut) should be done with the	
	obligation to continue maintenance.	
20.	A separate environmental management cell with	Condition complied. Separate
	suitable qualified personnel should be set-up under	Environmental Management Cell
	the control of a Senior Executive who will report	have been set-up for TPIPL.
	directly to the Head of the Organization and the	·
	shortfall shall be strictly reviewed and addressed.	
21.	The EMP cost of Rs. 1.09 crores shall be deposited in a	Condition will be complied.
	Nationalized bank by opening separate account and	
	the head wise expenses statement shall be submitted	
	to TNPCB with a copy to SEIAA annually.	
22.	The project activity should not cause any disturbance	Condition noted.
	& deterioration of the local bio diversity.	
23.	The project activity should not impact the water	Condition is being complied. Surface
	bodies. A detailed inventory of the water bodies and	water quality monitoring report is
	forest should be evaluated and fact reported to the	enclosed as Annexure 3.
	Forest Department & PWD for monitoring.	
24.	All the assessed flora & fauna should be conserved and	Condition noted.
	protected.	
25.	The proponent should strictly comply with, Tamil Nadu	Condition will be complied. All the
	Government Order (Ms) No. 84 Environmental and	member units will be instructed to
	forest (EC 2) Department dated 25.06.2018 regarding	comply with.
	ban on one time use and throwaway plastics	
	irrespective of thickness with effect from 01.01.2019	
	under Environment (Protection) Act, 1986.	
26.	As per MoEF & CC, Gol, Office Memorandum dated	Not applicable.
	30.03.2015, prior clearance from Forestry & Wildlife	
	angle including clearance from obtaining committee of	
	the National Board for Wildlife as applicable shall be	
	obtained before starting the quarrying operation, if the	
	project site is located within 10KM from National Park	
	and Sanctuaries.	
27.	Traffic congestion near the entry and exit points from	Condition will be complied.
	the roads adjoining the proposed project site must be	
	avoided.	

20		
28.	The safety measures proposed in the report should be strictly followed	Condition will be complied. All the member units will be instructed to comply with.
29.	The Developer shall ensure that no allotment letter / sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.	Condition will be complied.
30.	The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.	Land use classification letter obtained from District Town Planning Office is given in Annexure – 10.
31.	The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board.	Not applicable. Water requirement will be met through CPCL Desalination Plant.
32.	The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.	Condition will be complied. All the member units will be instructed to comply with.
33.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
34.	The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throw away plastic.	Condition will be complied. All the member units will be instructed to comply with.
35.	The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.	Land use classification letter obtained from District Town Planning Office is given in Annexure -10.
36.	The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.	Condition will be complied.
37.	The allotted industrial units shall obtain consent from the TNPCB separately for their establishment &	All the member units will be instructed to obtain all necessary

operation in this industrial estate.

statutory clearances and approvals.

38.	The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.	Condition will be complied. All the member units will be instructed to comply with.
39.	The proponent shall provide Rainwater Harvesting pits	Condition will be complied. All the
	so as to recharge the ground water table.	member units will be instructed to
		comply with.
40.	Discharge of treated sewage shall conform to the	All the member units will be
-	norms & standards prescribed by the Tamil Nadu	instructed to comply with.
	Pollution Control Board.	
41.	It is the sole responsibility of the proponent that the	Condition will be complied. All the
	treated sewage disposed for greenbelt development	member units will be instructed to
	/avenue plantation should not pollute the soil/ ground	comply with.
	water/ adjacent canals/ lakes/ ponds, etc.	
42.	The Developer has to ensure that all the member	Condition will be complied. All the
	industries within the Industrial Park shall make their	member units will be mandated to
	own arrangements to achieve zero discharge of the	provide individual ETP with Zero
	trade Effluents.	Liquid Discharge system and to
		handle the domestic wastewater as
		per the prescribed standards.
43.	The project proponent shall ensure that all the	Condition will be complied. All the
10.	member units should treat and dispose solid waste &	member units will be instructed to
	E-waste as per the Solid Waste Management Rule	comply with.
	2016 as amended and E-Waste Management Rules,	
	2016.	
44.	There shall be no discharge of effluent outside the	All the member units will be
	Industrial Park at any time.	instructed to comply with. All the
		member units will be mandated to
		provide individual ETP with Zero
		Liquid Discharge system.
45.	The Developer shall mandate the member units of the	Condition will be complied.
	Industrial Park to install adequate APC measures /	Individual industries will be advised
	Acoustic to achieve air emissions standards within	to adopt Air Pollution Control
	permissible limits prescribed by the CPCB.	measure to achieve air emissions
		standards within permissible limits
		prescribed by the statutory
		authority.
46.	The Project proponent Shall embark the following Co-	Condition will be complied.
40.	ordinates in the project site as per CRZ map issued by	condition will be complied.
	IRS, Anna University and shall provide with pillar stone.	
	no, rana onversity and shar provide with pillar stone.	

1	ABEL	LATTITUDE	LONGITUDE
	А.	13°17'53.829"N	80°18'57.149"E
	В.	13°17'51.613"N	80°19'6.267"E
	C.	13°17'29.520"N	80°19'17.462"E
	D.	13°17'25.876"N	80°19'17.624"E
	E.	13°17'0.406"N	80°19'11.241"E
	F.	13°16'45.849"N	80°19'2.924"E
	G.	13°16'11.552"N	80°18'54.004"E
	Н.	13°16'10.676"N	80°18'48.620"E
	Ι.	13°16'15.943"N	80°18'48.161"E
	J.	13°16'16.212"N	80°18'46.548"E
	К.	13°16'39.554"N	80°18'52.076"E
	L.	13°16'44.580"N	80°18'50.337"E
	M.	13°16'56.035"N	80°18'44.163"E
	N.	13°17'3.801"N	80°18'42.680"E
	0.	13°17'5.139"N	80°18'43.162"E
	Ρ.	13°17'2.214"N	80°18'53.224"E
	Q.	13°16'59.337"N	80°18'57.518"E
	R.	13°16'59.532"N	80°19'3.514"E
	S.	13°17'18.118"N	80°19'8.899"E
	T.	13°17'26.234"N	80°19'9.191"E
	U.	13°17'29.254"N	80°19'8.933"E
_	V.	13°17'30.657"N	80°19'6.172"E
	W.	13°17'33.153"N	80°19'8.035"E

47. The Environmental Clearance issued only for the Condition noted. revised proposal submitted for the project site fall non CRZ area as per CRZ (Ref.No.AU/IRS/CU/229-2019 Dt. 09.12.2019) map issued by IRS, Anna University.

### 2.2 Specific Conditions: Pre-Construction Phase

Table 2. 2 Compliance Statement

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project authorities should advertise with basic	Condition complied. Newspaper
	details at least in two local newspapers widely	advertisement copy is enclosed as
	circulated, one of which shall be in the vernacular	Annexure 4.
	language of the locality concerned, within 7 days	The copy of the press release has been
	of the issue of clearance. The press releases also	forwarded to the Regional Office of the
	mention that copy of the clearance letter is	Ministry of Environment and Forests
	available with the state pollution Control Board	located at Chennai and SEIAA - TN.

	and also at website of SEIAA, TN. The copy of the	Acknowledgement copy of the same is
	press release should be forwarded to the Regional Office of the Ministry of Environment and Forests	enclosed as Annexure 5.
	located at Chennai and SEIAA- TN.	
2.	In the case of any change(s) in the scope of the	Condition noted. There is no change in
	project, a fresh appraisal by the SEAC/SEIAA shall	scope of the project.
	be obtained before implementation	
3.	A copy of the clearance letter shall be sent by the	Condition complied. Acknowledgement
	proponent to the Local Body. The clearance letter	of the EC copy sent to local body is
	shall also be put on the website of the Proponent.	attached as Annexure 6. The clearance
		letter has also uploaded on our website
		and screenshot is enclosed as Annexure
		7.
4.	The approval of the competent authority shall be	Condition will be complied. Individual
	obtained for structural safety of the buildings	member units will be instructed to obtain
	during earthquake adequacy of firefighting	all necessary statutory clearances and
	equipment's, etc as per National Building Code	approvals.
	including protection measures from lightning etc	
	before commencement of the work.	
5.	All required sanitary and hygienic measures for the	Condition will be complied. All the
	workers should be in place before starting	member units will be instructed to
	construction activities and they have to be	comply with.
	maintained throughout the construction phase.	. ,
6.	Design of building should be in conformity with	All the member units will be instructed to
	the Seismic Zone Classifications.	comply with.
7.	The Construction of the structures should be	All the member units will be instructed to
	undertaken as per the plans approved by the	comply with.
	concerned local authorities/local administration.	
8.	No construction activity of any kind shall be taken	Condition will be complied.
	up in the OSR area.	
9	Consent of the local body concerned should be	Condition will be complied.
	obtained for using the treated sewage in the OSR	
	area for gardening purpose. The quality of treated	
	sewage shall satisfy the bathing quality prescribed	
	by the CPCB.	
10.	The height and coverage of the constructions shall	All the member units will be instructed to
	be in accordance with the existing FSI/FAR norms	comply with.
	as per Coastal Regulation Zone Notification, 2011.	
11.	The Project Proponent shall provide car parking	All the member units will be instructed to
	exclusively for the visiting guest in the proposed	comply with.
	residential apartments as per CMDA norms.	

12.	The project proponent shall ensure the level of	•
	basement shall be above maximum flood level.	member units will be instructed to comply with.
13.	The proponent shall prepare completion plans	Condition will be complied. All the
	showing Separate pipelines marked with different	member units will be instructed to
	colours with the following details	comply with.
	i. Location of STP, compost system,	
	underground sewer line	
	ii. Pipe Line conveying the treated effluent for	
	green belt development	
	iii. Pipe Line conveying the treated effluent	
	for toilet flushing	
	iv. Water supply pipeline	
	v. Gas supply pipe line, if proposed	
	vi. Telephone cable	
	vii. Power cable	
	viii. Strom water drains, and	
	ix. Rain water harvesting system, etc., and it	
	shall be made available to the owners.	
14.	A First Aid Room shall be provided in the project	Condition will be complied. All the
	site during the entire construction and operation	member units will be instructed to
	phases of the project.	comply with.
15.	The present land use surrounding the project site	Condition will be complied.
	shall not be disturbed at any point of time.	
16.	The green belt area shall be planted with	Greenbelt will be developed with
	indigenous native trees.	indigenous native species suitable to the
		soil.
17.	Natural vegetation listed particularly the trees	Condition noted.
	shall not be removed during the	
	construction/operation phase. In case any trees	
	are likely to be disturbed, shall be Replanted.	
18.	During the construction and operation phase,	Condition will be complied.
	there should be no disturbance to the aquatic eco-	
	system within and outside the area.	
19.	The Provisions of Forest conservation Act 1980,	Condition noted.
	Wild Life Protection Act 1972 & Bio diversity Act	
	2002 should not be violated.	
20.		Condition will be complied. All the
20.	2002 should not be violated.	Condition will be complied. All the member units will be instructed to
20.	2002 should not be violated. There should be Firefighting plan and all required	•
20.	2002 should not be violated. There should be Firefighting plan and all required	member units will be instructed to
	2002 should not be violated. There should be Firefighting plan and all required safety plan.	member units will be instructed to comply with.

### 2.3 Specific Condition Construction Phase

Table 2. 3 Compliance Statement

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Construction Schedule:	
	i) The Project proponent shall have to furnish the	Condition noted.
	probable date of commissioning of the project	
	supported with necessary bar charts to SEIAA-TN.	
2.	Labour Welfare:	
	i) All the labourers to be engaged for construction	Condition will be complied. All the
	should be screened for health and adequately	member units will be instructed to
	treated before and during their employment on	comply with.
	the work at the site.	
	ii) Personnel working in dusty areas should wear	Condition will be complied. All the
	protective respiratory devices and they should also	member units will be instructed to
	be provided with adequate training and	comply with.
	information on safety and health aspects.	
	Occupational health Surveillance program of the	
	workers should be undertaken periodically to	
	observe any contradictions due to exposure to dust	
	and take corrective measures, if needed.	
	iii) Periodical medical examination of the workers	Condition will be complied. All the
	engaged in the project shall be carried out and	member units will be instructed to
	maintained. For the purpose, schedule of health	comply with.
	examination of the workers should be drawn and	
	followed accordingly. The workers shall be	
	provided with personnel protective measures such	
	as masks, gloves, boots, etc.	
3.	Water Supply:	
		Condition will be complied.
	construction phase may be met from ground water	
	source from the source with approval of the PWD	
	Department of water resources/ may be out	
	source.	
	ii) Provision shall be made for the housing labour	Condition will be complied. All the
	within the site with all necessary infrastructures	member units will be instructed to
	and facilities such as fuel for cooking, mobile	comply with.
	toilets, mobile STP, safe drinking water, medical	
	nasith care creche atc. The housing may be in the	
	health care, creche etc. The housing may be in the	
	form of temporary structures to be removed after the completion of the project.	

	iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.	Condition will be complied. All the member units will be instructed to comply with.
	iv) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.	Condition will be complied. All the member units will be instructed to comply with.
	v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor-based control.	Condition will be complied. All the member units will be instructed to comply with.
4.	Solid Waste Management:	
	i) In the solid waste management plan, the STP sludge management plan for direct use as manure, gardens is not acceptable; it must be co-composted with biodegradables.	All the member units will be instructed to comply with.
	<ul> <li>ii) House hold hazardous wastes such as batteries,</li> <li>small electronics, CFL bulbs expired medicines and</li> <li>used cleaning solvent bottles should be segregated</li> <li>at source, in a month from residences and</li> <li>disposed as per the SWM rules 2016.</li> </ul>	All the member units will be instructed to comply with.
	iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and solid waste management rules 2016.	•
	iv) No waste of any type disposed of in any watercourse including drains, canals and the surrounding environment.	Condition will be complied. All the member units will be instructed to comply with.
	<ul> <li>v) E-waste shall be disposed through Authorized</li> <li>vendor as per E-waste (Management and Handling)</li> <li>Rules, 2016 and subsequent amendment.</li> </ul>	Condition will be complied. All the member units will be instructed to comply with.
5.	Top Soil Management:	
	<ul> <li>i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.</li> </ul>	Condition will be complied. All the member units will be instructed to comply with.
6.	Construction Debris disposal:	
	<ul> <li>Disposal of construction debris during construction phase should not create any adverse effect on the neighbouring communities and be</li> </ul>	Condition will be complied. All the member units will be instructed to comply with.

	disposed of only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people, The construction and demolition waste shall be managed as per Construction & Demolition Waste Management rules, 2016. ii) Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/stream etc.	member units will be instructed to
7.	Diesel Generator sets:	
	<ul> <li>i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.</li> </ul>	
	<ul> <li>ii) The diesel required for stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of explosives shall be taken.</li> </ul>	Condition noted.
	iii) The acoustic enclosures installed at all noise generating equipment's such as DG sets, air	
8.	conditioning systems, cooling water tower etc. Air & Noise Pollution Control:	
0.	<ul> <li>i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.</li> </ul>	Condition will be complied. All the member units will be instructed to comply with.
	<ul> <li>ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.</li> </ul>	Condition is being complied. All the member units will be instructed to comply with. Ambient Air and Noise monitoring Reports are enclosed as Annexure 3.
	iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized	Condition will be complied. All the member units will be instructed to comply with.

