



सत्यमेव जयते

File No: 9352
Government of India
Ministry of Environment, Forest and
Climate Change
(Issued by the State Environment
Impact Assessment Authority(SEIAA),
TAMIL NADU)



Date 20/05/2024



To,

Gurumoorthy Ramamoorthy
REDUN PHARMA LLP
Redun Pharma LLP, 7021, Prestige Shantiniketan, ITPL Road, Bengaluru , BENGALURU URBAN,
KARNATAKA, , 560048
gurumoorthy49@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/TN/IND3/455742/2023 dated 23/02/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

Reference:

1. ToR issued vide Letter No.SEIAA-TN/F.No.9352/2022/5(f)/ToR-1249/2022 Dated:30.08.2022
2. Online Proposal No. SIA/TN/IND3/455742/2023, Dated: 04.01.2024
3. Project proponent submitted EIA Report to SEIAA-TN on 10.01.2024

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23B2405TN5612185N
(ii) File No.	9352
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	5(f) Synthetic organic chemicals industry
(vii) Name of Project	Proposed Manufacturing of API & API Intermediates
(viii) Name of Company/Organization	REDUN PHARMA LLP
(ix) Location of Project (District, State)	KRISHNAGIRI, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEac under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 10/05/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. The SEAC, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard conditions as detailed in the point below.
6. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. Gurumoorthy Ramamoorthy under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
7. The Ministry reserves the right to stipulate additional conditions, if found necessary.
8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
9. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
10. **Salient features of the proposal are as follows:**

S. No	Description	Details		
1	Name of the Project	Proposed manufacturing of Active Pharmaceutical Ingredients (API) & API intermediates by M/s. Redun Pharma LLP		
2	Location	Plot No: 6 & 7, Plot No. C-29B, SIPCOT Industrial Park, Bargur-SEZ, Balethottam and Olaipatti Village, Pochampalli and Uthangarai Taluk, Krishnagiri District, Tamil Nadu		
		Site Corner	Latitude	Longitude
		A	12°18'27.68"N	78°25'2.89"E
		B	12°18'25.33"N	78°25'7.08"E
		C	12°18'21.90"N	78°25'5.07"E
		D	12°18'24.25"N	78°25'1.00"E
		E	12°18'24.44"N	78°25'0.97"E
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	17680 Sq.m (4.37 acres)		
		Description	Area in Square Mtr	
		Ground Coverage	2187.00	
		Green Belt	5935.00	
		Roads	3525.00	
		Parking Area	300.00	
		Future Expansion	2828.00	
		Open Area	2905.00	
		Total	17680.00	
5	Cost of Project (INR)	Rs. 26.32 Crores		

6	Brief description of the project	Products	CAS No	Proposed Quantity (TPA)	Drug Usage
		Products (API)			
		Dorzolamide Hydrochloride	130693-82-2	2.4	Glaucoma Treatment
		Nebivolol Hydrochloride	152520-56-4	6	Hypertension Treatment
		Total		8.4	
		Byproducts - Distilled			
		Isopropyl Alcohol (IPA)	67-63-0	6.7	Solvent
		Acetic Acid	64-19-7	35.87	Solvent
		Ethyl Acetate	141-78-6	72.19	Solvent
		Total		114.76	
7	Mass balance: Nebivolol Hydrochloride				
	INPUT	Qty (Kg)	Output	Qty (Kg)	Output Destination
	Para Fluoro Phenol	80			
	Acetyl Chloride	71.5			
	Aluminium Chloride	105.6	Aluminium Chloride	105.6	Solid Waste after Treatment and disposed as Salt
	Sodium Bicarbonate	21.9	Sodium Bicarbonate	7.5	
	Diethyl Oxalate	172.48	Diethyl Oxalate	83.24	Raw Material Recycled to Next Batch
	Sodium Methoxide	133.78			
	Pd/C	10.4	Pd/C	10.4	To Atmosphere
	H2 Gas	30	H2 Gas	28.66	
	Sodium Hydroxide	36	Sodium Hydroxide	15.16	Solid Waste after Treatment and disposed as Salt
	Activated Carbon	4			
	Dimethyl Formamide	3	Dimethyl Formamide	3	Solid Waste after Treatment and disposed as Salt
	Thionyl Chloride	53	Thionyl Chloride	13	
	Morpholine	99			
	Vitride	98			
	Sodium Sulphate Anhydrous	8	Sodium Sulphate (Anhydrous)	8	Solid Waste after Treatment and disposed as Salt
	Dimethyl Sulphoxide	132			
	Sodium Hydride	20			
	Trimethyl Sulfoxonium Iodide	100			
	Anhydrous Sodium Sulphate	8	Anhydrous Sodium Sulphate	8	Solid Waste after Treatment and disposed as Salt
	Silica Gel	73.2	Silica Gel	73.2	
	Benzyl Amine	61.13	Benzyl Amine	43.46	
			Acetonitrile	32.34	
	Acetonitrile	38.39	Acetonitrile	6	Directed to scrubber and after dilution going to ETP
			Di Isopropyl Ether	92.22	Solid Waste after Treatment and disposed as Salt
	Di Isopropyl Ether	98.27	Di Isopropyl Ether	6	Directed to scrubber and after dilution going to ETP
Hydrogen Gas	2	Hydrogen Gas	2.69	To Atmosphere	
Isopropyl Alcohol	202	Distilled Isopropyl Alcohol	193.3	Raw Material Recycled to Next	

