

REGD.POST WITH ACK.DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No. 327 /APPCB/CFE/RO-ELR/HO/2015

Dt.09.07.2015

Sub: APPCB – CFE - M/s.The Andhra Sugars Ltd. (Aspirin Division), Sy.No.540, Venkatarayapuram, Industrial Area Town Ship, Tanuku (M), West Godavari District – Consent for Establishment (CFE) of the Board for Expansion under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref: 1) NOC Order dt.13.09.1990.
2) EC Order dt.13.01.2015 and Amendment EC Order dt: 04.04.2015 issued by SEIAA, A.P.
3) CFO Order No.APPCB/VSP/RJY/16306/HO/CFO/2013-5072, dt.26.11.2013
4) Industry's application received through A.P. Single Desk System on 18.06.2015.
5) R.O's inspection report dt. 20.06.2015.

1. In the reference 4th cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for expansion to produce the following products with installed capacities as mentioned below:

Sl. No	Name of the Products	As per NOC Order dt 13.09.1990	Total quantity after expansion (Kg/day)
1.	Aspirin	1000 TPA	6944.0
2.	Salicylic Acid	850 TPA	6900.0

2. As per the application, the above activity is to be located within the existing plant premises located at Sy.No.540, Venkatarayapuram, Industrial Area Town Ship, Tanuku (M), West Godavari District in an area of 2.8 Acres.

3. The above site was inspected by the Environmental Engineer, Regional office, A.P Pollution Control Board, Eluru on 20.06.2015 and found that the site is surrounded by

North : CH₃COOH Plant

South : Mandapaka Road

East : GNV Canal

West : Railway track

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** to your unit Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'
Schedule 'B'

Sd/-
MEMBER SECRETARY

To
M/s.The Andhra Sugars Ltd, (Aspirin Division),
Sy.No.540, Venkatarayapuram(V),
Industrial Area Town Ship,
Tanuku (M), West Godavari District.
Project.tnk@theandhrasugars.com / info@navabharatagro.com

Copy to: 1. The JCEE, Z.O., Visakhapatnam for information and necessary action.
2. The E.E., R.O, Eluru for information and necessary action.

// T.C.F.B.O //


JOINT CHIEF ENVIRONMENTAL ENGINEER (UH-I),



SCHEDULE - A

1. Progress on implementation of the project shall be reported to the concerned Regional Office, A.P. Pollution Control Board, once in six months.
2. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
3. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
4. Notwithstanding anything contained in this conditional 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 review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.
5. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.
6. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall constructed around storage of chemicals.
8. Rain Water Harvesting (RWH) structure (s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.
9. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
10. **This order is valid for period of 5 years from the date of issue.**

SCHEDULE - B

Water:

1. The source of water is Canal water / Bore well and the maximum permitted water consumption after expansion is as following:

Sl. No.	Purpose	Existing as per CFO order dt.26.11.2013 (KLD)	Expansion (KLD)	Total quantity (KLD)
1	Process & washings	63.0	53.0	116.0
2	Cooling make up/Humidification / Water spraying	10.0	10.0	20.0
3	Domestic	20.0	--	20.0
	Total:	93.0	63.0	156.0

2. The maximum waste water generation shall not exceed the following:

Sl. No.	Source	Existing as per CFO order dt.26.11.2013 (KLD)	Expansion (KLD)	Total quantity (KLD)
a)	Process & Washings	51.0	87.2	138.2
b)	Cooling Blow Down & Boiler blow down	--	--	--
c)	Domestic	15.0	--	15.0
	Total	66.0	87.2	153.2

Treatment & Disposal :

Sl. No.	Source of Effluent	Treatment	Mode of final disposal
1.	HTDS - 20 KLD	MEE & Centrifuge	Centrifuge salts to TSDF and liquor to MEE.
2.	LTDS - 118.2 KLD	RO system and activated sludge process (Collection-Cum-Equalization tank, Extended Aeration tank and Lamella Clarifier).	Bio composting / gardening.
2.	Domestic (15 KLD)	Existing ETP along with Low TDS effluents.	On land gardening / Development of greenbelt.

