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State Level Environment Impact Assessment Authority (SEIAA) Andhra Pradesh Ministry of Environment, Forests & Climate Change Government of India D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamavari Street, Kasturibaipet, Vijayawad-520010

REGD.POST WITH ACK. DUE

Order No. SEIAA/AP/VSP/IND/11/2021/3653/185.24&182.21

- Sub: SEIAA, AP Establishment of Laurus Captive Effluent Treatment Plant (LETP) by M/s. Laurus Labs Limited of 3 MLD Design Capacity and 4.5 MW Captive Power Plant (CPP) at Plot No. 18B, Atchuthapuram, APSEZ, De-notified Area, Moturupalem Village, Gurajapalem Village & Pudi Village, Rambilli (M), Visakhapatnam, Andhra Pradesh– Environmental Clearance -Issued – Reg.
- I. This has reference to your EC application submitted through online on 29.03.2022 (SIA/AP/MIS/69233/2021), seeking Environmental Clearance for Establishment of Laurus Captive Effluent Treatment Plant (LETP) of 3 MLD Design Capacity and 4.5 MW Captive Power Plant (CPP) at Plot No. 18B, Atchuthapuram, APSEZ, De-notified Area, Moturupalem Village, Gurajapalem Village & Pudi Village, Rambilli (M), Visakhapatnam, Andhra Pradesh in favour of M/s. Laurus Labs Limited. The nearest human habitation viz., Chinnapudi (V) exists at a distance of about 1.7 km from the premises. The total area of the site is 17.98 acres. The total cost of the project is Rs.184.44 Crores. The details of the project are as follows:
 - 3 MLD design capacity Laurus Captive Effluent Treatment Plant to treat the effluents generated LETP and Laurus group of units of total 6 Nos, in the same industrial area and with 1 MLD HTDS resulting in condensate of 810 KLD (HTDS) along with 1640 KLD of LTDS effluent totalling to 2460KLD of total LTDS effluents to be treated in 3 MLD Biological Treatment Plant so as to meet the Marine disposal standards. The treated effluent shall be transported to AETL for onward disposal to marine outfall. The marine disposal will be the responsibility of AETL Atchuthapuram.
 - 2. 4.5 MW Captive Power Plant (CPP)

The proposal has been examined and processed in accordance with EIA Notification, 2006 & its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the proposal in its meeting held on **27.04.2022**. The proposed project is Establishment of Laurus Captive Effluent Treatment Plant (LETP) of 3 MLD Design Capacity and 4.5 MW coal based Captive Power Plant (CPP) at Plot No. 18B, Atchuthapuram, APSEZ, De-notified Area, Moturupalem Village, Gurajapalem Village & Pudi Village, Rambilli (M), Visakhapatnam, Andhra Pradesh. As per the EIA Notification S.O. 1533 (E) dated 14-09-2006 and its amendments thereof, proposed project falls under the Activity - 7(h) - Common Effluent Treatment Plants (CETPs). Proposed project and the 6 member industries from Laurus Group whose effluent will be treated are all located in APIIC Industrial area and hence the project is considered under Catergory-B1. All the CETP projects will be considered at State level SEAC/ SEIAA. The representative of proponent and their consultant M/s. SAMRAKSHAN

have attended the meeting. The Committee noted that the proposed project by M/s. Laurus Labs Limited is to establish LETP of 3 MLD design capacity in an area of 17.98 acres to treat the effluents generated at Laurus group of units of total 6 units in the same industrial area. Proposed LETP of 3 MLD capacity consists of primary (only for LETP effluent), Thermal treatment consisting of Steam Stripper, MEE & ATFD followed by Biological treatment with ASP with extended aeration and tertiary treatment using ACF & PSF and in case required UF, NF & RO/Oxidation. Treated effluent after confirming to marine disposal standards is sent to M/s. AETL for onward marine disposal after meeting marine disposal standards. Proposed project also includes 4.5 MW Captive Power Plant. Auto TOR was generated on 01.12.2021. Proposed Project Cost is Rs. 184.44 crores. Capital Cost towards EMP would be Rs. 184.44 crores and Recurring cost would be Rs. 84 crores per annum. Total water required for the proposed project will be about 725 KLD. Fresh water is sourced through APIIC supply. Effluent generated at individual Laurus units is segregated into HTDS and LTDS streams. The segregated streams are given primary treatment and separately sent to LETP for further treatment. The transportation of effluent is through dedicated and GPS enabled tankers. Total effluent treated in the LETP will be about 1000 KLD of HTDS/HCOD effluent and 1640 KLD of LTDS/LCOD Effluent. Unit wise breakup of anticipated effluent is given below:

SI.	Description	Anticipated Waste water Generation (KLD)		
INO.	12 AND DE	HTDS	LTDS	
1	Laurus Labs Ltd. Unit-2	40.25	200	
2	Laurus Labs Ltd., Unit-4	275	450	
3	Laurus Labs Ltd., Unit-6	163.2	150	
4	Laurus Labs Ltd., Unit-8	275	450	
5	Laurus Synthesis Pvt. Ltd. Unit-2	150	170	
6	Laurus Synthesis Pvt. Ltd. Unit-4	90	70	
7	LETP (Boiler, Cooling towers, Domestic)	mount	150	
Total	activity State	993.45	1640	

HTDS and LTDS effluent characteristics are given below:

	HTDS		LTDS	Combined	LETP	
Parameter	Inlet	Outlet	Inlet	stream Inlet	Outlet to AETL	
Quantity (KLD)	1000	810	1640	2460	2400	
pН	5.5-8.5	5.0-9.0	5.5-8.5	5.0-9.0	6.0-9.0	
TDS (mg/l)	12000 - 100000 mg/l (Average of 65000 to 70000 mg/l)	500	<12000mg/l (Average of 4000 to 5000 mg/l)	<2500		
COD (mg/l)	8000 mg/l to 100000 mg/l (Average of 25000 to 30000 mg/l)	15000	<8000mg/l (Average of 2500 to 3000 mg/l)	<10000	<250	

The treated effluent will be stored in Guard ponds at LETP for Bio-Assay. After completing the Bio-Assay test and ensuring that the water meets the standards for marine disposal as prescribed in EP rules for marine discharge, the treated effluent will be sent to guard pond at AETL for onward marine disposal. Presently the treated effluent will be transported to M/s. AETL using dedicated and GPS enabled tankers till the pipeline for transportation is laid after obtaining necessary permissions for the same from APIIC. LETP has approached APIIC for usage of their Guard ponds for onward marine disposal, which has been accepted and acknowledged by APIIC. ESP to be installed for 35 TPH boiler and 2 x 24 TPH boilers to control the particulate (PM) emissions within statutory limit of 115 mg/Nm3. Proposed 3 nos. of 2000 KVA DG sets to meet the standby power requirements.

Sl. No.	Source	Estimated Quantity (TPD*)	StreamofHWM2016and	Handling Method	Disposal
1.	ETP Sludge	40	35.3 of Schedule–I	Stored in Drums/ Tanks	TSDF for secure land filling/ Authorized cement plants for Co- Processing /Authorized AFR facility.
2.	Distillate from Stripper /Spent Distilled solvents from Stripper	100	28.6 of Schedule-I		To authorized recovery units or Authorized pre- processors/cement industries for co- processing
3.	Evaporation Salts from ATFD	100	35.3 of Schedule–I	10 th	To TSDF for secured land filling or To pre- processors/ cement industries for co-processing
4.	Boiler Ash	120	-	Stored in covered area	Send to Brick Manufacturers
5.	 a) Detoxified Container/ Liners drums, HDPE Carboys, Fiber drums b) PP Bags 	200 Nos./ month 1000	33.1 of Schedule-I	Designate d covered area	Disposed to SPCB Authorized agencies after complete detoxification Disposed to SPCB
		kg/month			Authorized agencies after complete detoxification
6.	Used oils & Grease	4 KL/annum	5.1 of Schedule -I	Stored in Drums	Sent to SPCB Authorized agencies for reprocessing/

Hazardous/Solid Waste Generation, Handling and Disposal

					recycling.
7.	Used Lead acid	60	A1160 of	Designate	Sent to suppliers on
	Batteries	No's/	Schedule-III	d covered	buy-back basis.
		Annum		area	
	Misc. Waste	Lumpsum		Stored in	TSDF for
	(spill control			Drums	incineration/Authorized
8.	waste)				cement plants for Co-
					Processing/ Authorized
					AFR facility.
9.	E-waste	Lumpsum		Designate	Authorized re-processor
		_		d covered	or TSDF
				area	
	Waste papers &	Lumpsum		-	Sold to scrap vendors
10	other types of				
	packing scrap				
	Canteen waste	Lumpsum		Manual	Composted on site and
11					reused for greenbelt
		-	- Filte		