	and no public space should be utilized. Parking plan	
	to be as per DTCP norms. The traffic department	
	shall be consulted and any cost-effective traffic	
	regulative facility shall be meet before	
	commissioning	
	iv) The buildings should have adequate distance	Condition noted. All the member units
	between them to allow free movement of fresh air	will be instructed to comply with.
	and passage of natural light, air and ventilation.	
9.	Building material:	
	i) Fly-ash blocks should be used as building material	Condition will be complied. All the
	in the construction as per the provision of Fly ash	member units will be instructed to
	Notification of September, 1999 and amended as	comply with.
	on 27th August, 2003 and Notification No. S.O.	
	2807 (E) dated: 03.11.2009.	
	ii) Ready-mix concrete used in building	Condition will be complied. All the
	construction and necessary cube tests should be	member units will be instructed to
	conducted ascertain their quality.	comply with.
	iii) Use of glass shall be reduced up to 40% to	All the member units will be instructed
	reduce the electricity consumption and load on air	to comply with.
	conditioning. If necessary, high quality double glass	
	with special reflecting coating shall be used in	
	windows.	
10.	Storm Water Drainage:	
10.	Storm Water Drainage: i) Storm water management around the site and on	
10.	Storm Water Drainage: i) Storm water management around the site and on site shall be established by following the guidelines	Condition noted. All the member units will be instructed to comply with.
10.	Storm Water Drainage: i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.	will be instructed to comply with.
10.	Storm Water Drainage: i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual. ii) Storm water management plan shall be obtained	will be instructed to comply with. All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.	will be instructed to comply with.
10.	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:	will be instructed to comply with. All the member units will be instructed to comply with.
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.	will be instructed to comply with. All the member units will be instructed to comply with. All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:	will be instructed to comply with. All the member units will be instructed to comply with.
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement as	will be instructed to comply with. All the member units will be instructed to comply with. All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by using	will be instructed to comply with. All the member units will be instructed to comply with. All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfil	will be instructed to comply with. All the member units will be instructed to comply with. All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirement	<ul><li>will be instructed to comply with.</li><li>All the member units will be instructed to comply with.</li><li>All the member units will be instructed to comply with.</li></ul>
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribed	will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation Building	will be instructed to comply with.   All the member units will be instructed to comply with.     All the member units will be instructed to comply with.     All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation BuildingCode which is mandatory for all air-conditioned	will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation BuildingCode which is mandatory for all air-conditionedspaces by use of appropriate thermal insulation	will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation BuildingCode which is mandatory for all air-conditionedspaces by use of appropriate thermal insulationmaterial to fulfil the requirement.	will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation BuildingCode which is mandatory for all air-conditionedspaces by use of appropriate thermal insulationmaterial to fulfil the requirement.iii) All norms of Energy Conservation Building Code(ECBC) and National Building Code, 2005 as energy	will be instructed to comply with.   All the member units will be instructed to comply with.     All the member units will be instructed to comply with.     All the member units will be instructed to comply with.     Condition will be complied. All the
	Storm Water Drainage:i) Storm water management around the site and onsite shall be established by following the guidelineslaid down by the storm water manual.ii) Storm water management plan shall be obtainedby engaging the services of Anna University/IIT.Energy Conservation Measures:i) Roof should meet prescriptive requirement asper Energy Conservation Building Code by usingappropriate thermal insulation material, to fulfilthe requirementii) Opaque wall should meet prescribedrequirement as per Energy Conservation BuildingCode which is mandatory for all air-conditionedspaces by use of appropriate thermal insulationmaterial to fulfil the requirement.iii) All norms of Energy Conservation Building Code	will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   All the member units will be instructed to comply with.   Condition will be complied. All the member units will be instructed to

	<ul> <li>iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.</li> <li>v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials &amp; technology; R &amp; U factors etc and</li> </ul>	Condition will be complied. All the member units will be instructed to comply with. All the member units will be instructed to comply with.
	submitted to the SEIAA in three months' time.	
	vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	Condition will be complied. All the member units will be instructed to comply with.
12.	Fire Safety:	
	i) Adequate fire protection equipment's and rescue arrangements should be made as per the prescribed standards.	
	ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue in the	Condition will be complied. All the member units will be instructed to
	event of emergency shall be made.	comply with.
13.	event of emergency shall be made. Green Belt Development:	comply with.
13.		

types of trees at very close escapement may be	
tried which will give a good green cover. A total of	
15% of the plot area should be designated for	
green belt which should be raised along the	
boundaries of the plot and in between blocks in an	
organized manner.	
iii) The proponent shall develop the green belt as	Condition will be complied.
per the plan furnished and area earmarked for the	
greenbelt shall not be alter at any point of time for	
any other purpose.	
iv) The proponent has to earmark the greenbelt	Condition noted.
area with dimension and GPS coordinates for the	
green belt area and the same shall be included in	
the layout out plan to be submitted for DTCP	
approval.	
Sewage Treatment Plant:	
i) The Sewage Treatment Plant (STP) installed	All the member units will be instructed
should be certified by an independent expert/	to comply with.
reputed academic institution for its adequacy and a	
report in this regard should be submitted to the	
SEIAA, TN before the project is commissioned for	
operation, Explore the less power consuming	
systems viz baffle reactor, etc., for the treatment	
of sewage.	
ii) The Proponent shall install STP as furnished. Any	All the member units will be instructed
alteration to satisfy the bathing quality shall be	to comply with.
informed to SEIAA-TN.	
iii) The project proponent shall operate and	All the member units will be instructed
maintain the Sewage treatment Plant effectively to	to comply with.
meet out the standards prescribed by the CPCB.	
,,,,,,,	
iv) The project proponent shall continuously	All the member units will be instructed
operate and maintain the Sewage treatment plant	to comply with.
to achieve the standards prescribed by the CPCB.	
v) The project proponent has to ensure the	All the member units will be instructed
complete recycling of treated sewage after	to comply with.
achieving the standards prescribed by the CPCB	
vi) The project proponent has to provide separate	All the member units will be instructed
	All the member units will be instructed to comply with.

15.	Rain Water Harvesting:	
	i) The proponent/Owner of the Flats shall ensure	All the member units will be instructed
	that roof rain water collected from the covered	to comply with.
	roof of the buildings, etc shall be harvested so as to	
	ensure the maximum beneficiation of rain water	
	harvesting by constructing adequate sumps so that	
	100% of the harvested water shall be reused.	
	ii) Rain water harvesting for surface run-off, as per	All the member units will be instructed
	plan submitted should be implemented. Before	to comply with.
	recharging the surface run off, pre-treatment with	
	screens, settlers etc. must be done to remove	
	suspended matter, oil and grease, etc.	
	iii) The project activity should not cause any	Condition noted.
	disturbance & deterioration of the local bio	
	diversity.	
16.	Building Safety:	
	Lightning arrester shall be properly designed and	All the member units will be instructed
	installed at top of the building and where ever is necessary.	to comply with.

### 3. Monitoring

### 3.0 Ambient air quality monitoring

#### 3.1.1 Ambient Air Quality Monitoring Stations

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), VOC, Hydrocarbons and Carbon monoxide were monitored.

S.No	Location Code	Location description	Location coordinates
1	AAQ 1	South Corner of the Project	13°16'15.5"N 80°18'47.2"E
		Site	
2	AAQ 2	North Corner of the Project	13°16'53.0"N 80°18'45.4"E
		Site (Up Wind)	
3	AAQ 3	Near Kattupalli Village (Up	13°18'25.0"N 80°19'44.2"E
		Wind)	
4	AAQ 4	Near Kamarajar Port (Cross	13°15'54.0"N 80°19'33.6"E
		Wind)	
5	AAQ 5	Near Athipattu Pudhu Nagar	13°15'05.0"N 80°18'22.6"E
		(Down Wind)	

Table 2, 1 Details of Ambient Air Qualit	V Monitoring Stations
Table 3. 1 Details of Ambient Air Qualit	y monitoring stations



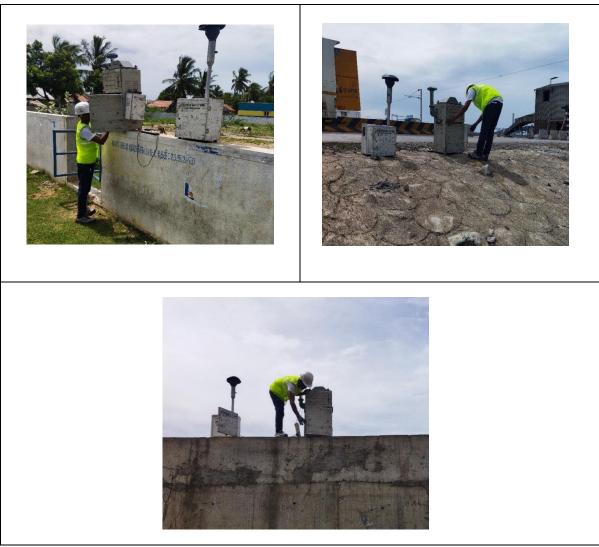


Figure 3. 1 AAQ Monitoring

#### 3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- PM10
- PM2.5
- SO2
- NO2
- CO
- NH3
- 03
- Pb
- Ni
- As
- C6H6
- BaP
- Ammonia Levels

#### 3.2 Ambient Noise level monitoring

#### 3.2.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in project site. Ambient noise monitoring was conducted at three different locations such as inside the project area and nearby village as given in Table 3.2.

S.No	Location Code	Location description	Location coordinates
1	Noise 1	South corner of the project site	13°16'15.0"N 80°18'48.2"E
2	Noise 2	Near kattupalli village	13°18'25.0"N 80°19'44.2"E
3	Noise 3	Near Athipattu Pudhu Nagar	13°15'05.0"N 80°18'22.6"E





Figure 3. 2 Noise Monitoring

#### 3.2.2 Methodology of Noise Monitoring

Noise levels were measured using integrated sound level meter. The integrating sound level meter is an integrating/ logging type with Octave filter attachment with frequency range of 31.5 to 16000 Hz. This instrument is capable of measuring the Sound Pressure Level (SPL), Leq and octave band frequency analysis.

#### 3.2.3 Noise Test Parameters:

- The Source Noise
- Source Noise decibel

#### 3.3 Soil Analysis

#### 3.3.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the physico - chemical characteristics of soils were examined by obtaining soil samples from selected point and analysis of the same. Three samples of soil was collected from the project site and the nearby village for studying soil characteristics, the location of which is listed in Table 3.3.

S.No	Location Code	Location description	Location coordinates		
1	Soil 1	South Corner of the Project Site	13°16'15.9"N 80°18'48.7"E		
2	Soil 2	Kattupalli Village	13°18'25.0"N 80°19'44.2"E		
3	Soil 3	Athipattu Pudhu Nagar	13°15'05.0"N 80°18'22.6"E		

#### Table 3. 3 Soil Sample Collection

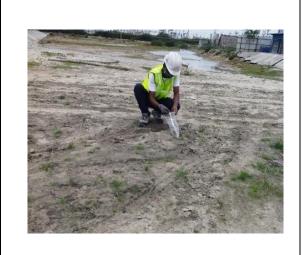






Figure 3. 3 Soil Monitoring

The samples have been analyzed as per the established scientific methods for physicochemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectro-photometer and Inductive Coupled Plasma Analyzer. The sample collected and analyzed is enclosed as Annexure

#### 3.3.2 Soil Parameters:

- Soil Texture
- Ph at 25C @ 10% solution
- Bulk Density
- Cation exchange capacity
- Water Holding Capacity
- Total organic Carbon
- Organic matter
- Nitrogen
- Phosphorus
- Potassium and other

#### 3.4 Ground water quality monitoring

During construction phase the ground water may get polluted due to infiltration of rainwater mixed with soil contaminants in the site. The ground water was tested at three locations for various water quality parameters during April 2022 – September 2022. The results are within the stipulated norms when compared with Baseline data. Ground water collected location given as Table 3.4

S.No	Location Code	Location description	Location coordinates
1	Ground Water 1	Project Site	13°16'13.9"N 80°18'47.1"E
2	Ground Water 2	Kattupalli village	13°18'25.0"N 80°19'44.2"E
3	Ground Water 3	Athipattu Pudhu Nagar	13°15'05.0"N 80°18'22.6"E

#### Table 3. 4 Details of Ground Water Sample Collection



Figure 3. 4 Ground Water Monitoring

### 3.4.1 Ground water parameters:

- pH (at 25C)
- total hardness as CaCO3
- TDS
- SO4
- NO3
- Fe
- Zn
- Cr
- Cu
- Cd
- Pb
- Se
- As
- Hg
- TSS
- Nickel
- Ba and other parameters as per NABL standards

#### 3.5 Surface water quality monitoring

The surface water is collected and tested at three locations for various water quality parameters during April 2022 – September 2022. The results are within the stipulated norms when compared with Baseline data. Surface water collected location given as Table 3.5

S.No	Location Code	Location description	Location coordinates			
1	Surface Water 1	Buckingham Canal (UP	13°12'4.331"N 80°18'24.219"E			
		Stream)				
2	Surface Water 2	Buckingham Canal (Down	13°11'2.494"N 80°17'48.757"E			
		Stream)				
3	Surface Water 3	Kosasthalaiyar River	13°16'52.3"N 80°19'37.7"E			

	Table 3. 5 Details of Surface Water Sample Colle	ction
--	--	-------



Figure 3. 5 Surface Water Monitoring

#### 3.5.1 Surface Water Parameters

- pH (at 25°C)
- TDS
- Nitrate as NO3
- TSS and other parameters as per NABL standards

#### 3.6 Conclusion

All the test samples collected as per the NABL standards and the test reports shared as Annexure 3 with the compliance report.

### 4. ENVIRONMENTAL MONITORING DETAILS

The environmental monitoring was carried out at site by M/s. Life Shell Labs India Private Limited for the period of April 2022 – September 2022.



#### STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU

3rd Floor, Panagal Maaligai, No.1 Jeenis Road, Saidapet, Chennai-15. Phone No.044-24359973 Fax No. 044-24359975

#### ENVIRONMENTAL CLEARANCE (EC)

#### Letter No. SEIAA-TN/F. 6957/EC/ 8(b)/683/2019 dated: 11.12.2019.

To

Dr. JAYANTHI. M, I.F.S

MEMBER SECRETARY

The Managing Director

M/s. Tamil Nadu Polymer Industries Park Ltd.

19-A, Rukmani Lakshmipathy Road

Post Box No.7223

Egmore

Chennai-600 008

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed establishment of Polymer Industries Park at Voyalur & Puzhidivakkam by M/s. Tamil Nadu Polymer Industries Park Ltd at S.F. No. 143 & 187 of Puzhidivakkam village, 2053B part of Voyalur Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu -Issued – Regarding.

Ref: 1. Your application for Terms of Reference dated: 22.07.2019

- ToR Issued by SEIAA-TN Vide Lr. No. SEIAA/ TN/ F.No.6957/ SEAC/ ToR-654/ 2019 dated: 31.10.2019
- 3. Proponent EIA report submitted to SEIAA-TN on 20.11.2019
- 4. Minutes of the 139<sup>th</sup> SEAC Meeting held on 23.11.2019

5. Minutes of the 362 SET Meeting held on 27.11.2019





Page 1 of 26

6. Proponent revised EIA report submitted to SEIAA-TN on 09.12.2019

7. Minutes of the 363<sup>rd</sup> SEIAA Meeting held on 11.12.2019

\*\*\*\*\*

This has reference to your application 3<sup>rd</sup> cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B2 and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended.

