



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010
Phone. No.0866-2463200, Website : www.pcb.ap.gov.in

RED CATEGORY
RENEWAL OF CONSENT AND AUTHORISATION ORDER

Consent Order No : APPCB/VSP/ELR/289/HO/CFO/2021 -

09/03/2021

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. The Andhra Sugar Ltd, (Distillery Division),
R.S.No.535, Venkatarayapuram (V),
Tanuku, (M), West Godavari District

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i. Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	Process & Wash Effluent after treatment	403	<ul style="list-style-type: none"> Shall be treated in ETP, followed by RO system; RO permeate (203 KLD) shall be recycled back into the process and cooling tower makeup; RO rejects shall be treated in MEE; MEE condensate (65 KLD) shall be recycled back in to the process / cooling tower makeup ; MEE concentrate shall be sent to Bio-compost.
2.	Cooling blow down and excess condensate water after treatment	20	Shall be send to its sister concern unit, sugar industry, for treatment. Treated waste water shall be utilized onland for irrigation, within the premises duly meeting the prescribed standards.
3.	Domestic Effluents	20	After treatment in STP, the treated wastewater shall be used onland for irrigation, within the industry premises duly meeting the prescribed standards (BOD-30 mg/l)

ii) Emissions from chimneys:

The Industry shall meet steam requirement from the boilers existing in its sister concern

sugar unit.

iii) HAZARDOUS WASTE AUTHORISATION (FORM-II) [See Rule 6(2)]

M/s. The Andhra Sugar Ltd, (Distillery Division), R.S.No.535, Venkatarayapuram (V), Tanuku, (M), West Godavari District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

S. No.	Name of the Hazardous Waste	Stream	Quantity of Hazardous waste	Disposal Option
1.	Used Oil	5.1 of Schedule - I	164 LPA	Shall be routed through M/s. APEMC, so as to send to authorized re-processors (as recyclable waste)

This consent order is valid for manufacture the following products along with quantities indicated only:

Sl. No.	Products	Quantity
1.	Industrial Alcohol	36 KL/day *
2.	CO ₂	37.225 T/day

* Out of total 36 KLD, 20 KLD of absolute alcohol shall be used for blending in petrol as per Central Govt's policy.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A & B enclosed to this order.

This combined order of consent shall be valid for a period ending with the **31st day of March, 2026.**

DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF ENVIRONMENTAL ENGINEER4-APPCB
To
M/s. The Andhra Sugar Ltd, (Distillery Division),
R.S.No.535, Venkatarayapuram (V),
Tanuku, (M),
West Godavari District

Copy to :

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action.
2. The Environmental Engineer, Regional Office, Eluru for information and necessary action.

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and

submit to the Board.

3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
7. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
8. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
9. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
10. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of 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 appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
11. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
12. The industry may explore the possibility of tapping the solar energy for their energy requirements.
13. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE-B

1. Not submitted the monthly ground water quality monitoring reports of the piezo wells located around the bio-compost yard. The industry shall submit the monthly ground water quality monitoring reports of the piezo wells located around the bio-compost yard to RO.

WATER POLLUTION:

2. The effluent discharged should comply with the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards
2	pH	6.5 - 8.5
	Total Suspended Solids	100 mg/l
	Oil & Grease	10.00 mg/l
	Total Dissolved Solids	2100.00 mg/l
	BOD at 27 ⁰ C, 3 days	30 mg/l
	COD	250 mg/l
	Total residual chlorine	1 mg/l
	Phosphate	5 mg/l

out let no. 3	pH	6.50 - 8.50
	Oil and Grease	10 mg/l
	Biochemical Oxygen Demand	30 mg/l
	Total Suspended Solids	<100 mg/l
	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	<1000 MPN/100 ml

3. The source of water is ground water. The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below :

Sl. No	Purpose	Quantity
1.	Process & Washings	310 KLD
2.	Cooling Makeup	100 KLD
3.	Domestic	5 KLD
	Total:	415 KLD

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purpose mentioned above

- The industry shall maintain flow meters preferably Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.
- The industry should ensure that the lining of the bio compost yard is intact as per CPCB guidelines to dispose the bio methaned spent wash through bio-composting.
- The industry should keep bio compost yard & lagoons in dry condition to prevent contamination of rainwater runoff. The stagnated water in any lagoon & leachate during rainy season should be pumped back into the ETP & recycled.
- There shall not be any waste water discharge outside the industry premises.

