



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), TAMIL NADU)

To,

The mangingdirector

VASAVIBALA RESINS PVT. LTD.

New No. 44, Eldams Road, Teynampert, Chennai Taluk, Chennai District,
Tamil Nadu -600018

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/TN/IND3/410049/2022 dated 06 Jan 2023. The particulars of the environmental
clearance granted to the project are as below.

1. EC Identification No.	EC23B021TN110166
2. File No.	7414
3. Project Type	New
4. Category	B
5. Project/Activity including Schedule No.	5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk
6. Name of Project	Proposed manufacturing unit of Polymeric Resins and Formulated Products
7. Name of Company/Organization	VASAVIBALA RESINS PVT. LTD.
8. Location of Project	TAMIL NADU
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 03/03/2023

(e-signed)
Thiru.Deepak S.Bilgi
Member Secretary
SEIAA - (TAMIL NADU)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH.Please quote identification
number in all future correspondence.*

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PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environmental Single-Window Hub)





सत्यमेव जयते

**THIRU. DEEPAK S. BILGI, I.F.S.
MEMBER SECRETARY**

**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY-TAMILNADU**

3rd Floor, Panagal Maaligai,
No.1, Jeenis Road, Saidapet,
Chennai - 600 015.
Phone No. 044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No.7414/EC/5(f)/103/2021 dated:01.02.2023

Sir/Madam,

Sub: SEIAA-TN – Environmental Clearance – Proposed Polymeric Resins and Formulated products manufacturing unit at S.F.No.50 of SIPCOT Industrial Park, Pillaipakkam, Vengadu Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by M/s. Vasavibala Resins Pvt. Ltd, under Category “B1” and Schedule Sl. No. 5(f) “Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)” of the EIA Notification, 2006 as amended – Issued – Regarding

- Ref:
1. Your Application submitted for Terms of Reference dated: 07.02.2020
 2. TOR Issued vide letter No. SEIAA-TN/F.No.7414/SEAC/5(f)/TOR-1142/2020 dated:13.04.2022
 3. Minutes of Public Hearing held on 14.09.2022
 4. Online Proposal No. SIA/TN/IND3/410049/2022 Dt. 13.12.2022
 5. Your application seeking Environmental Clearance dated: 13.12.2022
 6. Minutes of the 343rd SEAC Meeting held on 05.01.2023.
 7. Minutes of the 588th meeting of SEIAA held on 01.02.2023.

This has reference to your application under reference 4th & 5th cited, wherein you have submitted proposal seeking Environmental Clearance for the Proposed Polymeric Resins and Formulated products manufacturing unit at S.F.No.50 of SIPCOT Industrial Park, Pillaipakkam, Vengadu Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu Item No. 5(f) – “Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug

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formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" & Category 'B1' of the Schedule to the EIA Notification, 2006.

