

THE ANDHRA SUGARS LIMITED

Venkatarayapuram : Tanuku - 534 215, Andhra Pradesh, India.



Ref: ETP/UH-25/APPCB/2022/39

Date: 05-07-2022

To

The Member Secretary,
AP Pollution Control Board,
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamavari Street, Kasturibaipet,
VIJAYAWADA - 520010

Dear Sir,

Sub: Submission of CFE compliance Report of our **HTPB, UH-25 & MMH plants** – Reg.

* * *

With reference Consent for Establishment order no. 300/APPCB/CFE/RO-ELR/HO/2008 Dated 03-012-2018, we are submitting herewith the half yearly compliance report for CFE order conditions relating to our HTPB, UH-25 & MMH plants.

This is for your kind information.

Thanking You,

Yours faithfully,
For The Andhra Sugars Limited

(PVS VISWANADHA KUMAR)
ADDL. SECRETARY.

CC: The Environmental Engineer
A.P.Pollution Control Board,
Regional Office, D.No.22 B - 3-2,
Kanukolanu Vari Street,
Near Power Pet Railway Station / Near Sivalayam,
Eluru – 534 002.

Encl: As above.

069356



Compliance Report for CFE
APPCB Consent for Establishment order No. 300/APPCB/CFE/RO-ELR/HO/2008
dt. 03-12-2018, Compliance Period: January - June, 2022

S. No	Condition	Compliance																														
1	The proponent shall obtain Consent for Operation (CFO) from APPCB, as required Under Sec. 25/26 of the Water (P&CofP)Act,1974 and under sec.21/22 of the Air (P&CofP)Act, 1981,before commencement of the trail runs.	Complied. Industry obtained CFO vide order no. APPCB/VSP/ELR/534/HO/CFO/2018 Dated 12-05-2018 and Amendment order Dt: 21.06.2018 valid till 31.05.2023.																														
2	The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipment's to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.	Complied. Energy meters were provided at effluent treatment plant and air pollution control measures. Standby DG sets are provided as alternative power during load shutdown period.																														
3	The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.	Complied. Rain Water Harvesting (RWH) structures are provided to recharge the ground water levels. No effluent is entering into the storm water drains.																														
WATER																																
1	<p>The source of water is Borewell /G &V Canal and the maximum permitted water consumption is as following;</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="text-align: center;">S. No</th> <th rowspan="2" style="text-align: center;">Purpose</th> <th colspan="2" style="text-align: center;">Quantity (KLD)</th> </tr> <tr> <th style="text-align: center;">As Per CFO Dt. 12.05.2018</th> <th style="text-align: center;">Total after Expansion</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">HTPB unit</td> <td style="text-align: center;">13.7</td> <td style="text-align: center;">Process 172.8</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">UH-25 Plant-I &MMH</td> <td style="text-align: center;">107.4</td> <td style="text-align: center;">Boiler Feed 50</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">UH-25 Plant- II</td> <td style="text-align: center;">133.4</td> <td style="text-align: center;">Cooling Towers 830</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">UH-25 Plant- III</td> <td style="text-align: center;">---</td> <td style="text-align: center;">RO Plant 12.5</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">ISROSENE</td> <td style="text-align: center;">---</td> <td style="text-align: center;">Domestic 12</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td style="text-align: center;">254.5</td> <td style="text-align: center;">1077.3</td> </tr> </tbody> </table> <p>Separate meters with necessary pipe -line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.</p>	S. No	Purpose	Quantity (KLD)		As Per CFO Dt. 12.05.2018	Total after Expansion	1	HTPB unit	13.7	Process 172.8	2	UH-25 Plant-I &MMH	107.4	Boiler Feed 50	3	UH-25 Plant- II	133.4	Cooling Towers 830	4	UH-25 Plant- III	---	RO Plant 12.5	5	ISROSENE	---	Domestic 12	Total		254.5	1077.3	Complied. Source of water is bore well.
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2	<p>The maximum wastewater generation shall not exceed the following: As per CFO order dt: 12.05.2018. After expansion as per CFE order dt: 03.12.2018.</p> <table border="1" data-bbox="245 286 999 857"> <thead> <tr> <th>S.No</th> <th>Purpose</th> <th>Total (KLD)</th> <th>Point of Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Process</td> <td>183.6</td> <td>After primary treatment sent to biological treatment plant and treated waste water sent to double RO system</td> </tr> <tr> <td>2</td> <td>RO/DM Rejects</td> <td>12.5</td> <td rowspan="3">After primary treatment sent to Ultra filtration followed by double RO system, MEE and ATFD. RO permeate to reuse for cooling towers make-up and rejects sent to MEE followed by ATFD. MEE & ATFD Condensate are reused for cooling tower makeup and MEE salt to TSDF</td> </tr> <tr> <td>3</td> <td>Boiler Blow downs</td> <td>10</td> </tr> <tr> <td>4</td> <td>Cooling Towers Blow Down</td> <td>140</td> </tr> <tr> <td>5</td> <td>Domestic</td> <td>10</td> <td>Combined Biological ETP located with in Sugar Unit and treated effluent shall be disposed for on land irrigation</td> </tr> </tbody> </table>	S.No	Purpose	Total (KLD)	Point of Disposal	1	Process	183.6	After primary treatment sent to biological treatment plant and treated waste water sent to double RO system	2	RO/DM Rejects	12.5	After primary treatment sent to Ultra filtration followed by double RO system, MEE and ATFD. RO permeate to reuse for cooling towers make-up and rejects sent to MEE followed by ATFD. MEE & ATFD Condensate are reused for cooling tower makeup and MEE salt to TSDF	3	Boiler Blow downs	10	4	Cooling Towers Blow Down	140	5	Domestic	10	Combined Biological ETP located with in Sugar Unit and treated effluent shall be disposed for on land irrigation	<p>Complied</p>
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3	<p>The Effluent Treatment Plant (ETP) shall be operated effectively. All the units of the ETP shall be impervious to prevent ground water pollution</p>	<p>Complied. Existing ETP units are above the ground level.</p>																						
4	<p>The industry shall provide flow meters with totalisers at the in let and outlet of ETP.</p>	<p>Complied. Industry has installed separate magnetic flow meters for effluent treatment systems.</p>																						
5	<p>Floorwashingshallbeadmittedintotheeffluentcollectionsyste monlyandshallnotbe allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.</p>	<p>Complied. Floor washings are being collected in a separate collection tank and send to effluent treatment plant for further treatment and reuse.</p>																						