3. The industry shall treat the domestic waste water in the existing biological ETP along with LTDS effluents.
4. The existing Effluent Treatment Plant (ETP) shall be operated effectively to achieve the standards. All the units of the ETP shall be impervious to prevent ground water pollution.
5. The industry shall segregate the effluent into High TDS and low TDS & Low COD streams and shall adopt "Zero Discharge" scheme and in no case the treated effluent / untreated effluent shall be discharged outside the factory premises.
6. The industry shall install magnetic flow meters with totalisers at inlets and outlets of MEE system, ETP & RO plants for the purpose of measuring the effluent generation and disposal.
7. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
 - a) Industrial cooling, boiler feed.
 - b) Domestic purposes.
 - c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
 - d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

Air:

8. The proponent shall comply with the following after expansion:

Sl. No.	Details of Stack	Stack-I	Stack-II
a)	Attached to	Boiler	DG Set
b)	Capacity	12 TPH	860 KVA
c)	Fuel	Natural Gas	Diesel
d)	Stack height above the ground (m)	40 m.	6 m.
e)	Details of Air Pollution Control Equipment	--	Silencer & muffler

9. The industry shall provide dedicated multi stage scrubbers to the process vents to control the process emissions. The industry shall provide online pH monitoring system to the scrubbers provided to treat the process emissions. Scrubbed liquid shall be recycled as far as possible and sold to actual users. The industry shall keep the record of disposal of all such by-products/waste and shall regularly submit details to the concerned Regional Officer, APPCB.
10. Fugitive emissions shall be controlled by Closed transfer and handling of all hazardous solvents and chemicals. Vent condensers are to be provided to solvent storage tanks.

11. The industry shall implement adequate measures to control all fugitive emissions from the plant.
12. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826(E), dated. 16.11.2009.
13. The proponent shall not cause odour nuisance in the surroundings.
14. The industry shall send the used /spent solvents to the recyclers and shall process them at their own solvent recovery plant within the plant premises. Solvents shall be recovered to the maximum extent possible and shall be reused.
15. The evaporation losses in solvents are to be controlled by taking the following measures:
 - i) Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
 - ii) Transfer of solvents shall be done by using pumps instead of manual handling.
 - iii) Closed centrifuges shall be used so as to reduce the solvent losses drastically.
 - iv) The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapor emissions into atmosphere.
 - v) All the solvent storage tanks shall be connected with vent condensers to prevent escaping of solvent vapor emissions into atmosphere.

Solid Waste:

16. The proponent has furnished the list of the following by-products from the proposed list of products. There shall not be any pollution load at on-site of the premises result in from reception, handling and disposal of these by-products / waste streams at source of the industry. The proponent shall maintain log registers on quantity of waste generation and details of end use of the waste disposed.

Sl. No	Name of the By-Products	Quantity after expansion (Kg/day)
1	Acetic Acid	2378.0
2	Sodium Salicylate	8049.0

17. The proponent shall comply with the following after expansion.

Sl. No.	Solid / Hazardous Waste	Quantity			Method of Disposal
		Existing	Expansion	Total	
1	MEE Salts (TPA)	500	650	1150	To TSDF, Parawada, for secured land filling.
2	Spent Carbon (TPA)	18	15	33	To Cement Plants for co-processing / TSDF for incineration
3	ETP Sludge (TPA)	--	6	6	To TSDF, Parawada for secured land filling.
4	Used batteries	10 Nos/Year	5 Nos/year	15 Nos/year	To authorized agencies
5.	Waste Oil	300 LPA	200 LPA	500 LPA	To Authorized recyclers / Reprocessors / used as lubricant with in the premises.

18. The following rules and regulations notified by the MOE&F, GOI shall be implemented.
 - a) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
 - b) Hazardous waste (Management, Handling and Transboundary), Rules, 2008.
 - c) Batteries (Management & Handling) Rules, 2010.
 - d) E-Waste (Management & Handling) Rules, 2011.

19. The industry shall place the chemical drums in a closed shed provided with concrete elevated platform only. The Platform shall be provided with sufficient dyke wall and spillage collection system.
20. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to effluent collection tank. After characterization the same shall be sent for treatment and disposal.

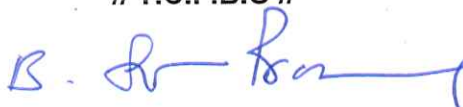
Other Conditions:

21. Green belt shall be maintained all along the boundary of the industry in minimum 33% of the total area. The existing green belt shall not be disturbed in the proposed activity even after expansion.
22. System of leak detection and repair of pump / pipeline shall be installed in the plant and immediate response team shall be identified for preventive maintenance.
23. The industry shall isolate the storage of highly flammable chemicals, solvents & other raw materials from the rest of facilities in the plant premises.
24. The industry shall ensure that there shall not be any change in the process technology, source of raw material and scope of working without prior approval from the Board.
25. The industry shall comply with all the directions issued by the Board from time to time.
26. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order and attract action under the provisions of relevant pollution control Acts.
27. The Board reserves its right to modify above conditions or stipulate new / additional conditions and to take action including revocation of this order in the interest of environment protection.
28. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**Sd/-
MEMBER SECRETARY**

To
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Sy.No.540, Venkatarayapuram(V),
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