The proponent volunteered to allocate funds 1.5% of the project towards Corporate Environment Responsibility (CER). The Committee after examining the project proposals, presentations, MoEF&CC Notifications & OMs and detailed deliberations, recommended to issue **environmental clearance**. The committee in the appraisal report clearly stated that they have approved the Form-II, EIA for compliance by the proponent. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **11.05.2022** examined the proposal and the recommendations of SEAC and decided to accept SEAC recommendations aforesaid for strict compliance by the proponent and to issue EC. The SEIAA, A.P hereby **accords Environmental Clearance to the project** as mentioned at Para No.I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

Part A. Special Conditions

- i. The proposal shall not attract the following Acts & Rules:
 - a. Forest Act 1980,
 - b. Wild life (Protection) Act, 1972;
 - c. CRZ Notification, 2011;
 - d. The Eco sensitive areas as notified under Environment (Protection) Act,1986;
 - e. Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.
- ii. The proponent shall obtain permission from Ground water department (if applicable).
- iii. The facility shall treat the segregated HTDS 1.0MLD (993.45 KLD) resulting in condensate of 820 KLD (LTDS) and LTDS effluents of 1640KLD from 6 Nos of Laurus group of units located within the same industrial area totalling to 2460 KLD to be treated in 3.0MLD Biological Treatment Plant. The treated effluent will be stored in Guard ponds at LETP for Bio-Assay. After completing the Bio-Assay test and ensuring that the treated water meets the standards for marine disposal as prescribed in EP rules for marine discharge, the treated effluent will be sent to AETL.

- iv. The LETP shall handover the treated effluents after meeting the standards of marine disposal to AETL for onword marine disposal.
- v. The LETP shall not discharge the effluent into marine directly.
- vi. The facility shall not accept any effluent from any other industry located within or outside the same industrial area other than that of Laurus Group of industries, that are located within same industrial area.
- vii. The proponent volunteered to allocate funds 1.5% of the project towards Corporate Environment Responsibility (CER) activity.
- viii. The facility shall implement monitoring of waste factors for different streams of effluents and solid waste.
- ix. The facility shall establish suitable scrubbing system in consultation with the APPCB.
- x. The facility shall provide hazardous waste container (drums) cleaning/washing system.(Container detoxification)
- xi. The facility shall provide flow meter to measure quantity of stream consumed for MEE system.
- xii. The facility shall provide magnetic tamper proof flow meters to measure quantity of different streams of effluents generated and routed through the treatment systems.
- xiii. The facility shall provide steam stripping system to handle volatile matter in the effluents.
- xiv. The facility shall send hazardous waste to the authorized cement industries/ TSDF/authorized recyclers by properly maintaining the system.

Part B. Specific Conditions:

Air & Noise Environment:

- 1. The emissions from the proposed Boilers of capacity 1 x 35 TPH and 2 x 24 TPH shall be routed through ESP with the stack type and height fixed in consultation with the APPCB. Adequate stack height shall be provided for D.G. Sets of capacities 3 x 2000KVA as per CPCB norms. Steam generated from 35 TPH boiler will be utilized by other Laurus units located adjacent to LETP.
- 2. Any emissions from the ETP shall be routed through two stages scrubber system. Scrubbed liquid shall be treated and reused or subjected to MEE.
- 3. Strict measures shall be taken to control odour with appropriate odour abatement methods. Sub coolers for brine circulation shall be installed to reduce solvent evaporation losses in to the atmosphere. The proponent shall install VOC meter in the plant to monitor.
- 4. The area of the greenbelt shall not be less than 23.89% of the total area of the site. Greenbelt with tall growing trees shall be developed along the boundary of the site.
- 5. The proponent should provide appropriate PPE to the persons working in the facility and suitable to their work place environment.
- 6. The proponent shall establish adequate number of air monitoring stations, including one online station, in consultation with the APPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, GoI on 16.11.2009.
- 7. Measures shall be taken to comply with the provisions made under "Noise pollution

(Regulation and control) Amendment Rules 2010 dated 11-01-2010 issued by MoEF.

Water Environment:

 The total water requirement for LETP shall not exceed 725 KLD. Quantity of water used for Boiler –400.0 KLD; Cooling Tower – 240.0 KLD; Scrubber – 55 KLD; Domestic – 10 KLD; Gardening – 20 KLD.