The Competent Authority and Authorized signatory furnished detailed information in Form 1 and Form 1A and liquidate enclosures are as Annexures:

SL No	Description	Details	
1)	Name of the Project proponent and address		
2)	Proposed Activity	Proposed establishment of Polymer Industries Park at Voyalur & Puzhidivakkam Villages	
3)	Schedule No.	8(b)	
4)	Project Location		
	i)Survey No	143 & 187 of Puzhidivakkam village, 2053B part of Voyalur Village	
	ii)Revenue Village	Puzhidivakkam & Voyalur Village	
	iii)Taluk	Ponneri	
	iv)District	Tiruvallur	
5)	Area of the Land	239.82 acres	
6)	Built up Area		

Annexure 1



MEMBER SECRETARY SEIAA-TN

## Letter No. SEIAA-TN/F. 6957/EC/ 8(b)/683/2019 dated: 11.12.2019 SEIAA-TN

	SI.No.	Descr	iption	Area (Acres)
	1	Plot area		167.21
	2	OSR		24.38
	3	Amenities		5.01
	4	Logistics (Truck Terminal)	)	6.00
	5	Solid Waste Management		9.00
	6	Road, Water supply, Storm Lights	a water drain & Street	25.22
	7	Utility Corridor		3.00
		Total area		239.82
7)	The prope of roads,	cription of the project osal is an infrastructure deve water supply, storm water du	rainage, street lights, pro	lves developmon
	The prope of roads, y developm Industrial 2006 and • Po • En Pla Co	osal is an infrastructure deve water supply, storm water du ent, and such other amenitie Park will house industries amendments thereof. The pr lymer and Plastic Component gineering Manufacturing / P stic component manufacturing ating activities.	rainage, street lights, gross. which do not fall under roposed industries inclu- nts/Parts/Products Production, specifically, ing with Metal Finishin	olves development een belt EIA Notification de the following: Machines for g and Surface
8)	The prope of roads, - developm Industrial 2006 and • Po • En Pla Co • An No	osal is an infrastructure deve water supply, storm water du ent, and such other amenitie Park will house industries amendments thereof. The pr lymer and Plastic Component gineering Manufacturing / F astic component manufacturing ating activities. y other industries that a tification,2006	rainage, street lights, gross. which do not fall under roposed industries inclu- nts/Parts/Products Production, specifically, ing with Metal Finishin	olves developmen een belt EIA Notificatior de the following: Machines for g and Surface purview of EIA





v

## Letter No. SEIAA-TN/F. 6957/EC/ 8(b)/683/2019 dated: 11.12.2019

SEIAA-TN

9)	Green Belt				
	Sl.No.	Description	Area (Acres)		
	1.	In OSR		24.38	
	2.	By Member Industries (33 % of the total plot area allotted to Member Industries) i.e 33% of 167.21 Ha		56.30	
		Total		80.68	
		Percentage of Green Belt among Total Area of Industrial Park i.e 239.82 hectares		33.09%	
10)	UTILITIES-WATER				
	a)	Total Water Requirements	1 MLD		
	<ul> <li>b) Source from where the water is proposed to be drawn</li> </ul>		Tamil Nadu Water Supply and Drainage Board (TWAD)		
	c) Sewage system		All member units will be mandated install "Zero Liquid Discharge" base Effluent Treatment Plants to reclain water for recycle/reuse in their utilities and green belt development. The quantity of sewage that will generated from SIPCOT administration office will be managed in septic tan followed by soak pit.		
		d) ETP & Recycle line	install "Zero Liqu Effluent Treatmer water for recycle/ and green belt deve		
11)	Solid Waste Management		Area of 9 acres has been earmarked for establishing a solid waste management facility.		





		<ul> <li>SIPCOT will identify a TSDF provider and facilitate to establish such a treatment, storage and disposal facility(TSDF) in line with guidelines of CPCB &amp; MoEF &amp; CC.</li> <li>Solid waste generated will be disposed to the approved Municipal Solid Waste Management or else SIPCOT will set up its facility through renowned agencies by outsourcing their services on annual contract basis</li> </ul>
12)	Power requirement	50MW from TANGEDCO
13)	Project Cost	Rs. 216.91 Crores
14)	EMP Cost	For Operation Phase: Capital Cost –72.76 lakhs Operation cost- 36.60 Lakhs per annum

#### Annexure 2- Affidavit

The Proponent has furnished affidavit in Twenty Rupees stamp paper attested by the Notary stating that

I, Dr. S. AneeshSekhar, IAS, Managing Director, Authorised Signatory, represent M/s. Tamil Nadu Polymer Industries Park Ltd (TPIPL), 19-A, RukmaniLakshmipathy Road, Egmore, Chennai – 600008. We have proposed to establish a polymer industries park over an extent of 239.82acres at Voyalur and Puzhudivakkam Villages, Ponneri taluk, Thiruvallur District. An application submitted by us seeking Environmental Clearance under the EIA Notification, 2006 is under scrutiny in the Authority. I am furnishing the following undertaking to the Authority, hereby solemnly affirm and state as follows:-

 We commit to SEIAA that will develop Green belt in10.16% of the total area i.e 24.38acres. Further, we will also ensure the development of green belt in 33% of the allotted area by the member units i.e 55.18acres, which is 23.01% of total area. It will be made as a mandatory condition in the land allotment order as well as the lease deed to be executed between TPIPL and allottees. The net area of

MEMBER SECRETARY

SEIAA-TN



Page 5 of 26

green belt of the proposed industrial park in the post project scenario will be 79.56 acres, which is 33.17% of the total area of the park.

2. We commit to SEIAA that the area proposed for the park does not fall under CRZ area. The co-ordinates of the site as per the map prepared by Institute of Remote Sensing, Anna University superimposing the site on approved CZMP as per CRZ notification 2011 vide Ref.No.AU/IRS/CU/229-2019 are as follows:

Label	Latitude	Longitude		
A	13 <sup>0</sup> 17'53.829"N	80 <sup>0</sup> 18'57.149''E 80 <sup>0</sup> 19'6.267''E		
В	13 <sup>0</sup> 17'51.613"N			
С	13°17'29.520"N	80 <sup>0</sup> 19'17.462''E		
D	13 <sup>0</sup> 17'25.876''N	80 <sup>0</sup> 19'17.624"E		
E	13 <sup>0</sup> 17'0.406''N	80 <sup>0</sup> 19'11.241"E		
F	13 <sup>0</sup> 16'45.849''N	80 <sup>0</sup> 19'2.924"E		
G	13°16'11.552"N	80 <sup>0</sup> 18'54.004"E		
H	13 <sup>0</sup> 16'10.676"N	80 <sup>0</sup> 18'48.620"E		
I	13 <sup>0</sup> 16'15.943"N	80 <sup>0</sup> 18'48.161"E		
J	13 <sup>0</sup> 16'16.212"N	80 <sup>0</sup> 18'46.548"E		
K	13 <sup>0</sup> 16'39.554"N	80 <sup>0</sup> 18'52.076"E		
L	13 <sup>0</sup> 16'44.580"N	80 <sup>0</sup> 18'50.337"E		
М	13°16'56.035"N	80°18'44.163"E		
N	13°17'3.801''N	80°18'42.680"E		
0	13°17'5.139"N	80°18'43.162"E		
Р	13°17'2.214''N	80°18'53.224"E		
Q	13°16'59.337"N	80°18'57.518"E		
R	13°16'59.532"N	80°19'3.514"E		
S	13°17'18.118"N	80°19'8.899"E		
Т	13°17'26.234"N	80°19'9.191"E		
U	13°17'29.254"N	80°19'8.933"E		
V	13°17, 30,6871'N	80°19'6.172"E		

MEMBER SECRA

SÉIAA-TN

Panta

### W 13°17'33.153"N 80°19'8.035"E

- We commit to SEIAA that the total water requirement for the park is 1MLD, which will be obtained from Tamil Nadu Water Supply and Drainage Board (TWAD). TWAD Board has already issued approval for 2.2 MLD (Letter No. 1609/F.CBIC/DO/PF Dn/VLR/date: 16.09.2015.
- 4. We commit to SEIAA that all member units will be mandated to install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development. We will mandate to member units to manage the sewage as per TNPCB norms. The solid waste stream will be sent to TNPCB approved vendors/TSDF for proper and ultimate disposal. The quantity of sewage that will be generated from TPIPL administrative office will only be 1000litres/day and it will be managed in septic tank followed by soak pit as onsite construction.
- 5. We commit to SEIAA that all member units will be mandated to provide rain water harvesting structures as per norms. TPIPL will construct percolation tanks for harvesting the rainwater in the project office.
- 6. We commit to SEIAA that we will provide storm water drainage system as open concrete channels, all along the road side for ensuring proper collection of storm water and will let out in the nearby water bodies. We also assure that the storm water drain would not carry any untreated or treated sewage.
- We commit to SEIAA that we will undertake CER activities as per norms with the approval of board of TPIPL.
- 8. We also assure that our project site does not encroach any water bodies such as rivers, canals, nallas, lakes, ponds, tanks, etc., from its original boundary.
- We are aware that we can be prosecuted under relevant Act and Rules, if we are not ensuring the adherence of the above commitment

The project activity is covered in 8(b) of the Schedule and is of B2 category. It does not require Public Consultation as per Para 7 III Stage (3) (i) (d) of EIA Notification, 2006.



MEMBER SECRETARY R SEIAA-TN

Page 7 of 26

The Authority after consideration all the requisite documents with status and data and based on SEAC appraisal and recommendations for issue of Environmental Clearance in its 139<sup>th</sup> meeting held on 23.11.2019, SEIAA placed the proposal in the 363<sup>rd</sup> SEIAA meeting held on 19.12.2019 hereby conveyed Environmental Clearance along with the conditions containing four parts namely

Part - A –Common conditions applicable for Pre-construction, Construction and Operational Phases

Part - B - Specific Conditions - Pre construction phase

Part - C - Specific Conditions - Construction phase

Part - D - Specific Conditions - Operational Phase/Post constructional

Phase / Entire life of the project.

#### Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> 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:

### <u>Part - A – Common conditions applicable for Pre-construction, Construction and</u> <u>Operational Phases:</u>

- 1. 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.
- 2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
- 3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact



MEMBER SECRETARY

SEIAA-TN

Page 8 of 26

Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.

- 4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
- 5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
- A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
- 7. 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. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
- 8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
- 10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
- 11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Performance, 1974, the Air (Prevention & Control of



MEMBER SECRETARY SEIAA-TN

Page 9 of 26

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 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, including the Hon'ble National Green Tribunal relating to the subject matter.

- 12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
- 13. 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.
- 14. The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
- 15. 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.
- 16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.

MEMBER SEØRET

SEIAA-T



Page 10 of 26

- 17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
- 18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- 19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
- 20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
- 21. The EMP cost of Rs.1.09 Crores shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
- The project activity should not cause any disturbance & deterioration of the local bio diversity.
- 23. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
- 24. All the assessed flora & fauna should be conserved and protected.
- 25. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
- 26. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained

MEMBER SECRETARY

SEIAA-TN



Page 11 of 26

before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.

- Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
- 28. The safety measures proposed in the report should be strictly followed.
- 29. The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.
- 30. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.
- 31. The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD board
- 32. The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.
- 33. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
- .34. The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throwaway plastics.
- 35. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.



MEMBER SECRETARY

Page 12 of 26

- 36. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
- 37. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
- 38. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.
- 39. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
- 40. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
- 41. It is the sole responsibility of the proponent that the treated sewage disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.
- 42. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents,
- 43. The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule2016 as amended and E-Waste Management Rules, 2016
- 44. There shall be no discharge of effluent outside the Industrial Park at any time.
- 45. The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.
- 46. The Project proponent shall earmark the following Co ordinates in the project site as per CRZ map issued by IRS, Anna University and shall provide with pillar stone.

LATITUDE	LONGITUDE
13°17'53.829"N	80°18'57.149"E
13°17'51.613"N	80°19'6.267"E
13°17'29.520"N	80°19'17.462"E
13°17'25.876"N	80°19'17.624"E
13°17'0.406"N	80°19'11.241"E
	13°17'53.829"N 13°17'51.613"N 13°17'29.520"N 13°17'25.876"N

MEMBER ŠE

amples



Page 13 of 26

#### Letter No. SEIAA-TN/F. 6957/EC/ 8(b)/683/2019 dated: 11.12.2019

SEIAA-TN

F	13°16'45.849"N	80°19'2.924"E
G	13°16'11.552"N	80°18'54.004"E
H	13°16'10.676"N	80°18'48.620"E
I	13°16'15.943"N	80°18'48.161"E
J	13°16'16.212"N	80°18'46.548"E
K	13°16'39.554"N	80°18'52.076"E
L	13°16'44.580"N	80°18'50.337"E
M	13°16'56.035"N	80°18'44.163"E
N	13°17'3.801"N	80°18'42.680"E
0	13°17'5.139"N	80°18'43.162"E
P	13°17'2.214"N	80°18'53.224"E
Q	13°16'59.337"N	80°18'57.518"E
R	13°16'59.532"N	80°19'3.514"E
S	13°17'18.118"N	80°19'8.899"E
Т	13°17'26.234"N	80°19'9.191"E
U	13°17'29.254"'N	80°19'8.933"E
V	13°17'30.657"N	80°19'6.172"E
W	13°17'33.153"N	80°19'8.035"E

47. The Environmental Clearance issued only for the revised proposal submitted by the proponent for the project site fall non CRZ area as per CRZ ( Ref.No AU/IRS/CU/229-2019 Dt.9.12.2019) map issued by IRS, Anna University.

#### Part - B - Specific Conditions - Pre construction phase:

- 1. The project authorities should advertise with basic details 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 clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
- In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
- A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.
- 4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquate adequates of fire fighting equipments, etc as per

MEMBER SEC

SEIAA-TN

Tainth



Page 14 of 26

National Building Code including protection measures from lightning etc before commencement of the work.

- All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
- 6. Design of buildings should be in conformity with the Seismic Zone Classifications.
- 7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
- 8. No construction activity of any kind shall be taken up in the OSR area.
- Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
- 10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
- 11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
- 12. The project proponent shall ensure the level of basement shall be above maximum flood level.
- 13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
  - i. Location of STP, compost system, underground sewer line.
  - ii. Pipe Line conveying the treated effluent for green belt development.
  - iii. Pipe Line conveying the treated effluent for toilet flushing
  - iv. Water supply pipeline
  - v. Gas supply pipe line, if proposed
  - vi. Telephone cable
  - vii. Power cable
  - viii. Strom water drains, and



MEMBER SEGRETARY SEIAA-TN

Page 15 of 26

- ix. Rain water harvesting system, etc.,. and it shall be made available to the owners
- 14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
- 15. The present land use surrounding the project site shall not be disturbed at any point of time.
- 16. The green belt area shall be planted with indigenous native trees.
- 17. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
- 18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
- The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972
   & Bio diversity Act 2002 should not be violated.
- 20. There should be Fire fighting plan and all required safety plan.
- 21. Regular fire drills should be held to create awareness among owners/ residents.

#### Part - C - Specific Conditions - Construction phase:

#### 1. Construction Schedule:

 i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.

#### 2. Labour Welfare:

- All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
- ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to



MEMBER SECRETARY

Page 16 of 26

observe any contradictions due to exposure to dust and take corrective measures, if needed.

- iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
- 3. Water Supply:
  - The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
  - ii) Provision shall be made for the housing labour within the site with all necessary infrastructures 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.
  - iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.
  - iv) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.
  - v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control.

#### 4. Solid Waste Management:

 In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be cocomposted with biodegradables.



MEMBER SECRETARY

Page 17 of 26

- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.
- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.
- 5. Top Soil Management:
  - i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
- 6. Construction Debris disposal:
  - Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.
  - Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/ lake/ stream etc.

### 7. Diesel Generator sets:

 i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986 and the Rules framed thereon.



MEMBER SEGRETARY

Page 18 of 26

- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.
- 8. Air & Noise Pollution Control:
  - Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
  - ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.
  - iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
  - iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.
- 9. Building material:
  - i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.
  - Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.



MEMBER SECRETARY SEIAA-TN

Page 19 of 26

iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

#### 10. Storm Water Drainage:

- Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.
- ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.

#### 11. Energy Conservation Measures:

- Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology;
   R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

11 DEC 2019

MEMBER SECRETARY

Page 20 of 26

- Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.

#### 13. Green Belt Development:

- The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.
- ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, Viluppuram District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e planting different types of trees at very close escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval

#### 14. Sewage Treatment Plant:



MEMBER SECRETARY SEIAA-TN

Page 21 of 26

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.
- iii) The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.
- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.
- vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.
- 15. Rain Water Harvesting:
  - i) The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
  - Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.
  - iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.

### 16. Building Safety:

Lightning arrester shall be properly designed and installed at top of the building and where building and wh

MEMBER SEC

ØRETARY SEIAA-TN



Page 22 of 26

### <u>Part – D - Specific Conditions – Operational Phase/Post constructional</u> <u>phase/Entire life of the project:</u>

- 1. There should be Fire fighting plan and all required safety plan.
- 2. Regular fire drills should be held to create awareness among owners/ residents.
- House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- 4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
- 5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
- 6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- 7. Solar energy saving shall be increased to atleast10% of total energy utilization.
- The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- 9. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of sixmonthly report.



MEMBER SECRETARY Samo SEIAA-TN

Page 23 of 26

- 10. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
- 11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
- 12. The project activities should in no way disturb the manmade structures.
- 13. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
- 14. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
- 15. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
- 16. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
- 17. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
- 18. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.

MEMBER SEC

SEIAA-TN



Page 24 of 26

- 19. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
- 20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
- The E waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
- 22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
- 23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
- 24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
- 25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
- 26. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
- 27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.



MEMBER SECF

Page 25 of 26

22

29. 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.

#### Copy to:

MEMBER SE SEIAA-TN ANDA

- The Principal Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
- The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
- The Member Secretary, Tamil Nadu Pollution Control Board,
   76, Mount Salai, Guindy, Chennai-600 032.
- The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ),
   HEPC Building, 1<sup>st</sup>& 2<sup>nd</sup> Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
- Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
- 6. The District Collector, Tiruvallur District
- 7. Stock File.





#### ANNEXURE - II

### TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

#### CONSENT ORDER NO. 2101232436303 DATED: 22/03/2021.

PROCEEDINGS NO.T2/TNPCB/F.0929GMP/RL/GMP/A/2021 DATED: 22/03/2021

SUB: TNPC Board-Consent for Establishment-M/s. TAMILNADU POLYMER INDUSTRIES PARK LIMITED, S.F. No. SF.No.143(part) and 187(part) of Puzhuthivakkam Village, and 2053B (part) of Voyalur Village, PUZHUTHIVAKKAM village, Ponneri Taluk and Tiruvallur District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

**REF:** 1. Unit's application for CTE – New on 24.06.2020/ 02.02.2021

2. IR.No : F.0929GMP/RL/AE (M)/GMP/2020 dated 22/12/2020

3. Minutes of TSC Resolution No. 185-05 Dated 20.01.2021

4. Minutes of TSC Resolution No. 186 – 02 Dated 10.03.2021

Consent to establish or take steps to establish is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 and the Rules and Orders made there under to

The Managing Director,

M/s. TAMILNADU POLYMER INDUSTRIES PARK LIMITED

S.F No.SF.No.143(part) and 187(part) of Puzhuthivakkam Village, and 2053B (part) of Voyalur Village,

PUZHUTHIVAKKAM Village,

Ponneri Taluk,

Tiruvallur District.

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No. SF.No.143(part) and 187(part) of Puzhuthivakkam Village, and 2053B (part) of Voyalur Village,

PUZHUTHIVAKKAM Village,

M/s.TAMILNADU POLYMER INDUSTRIES PARK LIMITED,

Ponneri Taluk,

Tiruvallur District.

To

The Managing Director,

Egmore, Chennai, Pin: 600008

Tamilnadu Polymer Industries Park Limited III Floor, 19-A, Rukmini Lakshmipathy Road

This Consent to establish is valid upto March 31, 2025, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

1

S.	Ragupathi	Digitally signed by S. Ragupathi Date: 2021.03.23 13:54:27 +05'30'
----	-----------	---

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

> MILINADU POLLITTION CONTROL BEARD MILINADU POLLITTION CONTROL BOARD MILINADU POLLITTON CONTROL BOARD

#### Copy to:

1. The Commissioner, MEENJUR-Panchayat Union, Ponneri

Taluk, Tiruvallur District. 2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

- 3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
- 4. File

2

This consent to establish is valid for establishing the facility for the manufacture of products/ byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

SI. No.	Description	Quantity	Unit
CONTRIBUES	Product Details	AND POLLATION CONTROL BO	AND TAMILYARD POLLUTION CONT.
ទទាក់- (et1) ១.4 - «កៅមេ (et, 80.4) (et, 80.4) - ឧកាមែ (et, 80.4) - ឧកាមែ (et, 80.4) - ឧកាមែ (et, 80.4) - ឧកាមែ (et, 80.4)	It is an industrial park involving development of infrastructure such as roads, water supply, storm water drainage, street lights, green belt etc., to house industries including engineering, manufacturing/production specifically for polymer components and any other industries that are not fall under EIA Notification 2006 and amendments thereof.	97.05	Hectares

2. This consent to establish is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I SOARD	Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr	
I	Fugitive/Noise emission :	பிப்பாக கிழிப்பாத விள்ள இருப்பித்துக் அளவு இ	in the second	BOARD TAMILIANDE PUBLICATION OF MINUS SUPERSYSTEMS - SAVING	
SI. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	norigina superior normality of the second seco	

#### 3. Special Additional Conditions:

The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

#### 4. Additional Conditions:

1.

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.6957/EC/8(b)/683/2019 Dated 11.12.2019.

2. The unit shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month's time.

3. The unit shall comply with the E- waste Management Rules, 2016. E-waste as listed in Schedule – I generated by them shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generated by them in Form – 2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form -3, to the TNPCB on or before the 30th day of June following the financial year. 4. The unit shall develop adequate greenbelt (33% of its total area) in and around the unit premises. 5. The unit shall remit consent fee in case of revision by the Government.

3

S. Ragupathi Digitally signed by S. Ragupathi Date: 2021.03.23 13:55:07 +05'30'

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai



#### **GENERAL CONDITIONS**

- 1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
- 2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
- 3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
- 4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
- 5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
- 6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
- 7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
- 8. The unit shall develop green belt of adequate width around the premises.
- 9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

### S. Ragupathi Digitally signed by S. Ragupathi Date: 2021.03.23 13:55:38 +05'30'

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

 ADA
 Statistical Status
 Statistical Status

 ADA
 Status
 Status

 ADA
 Status</td

A

The surface of the second surface

μαλύμετα μοτο ποιζουστό που
 μαλύμετα μοτο ποιζουστό που
 μαλύμετα μοτο ποιζουστό που
 πολύμετα μοτο ποιζουστό που
 πολύμετα ποι ποιζουστό ποι
 πολύμετα ποι ποιχουστό ποι
 πολύμετα ποι ποιχουστο ποι
 πολύμετα ποι ποιχουστ



#### Category of the Industry :

CONSENT ORDER NO. 2101132436303

DATED: 22/03/2021.

#### PROCEEDINGS NO.T2/TNPCB/F.0929GMP/RL//GMP/W/2021 DATED: 22/03/2021



RED

SUB: TNPC Board-Consent for Establishment-M/S TAMILNADU POLYMER INDUSTRIES PARK LIMITED S.F No. SF.No.143(part) and 187(part) of Puzhuthivakkam Village, and 2053B (part) of Voyalur Village, PUZHUTHIVAKKAM Village, Ponneri Taluk, Tiruvallur District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

**REF:** 1. Unit's application for CTE – New on 24.06.2020/ 02.02.2021

- 2. IR.No : F.0929GMP/RL/AE (M)/GMP/2020 dated 22/12/2020
- 3. Minutes of TSC Resolution No. 185-05 Dated 20.01.2021

4. Minutes of TSC Resolution No. 186 - 02 Dated 10.03.2021

Consent to establish or take steps to establish is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 6 of 1974) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Managing Director,

#### TAMILNADU POLYMER INDUSTRIES PARK LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.SF.No.143(part) and 187(part) of Puzhuthivakkam Village, and 2053B (part) of Voyalur Village,

PUZHUTHIVAKKAM Village,

Ponneri Taluk,

Tiruvallur District.

This Consent to establish is valid upto March 31, 2025, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

### S. Ragupathi Digitally signed by S. Ragupathi Date: 2021.03.23 13:51:34 +05'30'

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

The Managing Director,

M/s.TAMILNADU POLYMER INDUSTRIES PARK LIMITED, Tamilnadu Polymer Industries Park Limited III Floor, 19-A, Rukmini Lakshmipathy Road Egmore, Chennai, Pin: 600008

#### Copy to:

To

- 1. The Commissioner, MEENJUR-Panchayat Union, Ponneri Taluk, Tiruvallur District .
- 2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
- 3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
- 4. File



### TAMILNADUSBEELLE CONGENTERSL BOARD

1.

4.

This consent to establish is valid for establishing the facility for the manufacture of products/ byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

SI. No.	Description	Quantity	Unit
omiusi N RNST	Product Details	ម្លាស់ថ្ងៃទក្ស ចារទេ ទាប់ត្រីបំណាតិវ សម្តាស់ស្តែម ទស់ដល់ស្តែង សំពាស់ស្តាល	ing Southers and Souther
	It is an industrial park involving development of infrastructure such as roads, water supply, storm water drainage, street lights, green belt etc., to house industries including engineering, manufacturing/production specifically for polymer components and any other industries that are not fall under EIA Notification 2006 and amendments thereof.	97.05	Hectares

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	Sewage Treatment Plant:	HITRI UMA ADMINIS BIOGRATS	CONTRACTOR CONTROL DOWNER CONTRACTOR
Sumburo youtu DL BORAD TAMI	Treatment sta	tus: Septic Tank and S	P/DT
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
anniada 1.0) 01.60480 1.6	Septic Tank	1.000 1000 1000 1000	4.2 x 2.3 x 1.9
2.	Soak Pit		1 m dia x 2.5 m Ht
Tariffado gula DI BOARD TAMU	Treatmen	t status: Individual ST	Р солов сонглад волго селодого соло на
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
ountilus 1.00 oc opano 1.00 currituis cuti	Member industries will install their own STP	0	
b	Effluent Treatment Plant:	y cardianty Range	าก การเกิดเรื่อง การเกิดจาก เป็นสายคราม การเกิดจาก การเกิดจาก การเกิดจาก การเกิดจาก การเกิดจาก การเกิดจาก การเก
anging anging ang Anging ang ang	Treatmen	t status: Individual ET	P allound and a subscript on a
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
OLBOARD TAM	Member Industries will install their own ETP	0 оп сладони с Собрати сладони сладони Собрати сладони	

3. This consent to establish is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet N	No.	Description of Ou	tlet	Maximum da in KLD	ily discharge	Point of d	isposal
Effluent Type : Sewage							
IOL SOARD TA	AMIL HAI	Sewage	TAMENABU PO	0.57	TAMILNARU POLLUTION	On Indus	strys own land
Effluent	t Tyj	pe : Trade Effluent	TAMILNADB POI	LIUTION CONTROL BOARD	TAMILIABU POLLOTION	CONTROL BOARD	TAMENADU POLLUTION CONTEDI
Addition	nal C	Conditions:	TAMILABU POL SUBIOTIS DI TAMILABU POL	LUTION CONTROL BOARD & SLIPCLAR SAMPLIC LOTION CONTROL BOARD	TAMILALON POLLETION SUDIGENCE OFFICIATION TAMILALON POLLETION	CONTROL BRARD	TAMÍLÍADE POLLETION CONTROL SUÍLÓMING COM ALIGÍONIÓN CO TAMÍLIADE POLLETION CONTROL
TROL BOARD TA	AMILHAI Bulliogn	TU POLLUTION CONTROL BOARD	TAMILNABU PO	Aution control, soare	TAMILKADU POLLUTION SIDOUSING LORA COL	CONTROL BOARD	TAMILANDE POLLUTION CONTROL SUDIOGNOS LOTE RECOLLINOS &

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.6957/EC/8(b)/683/2019 Dated 11.12.2019. 2. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.

3. The unit shall not carry out any establishment activity in the CRZ area adjacent to the site.

4. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.

5. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.

6. The stability of the entire building/ STP does not falls under the purview of the TNPC Board.

7. The unit shall obtain planning permission and building plan approval from the competent authority and furnish the same to the Board.

8. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time. 9. The unit shall allot 5% (4.85 Hectare) of the total area (97.05 Hectare) for Solid Waste Management as reported in the unit's letter dated 02.02.2021.

10. The unit has to ensure that all the member Industries within the industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.

11. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.

12. The unit shall develop adequate green belt by planting native trees of 30m width adjacent to CRZ area.

13. The unit shall install septic tank and soak pit arrangements for the disposal of sewage generated from the unit.

14. The unit shall ensure that there is no trade effluent generated from its activity.

15. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules, 2016.

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

A

17. The unit shall provide rain water harvesting facility in the premises.

18. The unit shall remit consent fee in case of revision by the Government.

S. Ragupathi Digitally signed by S. Ragupathi Date: 2021.03.23 13:52:25 +05'30'

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

### TAMILNADUGENERALION CONTROL BOARD

- 1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
- 2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
- 3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
- 4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
- 5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
- 6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
- 7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
- 8. The unit shall develop green belt of adequate width around the premises.
- 9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.