				Batch
		Isopropyl Alcohol	12.2	Directed to scrubber and after dilution going to ETP
		Isopropyl Alcohol	1.8	Mixture Will Be Taken To Incineration
Hydrogen Chloride	280.85	Distilled Hydrogen Chloride	4.32	Raw Material Recycled to Next batch
		Methanol	2179	Solvent Recycle to next batch
Methanol	2286.88	Methanol	4	Mixture Will Be Taken To Incineration
		Methanol	97.11	Directed to scrubber and after dilution going to ETP and as Vapour after treatment
Toluene	3180	Toluene	3172	Solvent Recycle to next batch
		Toluene Vapour Condensed & Collected	15.39	Directed to scrubber and after dilution going to ETP and as Vapour after treatment
Chloroform	1223	Chloroform	1202	Solvent Recycle to next batch
Ethyl Acetate	228.5	Chloroform	21	Vapour after Treatment
		Ethyl Acetate	228.5	Solvent Recycle to next batch
		Acetic Acid	508	Solvent Recycle to next batch
Acetic Acid	548	Acetic Acid	22	Solid Waste after Treatment and disposed as Salt
Hexane	368	Hexane	368	Solvent Recycle to next batch
D.M. Water And Process Water	5017.15	Process Water	4963.77	Recycled after Treatment
Intermediate NBL -I to VIII	471	Water Vapour	44	To Atmosphere
		Intermediate NBL -I to VIII	471	Intermediate Product to next stage
		Nebivolol Hydrochloride	17.91	Final Product
		Residue	1005.674	Process Effluent directed to MEE in continuation with ATFD and finally as salt which will be sent to TSDF
		Hydrogen Chloride	149.44	
		Hydrogen Chloride	11.04	
		Sulphur Dioxide	19.38	Directed to scrubber and after dilution going to ETP and after treatment going as vapour
		Sulphur Dioxide	2.153	
		Methane Gas	5.8	
		Carbon Dioxide	7.47	
Total	15265	Total	15265	
Dorzolamide Hydrochloride				
INPUT	Qty (Kg)	OUTPUT	Qty (Kg)	Output Destination
Hydroxy Butyrate	77.4			
Hexane	25.8	Hexane	25.8	Directed to scrubber and after dilution going to ETP
2 Bromo Thiophene	92			
Magnesium	84.81			
Sulphur Powder	18.68			
Triethyl Amine	32.17	Triethyl amine	8.45	Solid Waste after Treatment and disposed as Salt
Anhydrous Sodium Sulphate	45.93	Anhydrous Sodium Sulphate	45.93	Raw Material RECYCLE to next batch
Dimethyl Formamide	33.76	Dimethyl Formamide	33.76	Solid Waste after Treatment and disposed as Salt