Waste water generation:

- The total waste water generation from LETP is 150 KLD, Out of that; Boiler blow down 67 KLD, Cooling tower bleed 20 KLD, Scrubber 55 KLD, Domestic 8 KLD.
- 10. Proposed LETP of 3 MLD design capacity treating HTDS 1.0MLD (993.45KLD) resulting in condensate of 810 KLD (HTDS) and LTDS effluents of 1640KLD from 6 Nos of Laurus group of units located within the same industrial area totalling to 2460KLD to be treated in 3.0MLD Biological Treatment Plant. The effluent treatment plant consists of primary (only for LETP effluent), Thermal treatment consisting of Steam Stripper, MEE & ATFD for High TDS effluent from Laurus Industries followed by Biological treatment with ASP with extended aeration and tertiary treatment using ACF & PSF and in case required UF, NF & RO/Oxidation. Treated effluent after confirming to marine disposal standards is sent to M/s. AETL for Marine disposal.

Sl.	Description	Anticipated Waste water Generation (KLD)		
190.		HTDS	LTDS	
1	Laurus Labs Ltd. Unit-2	40.25	200	
2	Laurus Labs Ltd., Unit-4	275	450	
3	Laurus Labs Ltd., Unit-6	163.2	150	
4	Laurus Labs Ltd., Unit-8	275	450	
5	Laurus Synthesis Pvt. Ltd. Unit-2	150	170	
6	Laurus Synthesis Pvt. Ltd. Unit-4	90	70	
7	LETP	-	150	
	(Boiler, Cooling towers,			
	Domestic)			
Total		993.45	1640	

Unit wise breakup of anticipated effluent:

HTDS and LTDS effluent characteristics are as below:

	HTDS		LTDS	Combined	LETP
Parameter	Inlet	Outlet	Inlet	stream Inlet	Outlet to AETL
Quantity (KLD)	1000	810	1640	2460	2400
pН	5.5-8.5	5.0-9.0	5.5-8.5	5.0-9.0	6.0-9.0
TDS (mg/l)	12000 - 100000mg/l (Average of 65000 to 70000 mg/l)	500	<12000mg/l (Average of 4000 to 5000 mg/l)	<2500	
COD (mg/l)	8000 mg/l to 100000 mg/l	15000	<8000mg/l (Average of	<10000	<250

(Average of	2500 to 3000	
25000 to 30000	mg/l)	
mg/l)		

- 11. The proponent shall provide separate storm water drains and harvest the rainwater from the roof tops of the Administrative block and the domes of the effluent collection tanks to recharge the ground water after collecting the first run off separately and treating it.
- 12. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells in and around project area in consultation with the competent Ground Water Department. Data thus collected should be sent at regular intervals to MoEF&CC, CGWA and CGWB, Southern, Region, Hyderabad.
- 13. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with GWB. Suitable measures should be taken for rainwater harvesting.
- 14. In case of Ground water usage, Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

Hazardous / Solid Wastes:

15. Hazardous waste generated from the industry such as organic residue, salts, spent solvents waste oils, used oils etc., shall be disposed as per the Hazardous and other Wastes (Management and Tran boundary movement) Rules, 2016 and its amendments thereof.

Sl. No.	Source	Estimated Quantity (TPD*)	Handling Method	Disposal
1.	ETP Sludge	40	Stored in Drums/Tanks	TSDF for secure land filling/ Authorized cement plants for Co- Processing/Authorized AFR facility.
2.	Distillate from Stripper /Spent Distilled solvents from Stripper	100		To authorized recovery units or Authorized pre-processors/cement industries for co- processing
3.	Evaporation Salts from ATFD	100		To TSDF for secured land filling or To pre- processors/ cement industries for co- processing
4.	Boiler Ash	120	Stored in covered area	Send to Brick Manufacturers
5.	a) Detoxified Container/Liners drums, HDPE Carboys, Fiber drums	200 Nos./month	Designated covered area	Disposed to SPCB Authorized agencies after complete detoxification
	b)PP Bags	1000 kg/month		Disposed to SPCB Authorized agencies after complete detoxification