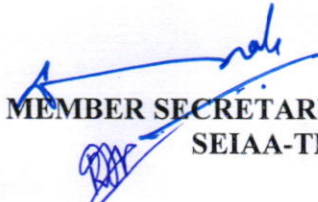
S. No	Description	Details															
1.	Name of the Project	Proposed Polymeric Resin and Formulated Products manufacturing unit by M/s. Vasavibala Resins Private Limited.															
2.	Location	S.F. No. 50 of Pillaipakkam SIPCOT Industrial Park, Vengadu Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu. <u>Co-ordinates:</u> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12°57'13.21"N</td> <td>79°59'14.69"E</td> </tr> <tr> <td>2.</td> <td>12°57'13.44"N</td> <td>79°59'17.96"E</td> </tr> <tr> <td>3.</td> <td>12°57'11.44"N</td> <td>79°59'18.11"E</td> </tr> <tr> <td>4.</td> <td>12°57'11.21"N</td> <td>79°59'14.84"E</td> </tr> </tbody> </table>	S.No.	Latitude	Longitude	1.	12°57'13.21"N	79°59'14.69"E	2.	12°57'13.44"N	79°59'17.96"E	3.	12°57'11.44"N	79°59'18.11"E	4.	12°57'11.21"N	79°59'14.84"E
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3.	Type of Project	Schedule 5(f) - Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)															
4.	Total Area	Total land available -6064.46 Sq.m (1.5 Acres) Plot Coverage – 1509.31 Sq.m (0.37 Acres) 24.7% Greenbelt - 2008.62 Sq.m (0.5 Acres) 33.3% Road – 771.29 Sq.m (0.19 Acres) 12.7% Vacant Land -1467. 34Sq.m (0.36 Acres) 24% Parking – 307.90 Sq.m (0.08Acres) 5.3%															
5.	Cost of Project (INR)	Rs. 419 Lakhs															
6.	Details of Proposed Product	<table border="1"> <thead> <tr> <th>Polymeric Resins</th> <th>Quantity (MT/ Month).</th> </tr> </thead> <tbody> <tr> <td>a) Unsaturated Polyester Resin</td> <td>550</td> </tr> <tr> <td>b) Saturated Polyester Resin</td> <td>100</td> </tr> <tr> <td>c) Vinylester Resin</td> <td>150</td> </tr> <tr> <td>Total</td> <td>800</td> </tr> </tbody> </table>	Polymeric Resins	Quantity (MT/ Month).	a) Unsaturated Polyester Resin	550	b) Saturated Polyester Resin	100	c) Vinylester Resin	150	Total	800					
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		Formulated Products	Quantity (MT/ Month).
		a) Fire Retardant Resin	150
		b) GELCOATS	100
		Total	250
7.	TOR issued? (If yes then specify the details)	Yes. ToR with Public hearing issued vide Lr. No. SEIAA-TN/F.No. 7414/SEAC/5(f)/TOR-1142/2020 dt:13.04.2022. Minutes of Public Hearing held on 14.09.2022.	
8.	a) Water requirement	Total water requirement – 7.22 kLD Fresh water requirement – 4 kLD Recycled water – 3.22 kLD (Cooling Tower – 1.62 kLD & Green belt – 1.60 kLD)	
	b) Source of water	SIPCOT	
9.	Sewage/ Effluent generation, & mode of treatment	Effluent Generation - 2.62 kLD ETP capacity – 5kLD 1. Bar Screen chamber 2. Collection Tank 3. Oil skimmer 4. Flash Mixer Tank 5. Clarifier Tank 6. Clarified Water storage tank 7. Sludge Holding Tank 8. Centrifuge 9. Stripper 10. MEE with condenser 11. ATFD 12. Treated Effluent Storage Tank Sewage generation – 1.6 kLD STP capacity - 2 kLD 1. Collection tank	

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		2. Packaged STP with Screen Chamber, Anaerobic Media chamber, moving bed chamber, Sedimentation Tank & Filter feed tank. 3. Filter feed pump 4. Pressure sand filter 5. Activated carbon filter 6. Hypo Dosing Treated Water tank		
10.	Treated Sewage/ Effluent - Mode of disposal	Treated Sewage – 1.6 kLD for Greenbelt. Treated effluent –1.62 kLD for Cooling Tower.		
11.	Air Pollution Control Measures (Stack)	Emission Source	APC Measures	Stack / Chimney Height (m)
		Thermic Fluid Heater – 3 Nos. 1 Lakh K.Cal/hr 4 Lakh K.Cal/hr 8Lakh K.Cal/hr	Stack	40
		DG Set – 63 KVA – 1No.	Acoustic Enclosures with stack	30
		DG Set – 125 KVA – 1No.	Acoustic Enclosures with stack	30
		DG Set – 250 KVA – 1No.	Acoustic Enclosures with stack	30
12.	Quantity of Solid Waste generated per day (in Kgs), &	Construction Phase:		
		Waste	Quantity (kg/day)	Collection Method