S. Ragupathi Digitally signed by S. Ragupathi Date: 2021.03.23 13:53:08 +05'30' For Member Secretary, Tamil Nadu Pollution Control Board,

Chennai

AN LAND POLLUTION CONTROL BOARD ALIGNERIC SCIENCING ANTIMATION ALIGNERIC SCIENCES ANTIMATION ALIGNERIC SCIENCING ANTIGUES ANTIMATION ALIGNERIC SCIENCING ANTIGUES ANTIMATION ALIGNERIC SCIENCING ANTIGUES ANTIGUES ANTIGUES ALIGNERIC SCIENCING ANTIGUES ANT

SATERS: LINE ALEGATINE STATUTE MALEACE FULLINES CONTACT STATUTE MALEACE FULLY ON CONTACT STATUTE MALEACE

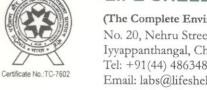


**ANNEXURE - III** 



NABL Accredited, ISO 9001 : 2015. OSHAS 18001 : 2007 Certified Company





## LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

### TEST REPORT

Sample ID: 2208078	JOE: 1490		Report Date: 16.08.2022
Customer Name	M/s. Tamil Nadu Polymer Indust	ries Park Limited (TPIPL)	
Address	143 & 187 Of Puzhudivakkam Villa Thiruvallur District, Tamil Nadu.	lage, 2053 B Part Of Voyalur Village	, Ponneri Taluk,
Date of Sampling	06.08.2022	Sampled by	LSL
Sample Received on	07.08.2022	Sample Description	Soil
Test Commenced on	07.08.2022	Sampling Procedure	LSL/CHE/SOP/074
Test Completed on	13.08.2022	Sample Condition	Satisfactory
Sampling-Location	Athipattu Pudhu Nagar	Sample Quantity	2 Kgs

DISCIPLI	NE	CHEMICAL TESTING	-			
PRODUCT GROUP		POLLUTION & ENVIRONMENT				
S. No. PARAMETERS		UNIT	TEST METHOD	RESULTS		
1	Soil Texture	2	ASTM D421/422	Sandy Clay		
2	рН @ 25°C		IS 2720 Part -26	8.91		
3	Bulk Density	gm/cc	ASTM D6683-14	1.23		
4	Cation Exchange Capacity	meq/100g	IS 2720 Part -24	6.42		
5	Water Holding Capacity	%	IS 14765	16.9		
6	Total Organic Carbon	%	IS 2720 Part -22	0.97		
7	Organic Matter	%	IS 2720 Part -22	1.81		
8	Nitrogen	%	IS 14684	0.032		
9	Total Phosphorus as P	%	IS 10158	BDL(DL:1.0)		
10	Soluble Potassium as K	meq/100g	FAO 2007	1.03		

Note: BDL: Below Detection Limit, DL: Detection Limit.

Verified by

Deputy Manager

BSIN CHENNA 600 07 End of Report\*\*\*\*\*

For Life Shell Labs India Pvt. Ltd, Authorized signatory ANATHAN

Deputy Technical Manager

#### Page 1 of 1

Note:1) The results listed herewith are only for the items tested. 2) Endorsement of test item is neither inferred nor implied. 3) The report in full or part shall not be used for any memotional activity or publicity purpose without written consent by us. 4) Samples are not drawn by us unless otherwise mentioned. 5) Unless specifically requested by the customer, the test items will not be retained more than 7 days from the date of issue of the test report. 6) Under no circumstances, lab accepts any liability for loss/damage caused by use or misuse of test report. 7) Liability is limited to proven willful negligence and will in no case be more than the invoiced amount.



NABL Accredited, ISO 9001 : 2015, OSHAS 18001 : 2007 Certified Company





### LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai - 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT ·

Sample ID: 2208064	JOE: 1490	Report Date: 16.08.2022			
Customer Name	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)				
Address	143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.				
Starting Date & Time	06.08.2022 (08.00 AM)	Closing Date & Time	07.08.2022 (8.00 AM)		
Sample Received on	07.08.2022	Sampled by	LSL		
Test Commenced on	07.08.2022 +	Sample Description	Ambient Air Quality (AAQ)-1		
Test Completed on	13.08.2022	Sampling duration	24 hrs		
Sampling Location	South Corner of the project site	Ambient Temp during sampling	32°C (Avg.)		
Sampling Procedure	Prescribed as per Test Method	RH during sampling	63% (Avg.)		

DISCIP	DISCIPLINE		CHEMICAL TESTING					
PRODUCT GROUP		ATMOSPHERIC POLLUTION						
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	*NAAQ STAND	ARDS:2009		
1	Particulate Matter in (PM <sub>10</sub> )	µg/m³	IS 5182 (Part 23)	56.9	100 (24 Hours)	60 (Annual)		
2	Particulate Matter in (PM <sub>2.5</sub> )	µg/m³	EPA-Appendix-L (Part-50)	24.1	60 (24 Hours)	40 (Annual)		
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)	7.75	80 (24 Hours)	50 (Annual)		
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6)	15.4	80 (24 Hours)	40 (Annual)		
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS 5182 (Part 9)	7.60	180 (1 Hours)	100 (8Hour		
6	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	CPCB Manual-2013	17.1	400 (24 Hours)	100 (Annua		
7	Carbon Monoxide as CO (1hr)	mg/m <sup>3</sup>	IS 5182 (Part 10)	BDL (DL: 1.15)	4 (1 Hours)	2 (1 Hours		
8	Lead as Pb	µg/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 0.5)	1 (24 Hours)	0.5 (Annua		
9	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	IS 5182 (Part 11)	BDL (DL: 1.0)	5 (Annual)	5 (Annual)		
10	Arsenic as As	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	6 (Annual)	6 (Annual		
11	Nickel as Ni	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	20 (Annual)	20 (Annual		
12	Benzo(a)Pyrene in C <sub>20</sub> H <sub>12</sub>	ng/m <sup>3</sup>	IS 5182 (Part 12)	BDL (DL: 1.0)	1 (Annual)	1 (Annual)		
Note: B	:: BDL: Below Detectable Limit; DL: Detectable Limit, μg/m <sup>3</sup> -Micrograms per cubic meter,ng/m <sup>3</sup> - Nanograms per cubic meter,S.No: 7-12 are nonaccredited							

\*NAAQ: National Ambient Air Quality.

Veri

ed b Manager Deputy

.

S IA HENNA 600 \*\*\*\*\*\*End of Report\*\*\*\*\* -20

For Life Shell Labs India Pvt. Ltd. **Authorized Signator** Deputy Techni

#### Page 1 of 1

Note:1) The results listed herewith are only for the items tested. 2) Endorsement of test item is neither inferred nor implied. 3) The report in full or part shall not be used for any promotional activity or publicity purpose without written consent by us. 4) Samples are not drawn by us unless otherwise mentioned. 5) Unless specifically requested by the customer, the test items will not be retained more than 7 days from the date of issue of the test report. 6) Under no circumstances, lab accepts any liability for loss/damage caused by use or misuse of test report. 7) Liability is limited to proven willful negligence and will in no case be more than the invoiced amount.



NABL Accredited, ISO 9001 : 2015, OSHAS 18001 : 2007 Certified Company

-





### LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT

	Sample ID: 2208065	JOE: 1490	Report Date: 16.08.2022				
*	Customer Name	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)					
	Address	143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.					
	Starting Date & Time	06.08.2022 (08.15 AM)	Closing Date & Time	07.08.2022 (8.15 AM)			
	Sample Received on	07.08.2022	Sampled by	LSL			
	Test Commenced on	07.08.2022	Sample Description	Ambient Air Quality (AAQ)-2			
	Test Completed on	13.08.2022	Sampling duration	24 hrs			
2	Sampling Location	North Corner of the project site	Ambient Temp during sampling	32°C (Avg.)			
	Sampling Procedure	Prescribed as per Test Method	RH during sampling	61% (Avg.)			

C	DISCIPLINE PRODUCT GROUP		CHEMICAL TESTING						
F			ATMOSPHERIC POLLUTION						
	S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	*NAAQ STANDARDS:2009			
	1	Particulate Matter in (PM <sub>10</sub> )	µg/m³	IS 5182 (Part 23)	52.4	100 (24 Hours)	60 (Annual		
	2	Particulate Matter in (PM <sub>2.5</sub> )	µg/m³	EPA-Appendix-L (Part-50)	21.5	60 (24 Hours)	40 (Annual		
	3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)	6.40	80 (24 Hours)	50 (Annual		
	4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m³	IS 5182 (Part 6)	13.1	80 (24 Hours)	40 (Annual		
	5	Ozone as O <sub>3</sub>	µg/m³	IS 5182 (Part 9)	7.25	180 (1 Hours)	100 (8Hour		
	6	Ammonia as NH <sub>3</sub>	µg/m³	CPCB Manual-2013	15.8	400 (24 Hours)	100 (Annua		
	7	Carbon Monoxide as CO (1hr)	mg/m <sup>3</sup>	IS 5182 (Part 10)	BDL (DL: 1.15)	4 (1 Hours)	2 (1 Hours		
	8	Lead as Pb	µg/m³	IS 5182 (Part 22)	BDL (DL: 0.5)	1 (24 Hours)	0.5 (Annua		
	9	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	🕶 IS 5182 (Part 11)	BDL (DL: 1.0)	5 (Annual)	5 (Annual		
	10	Arsenic as As	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	6 (Annual)	6 (Annual		
	11	Nickel as Ni	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	20 (Annual)	20 (Annual		
	12	Benzo(a)Pyrene in C <sub>20</sub> H <sub>12</sub>	ng/m <sup>3</sup>	IS 5182 (Part 12)	BDL (DL: 1.0)	1 (Annual)	1 (Annual)		

\*NAAQ: National Ambient Air Quality.

ed Manager Der

\*\*\*\*\*\*End of Report\*\*\*\*\*\*

NNA

For Life Shell Labs India Pvt. Ltd. **Authorized Signator** LAN Deputy Technical

Page 1 of 1

Note:1) The results listed herewith are only for the items tested. 2) Endorsement of test item is neither inferred nor implied. 3) The report in full or part shall not be used for any promotional activity or publicity purpose without written consent by us. 4) Samples are not drawn by us unless otherwise mentioned. 5) Unless specifically requested by the customer, the test items will not be retained more than 7 days from the date of issue of the test report. 6) Under no circumstances, lab accepts any liability for loss/damage caused by use or misuse of test report. 7) Liability is limited to proven willful negligence and will in no case be more than the invoiced amount.



NABL Accredited, ISO 9001 : 2015. OSHAS 18001 : 2007 Certified Company





### LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT

Sample ID: 2208066	JOE: 1490	Report Date: 16.08.2022			
Customer Name	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)				
Address	143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.				
Starting Date & Time	06.08.2022 (09.00 AM)	Closing Date & Time	07.08.2022 (09.00 AM)		
Sample Received on	07.08.2022	Sampled by	LSL		
Test Commenced on	07.08.2022	Sample Description	Ambient Air Quality (AAQ)-3		
Test Completed on	13.08.2022	Sampling duration	24 hrs		
Sampling Location	Near Kattupalli Village (UP Wind)	Ambient Temp during sampling	33°C (Avg.)		
Sampling Procedure	Prescribed as per Test Method	RH during sampling	59% (Avg.)		
	Customer Name Address Starting Date & Time Sample Received on Test Commenced on Test Completed on Sampling Location	Customer NameM/s. Tamil Nadu Polymer IndustrieAddress143 & 187 Of Puzhudivakkam Villag Thiruvallur District, Tamil Nadu.Starting Date & Time06.08.2022 (09.00 AM)Sample Received on07.08.2022Test Commenced on07.08.2022Test Completed on13.08.2022Sampling LocationNear Kattupalli Village (UP Wind)	Customer NameM/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)Address143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Part Dirivallur District, Tamil Nadu.Starting Date & Time06.08.2022 (09.00 AM)Closing Date & TimeSample Received on07.08.2022Sampled byTest Commenced on07.08.2022Sample DescriptionTest Completed on13.08.2022Sampling durationSampling LocationNear Kattupalli Village (UP Wind)Ambient Temp during sampling		

D	ISCIPI	SCIPLINE		CHEMICAL TESTING					
P	RODU	ICT GROUP	ATMOSPHERIC POLLUTION						
	S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	*NAAQ STANE	OARDS:2009		
	1	Particulate Matter in (PM <sub>10</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 23)	53.8	100 (24 Hours)	60 (Annual)		
	2	Particulate Matter in (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	EPA-Appendix-L (Part-50)	19.7	60 (24 Hours)	40 (Annual)		
	3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	* IS 5182 (Part 2)	6.95	80 (24 Hours)	50 (Annual)		
	4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6)	14.9	80 (24 Hours)	40 (Annual)		
	5	Ozone as O <sub>3</sub>	µg/m³	IS 5182 (Part 9)	7.85	180 (1 Hours)	100 (8Hours		
	6	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	CPCB Manual-2013	17.6	400 (24 Hours)	100 (Annua		
	7	Carbon Monoxide as CO (1hr)	mg/m <sup>3</sup>	IS 5182 (Part 10)	BDL (DL: 1.15)	4 (1 Hours)	2 (1 Hours		
	8	Lead as Pb	µg/m³	IS 5182 (Part 22)	BDL (DL: 0.5)	1 (24 Hours)	0.5 (Annua		
	9	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	IS 5182 (Part 11)	BDL (DL: 1.0)	5 (Annual)	5 (Annual)		
	10	Arsenic as As	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	6 (Annual)	6 (Annual)		
	11	Nickel as Ni	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	20 (Annual)	20 (Annual)		
	12	Benzo(a)Pyrene in C <sub>20</sub> H <sub>12</sub>	ng/m <sup>3</sup>	IS 5182 (Part 12)	BDL (DL: 1.0)	1 (Annual)	1 (Annual)		
	Note: B	DL: Below Detectable Limit; DL: Detectab	le Limit, μg/m	<sup>3</sup> -Micrograms per cubic meter,ng/m	<sup>3</sup> - Nanograms per cubi	c meter,S.No: 7-12 are	nonaccredited.		

\*NAAQ: National Ambient Air Quality.

Verified by

eputy Quality Manage

For Life Shell Labs India Pvt. Ltd. Authorized Signatory Deputy

\*\*\*\*\*\*End of Report\*\*\*\*\*

Page 1 of 1

Note:1) The results listed herewith are only for the items tested. 2) Endorsement of test item is neither inferred nor implied. 3) The report in full or part shall not be used for any promotional activity or publicity purpose without written consent by us. 4) Samples are not drawn by us unless otherwise mentioned. 5) Unless specifically requested by the customer, the test items will not be retained more than 7 days from the date of issue of the test report. 6) Under no circumstances, lab accepts any liability for loss/damage caused by use or misuse of test report. 7) Liability is limited to proven willful negligence and will in no case be more than the invoiced amount.







LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

### TEST REPORT

Sample ID: 2208067	JOE: 1490		Report Date: 16.08.2022						
Customer Name	M/s. Tamil Nadu Polymer Industries	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)							
Address	143 & 187 Of Puzhudivakkam Village, Thiruvallur District, Tamil Nadu.	2053 B Part Of Voyalur Village, Por	nneri Taluk,						
Starting Date & Time	06.08.2022 (09.15 AM)	Closing Date & Time	07.08.2022 (09.15 AM)						
Sample Received on	07.08.2022	Sampled by	LSL						
Test Commenced on	07.08.2022	Sample Description	Ambient Air Quality (AAQ)-4						
Test Completed on	13.08.2022	Sampling duration	24 hrs						
Sampling Location	Near Kamarajar Port (Cross Wind)	Ambient Temp during sampling	32°C (Avg.)						
Sampling Procedure	Prescribed as per Test Method	RH during sampling	62% (Avg.)						
	Customer Name Address Starting Date & Time Sample Received on Test Commenced on Test Completed on Sampling Location	Customer NameM/s. Tamil Nadu Polymer IndustriesAddress143 & 187 Of Puzhudivakkam Village, Thiruvallur District, Tamil Nadu.Starting Date & Time06.08.2022 (09.15 AM)Sample Received on07.08.2022Test Commenced on07.08.2022Test Completed on13.08.2022Sampling LocationNear Kamarajar Port (Cross Wind)	Customer NameM/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)Address143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Por Thiruvallur District, Tamil Nadu.Starting Date & Time06.08.2022 (09.15 AM)Closing Date & TimeSample Received on07.08.2022Sampled byTest Commenced on07.08.2022Sample DescriptionTest Completed on13.08.2022Sampling durationSampling LocationNear Kamarajar Port (Cross Wind)Ambient Temp during sampling						

	DISCIPLINE		CHEMICAL TESTING								
	PRODU	JCT GROUP	ATMOSPHERIC POLLUTION								
	S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	*NAAQ STANDARDS:2009					
۴	1	Particulate Matter in (PM <sub>10</sub> )	µg/m³	IS 5182 (Part 23)	61.7	100 (24 Hours)	60 (Annual)				
	2	Particulate Matter in (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	EPA-Appendix-L (Part-50)	27.1	60 (24 Hours)	40 (Annual)				
	3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)	7.80	80 (24 Hours)	50 (Annual)				
	4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m³	IS 5182 (Part 6)	15.9	80 (24 Hours)	40 (Annual)				
	5	Ozone as O <sub>3</sub>	µg/m³	IS 5182 (Part 9)	8.05	180 (1 Hours)	100 (8Hour				
	6	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	CPCB Manual-2013	19.9	400 (24 Hours)	100 (Annua				
	7	Carbon Monoxide as CO (1hr)	mg/m <sup>3</sup>	IS 5182 (Part 10)	BDL (DL: 1.15)	4 (1 Hours)	2 (1 Hours				
	8	Lead as Pb	µg/m <sup>3</sup>	* IS 5182 (Part 22)	BDL (DL: 0.5)	1 (24 Hours)	0.5 (Annua				
	9	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m³	IS 5182 (Part 11)	BDL (DL: 1.0)	5 (Annual)	5 (Annual)				
	10	Arsenic as As	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	6 (Annual)	6 (Annual)				
	11	Nickel as Ni	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	20 (Annual)	20 (Annual)				
	12	Benzo(a)Pyrene in C <sub>20</sub> H <sub>12</sub>	ng/m <sup>3</sup>	IS 5182 (Part 12)	BDL (DL: 1.0)	1 (Annual)	1 (Annual)				
	Note: B	BDL: Below Detectable Limit; DL: Detectab	ole Limit, μg/m	<sup>3</sup> -Micrograms per cubic meter,ng/m	<sup>3</sup> - Nanograms per cub	ic meter,S.No: 7-12 ar	e nonaccredi				

\*NAAQ: National Ambient Air Quality.

Verified by Manager De

IND 85 End of Report\*\*\*\*\* \*\*\* 7

For Life Shell Labs, India Pvt. Ltd. a **Authorized Signatory** Deputy

Page 1 of 1







## LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT ·

9	Sample ID: 2208068	JOE: 1490		Report Date: 16.08.2022					
	Customer Name	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)							
	Address	143 & 187 Of Puzhudivakkam Villa Thiruvallur District, Tamil Nadu.	ige, 2053 B Part Of Voyalur Village, P	onneri Taluk,					
	Starting Date & Time	06.08.2022 (09.30 AM)	Closing Date & Time	07.08.2022 (09.30 AM)					
	Sample Received on	07.08.2022	Sampled by	LSL					
	Test Commenced on	07.08.2022	Sample Description	Ambient Air Quality (AAQ)-5					
	Test Completed on	13.08.2022	Sampling duration	24 hrs					
	Sampling Location	Near Athipattu Pudhu Nagar (Down Wind)	Ambient Temp during sampling	33°C (Avg.)					
	Sampling Procedure	Prescribed as per Test Method	RH during sampling	60% (Avg.)					
		L							

DISCIPI	LINE	CHEMICA	CHEMICAL TESTING								
PRODU	UCT GROUP	ATMOSP	ATMOSPHERIC POLLUTION								
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	*NAAQ STAND	)ARDS:200					
1	Particulate Matter in (PM <sub>10</sub> )	µg/m <sup>3</sup>		64.7	100 (24 Hours)	60 (Annu					
2	Particulate Matter in (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	EPA-Appendix-L (Part-50)	31.9	60 (24 Hours)	40 (Annu					
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)	8.80	80 (24 Hours)	50 (Annu					
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6)	19.4	80 (24 Hours)	40 (Annı					
5	Ozone as O <sub>3</sub>	µg/m³	IS 5182 (Part 9)	7.55	180 (1 Hours)	100 (8H					
6	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	CPCB Manual-2013	15.6	400 (24 Hours)	100 (Anr					
7	Carbon Monoxide as CO (1hr)	mg/m <sup>3</sup>	IS 5182 (Part 10)	BDL (DL: 1.15)	4 (1 Hours)	2 (1 Ho					
8	Lead as Pb	µg/m³	IS 5182 (Part 22)	BDL (DL: 0.5)	1 (24 Hours)	0.5 (Ani					
9	Benzene as C <sub>6</sub> H <sub>6</sub>	μg/m <sup>3</sup>	IS 5182 (Part 11)	BDL (DL: 1.0)	5 (Annual)	5 (Ann					
10	Arsenic as As	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	6 (Annual)	6 (Ann					
11	Nickel as Ni	ng/m <sup>3</sup>	IS 5182 (Part 22)	BDL (DL: 1.0)	20 (Annual)	20 (Ann					
12	Benzo(a)Pyrene in C <sub>20</sub> H <sub>12</sub>	ng/m <sup>3</sup>	IS 5182 (Part 12)	BDL (DL: 1.0)	1 (Annual)	1 (Ann					
*NAAQ	BDL: Below Detectable Limit; DL: Detectab 2: National Ambient Air Quality. ♪	ole Limit, μg/m			nic meter,S.No: 7-12 are						

Verified by

De lanager Quali



For Life Shell Labs India Pyt. Ltd. mil Authorized Signatory K. KAMALANATHAN Deputy

Page 1 of 1







(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

## **TEST REPORT**

*	Sample ID: 2208069	JOE: 1490		Report Date: 16.08.2022
	Customer Name	M/s. Tamil Nadu Polymer Industr	ies Park Limited (TPIPL)	
	Address	143 & 187 Of Puzhudivakkam Villa Thiruvallur District, Tamil Nadu.	ge, 2053 B Part Of Voyalur Village, F	Ponneri Taluk,
	Date of Sampling	06.08.2022	Sampled by	LSL
	Sample Received on	07.08.2022	Sample Description	Noise Monitoring
	Test Commenced on	07.08.2022	Sampling duration	24 hrs
+	Test Completed on	13.08.2022	Ambient Temp during sampling	32°C (Avg.)
	Sampling Location	Mentioned Below	RH during sampling	63% (Avg.)
	Sampling Procedure	IS 9989:1981		

Location Code	Sampling Location	LDay {dB(A)}	LNight {dB(A)}	Day Time	Night Time
N1	South corner of the Project Site	52.1	41.9		
N2	Near Kattupalli Village	50.7	40.5	6.00 am to 10.00 pm	10.00 pm to 6.00 am
N3	Near Athipattu Pudhu Nagar	54.3	44.6		

#### **Ambient Noise Standards-CPCB**

Category Of Area		LDay {dB(A)}	LNigth {dB(A)}
Industrial Area		75	70
Commercial Area		65	60
Residential Area	*	55	45
Silence Zone		50	40

Verified by

Dep Quali Manager

INC HENNA 600 07 End of Report

For Life Shell Labs India Pvt. Ltd,

Authorized Signatory MALANATI

## Page 1 of 1



-

NABL Accredited, ISO 9001 : 2015, OSHAS 18001 : 2007 Certified Company





(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

## TEST REPORT

Sample ID: 2208070	JOE: 1490		Report Date: 16.08.2022						
Customer Name	M/s. Tamil Nadu Polymer Industr	s. Tamil Nadu Polymer Industries Park Limited (TPIPL)							
Address	Thiruvallur District, Tamil Nadu.								
Date of Sampling	06.08.2022	Sampled by	LSL						
Sample Received on	07.08.2022	Sample Description	Surface Water						
Test Commenced on	07.08.2022	Sampling Procedure	LSL/SOP/CHE/071						
Test Completed on	13.08.2022	Sample Condition	Satisfactory						
Sampling Location	Buckingham Canal (UP Stream)	Sample Quantity	2 liters						

DISCIP	DISCIPLINE		CHEMICAL TESTING									
PRODUCT GROUP		WATER										
S. No	PARAMETERS	UNIT	JEST METHOD	RESULTS	Surface Water Quality Standards (as per IS: 2296).							
NU					А	В	С	D	E			
1	Taste	×	IS 3025-Part 5	Agreeable	None							
2	Odour		IS 3025-Part 5	Agreeable	Unobj							
3	Colour	Hazen	IS 3025-Part 4	10.0	10	300	300					
4	pH @ 25°C		IS 3025-Part 11	7.61	8.5	8.5	8.5	8.5	8.5			
5	Conductivity @ 25°C	uS/cm	IS 3025-Part 14	16800				1000	225			
6	Dissolved Oxygen	mg/l	IS 3025-Part 38	6.7	6	5	4	4				
7	BOD @27°C for 3 days	mg/l	IS 3025-Part 44	BDL(DL:2.0)	2	3	3					
8	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	10400	500		1500		210			
9	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	8.0								
10	Oil and Grease	mg/l	IS 3025-Part 39	BDL(DL:1.0)			0.1	0.1				
11	Mineral Oil	mg/l	IS 3025-Part 39	BDL(D1.0)	0.01							

BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by

Deputy Qual Manager



For Life Shell Labs India Pvt. Ltd. the ann

Authorized Signatory K. KAMALANATHAN Peputy Technical Manager

Page 1 of 1







# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

Samp	le ID: 2208070	JOE: 1490	TEST REPORT		Report	t Date:	16.08.2	022	
S.No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Surface Water Quality Standards (as per IS: 2296).				
					А	В	С	D	E
12	Total Hardness as CaCO₃	mg/l	IS 3025-Part 21	3262	300				
13	Chloride as Cl	mg/l	IS 3025-Part 32	3180	250		600		600
14	Sulfate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	900	400		400		1000
15	Nitrates as NO <sub>3</sub>	mg/l	IS 3025-Part 34	11.7	20		50		
16	Free CO <sub>2</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	4.0				6	
17	Free Ammonia as N	mg/l	IS 3025-Part 34	0.17				1.2	
18	Fluorides as F	mg/l	APHA-23 <sup>rd</sup> Edn	. 3.80	1.5	1.5	1.5		
19	Calcium as Ca	mg/l	IS 3025-Part 40	736	80.10				
20	Magnesium as Mg	mg/l	IS 3025-Part 46	341	24.28				
21	Copper	mg/l	<b>1</b> S 3025 Part 42	0.23	1.5		1.5		
22	Iron as Fe <sup>2+</sup>	mg/l	IS 3025-Part 53	0.42	0.3		50		
23	Manganese as Mn	mg/l	IS 3025-Part 59	BDL(DL:0.5)	0.5				
24	Boron as B	mg/l	IS 3025-Part 57	0.91					2
25	Lead as Pb	mg/l	IS 3025 Part 47	BDL(D0.1)	0.1		0.1		
26	Chromium Cr6+	mg/l	IS 3025-Part 52	BDL(DL:0.1)	0.05	0.05	0.05		
27	Percentage Sodium	%	IS 11624	48.6					60
28	Sodium absorption ratio	meq/l	IS 11624	8.7					26
29	Total Coliforms	MPN/100ml	IS 1622:1981	. 70	50	500	5000		

Note: Class A – Drinking water without conventional treatment but after disinfection. Class B –Water for outdoor bathing. Class C – Drinking water with conventional treatment followed by disinfection. Class D – Water for fish culture and wild life propagation. Class E – Water for irrigation, industrial cooling and controlled waste disposal. (Unobj = Unobjectionable) BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by Manager Deputy Qualit

INC

\*\*\*\*\*\*End of Report\*\*\*\*\*\*

For Life Shell Labs India Pvt. Ltd.

**Authorized Signator** 

Page 2 of 2







(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

## TEST REPORT

Sample ID: 2208071	JOE: 1490	DE: 1490					
Customer Name	M/s. Tamil Nadu Polymer Industries F	a. Tamil Nadu Polymer Industries Park Limited (TPIPL)					
Address	Thiruvallur District, Tamil Nadu.						
Date of Sampling	06.08.2022	Sampled by	LSL				
Sample Received on	07.08.2022	Sample Description	Surface Water				
Test Commenced on	07.08.2022	Sampling Procedure	LSL/SOP/CHE/071				
Test Completed on	13.08.2022	Sample Condition	Satisfactory				
Sampling Location	Buckingham Canal (Down Stream)	Sample Quantity	2 liters				

DISCIP			CHEMICAL TESTING WATER									
PRODI												
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Surface Water Quality Standards (as per IS: 2296).							
NO					А	В	С	D	E			
1	Taste	1	IS 3025-Part 5	Agreeable	None							
2 🕳	Odour		IS 3025-Part 5	Agreeable	Unobj							
3	Colour	Hazen	IS 3025-Part 4	10.0	10	300	300					
4	pH @ 25°C		IS 3025-Part 11	7.38	8.5	8.5	8.5	8.5	8.5			
5	Conductivity @ 25°C	uS/cm	IS 3025-Part 14	17200				1000	2250			
6	Dissolved Oxygen	mg/l	IS 3025-Part 38	6.8	6	5	4	4				
7	BOD @27°C for 3 days	mg/l	IS 3025-Part 44	BDL(DL:2.0)	2	3	3					
8	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	11800	500		1500		2100			
9	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	24.0								
10	Oil and Grease	mg/l	IS 3025-Part 39	BDL(DL:1.0)			0.1	0.1				
11	Mineral Oil	mg/l	IS 3025-Part 39	BDL(D:1.0)	0.01							

BDL: Below Detectable Limit; DL: Detectable Li

Verified by Deputy Quality Manager



For Life Shell Labs India Pvt. Ltd.

Authorized Signatory K. KAMALANATHAN Deputy Technical Managor

Page 1 of 1



-18





-

# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

Samp	le ID: 2208071	JOE: 1490		Report Date: 16.08.2022					
S.No PARAMETERS		UNIT	TEST METHOD	RESULTS	Surface Water Quality Standards (as per IS: 2296).				ndards
					A	В	С	D	E
12	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025-Part 21	4460	300				
13	Chloride as Cl	mg/l	IS 3025-Part 32	4820	250		600		600
14	Sulfate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	1180	400		400		1000
15	Nitrates as NO <sub>3</sub>	mg/l	IS 3025-Part 34	11.8	20		50		
16	Free CO <sub>2</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	6.0				6	
17	Free Ammonia as N	mg/l	IS 3025-Part 34	0.27				1.2	
18	Fluorides as F	mg/l	APHA-23 <sup>rd</sup> Edn	3.05	1.5	1.5	1.5		
19	Calcium as Ca	mg/l	IS 3025-Part 40	810	80.10				
20	Magnesium as Mg	mg/l	IS 3025-Part 46	496	24.28				
21	Copper	mg/l	IS 3025 Part 42	BDL(DL:0.5)	1.5		1.5		
22	Iron as Fe <sup>2+</sup>	mg/l	IS 3025-Part 53	0.24	0.3		50		
23	Manganese as Mn	mg/l	IS 3025-Part 59	BDL(DL:0.5)	0.5				
24	Boron as B	mg/l	IS 3025-Part 57	0.96					2
25	Lead as Pb	mg/l	IS 3025 Part 47	BDL(D:0.1)	0.1		0.1		
26	Chromium Cr6+	mg/l	IS 3025-Part 52	BDL(DL:0.1)	0.05	0.05	0.05		
27	Percentage Sodium	%	IS 11624	44.2					60
28	Sodium absorption ratio	meq/l	IS 11624	11.3					26
29	Total Coliforms	MPN/100ml	IS 1622:1981	110	50	500	5000		

#### **TEST REPORT**

Note: Class A – Drinking water without conventional treatment but after disinfection. Class B –Water for outdoor bathing. Class C – Drinking water with conventional treatment followed by disinfection. Class D – Water for fish culture and wild life propagation. Class E – Water for irrigation, industrial cooling and controlled waste disposal. (Unobj = Unobjectionable) BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by Deputy Quality Manager

BS CHENNA 600 07

\*\*\*\*\*\*End of Report\*\*\*\*\*\*

For Life Shell Labs India Pvt. Ltd.