Stannic CHLORIDE	79.37			
Activated Carbon	5.33	Activated Carbon	5.33	Solid Watste after Treatment and disposed as Salt
Sodium Borohydride	26			
Para Toluene Sulphonyl Chloride	248.98			
Pyridine	154.89	Pyridine	65.96	Solid Watste after Treatment and disposed as Salt
Sodium Bicarbonate	69.34	Sodium Bicarbonate	58.76	
		Sodium Sulphate	87.33	Raw Material RECYCLE to next batch
Sodium Sulphate	141.66	Sodium Sulphate	54.33	Solid Watste after Treatment and disposed as Salt
Ethyl Amine	28.33			
Sodium Perborate	65.27			
Chloro Sulphonic Acid	43.15			
Thionyl Chloride	175.89			
Sodium Chloride	364.34	Sodium Chloride	371.71	Solid Watste after Treatment and disposed as Salt
Ammonia	23.67	Ammonia	20.93	Directed to scrubber and after dilution going to ETP
Hydrogen Chloride	184.36	Hydrogen Chloride	207.93	Directed to scrubber and after dilution going to ETP
		Distilled Tetrahydrofuran	772.03	Solvent Recycle to next batch
Tetrahydrofuran	825.73	Tetrahydrofuran	53.7	Directed to scrubber and after dilution going to ETP
Methylene Chloride	8137.31	Distilled methylene Chloride	8128.46	Solvent Recycle to next batch
		Distilled Acetone	1577.33	Solvent Recycle to next batch
Acetone	1598.67	Acetone	21.34	Directed to scrubber and after dilution going to ETP
Methanol	473.33	Distilled Methanol	473.33	Solvent Recycle to next batch
		Ethanol	123.1	Solvent Recycle to next batch
Ethanol	130	Ethanol Vapour	6.9	Directed to scrubber and after dilution going to ETP
Acetic Acid	326.66	Distilled Acetic Acid	321.33	Solvent Recycle to next batch
		Acetic Acid	5.33	Solvent Recycle to next batch
		Distilled Ethyl Acetate	706.67	Solvent Recycle to next batch
Ethyl Acetate	738.34	Ethyl Acetate Vapour	21.67	Directed to scrubber and after dilution going to ETP
		Ethyl Acetate	10	Solid Watste after Treatment and disposed as Salt
Water	7461.35	Water	7324.92	Process Effluent directed to MEE
		water	85.4	To Atmosphere
Intermediate DRZ-I-VIII	690.45	Intermediate DRZ-I-VIII	690.45	Intermediate Product to next stage
		Methylene Chloride vapour	0.5	
		Sulphur Dioxide	90.54	Directed to scrubber and after dilution going to ETP and after treatment going as vapour
		Degradation Products Of Para Toluene Sulphonic Acid	1.67	
		H2 gas	2.45	
		Hydrogen Gas	4.55	To Atmosphere
		Carbon Dioxide	5.54	
		Residue	946.81	Mixture Will Be Taken To Incineration
		Sulphur Dioxide	4.28	Directed to scrubber and after dilution going to ETP and after treatment going
		Sulphur Trioxide	9.05	

		Methylene Chloride	5.66	as vapour
		Hydrogen Peroxide	2.2	
		Dorzolamide Hydrochloride	21.5	Final Product
	22403		22403	
		To Scrubber and as Vapour after treatment		
		Solid Waste to TSDF		
		Directed to MEE for Recycle and Solid waste		
		Intermediates		
		Solvent		
	TEXT	Raw Material		
		Raw Material Recovery		
8	ToR details	Letter No.SEIAA-TN/F.No.9352/2022/5(f)/ToR-1249/2022 Dated:30.08.2022		
9	EIA report submitted on	10.01.2024		
10	a) Water requirement: Total water requirement - 111.5 KLD Fresh water requirement - 83.5 KLD Recycled water - 28 KLD			
	S.No	Description	Fresh Water Consumption (KLD)	Water Recycled & Reused (KLD)
	1	Manufacturing Process	10	0
	2	Domestic	6.5	0
	3	Industrial Equipment Washing/Cleaning	5.0	0
	4	Greenbelt	15	5
	5	Boiler	27	0
	6	Cooling Tower Makeup	15	23
	7	Scrubber	5.0	0
		Total	83.5	28
	b) Source of water		SIPCOT	
11	Sewage generation, treatment, and disposal	Sewage Generation – 5 KLD STP capacity – 7 KLD 1. Bar Screen Chamber 2. Collection Tank 3. MBBR Tank 4. Settling Tank 5. Sludge Drying Bed 6. Filter Feed Tank 7. Pressure Sand Filter 8. Activated Carbon Filter Treated sewage (5 KLD) will be used for green belt development.		
12	Effluent generation, treatment and disposal	HTDS	Process	10 KLD
		LTDS	Equipment Washing	5 KLD
			Scrubber	5 KLD
			Boiler	3 KLD
			Cooling Tower Blowdown	3 KLD
		Effluent Generation		26 KLD