Mode of treatment and Disposal of Solid Waste	Bio Degradable	2.5	Bins	Disposed through Common facility of Industrial Park
	Non Bio Degradable	1.5	Bins	Disposed through Authorized recyclers
	Operation Phase:			
	Waste	Quantity (kg/day)	Collection Method	Treatment / disposal method
	Bio Degradable	12	Bins	Disposed through Common facility of Industrial Park
	Non Bio Degradable	8	Bins	Disposed through Authorized recyclers
	STP Sludge	0.5ws	Bins	Dried and used as manure for green belt development
13.	Hazardous waste Generation & Mode of Treatment and Disposal.	Category No.	Quantity (TPA)	Mode of Treatment and Disposal
		5.1 Used or spent oil	0.840	Disposal through TNPCB Authorized recyclers.
		23.1 – Organic Waste residue from process	0.540	Disposal through Authorized TSDF for land fill / Co-processing to Cement Industries.
		35.1 Saturated activated carbon.	100 kg/month	Disposal through TNPCB Authorized recyclers for regeneration.
		33.3 Empty Barrels / Containers / Liners contaminated with Hazardous chemicals / wastes.	7.80	Disposal through TNPCB Authorized recyclers.
		35.3 Chemical sludge from waste water treatment	0.5 kg/Day	Disposal through TNPCB Authorized TSDF for land fill


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		(Salt from evaporator)		
		35.3 ATFD Chemical sludge from waste water treatment plant	1 kg/Day	Disposal through TNPCB Authorized TSDF for land fill
14.	Power requirement	200kW from TNEB through SIPCOT. Stand By - DG sets - 3 Nos. (63 KVA, 125 KVA & 250 KVA - 1 No.each.)		
15.	Details of man power	Construction Phase - 10 Nos. Operational Phase – 45 Nos.		
16.	Green belt Area	2008.62 Sq.m (0.5 Acres) 33.3% No. of trees proposed – 500 Nos.		
17.	Provision for rain water harvesting	Rain water harvesting pits – 9 Nos.		
18.	EMP Cost (INR)	Capital cost- Rs. 128.5 Lakhs Recurring cost - Rs. 8.2 Lakhs per annum.		
19.	CER Cost	Rs. 15 Lakhs shall be spent for providing library facility & Sanitation facility including maintenance to Govt. Primary School, Vengadu (Rs. 7.5 Lakhs each) & Pillaipakkam Middle school (Rs. 7.5 Lakhs each)		

Affidavit

I, S. Siva – Managing Director of M/s. Vasavibala Resins Pvt. Ltd., give the declaration/ undertaking that the contents (information and data) of EIA report has been undertaken in the compliance with Terms of Reference (ToR) issued for the project “Proposed manufacturing unit of Polymeric Resins and Formulated Products” at Plot No. S50, SIPCOT Pillaipakkam Industrial Park, Vengadu Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

- I. Total water requirement for the project is 7.22 KLD, out of which fresh water requirement is 4 KLD and remaining 3.22 KLD will be met from recycled water. Fresh water requirements will be met from SIPCOT.

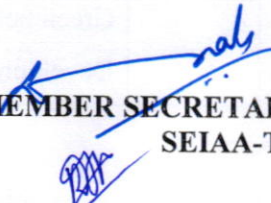
- II. Power requirement for the project will be sourced from TNEB through SIPCOT. Details are given below.

Description	Capacity	Fuel Quantity	Remarks
Power requirement (MW)	200 KW	Nil	From TNEB through SIPCOT
Power backup (DG Set) (KVA)	1x63 kVA 1x125 kVA 1x250kVA	1 KL /Month HSD	From nearby Petrol bunk
Thermic Fluid Heater	1 Lakh K.cal 4 Lakh K.cal 8 Lakh K.cal	9 KL/Month HSD	From nearby Petrol bunk

- III. 8 no. of rainwater harvesting pits will be proposed for the project.
- IV. During Construction 4 kg/d and Operations Phase 20 kg/d quantity of Municipal solid waste will be generated. The details are given below.

Waste	Quantity (kg/day)		Collection method	Treatment / disposal method
	Construction Phase	Operation Phase		
Organic	2.5	12	Bins	Disposed through common facility of Industrial Park
In Organic	1.5	8	Bins	Disposed through authorized vendors
Sewage sludge	-	0.5	Bins	Will be dried and used as manure for green belt.

- V. Hazardous waste materials will be properly disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016. Hazardous waste collection, storage & disposal details are given in table below.