K. KAMALANATHAN

Page 2 of 2







(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT

Sample ID: 2208072	JOE: 1490		Report Date: 16.08.2022
Customer Name	M/s. Tamil Nadu Polymer Indus	tries Park Limited (TPIPL)	
Address	143 & 187 Of Puzhudivakkam Vi Thiruvallur District, Tamil Nadu.	llage, 2053 B Part Of Voyalur V	illage, Ponneri Taluk,
Date of Sampling	06.08.2022	Sampled by	LSL
Sample Received on	07.08.2022	Sample Description	Surface Water
Test Commenced on	07.08.2022	Sampling Procedure	LSL/SOP/CHE/071
Test Completed on	13.08.2022	Sample Condition	Satisfactory
Sampling Location	Kosasthalaiyar river	Sample Quantity	2 liters

DISCIP	LINE	CHEMI	CAL TESTING						
PRODU	JCT GROUP	WATER					-	2	8
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Surfac		er Qual per IS: 2	ity Stan 296).	dards
110					А	В	С	D	E
1	Taste		-IS 3025-Part 5	Agreeable	None				
2	Odour		IS 3025-Part 5	Agreeable	Unobj				
3	Colour	Hazen	IS 3025-Part 4	10.0	10	300	300		
4	pH @ 25°C		IS 3025-Part 11	8.04	8.5	8.5	8.5	8.5	8.5
5	Conductivity @ 25°C	uS/cm	IS 3025-Part 14	5140				1000	2250
6	Dissolved Oxygen	mg/l	IS 3025-Part 38	6.9	6	5	4	4	
7	BOD @27°C for 3 days	mg/l	IS 3025-Part 44	BDL(DL:2.0)	2	3	3		
8 🖛	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	2980	500		1500		2100
9	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	12.0					
10	Oil and Grease	mg/l	IS 3025-Part 39	BDL(DL:1.0)			0.1	0.1	
11	Mineral Oil	mg/l	IS 3025-Part 39	BDL(D1.0)	0.01	0			

BDL: Below Detectable Limit; DL: Detectable Limit.

Verified h nager

Deputy Quality M



For Life Shell Labs India Pvt. Ltd.

Authorized Signatory K. KAMALANATHAN Deputy Technical Manager

Page 1 of 1



.





For Life Shell Labs India Pvt. Ltd.

**Authorized Signatory** 

TALANATH

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

Samp	le ID: 2208072	JOE: 1490			Repor	t Date:	16.08.2	022	
S.No PARAMETERS	PARAMETERS UNIT	TEST METHOD	RESULTS	Surface Water Quality Standards (as per IS: 2296).				ndards	
					A	В	С	D	E
12	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025-Part 21	1140	300				
13	Chloride as Cl	mg/l	IS 3025-Part 32	946	250		600		600
14	Sulfate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	230	400		400		1000
15	Nitrates as NO <sub>3</sub>	mg/l	IS 3025-Part 34	5.72	20		50		
16	Free CO <sub>2</sub>	mg/l	APHA-23 <sup>rd</sup> Edn	BDL(DL:1.0)				6	
17	Free Ammonia as N	mg/l	IS 3025-Part 34	0.27				1.2	
18	Fluorides as F	mg/l	APHA-23 <sup>rd</sup> Edn	1.05	1.5	1.5	1.5		
19	Calcium as Ca	mg/l	IS 3025-Part 40	218	80.10				
20	Magnesium as Mg	mg/l	IS 3025-Part 46	. 96.2	24.28				
21	Copper	mg/l	IS 3025 Part 42	BDL(DL:10.2)	1.5		1.5		
22	Iron as Fe <sup>2+</sup>	mg/l	IS 3025-Part 53	0.24	0.3		50		
23	Manganese as Mn	mg/l	IS 3025-Part 59	BDL(DL:0.5)	0.5				
24	Boron as B	mg/l	IS 3025-Part 57	BDL(D0.1)					2
25	Lead as Pb	mg/l	IS 3025 Part 47	BDL(D0.1)	0.1		0.1		
26	Chromium Cr6+	mg/l	IS 3025-Part 52	BDL(DL:0.1)	0.05	0.05	0.05		
27	Percentage Sodium	%	IS 11624	48.3					60
28	Sodium absorption ratio	meq/l	IS 11624	8.69					26
29	Total Coliforms	MPN/100ml	IS 1622:1981	84	50	500	5000		

Note: Class A – Drinking water without conventional treatment but after disinfection. Class B –Water for outdoor bathing. Class C – Drinking water with conventional treatment followed by disinfection. Class D – Water for fish culture and wild life propagation. Class E – Water for irrigation, industrial cooling and controlled waste disposal. (Unobj = Unobjectionable) BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by

Deputy Quality Manager

ABS CHENNA 600 07

\*\*\*\*\*\*End of Report\*\*\*\*\*

Page 2 of 2



-





# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### **TEST REPORT**

Sample ID: 2208073	JOE: 1490		Report Date: 16.08.2022
Customer Name	M/s. Tamil Nadu Polymer In	dustries Park Limited (TPIPL)	
Address	143 & 187 Of Puzhudivakkam Thiruvallur District, Tamil Nag	n Village, 2053 B Part Of Voyalur Village du.	e, Ponneri Taluk,
Date of Sampling	06.08.2022	Sampled by	LSL
Sample Received on	07.08.2022	Sample Description	Ground Water
Test Commenced on	07.08.2022	Sampling Procedure	LSL/CHE/SOP/071
Test Completed on	13.08.2022	Sample Condition	Satisfactory
Sampling Location	Project Site	Sample Quantity	2 Liters

DISCIPLINE		CHEMICAL TESTIN	CHEMICAL TESTING					
PRODUCT GROUP		WATER	WATER					
S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS				
1	pH @ 25°C		IS 3025-Part 11	8.19				
2	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025-Part 21	182				
3	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	440				
4	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	BDL(DL:1.0)				
5	Sulphate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn-2017	54.0				
6	Nitrate as NO <sub>3</sub>	mg/l	IS 3025 part-34	2.35				
7	Iron as Fe <sup>2+</sup>	mg/l	IS 3025 part-53	0.12				
8	"Zinc as Zn	mg/l	IS 3025-Part 49	BDL(DL:0.05)				
9	Total Chromium (as Cr)	mg/l	IS 3025-Part 52	BDL(DL:0.1)				
10	Copper	mg/l	IS 3025-Part 42	BDL(DL:0.05)				
11	Lead as Pb	mg/l	IS 3025-Part 47	BDL(DL:0.01)				
12	Cadmium (as Cd)	mg/l	IS 3025-Part 41	BDL(DL:0.01)				
13	Selenium as Sc	mg/l	APHA-23 <sup>rd</sup> Edn-2017	BDL(DL:0.01)				
14	Arsenic as As	mg/l	IS 3025-Part 37	BDL(DL:0.05)				
15	Mercury as Hg	mg/l	IS 3025-Part 48	BDL(DL:0.01)				
16	Nickel	mg/l	IS 3025-Part 54	BDL(DL:0.05)				
17	Barium as Ba	mg/l	APHA-23rd Edn-2017	BDL(DL:0.01)				

Note; BDL: Below Detection Limit, DL: Detection Limit, mg/l-Milligrams per liter.

Verified by

Dep

ty Quality Manager

ABS /A CHENNA 600 077 \*\*\*\*\*\*End of Report\*\*

For Life Shell Labs India Pvt. Ltd. Authorized signatory

Achara tecunical Managel

#### Page 1 of 1







# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT

Sample ID: 2208074	JOE: 1490		Report Date: 16.08.2022			
Customer Name	M/s. Tamil Nadu Polymer Indus					
Address	143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.					
Date of Sampling	06.08.2022	Sampled by	LSL			
Sample Received on	07.08.2022	Sample Description	Ground Water			
Test Commenced on	07.08.2022	Sampling Procedure	LSL/CHE/SOP/071			
Test Completed on	13.08.2022	Sample Condition	Satisfactory			
Sampling Location	Kattupalli	Sample Quantity	2 Liters			

DISCIPLINE		CHEMICAL TESTIN	CHEMICAL TESTING					
PRODUCT GROUP		WATER	WATER					
S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS				
1	pH @ 25°C		· IS 3025-Part 11	7.45				
2	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025-Part 21	142				
3	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	320				
4	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	2.0				
5	Sulphate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn-2017	34.0				
6	Nitrate as NO <sub>3</sub>	mg/l	IS 3025 part-34	1.05				
7	Iron as Fe <sup>2+</sup>	mg/l	IS 3025 part-53	0.17				
8	Zinc as Zn	mg/l	IS 3025-Part 49	BDL(DL:0.05)				
9	Total Chromium (as Cr)	mg/l	IS 3025-Part 52	BDL(DL:0.1)				
10	Copper	mg/l	IS 3025-Part 42	BDL(DL:0.05)				
11	Lead as Pb	mg/l	IS 3025-Part 47	BDL(DL:0.01)				
12	Cadmium (as Cd)	mg/I	IS 3025-Part 41	BDL(DL:0.01)				
13	Selenium as Sc	mg/l	APHA-23 <sup>rd</sup> Edn-2017	BDL(DL:0.01)				
14	Arsenic as As	mg/l	IS 3025-Part 37	BDL(DL:0.05)				
15	Mercury as Hg	mg/l	IS 3025-Part 48	BDL(DL:0.01)				
16	*Nickel	mg/l	IS 3025-Part 54	BDL(DL:0.05)				
17	Barium as Ba	mg/l	APHA-23rd Edn-2017	BDL(DL:0.01)				

Note: BDL: Below Detection Limit, DL: Detection Limit, mg/l-Milligrams per liter.

Verified by

Deputy Quality Manager

ABSIA CHENNA 600 07

For Life Shell Labs India Pvt. Ltd, Authorized signatory Technical eputy

\*\*\*\*\*\*End of Report\*

Page 1 of 1







# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

#### TEST REPORT

Sample ID: 2208075	JOE: 1490		Report Date: 16.08.2022
Customer Name	M/s. Tamil Nadu Polymer Industr		
Address	143 & 187 Of Puzhudivakkam Villa Thiruvallur District, Tamil Nadu.	age, 2053 B Part Of Voyalur Village	e, Ponneri Taluk,
Date of Sampling	06.08.2022	Sampled by	LSL
Sample Received on	07.08.2022	Sample Description	Ground Water
Test Commenced on	07.08.2022	Sampling Procedure	LSL/CHE/SOP/071
Test Completed on	13.08.2022	Sample Condition	Satisfactory
Sampling Location	Athipattu Pudhu Nagar	Sample Quantity	2 Liters

DISCIPLINE PRODUCT GROUP		CHEMICAL TESTING	G		
		WATER			
S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS	
1	pH @ 25°C		IS 3025-Part 11	7.58	
2	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025-Part 21	134	
3	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	280	
4	Total Suspended solids (TSS)	mg/l	IS 3025 part-17	BDL(DL:1.0)	
5	Sulphate as SO <sub>4</sub>	mg/l	APHA-23 <sup>rd</sup> Edn-2017	27.0	
6	Nitrate as NO <sub>3</sub>	mg/l	IS 3025 part-34	1.65	
7	Tron as Fe <sup>2+</sup>	mg/l	IS 3025 part-53	0.08	
8	Zinc as Zn	mg/l	IS 3025-Part 49	BDL(DL:0.05)	
9	Total Chromium (as Cr)	mg/I	· IS 3025-Part 52	BDL(DL:0.1)	
10	Copper	mg/l	IS 3025-Part 42	BDL(DL:0.05)	
11	Lead as Pb	mg/l	IS 3025-Part 47	BDL(DL:0.01)	
12	Cadmium (as Cd)	mg/I	IS 3025-Part 41	BDL(DL:0.01)	
13	Selenium as Sc	mg/l	APHA-23 <sup>rd</sup> Edn-2017	BDL(DL:0.01)	
14	Arsenic as As	mg/l	IS 3025-Part 37	BDL(DL:0.05)	
15	Mercury as Hg	mg/l	IS 3025-Part 48	BDL(DL:0.01)	
16	Nickel	mg/l	IS 3025-Part 54	BDL(DL:0.05)	
17	Barium as Ba	mg/l	APHA-23rd Edn-2017	BDL(DL:0.01)	

Note: BDL: Below Detection Limit, DL: Detection Limit, mg/I-Milligrams per liter.

Verified by

Manager Quality Dept

ABS IA CHENNA 600 07 End of Report\*

For Life Shell Labs India Pvt. Ltd, Authorized signatory

K. KAMALANATHAN Deputy Technical Manage

weeksy resultion 14

## Page 1 of 1







# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

TEST REPORT

JOE: 1490		Report Date: 16.08.2022
M/s. Tamil Nadu Polymer Industries	Park Limited (TPIPL)	
143 & 187 Of Puzhudivakkam Village, Thiruvallur District, Tamil Nadu.	2053 B Part Of Voyalur Village	, Ponneri Taluk,
06.08.2022	Sampled by	LSL
07.08.2022	Sample Description	Soil
07.08.2022	Sampling Procedure	LSL/CHE/SOP/074
13.08.2022	Sample Condition	Satisfactory
South Corner of the project site	Sample Quantity	2 Kgs
	M/s. Tamil Nadu Polymer Industries 143 & 187 Of Puzhudivakkam Village, Thiruvallur District, Tamil Nadu. 06.08.2022 07.08.2022 07.08.2022 13.08.2022	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Thiruvallur District, Tamil Nadu.06.08.2022Sampled by07.08.2022Sample Description07.08.2022Sampling Procedure13.08.2022Sample Condition

DISCIPLINE PRODUCT GROUP		CHEMICAL TESTING POLLUTION & ENVIRONMENT					
1	Soil Texture		ASTM D421/422	Sandy Clay			
2	pH @ 25°C	Ŧ	IS 2720 Part -26	8.68			
3	Bulk Density	gm/cc	ASTM D6683-14	1.26			
4	Cation Exchange Capacity	meq/100g	IS 2720 Part -24	6.47			
5	Water Holding Capacity	%	IS 14765	16.1			
6	Total Organic Carbon	%	IS 2720 Part -22	0.88			
7	Organic Matter	%	IS 2720 Part -22	1.62			
8	Nitrogen	%	IS 14684	0.022			
9	Total Phosphorus as P	%	IS 10158	BDL(DL:1.0)			
10	Soluble Potassium as K	meq/100g	FAO 2007	0.88			

Note; BDL: Below Detection Limit, DL: Detection Limit.