		<p>ETP capacity – 30 KLD</p> <ol style="list-style-type: none"> 1. Bar Screen Chamber 2. Equalization Tank 3. Neutralization Tank 4. Flocculation Tank 5. Primary Settling Tank 6. Aeration Tank 7. Secondary Settling Tank 8. Filter Feed Tank 9. Pressure Sand Filter 10. Activated Carbon Filter <p>The process effluent (HTDS) will be treated in Multiple Effect Evaporator (15 KLD), the effluent (LTDS) from Boiler, Washing, Cooling Tower & Scrubber will be treated in ETP (30 KLD) followed by RO Filtration. The MEE condensate (11 KLD) & RO permeate (12 KLD) will be re-used in Cooling Tower makeup and the RO reject (4 KLD) will be sent to MEE. The MEE concentrate will be taken to ATFD, Salts (300 kg/day) generated from ATFD will be disposed to nearby TSDF (TNWML). So, there will be no discharge of wastewater outside and Zero Liquid Discharge system will follow.</p>			
13	Quantity of Solid Waste generated per day (in Kgs), Mode of treatment and Disposal of Solid Waste	Construction Phase:			
		S. No	Type	Quantity Kg/day	Method of Disposal
		1	Organic waste	16.2	Disposed through local bins
		2	Inorganic waste	10.8	TNPCB authorized recyclers
		Operational Phase:			
		S. No	Type	Quantity Kg/day	Method of Disposal
1	Organic waste	33.75	Disposed through local bins		
2	Inorganic waste	22.5	TNPCB authorized recyclers		
14	Hazardous waste Management:				
	Type Of Waste	Category	TPA Proposed (in TPA)	Storage	Utilization/ Disposal
	Empty barrels, Containers / Liners contaminated with Hazardous chemicals	33.1	10	Stored in Dedicated Rooms provided for in the ETP.	Will be stored in secure manner and hand over to TNPCB Authorized recycler
	Chemical Sludge from Wastewater Treatment	35.3	651		Will be stored in secure manner and hand over to TNPCB Authorized TSDF, As per HWM, rules 2016
	Concentration or evaporation residues	37.3	35		Will be stored in secure manner and handed over to TNPCB Authorized TSDF, As per HWM, rules 2016
	Used or Spent Oil	5.1	1		Will be collected in leak proof containers and disposed only to TNPCB registered Authorized re-processor.
	Off Specification Products	28.4	0.5		Will be stored in secure manner and handed over to TNPCB Authorized incinerator.
	Spent Carbon	28.3	1		Will be sent to the Authorized Agency for disposal as Landfill/other as per the consent of Tamil Nadu Pollution Control Board.
Process Residue	28.1	166.3	Will be stored in secure manner and handed over to TNPCB Authorized incinerator.		