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Description	Waste Category	Quantity	Disposal method
Used oil/ Spent oil	5.1	0.840 TPA	Will be sent to TNPCB authorised recyclers
Organic waste residue from process	23.1	0.540 TPA	Will be sent to Tamil Nadu waste Management Limited for disposal/ Cement industries for co processing
Saturated activated carbon	35.1	100 kg/month	Will be sent to supplier for regeneration
Empty/ discarded drums/ containers/barrels/HDPE Bags	33.3	7.80 TPA	Will be sent to TNPCB authorised recyclers
Salt from evaporator	35.3	1.0 Kg/day	Will be sent to Tamil Nadu waste Management Limited for disposal
ETP sludge	35.3	0.5 Kg/day	

- VI. Sewage generation of 1.6 KLD will be treated in 2 KLD STP and treated sewage will be used for green belt.
Effluent of 2.62 KLD will be treated in 5 KLD ETP followed by MEE & ATFD. MEE & ATFD condensate will be recycled for cooling tower make up.
- VII. Total green belt area of 0.5 Acres, which is 33.3 %, will be proposed for the project.
- VIII. EMP cost of the park is INR 128.5 Lakhs. Details are given below.

S.No	Components	Capital Cost (INR Lakhs)	Recurring Cost (INR Lakhs)
1	Air Pollution control measures	65	1.5
2	STP & ETP	50	1.5
3	Rainwater harvesting	1.5	0.5
4	Green belt Development	2.0	0.5

5	Solid waste Management	10	0.6
6	Environmental monitoring	0	3.6
	Total	128.5	8.2

IX. As per SEAC 343rd SEAC Meeting minutes CER cost is Rs.15 lakhs and the amount shall be spend before obtaining CTO from TNPCB for providing library facility & Sanitation facility including maintenance in Govt. Primary School, Vengadu (Rs. 7.5 Lakhs each) & Pillaipakkam Middle school (Rs. 7.5 Lakhs each).

Declaration

X. The Above named deponent to hereby verify that the statement made by me under para (I) to (IX) is true and correct to the best of my knowledge and belief. Nothing is false and nothing is concealed in it. I am responsible for any misrepresentation of facts.

Appraisal by SEAC:

Proposed Polymeric Resins and Formulated products manufacturing unit at S.F.No.50 of SIPCOT Industrial Park, Pillaipakkam, Vengadu Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by M/s. Vasavibala Resins Pvt. Ltd- For Environmental Clearance

(SIA/TN/IND3/410049/2022 Dt. 13.12.2022)

The proposal was placed in this 343rd SEAC Meeting held on 05.01.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Vasavibala Resins Private Limited has applied for Environmental Clearance along with EIA/EMP report and Minutes of public hearing for the proposed Polymeric Resins (800 MT/ Month) and Formulated Products (250 MT/ Month) manufacturing unit at S.F.No. 50 of Pillaipakkam SIPCOT Industrial Park, Vengadu Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(f) "Synthetic Organic Chemicals" of the Schedule to the EIA Notification, 2006.

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3. ToR with Public hearing issued vide Lr. No. SEIAA-TN/F.No. 7414/SEAC/5(f)/TOR-1142/2020 dt:13.04.2022.
4. Minutes of Public Hearing held on 14.09.2022.

Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC:

1. The project proponent shall provide the Green belt area not less than 33.3% of the total land area including OSR area all along the periphery of the unit and maximum green belt shall be maintained in the down wind direction as reported. Selection of plant species shall (**As per Appendix**).
2. The project proponent shall provide STP of capacity 2 KLD and treated sewage shall be utilized for green belt after meet out the discharge standards prescribed by the CPCB/TNPCB.
3. The project proponent shall provide ETP of capacity 4 KLD with ZLD system (MEE followed by ATFD).
4. The proponent shall provide, operate and maintain adequate Air-pollution control measures for the process area.
5. The proponent shall provide and maintain continuous monitors within and around the premises and ensure that VOC levels are within permissible limits.
6. The proponent shall obtain and maintain valid safety licenses at any time for boiler/Thermic fluid heater, solvent/fuel/raw material/products storage areas etc from the concerned departments before obtaining CTO from TNPCB.
7. All the recommended preventive and safety measures by the concerned authority for the dedicated solvent/fuel/raw material/products storage areas & boiler/Thermic fluid heater shall be completed before obtaining CTO from TNPCB.
8. All the solvent/fuel/raw material/products shall be stored within the permitted storage quantity at any time.
9. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended for the handling and disposal of Hazardous waste to be generated.
10. The proponent shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety study for the worst case scenario in

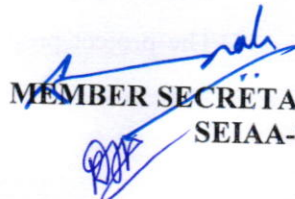
regard to existing safety measures/standard operating procedures adopted for the process/ equipment/utilities for operation & maintenance and the storage areas of products, raw materials, solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and the proponent shall submit the same along with timeline for implementation of the said recommendations to the concerned departments.