AIR POLLUTION:

8. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10 microns) - 100 micro gram/ m³; PM2.5 (Particulate Matter size less than 2.5 micro gram) - 60 mg/ m³; SO₂ - 80 micro gram/ m³; NO_x - 80 micro gram/m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.
- Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A)

GENERAL:

9. The industry should not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board.
10. The industry shall maintain records on energy meter and digital flow meter readings pertaining to waste water generation, treatment and disposal. The consolidate records shall be furnished to RO, Eluru every month.
11. The industry shall not operate Distillery unit more than 270 days (i.e, they shall not operate the unit during rains) as per the CPCB guidelines. To ensure compliance of this restriction, the industry should submit details of stop time, date and restart time and date clearly indicating compliance to RO, Eluru
12. The industry should switchover to emerging technologies including evaporation, concentration & incineration from the existing bio composting mode of disposal of spent wash as per CPCB, Delhi recommendations vide letter dt. 04-06-08. A detailed plan of action along with PERT chart should be submitted to the Board
13. Under any circumstances, the effluents should not be discharged outside the factory premises and the industry should own total responsibility to maintain zero discharge. Adequate care should be taken by the industry to prevent leakage / seepage of effluents either directly / indirectly to on land or outside the premises or into ground.
14. There shall not be any percolation of effluents from storage tanks / bio- compost area into ground water. The industry shall ensure piezo-meters locations as per CPCB guidelines and maintain piezo-meters properly in addition to the existing Bore wells for ground water quantity monitoring around the compost yard and the distillery plant and submit monthly reports to the RO, Eluru.
15. The industry shall maintain meters for recording spent wash generation, quantity of biomethanide spent wash before RO plant, after RO plant, MEE feed, MEE condensate and quantify the waste water used for bio-compost (MEE concentrate). They shall maintain daily records and submit monthly statement to the RO Eluru.
16. The industry shall treat the spent wash in the Anaerobic digesters followed by Reverse Osmosis plant followed by MEE. The MEE concentrate shall be utilized for bio composting process. The industry shall properly maintain leachate collection system provided for bio-compost yard to ensure that no leachate shall reach the storm water drains and the leachate collected in a sump back to the windrows.
17. The industry is not permitted to use the lagoons for spraying of spent wash. Under any circumstances, the industry should not resort to discharge / spraying of spent wash onland.
18. The industry shall have at least two days storage capacity of treated effluent to facilitate the Board to check the quantity of treated effluents.
19. The industry shall maintain a log register to record the energy meter readings pertaining to the operation of the Air Pollution Control Equipments and maintain a log register to record the breakdown of the Air Pollution Control equipment.

- 20.The industry shall comply with the Standard Operating Procedure (SoP) formulated by CPCB for Bio-composting operations.
- 21.The industry shall ensure that the treatment facilities shall be impervious to prevent ground water pollution
- 22.The industry shall maintain proper liner for press mud storage area of 3 acres with proper leachate collection facilities to avoid ground and surface water pollution and report the compliance to Regional Office, Eluru.
- 23.The industry shall restrict their spent wash storage capacity to 30 days storage capacity as per the CPCB guidelines
- 24.The industry shall take proper measures to control odour nuisance.
- 25.The industry shall maintain continuous electronic data logging flow of totalizers and maintain records of RS production, water consumption, spent wash generation, spent wash feed to digester, Gas production, Bio-methanide spent wash to RO system permeate and rejects of RO system and spraying of spent wash for bio compost and these details shall be submitted to ZO, Visakhapatnam; RO - Eluru every month.
- 26.The industry shall properly maintain the volume measuring devices in storage lagoons to measure the quantities of spent wash storage in the lagoon.
- 27.The industry shall evaluate the performance of Digester, RO plant and Bio-compost system on continuous basis, so as to take immediate necessary corrective measures and also adopt latest available technology to improve the performance
- 28.The industry shall maintain rainwater-harvesting measures to minimize the ground water drawl.
- 29.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
 - a. Daily production details (ER-1 Central Excise Returns).
 - b. Quantity of Effluents generated, treated, recycled/reused and disposed to CETP.
 - c. Log Books for pollution control systems.
 - d. Characteristics of effluents and emissions.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Inspection book.
 - g. Manifest copies of effluents / hazardous waste.
- 30.Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- 31.The industry shall renew the PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Eluru on yearly base
- 32.The industry shall maintain separate power consumption records pertaining to pollution control equipment.
- 33.Thick green belt shall be developed & maintained by the industry with tall growing trees in the vacant spaces of the unit covering an area of 33% of the total area.
- 34.The industry shall comply with CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online emission and effluent monitoring systems issued from time to time.
- 35.Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.

Special conditions:

- 36.The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.

- 37.The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
- 38.The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment, and the details shall be furnished to the Factories Department and the Regional Office, APPCB time to time duly certifying the same by the industry. Further, the industry shall extend training to the working personnel while handling hazardous chemicals for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
- 39.The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
- 40.The industry shall inventory the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and shall furnish the details to Regional Office, APPCB on a monthly basis duly certifying the same by the industry.
- 41.The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
- 42.The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity / toxicity / flammability / explosive stored/handling in the premises as defined in the Management of Storage, Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.
- 43.The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.
- 44.The industries and isolated storages that are storing hazardous chemicals less than the threshold quantities mentioned under MSIHC Rules, 1989 shall submit safety certificate to the concerned Regional Office, APPCB

SCHEDULE - C

[See rule 6(2)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of

his authorisation.

5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

Specific Conditions:

10. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
11. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
12. The industry shall transport the hazardous waste to cement industries only through vehicle fitted with GPS tracking system.
13. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
15. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.

DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF ENVIRONMENTAL ENGINEER4-APPCB

To
M/s. The Andhra Sugar Ltd, (Distillery Division),
R.S.No.535, Venkatarayapuram (V),
Tanuku, (M),
West Godavari District