	Distillation Residue (Solvent Distillation)	36.1	60	Will be sent to the Authorized Agency for disposal as Landfill/other as per the consent of Tamil Nadu Pollution Control Board.	
	Total		924.8		
15	Power requirement	500 kVA from TANGEDCO			
16	Details of D.G. set with Capacity	1 No. of 350 kVA			
17	Fuel requirement	Details	Quantity	Source	
		Rice Husk Briquettes	480 Kg/Hr	Local Supply	
		HSD Requirement	80 Liters / hr	Local Supply	
18	Air Pollution Control Measures (Stack)	Point Emission Source	Fuel Type	Fuel Quantity	Stack Details
				No. of stacks	Height (m)
		DG set – 1 No. of 350 KVA	HSD	80 LPH	1 11
		2 TPH – Boiler	Rice Husk Briquettes	11.52 TPD	1 30
		Process Plant – Scrubber Stack	-	-	1 10
		<ul style="list-style-type: none"> • Bag filter with stack height of 30 m is proposed for boiler. • Scrubber will be provided for process vent 			
19	Details of manpower	Stage	Manpower (No)		
		Construction Phase	60		
		Operation Phase	125		
20	Details of Green Belt Area	5935 Sq.m (33.57% of total area) 1780 numbers of trees will be planted			
21	Details of Parking Area	300 Sq.m			
22	Provision for rainwater harvesting	40 Nos of Recharge pits and 1 UG sump tank with capacity of 100 KL			
23	EMP Cost (INR)	Capital cost – Rs. 201 Lakhs Recurring cost – Rs. 37.25 Lakhs per annum			
24	CER activity	S. No	Activities	Within 1 year from the date of issue of EC	
		1	Government School, Aylampatti • Sanitation facility & Drinking water plant • Avenue Plantation along the School Boundary • Library & Solar lighting • Painting the main classrooms	Rs. 26,32,000	
		2	Government Higher Secondary School, Gerigepally • Sanitation facility & Drinking water plant • Library & Solar lighting • Painting the main classrooms • Avenue Plantation along the School Boundary	Rs. 26,32,000	
		Total in Rupees			Rs. 52,64,000

11. General Instructions:

(a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

(b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

(c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.

(d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

(f) The Regional Office of this Ministry 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.

(g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. This issues with the approval of the Competent Authority

Copy To

1. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, 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 Chairperson, 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, Krishnagiri District.
7. Stock File.

Annexure 1

Specific EC Conditions for (Synthetic Organic Chemicals Industry)

1. Seiaa Specific Conditoin

S. No	EC Conditions
1.1	<ol style="list-style-type: none">1. The PP shall furnish the Fire NOC obtained from the Tamil Nadu Fire & Rescue Services Department before applying for CTE.2. The PP shall furnish the Disaster Management Plan before applying for CTE.3. The PP shall furnish the Risk Assessment and Evacuation Plan before applying for CTE.4. The PP shall conduct periodical medical checkup for their employees and to the village peoples in and around the industry premises and furnish the report.5. The PP shall ensure that there is no Green House Gases (GHG) emissions resulting in temperature rise and leading to climate changes.6. The PP shall ensure that the said industrial activity should not affect the nearby water bodies located around the industry premises.

S. No	EC Conditions
	<p>7. The PP shall ensure that the said industrial activity adhere to the Sustainable Development Goals (SDG).</p> <p>8. 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.</p> <p>9. The project proponent shall provide & maintain adequate capacity STP, ETP with ZLD, & 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.</p> <p>10. The project proponent shall provide STP & ETP in the elevated closed area above the ground level.</p> <p>11. The project proponent shall operate & maintain the STP & ETP with ZLD continuously & efficiently so as to comply with the discharge standards prescribed by the CPCB/TNPCB.</p> <p>12. No untreated sewage, treated/untreated effluent shall be discharged inside & outside the project premises at any time.</p> <p>13. 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.</p> <p>14. 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.</p> <p>15. 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.</p> <p>16. The project proponent shall periodically dispose the solid waste generated as per provisions of Solid waste Management Rules, 2016 as amended.</p> <p>17. The project proponent shall ensure that the project activities do not cause harm to the natural vegetation/water bodies and other natural resources.</p> <p>18. The project proponent shall ensure that the project activities do not cause any damage to the soil and natural seed banks.</p> <p>19. The project proponent shall provide medical facilities, possibly with a medical officer in the project site for continuously monitoring the health of construction workers during COVID and Post - COVID period.</p> <p>20. The project/ project activities should not impact the soil microflora and fauna, biodiversity and water regime of the surrounding area.</p> <p>21. There should not be any leakage or spillover from the project impacting the environment.</p> <p>22. As the plant operation involves 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 outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.</p>

Affidavit

I, Gurumoorthy (Director) Authorized Signatory, representing M/s Redun Pharma LLP for “Proposed Manufacturing of API & API Intermediates” at Plot No. 6 & 7, SIPCOT Industrial Park, SEZ, Bargur Krishnagiri District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

1. We will provide ETP of capacity 30 KLD with ZLD system.
2. We will obtain and maintain valid safety licenses from the concerned department for boiler, solvent/fuel/raw material storage areas etc.
3. We will provide, operate and maintain adequate Air-pollution control measures for the process area.
4. As accepted by us, the CER cost of Rs. 52.64 lakhs and the amount shall be spent for the below activities as committed, before obtaining CTO from TNPCB.