Verified by

Deputy Quality Manager

CHENNA 600 077 End of Report

For Life Shell Labs India Pvt. Ltd Authorized signatory

Deputy Technical Manager

Page 1 of 1



4





# LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider) No. 20, Nehru Street, Maruthi Nagar, Phase I, Iyyappanthangal, Chennai – 600077. Tamil Nadu Tel: +91(44) 48634849, 63809 68684 Email: labs@lifeshell.in, lifeshelllabs@gmail.com www.lifeshelllabs.com

.

## TEST REPORT

Sample ID: 2208077	JOE: 1490			Report Date: 16.08.2022		
Customer Name	M/s. Tamil Nadu Polymer Industries Park Limited (TPIPL)					
Address	143 & 187 Of Puzhudivakkam Village, 2053 B Part Of Voyalur Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.					
Date of Sampling	06.08.2022		Sampled by	LSL		
Sample Received on	07.08.2022		Sample Description	Soil		
Test Commenced on	07.08.2022	*	Sampling Procedure	LSL/CHE/SOP/074		
Test Completed on	13.08.2022		Sample Condition	Satisfactory		
Sampling Location	Kattupalli Village	•	Sample Quantity	2 Kgs		

DISCIPLINE PRODUCT GROUP		CHEMICAL TESTING POLLUTION & ENVIRONMENT			
1	Soil Texture		ASTM D421/422	Sandy Clay	
2	pH @ 25°C		IS 2720 Part -26	8.75	
3	Bulk Density	gm/cc	ASTM D6683-14	1.27	
4	Cation Exchange Capacity	meq/100g	IS 2720 Part -24	6.23	
5	Water Holding Capacity	%	IS 14765	15.5	
6	Total Organic Carbon	%	* IS 2720 Part -22	0.94	
7	Organic Matter	%	IS 2720 Part -22	1.73	
8	Nitrogen	%	IS 14684	0.029	
9	Total Phosphorus as P	%	IS 10158	BDL(DL:1.0)	
10	Soluble Potassium as K	meq/100g	FAO 2007	1.06	

Note: BDL: Below Detection Limit, DL: Detection Limit.

Verified by

Manager Der utv

MENN 000

\*\*\*\*\*\*End of Report\*\*\*\*\*

For Life Shell Labs India Pvt. Ltd,

Authorized signatory K. KAMALANATHAI

Deputy Technical Manager

Page 1 of 1

வியாழக்கிழமை, 9 ஜனவரி 2020

**தினமணி சென்னை** 5

# தமிழ்நாடு

# தமிழ்நாடு பாலிமா் தொழிற் பூங்கா லிமிடெட் (A Joint Venture of **TIDCO** and **SIPCO**T)

பாலிமர் தொழிற்பூங்கா, திருவள்ளூர் மாவட்டம் சுற்றுச்சூழல் இசைவாணை

திருவள்ளூர் மாவட்டம், வாயலூர் மற்றும் புழுதிவாக்கம் கிராமங்களில் அமையவுள்ள பாலிமர் தொழிற் பூங்காவிற்கு மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம் (SEIAA), தமிழ்நாடு கடிதம் எண்: SEIAA-TN/F.No.6957/ EC/8(b)/683/2019 தேதி 11.12.2019 மூலம் சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

இவ்விசைவாணையின் முழுவிவரத்தை தமிழ்நாடு பாலிமர் தொழிற் பூங்கா இணையதளமான <u>www.tnpolymerpark.com</u> மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், தமிழ்நாடு இணையதளத்திலும் காணலாம். மேலும் இசைவாணையின் நகலினை தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியத் தலைமை அலுவலகத்தில் பெறலாம்.

## மேலாண்மை இயக்குனர்,

தமிழ்நாடு பாலிமா் தொழிற் பூங்கா லிமிடெட் 19-A, ருக்மணி லட்சுமிபதி சாலை,

செ.ம.தொ.டீ/ 64/வரைகலை/2020

¬-A, ருகமண் லட்சும்பது சானை எழும்பூர், சென்னை--600008.



# THURSDAY ()9.()].2()2()

# Tamil Nadu Polymer Industries Park Limited (A Joint venture of TIDCO & SIPCOT) Polymer Industries Park, Tiruvallur District Environmental Clearance

Environmental Clearance has been issued by State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu for the proposed Polymer Industries Park in Voyalur and Puzhudivakkam Villages, Tiruvallur District vide their letter No. SEIAA-TN/F.No.6957/ EC/8(b)/683/2019 dated 11.12.2019.

The contents of the Environmental Clearance can be viewed in TPIPL website <u>www.tnpolymerpark.com</u> and also in the website of SEIAA, Tamil Nadu. Further, the copies of the Environmental Clearance could be obtained from the Head Office of Tamil Nadu Pollution Control Board (TNPCB).

## Managing Director,

Tamilnadu Polymer Industries Park Limited (TPIPL), 19-A, Rukmani Lakshmipathy Road, DIPR/64/Display/2020 Egmore, Chennai - 600008.

# ANNEXURE - V

प्राप्ति स्वीकृति	(रसीद) A	CKNOWLEI	DGEMENT	r.
4 (314-51	पैकेट/पार्सल प्राप		*	
* Received a <u>Registered</u> Le	tter/Postcard/Pa	acket/Parcel		•
पाने वाले का नाम Addressed to (Name) †बीमा का मूल्य (रुपयों में) †Insured for Rupees	NO:1, J CHENNA	EENIS POR	Mad	SELDA Mani
वितरण की तारीख/Date of	delivery	20 <sup>3</sup>	8 A	OBIN
* अनावश्यक को काट दिया जाए। * Score out the matter not requir	cd,	N. C.	2026	
† केवल बीमा वस्तुओं के लिए। † For Insured articles only		पाने वाले के हस्त	TETT STEIMENTS &	addressee

-		,		
1. 30				
	· * **** * + + 27			
	आप्त स्वाकृत (	रसीद) ACKNOWL	EDGEMI	ENT
	रजिस्ट्री			
	* एक - रजिस्ट्री बीमा पत्र/पोस्टकार्ड/पैव * Registered	वेट/पासेल प्राप्त हुआ		
	* Received a Registered			
	Insured	r/Postcard/Packet/Parcel	य परिवर्तन :	<b>~</b>
	पाने वाले का नाम	HE APCCER	J. REDNIC	APP DEELLE
		TINISTON DE ENVIR	ONMENT	& Forest (SE)
•	Addressed to (Name)	34, HEPCKINDIN	- 5 C 2 3	1 A A
	†बीमा का मूल्य (रुपयों में) 🗧	LATHEDRAL STARDEN	C. F. Gre	2-1
		CHENNH -600 034	No	NER MERCHANS
	वितरण की तारीख/Date of de		A	-H6   #
	• अनावश्यक को काट दिया जाए।	151	( AND	
	* Score out the matter not required.	12	सत्यमंच जयते	11
	† केवल वीमा वस्तुओं के लिए।	Contraction of the second	in sint 1	131
	+ For Insured articles only.	पाने वाले कि		
	, and the surfaces only.	पान वाला काम	A Clingle hand	we of addressee
		13	1.20	)
	· · · · · · · · · · · · · · · · · · ·			- 22



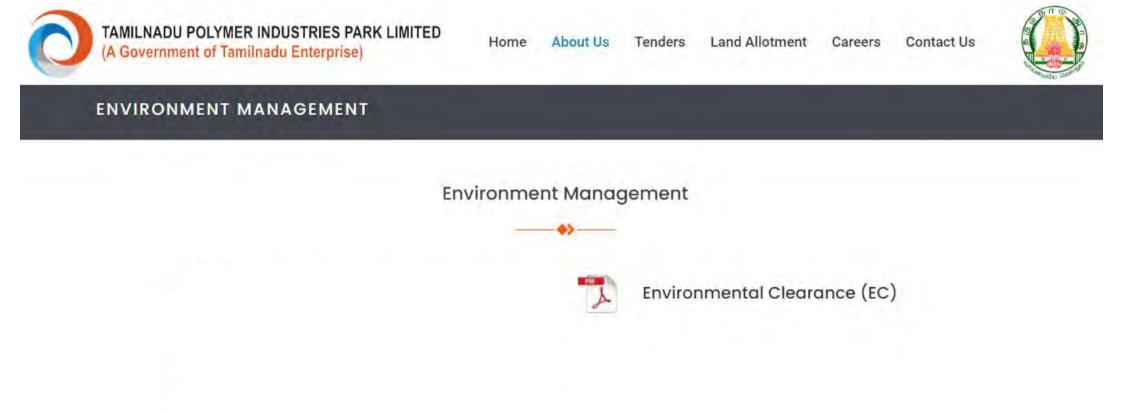
۰.

•

> sir Fr

भारतीय डाक India Post RT064329284IN\_IVR:8284064329284 RL ANNA ROAD H.O (600002) Counter No:103,09/01/2020,18:26 TO:PRESIDENT, ED PUZHLIDIVAKKAN PIN:600120, North Chennai Thermal PP SD From: TN POLYMER ,. Wt:170gas Ant:68.00(Cash) (Track on www.indiapost.gov.in) शास्त्रीय ভাক  $\langle \rangle$ <Dial 1800 266 6868> India Post RT064329409IN IVR:8284064329409 RL ANNA ROAD H.O (600002) Counter No:103,09/01/2020,18:26 To:PRESIDENT EO, VOYALUR PANCHAYAT PIN:601203, Minjur SD From: TN POLYMER ,. Wta170gas Amt:69.00(Cash)

## ANNEXURE - VII



## ANNEXURE - VIII



TAMILNADU POLYMER INDUSTRIES PARK LIMITED (A Government of Tamilnadu Enterprise)

Home About Us Tenders Land Allotment

Careers Contact Us



# ENVIRONMENT MANAGEMENT

Environment Management



Environmental Statement - Form V

# ANNEXURE - IX



TAMILNADU POLYMER INDUSTRIES PARK LIMITED (A Government of Tamilnadu Enterprise)

About Us Tenders Land Allotment Careers



Contact Us

## ENVIRONMENT MANAGEMENT



**خە** 

Home

POF

EC Compliance – June 2022

Copyright © Tamilnadu Polymer Industries Park Limited 2019 | All rights reserved | Designed by iStudio Technologies

#### ANNEXURE - X

நாள்.29.07.2020.

## அனுப்புநர்

க.கோபால கிருஷ்ணன், B.E., உதவி இயக்குநர், மாவட்ட நகர் ஊரமைப்பு அலுவலகம், திருவள்ளூர் மாவட்டம், எண்.43/397A, இரண்டாம் தளம், அன்னை இந்திரா காந்தி சாலை, இராஜாஜிபுரம் பகுதி – II, திருவள்ளூர் - 602 001. தொலைபேசி - 044-27665657. <u>email-tvlrregion@gmail.com</u> பெறுநா

M/s.Tamil Nadu Polymer Industries Park Limited, No.19-A, Rukmini Lakshmipathy Road, Egmore, Chennai-600 008.

## ஒ.மு.எண்.1232/2020/திவம2

ஐயா,

பொருள்: நில உபயோகச் சான்று - மாவட்ட நகர் ஊரமைப்பு அலுவலகம்- திருவள்ளூர் மாவட்டம் - பொன்னேரி வட்டம் - புழுதிவாக்கம் கிராமம் - சர்வே எண்கள்.143,187, வயலூர் கிராமம் ச.எண்.205/3B -ற்கு நில உபயோகச் சான்று வழங்க கோரியது - தொடர்பாக.

பார்வை: தங்கள் கடிதம், நாள்.28.07.2020.

பார்வையில் கண்ட தங்கள் கடிதத்தில், திருவள்ளூர் மாவட்டம், பொன்னேரி வட்டம், புழுதிவாக்கம் கிராமம், சர்வே எண்கள்.143,187, வயலூர் கிராமம் ச.எண்.205/3B ஆகியவற்றிற்கு நில உபயோகச் சான்று வழங்க கோரப்பட்டதை தொடர்ந்து, கீழ்காண் விவரம் தெரிவிக்கலாகிறது.

மேற்படி, புழுதிவாக்கம் மற்றும் வயலூர் கிராமத்திற்கு நகர் ஊரமைப்புத் துறையால் எவ்வித நில உபயோகமும் வகைபடுத்தபடவில்லை என்ற விவரம் தெரிவிப்பதுடன் கீழ்காண் விவரங்கள் தெரிவிக்கலாகிறது.

- 1) இவ்விடத்தில் மனைப்பிரிவோ / நிறுவனமோ / கட்டிடமோ அல்லது எவ்வித அபிவிருத்தியோ செய்யும் முன்னர் நகர் ஊரமைப்புச் சட்டம் 1971, பிரிவு 47A-ன்படி, இத்துறையின் முன் அனுமதி பெறப்பட வேண்டும். அவ்வாறு அனுமதி பெறாமல் அபிவிருத்தி செய்யப்பட்டால் நகர் ஊரமைப்புச் சட்டம் 1971 பிரிவு 56 மற்றும் 57-ன் கீழ் நடவடிக்கை தொடரப்படும்.
- 2) அபிவிருத்திகளுக்கு அனுமதி பெறுவதை எளிமைப்படுத்தும் விதமாக அதிகபட்சம் 7000 சதுர அடி பரப்பளவுள்ள குடியிருப்புக் கட்டிட உத்தேசம் மற்றும் அதிகபட்சம் 8

குடியிருப்புகளை உள்ளடக்கியதான மற்றும் அதிகபட்சம் தரைதளம் மற்றும் முதல்தளம், வரையிலான குடியிருப்புக் கட்டிடம் போன்றவற்றிற்கும் அதிகபட்சம் 2000 சதுர அடி வரையிலான வணிக உபயோகக் கட்டிடங்களுக்கு சம்மந்தப்பட்ட உள்ளாட்சியே இத்துறையின் சார்பாக அனுமதி வழங்கிட இத்துறையால் அதிகாரப்பகிர்வு வழங்கப்பட்டுள்ளது. மேற்காண் வகைக் கட்டிடங்கள் தவிர கூடுதல் பரப்பளவுள்ள குடியிருப்புக் கட்டிடங்கள், வணிகக் உபயோகக் 511QL உத்தேசங்களுக்கு இவ்வலுவலகத்தின் அனுமதி பெறப்பட வேண்டும். இதர பொது வகைக் கட்டிடங்கள் போன்றவற்றிற்கு இத்துறையின் முன் அனுமதி பெறப்பட வேண்டும் எனவும் தெரிவிக்கப்படுகிறது.

- புன்செய் நில அபிவிருத்திக்கு இணை இயக்குநா, வேளாண்மைத் துறை தடையின்மை சான்று பெறப்பட வேண்டும்.
- நன்செய் நில அபிவிருத்திக்கு மாவட்ட ஆட்சியர் அவர்களின் தடையின்மைச் சான்று பெறப்பட வேண்டும்.
- 5) இச்சான்று தகவல் அளிக்கும் நோக்கத்தில் மட்டுமே வழங்கப்படுகிறது. இதனை சட்ட ரீதியான நடவடிக்கைகளுக்கு தேவையான் நகர் ஊரமைப்பு துறையின் அனுமதியாக கருதக் கூடாது.

5.0

உதவி இயக்குநர், *29* 7 *222 20* மாவட்ட நகர் ஊரமைப்பு அலுவலகம், திருவள்ளூர் மாவட்டம்.