AIR

6	<p>The Air pollution Control equipments shall be operated effectively to comply with the following for controlling air pollution: Existing:</p> <table border="1" data-bbox="277 1597 1032 2011"> <thead> <tr> <th>S. No</th> <th>Source of Pollution</th> <th>Control Equipment Provided</th> <th>Stack Height Above GL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Stack attached to 12 TPH boiler - 2 nos. (Natural gas/ Bio-gas/ Coal fired boiler)</td> <td>Cyclone dust collectors</td> <td>36m</td> </tr> <tr> <td>2</td> <td>Stack attached to 1000 kVA DG set - 2 Nos. (One standby)</td> <td>Silencers and Mufflers</td> <td>6.5m above the building level</td> </tr> <tr> <td>3</td> <td>Stack attached</td> <td>Silencers</td> <td>5m above the building level</td> </tr> </tbody> </table>	S. No	Source of Pollution	Control Equipment Provided	Stack Height Above GL	1	Stack attached to 12 TPH boiler - 2 nos. (Natural gas/ Bio-gas/ Coal fired boiler)	Cyclone dust collectors	36m	2	Stack attached to 1000 kVA DG set - 2 Nos. (One standby)	Silencers and Mufflers	6.5m above the building level	3	Stack attached	Silencers	5m above the building level	<p>Complied. Steam and power drawn from the existing sugar plant. At present there is no further expansion of boilers and DG sets.</p>
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		to 860 kVA DG set – 1 no.	and Mufflers		
	4	Stack attached to 380 kVA DG set – 1 no.	Silencers and Mufflers	4m above the building level	
	5	Attached to 2 TPH oil fired boiler	---	Connected to existing stack of 30m height	
	Proposed expansion:				
	S. No	Source of Pollution	Control Equipment Provided	Stack Height Above GL	
	1	Stack attached to 12 TPH boiler	Bag Filters	36m	
	2	Stack attached to 1000 kVA DG set	Silencers and Mufflers	6.5m above the building level	
	*The required steam and power will be drawn from sugar unit and consequently proposed boiler and DG set also to be installed in the sugar unit.				
7	A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constrain such as bendsetc. A plat form with suitable ladder shall be provided below 1meterofsamplingportto accommodate three persons with instruments. A15 AMP250Vplug point shall be provided on the platform				Complied.
8	The industry shall implement adequate measures to control all fugitive emissions from the plant.				Complied. The following are the measures practising for existing facility; 1. Closed transfer system for raw materials and solvents 2. Vent of secondary condenser of reactors connected to scrubbers. 3. Dual condensing systems for reactor vents.
9	The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notificationNo.GSR.826 (E), dated.16.11.2009 during construction and regular operational phase of the project at the periphery. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70dB(A) during night time.				Complied. Monitoring of ambient air quality, Noise levels was carried out on monthly basis through MoEF&CC, NABL approved third party laboratory. The results are within the standards
10	The evaporation losses in solvents shall be controlled by taking the following measures: 1. Chilled brine circulation shall be carried out to effectively				Complied.