11. A detail report on the safety measure and health aspects including periodical audiometry, pulmonary lung function etc. test reports once in a year for all the workers shall be submitted to TNPCB.
12. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health Centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
13. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
14. The proponent shall install solar panels 100% roof top area excluding air& light vent.
15. As accepted by the Project Proponent the CER cost is Rs. 15 lakhs and the amount shall be spent before obtaining CTO from TNPCB, for providing library facility & anitation facility including maintenance to Govt. Primary School, Vengadu (Rs. 7.5 Lakhs each) & Pillaipakkam Middle school (Rs. 7.5 Lakhs each).

Discussion by SEIAA and the Remarks:-

The proposal was placed in the 588th Authority meeting held on 01.02.2023. After detailed discussion, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following condition.

1. As per the MoEF & CC Office Memorandum F. No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the CER Cost Committed by the Project proponent is Rs. 15 Lakhs and the amount shall be spent for providing library facility & Sanitation facility including maintenance to Govt. Primary School, Vengadu (Rs. 7.5 Lakhs each) & Pillaipakkam Middle school (Rs. 7.5 Lakhs each) & All the EMP& CER activities proposed shall be carried out before obtaining CTO from TNPCB.


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2. The Proponent shall store the raw materials within the threshold limit adhering to the guidelines of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended.
3. The project proponent shall provide & maintain adequate capacity STP, ETP with MEE with condenser followed by ATFD, & APC measures with treatment & disposal arrangements & adequate storage area for raw materials/solvent/Hazardous/solid wastes, as committed in EMP adhering to the mode of disposal & discharge standards prescribed by the CPCB/TNPCB.
4. The project proponent shall provide STP & ETP in the elevated closed area above the ground level.
5. The project proponent shall operate & maintain the STP & ETP with MEE with condenser followed by ATFD continuously & efficiently so as to comply with the discharge standards prescribed by the CPCB/TNPCB.
6. No untreated sewage, treated/untreated effluent shall be discharge inside & outside the project premises at any time.
7. The project proponent shall periodically monitor treated/untreated sewage, treated/untreated effluent, Noise levels & AAQ/Stack emission/VOC through the TNPCB laboratory and shall upgrade adequate mitigation measures, safety measures & monitoring mechanism as and when recommended by the competent authority.
8. The project proponent shall provide online/offline sensors/ analyzers for air quality parameters (AAQ/Stack emission), VOC, water quality parameters (sewage/Effluent) linked up to CAC/WQW websites of CPCB/TNPCB for continuous & effective monitoring as recommended by the CPCB/TNPCB before obtaining CTO and shall periodically calibrate the said sensors/analyzers and submit report to TNPCB.
9. The project proponent shall periodically dispose the Hazardous waste generated as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016 as amended.
10. The project proponent shall periodically dispose the solid waste generated as per provisions of Solid waste Management Rules, 2016 as amended.
11. The project proponent, their activities should not cause harm to the natural vegetation/water bodies and other natural resources.
12. The project proponent shall ensure the activities should not cause any damage to the soil and natural seed banks.
13. The project proponent shall provide medical facilities, possibly with a medical officer in the


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project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.

14. The project proponent, there should be no Green House Gases (GHG) emissions. The result in temperature rise and leading to climate changes.
15. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.

Validity:

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

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to

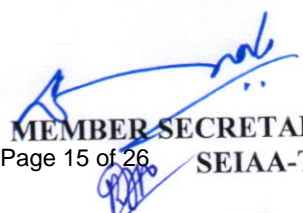

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time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

(B) Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

(C) Water quality monitoring and preservation:


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- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

(D) Noise monitoring and prevention:

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

(E) Safety, Public hearing and Human health issues:

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.


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- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

(F) Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1stMay 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. 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 six-monthly report.