16. The Hazardous & Non-Hazardous / Solid waste and disposal:

6	Used oils &Grease			Sent to SPCB
		4 KL/annum	Stored in	Authorized
			Drums	agencies for
				reprocessing/
				recycling.
7	Used Lead acid	60	Designated	Sent to suppliers
	Batteries	No's/Annum	covered area	on buy-back basis.
8	Misc. Waste			TSDF for
	(spill control waste)			incineration/Author
		Lumpsum	Stored in	ized cement plants
			Drums	for Co-Processing/
				Authorized AFR
				facility.
9	E-waste	Lumpsum	Designated	Authorized re-
			covered area	processor or TSDF
10	Waste papers & other types			Sold to scrap
	of packing scrap	Lumpsum	-	vendors
11	Canteen waste			Composted on site
		Lumpsum	Manual	and reused for
				greenbelt

- 17. The Organic and Inorganic solid wastes, Spent Carbon, process residues shall be sent to the authorized users or recyclers approved by the APPCB.
- 18. The proponent should strictly comply with the E-Waste Management Rules, 2016, and report compliance.

Environment:

- 19. The Project Proponent shall ensure that the transportation activity of the facility should not cause any inconvenience to the public and comply with the local norms, if any.
- 20. The effluent is to be transported from all the Laurus Group industries within the same industrial area through dedicated and GPS enabled tankers. The treated effluent from LETP to AETL, Atchutapuram, shall be transported through pipeline. Till the laying of pipeline is completed, dedicated tankers may be used for this purpose.
- 21. Spillage control during Transportation will be the sole responsibility of LETP.

Part C: General Conditions:

1. This order is valid for 7 years.

- 2. No further expansion or change in technologies/land use shall be made without prior approval of the SEIAA.
- 3. The project proponent shall submit the copies of the *Environmental Clearance* 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.

- 4. The project authorities 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 clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
- 5. The *Prior Environmental Clearance* issued to this project along with the Approved Environmental Impact Assessment Report (EIA) should be uploaded in the project's web site and be made available in the public domain.
- 6. The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.
- 7. The project proponent shall strictly adhere to its *Environmental Policy* approved by the SEIAA, and shall be made available in their web site.
- 8. A separate "*Environmental Management Unit*" (With a laboratory) shall be set up with all monitoring facilities.
- 9. A Separate Bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CFE/CFO as the case maybe. The amounts allocated should not be diverted for any other purpose.
- 10. The funds earmarked for environmental protection measures (**Capital cost Rs. 184.44 crores & Recurring cost of Rs.84 crores/Annum**) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Integrated Regional Office located at Vijayawada.
- 11. The proponent before starting the operations, shall obtain all other mandatory clearances from respective departments, including the CFE and CFO from the APPCB.
- 12. The project proponent shall meticulously follow the *Form-1/2* of the application; and approved EIA/*EMP*, for the purpose of all compliances.
- 13. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- 14. Data on ambient air quality should be regularly submitted to the Ministry including its Integrated Regional Office located at Vijayawada and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- 15. Personnel working in the facility should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- 16. Occupational health checkup program for the workers should be undertaken

periodically. 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.

- 17. The project proponent shall submit *Half-yearly* reports on the status of compliance of the stipulated *Environmental Clearance Conditions* including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment & Forests, its Regional Office, Vijayawada, SEIAA, A.P., Zonal Office of Central Pollution Control Board, Bangalore, and A.P. Pollution Control Board.
- 18. The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
- 19. Officials from the Regional Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF&CC, Vijayawada.
- 20. SEIAA also reserves the right to cancel the EC issued at any time, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.
- 21. Concealing the factual data in the compliance reports, or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act, 1986.
- 22. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- 23. Any appeal against this Environmental Clearance 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.
- 24. 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 and the Public Liability Insurance Act,1991 along with their amendments and rules.

MEMBER SECRETARY, SEIAA, A.P.

MEMBER, SEIAA, A.P. CHAIRMAN, SEIAA, A.P. To M/s. Laurus Labs Limited, Plot No. 21, Jawaharlal Nehru Pharma City, Parawada, Visakhapatnam - 531021 Andhra Pradesh. Ph.No. +91-9652989692

Copy to:

- 1. The Chairman, SEAC, A.P. for kind information.
- 2. The Member Secretary, APPCB for kind information.
- 3. The EE, RO: Visakhapatnam, APPCB for information.
- 4. The Regional Officer, MoEF&CC, GoI, Vijayawada for kind information.
- 5. The Secretary, MoEF&CC, GoI New Delhi for kind information.
- 6. Monitoring cell, MoEF&CC, GoI, New Delhi for kind information.
- 7. The District Collector, Visakhapatnam District, Andhra Pradesh for kind information.