	<p>reduce the solvent losses into the atmosphere.</p> <ol style="list-style-type: none"> 2. Transfer of solvents shall be done by using pumps instead of manual handling. 3. Closed centrifuges shall be used to reduce solvent losses. 4. All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapors. 5. The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapor emissions into atmosphere. 																																																																																	
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		&packing materials			
	r)	Metal scrap	10TPA	Sale to outside agencies/recycler	
	s)	E-Waste	0.2TPA	Authorized recyclers	
	t)	Canteen waste	5 Kg/day	Composted used as manure	
	u)	Plastic waste	0.5TPA	Authorized recyclers.	
	v)	Glass Bottles	250 Nos/month	Dispose-off to outside agencies after detoxification	
12	The proponent shall place the chemical drums and/or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.				Complied. A shed with elevated concrete platform is provided for drum storage with spillage collection and dyke wall provision. Detoxification facility will be provided for Container & Container liners and wash waste water routed to low TDS collection tank followed by treatment in ETP.
13	The following rules and regulations notified by the MoEF&CC, GoI shall be implemented. a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules,2016. b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 c) Fly Ash Notification,2016. d) Batteries(Management &Handling) Rules,2010. e) E-Waste(Management) Rules,2016. f) Construction and Demolition waste Management Rules,2016.				Noted and same will be followed.
OTHER CONDITIONS					
14	The industry shall start construction of expansion unit only after receipt of Environmental Clearance from the SEIAA,AP.A copy of the Environmental Clearance shall be submitted to the Regional Officer, Eluru.				Complied. Industry obtained EC on 27.11.2018 vide order No. SEIAA/ AP/WG/IND/03/2018/538
15	Existing green belt shall be maintained all along the boundary & vacant spaces with tall growing trees with good canopy. The existing green belt shall not be disturbed due to proposed expansion.				Complied. No existing green belt is disturbed for expansion.
16	Concealing the factual data or submission of false information/fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control				Condition noted Same will be followed

	Acts.	
17	Not with standing anything contained in this condition al letter or consent, the Board hereby reserves its right and power Under Sec.27(2)of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution)Act,1981 to revoke the order, to review any or all the condition s imposed here in and to make such modifications as deemed fit and stipulate any additional conditions.	Condition noted
18	Any person aggrieved by an order made by the State Board under Section 25,Section 26, Section 27of Water Act,1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeals per Andhra Pradesh WaterRules,1976and AirRules,1982, to such authority (hereinafter referred to as the Appellate Authority)constituted under Section28of Water(Prevention and Control of Pollution)Act,1974 and Section 31of the Air (Prevention and Control of Pollution)Act,1981.	Condition will be noted Same will be followed.