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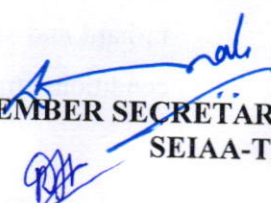
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

(G) Waste management:

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

Air Environment

1. Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.
2. CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.
3. Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
4. Transportation of materials by rail/ conveyor belt, wherever feasible.


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5. Encourage use of cleaner fuels (pet coke/ furnace oil/ LSHS may be avoided).
6. Best Available Technology may be used. For example; usage of EAF/SAF/ IF in place of Cupola furnace. Usage of Supercritical technology in place of sub-critical technology.
7. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.
8. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.
9. Assessment of carrying capacity of transportation load on roads inside the industrial premises.

Water Environment

1. Reuse/recycle of treated wastewater, wherever feasible.
2. Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).
3. A detailed water harvesting plan may be submitted by the project proponent
4. Zero liquid discharge wherever techno - economically feasible.

Land Environment

1. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects.
2. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.
3. Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.
4. More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co processing.
5. Monitoring of compliance of EC conditions may be submitted with third party audit every year.
6. The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

(H) SPECIFIC CONDITIONS:

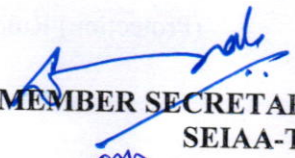
- (i) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.

- (ii) "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.
- (iii) "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.
- (iv) The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
- (v) The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.
- (vi) Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational -health standards and ambient air quality standards.
- (vii) The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
- (viii) Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
- (ix) The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
- (x) The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
- (xi) The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
- (xii) The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
- (xiii) 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.
- (xiv) The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.


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- (xv) The industry shall conduct air sampling at least once in six months for the general core parameters (PM₁₀, PM_{2.5}, SO_x, NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
- (xvi) Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
- (xvii) A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
- (xviii) The Green belt area already developed within the project area shall be properly maintained.
- (xix) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xx) The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
- (xxi) The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
- (xxii) The energy sources for lighting purposes shall preferably be LED based.
- (xxiii) The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
- (xxiv) Risk cum disaster management plan should be in placed in the industry premises at all time.
- (xxv) Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.
- (xxvi) The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
- (xxvii) The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
- (xxviii) All the assurances given in EIA and EMP shall be adhered strictly.

- (xxix) Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
- (xxx) Sufficient funds should be provided for Disaster management.
- (xxxii) The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
- (xxxiii) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
- (xxxiiii) The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.
- (xxxv) The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
- (xxxvi) As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
- (xxxvii) The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
- (xxxviii) The EMP cost and operation and maintenance cost 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.
- (xxxix) There should be no threat to Bio diversity due to the operation of the industry.
- (xl) The flora & fauna present in and around the project site should be get affected due to the activity as reported.
- (xli) The Project Proponent has to provide rain water harvesting collection tank capacity with Recharging pit in order to recover and reuse the rain water during normal rains.
- (xlii) The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.

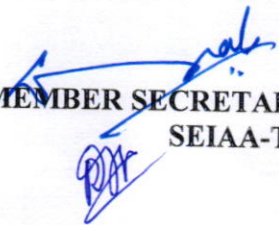

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- (xlii) The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.
- (xliii) The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
- (xliv) The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.


(I) **GENERAL CONDITIONS:-**

- i. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.
- ii. **The Project Proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the Environmental Clearance informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with TNPCB.**
- iii. **A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions/representatives, if any were received while processing the proposal.**
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The Environmental Clearance shall also be put on the website of the company.
- vi. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- vii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional office of MoEF & CC at Chennai, TNPCB and CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- x. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF & CC, GOI, at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public.
- xi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xii. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- xiii. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- xiv. The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).
- xv. A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.
- xvi. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.
- xvii. The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF & CC, GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.


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- xviii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xix. Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.
- xx. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxi. The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.
- xxii. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xxiii. 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.
- xxiv. 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.
- xxv. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
- xxvi. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.


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xxvii. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


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Copy to:

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

Signature Not Verified
Digitally signed by Thiru.Deepak
S.Bilgi
Member Secretary
Date: 3/3/2023 1:26:08 PM
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