As per CER Notification, the 2.0% of project Cost (INR 26.32 Crore) i.e. INR 52.64 lakhs need to spend for CER activities. As per the Latest OM F.No. 22-65/2017-IA.III dated: 30.09.2020, it will be spent as per SEAC recommendation and our proposal as follows:

S.no	Activities	Within 1 year from the date of issue of EC
1	Government School, Aylampatti • Sanitation facility & Drinking water plan • Avenue Plantation along the School Boundary • Library & Solar lighting • Painting the main classrooms	26,32,000
2	Government Higher Secondary School, Gerigepally • Sanitation facility & Drinking water plant • Library & Solar lighting • Painting the main classrooms • Avenue Plantation along the School Boundary	26,32,000
Total in Rupees		Rs.52,64,000

5. 100% of the roof coverage should be specifically allocated for solar panels and should be used for the generation of solar energy.
6. We will continuously monitor the VOC and ensure that VOC levels are within permissible limits.

7. We will strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.

Type Of Waste	Category	TPA Proposed (in TPA)	Storage	Utilization/ Disposal
Empty barrels, Containers / Liners contaminated with Hazardous chemicals	33.1	10	Stored in Dedicated Rooms provided for in the ETP.	Will be stored in secure manner and hand over to TNPCB Authorized recycler
Chemical Sludge from Wastewater Treatment	35.3	651		Will be stored in secure manner and hand over to TNPCB Authorized TSDF, As per HWM, rules 2016
Concentration or evaporation residues	37.3	35		Will be stored in secure manner and handed over to TNPCB Authorized TSDF, As per HWM, rules 2016
Used or Spent Oil	5.1	1		Will be collected in leak proof containers and disposed only to TNPCB registered Authorized re-processor.
Off Specification Products	28.4	0.5		Will be stored in secure manner and handed over to TNPCB Authorized incinerator.
Spent Carbon	28.3	1		Will be sent to the Authorized Agency for disposal as Landfill/other as per the consent of Tamil Nadu Pollution Control Board.
Process Residue	28.1	166.3		Will be stored in secure manner and handed over to TNPCB Authorized incinerator.
Distillation Residue (Solvent Distillation)	36.1	60		Will be sent to the Authorized Agency for disposal as Landfill/other as per the consent of Tamil Nadu Pollution Control Board.
Total		924.8		

8. We will 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.

9. 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 will be submitted to TNPCB.

10. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities will 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.

11. As per the MoEF &CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, We will adhere the EMP as committed.

S. No	Particulars	Capital Investment (Rs in Lakhs)	Recurring Cost per Annum (Rs in Lakhs)
		Proposed	
Environment Management Plan			
Water Pollution Control			
1	ETP	35	8
2	MEE and RO	90	12
3	STP	10	2
Noise Pollution Control			
4	DG Acoustics	5	0.25
Environmental Monitoring			
5	Environmental Monitoring by third party	7	1
Air Pollution Controls			
6	Bag Filter	7	0.5
7	Scrubber	11	0.5
8	Ash Handling System	7	1
Solid Waste Management			
9	Solid Waste Management	5	3
Greenbelt			
10	Greenbelt Development	11	3

Hazardous Waste Management			
11	Hazardous Waste Management	8	5
Storm Water and Rain water harvesting management			
12	Storm Water and Rain water harvesting management	5	1
Total		201	37.25

SEAC SPECIFIC CONDITION:

1. The project proponent shall provide ETP of capacity 30 KLD with ZLD system.
2. The proponent shall obtain and maintain valid safety licenses from the concerned department for boiler, solvent/fuel/raw material storage areas etc.
3. The proponent shall provide, operate and maintain adequate Air-pollution control measures for the process area.
4. 100% of the roof coverage should be specifically allocated for solar panels and should be used for the generation of solar energy.
5. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
6. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
7. 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.
8. 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.
9. 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.
10. 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.

11. As accepted by the Project Proponent the CER cost of Rs. **52.64 lakhs** and the amount shall be spent for the below activities as committed, before obtaining CTO from TNPCB.

