

Compliance report of terms and conditions of EC F.No.J-11011/83/2017-IA-II(I) Dated:13th August, 2019 of M/s. The Andhra Sugars Limited, Chemicals &Fertilisers Division, Saggonda, Gopalapuram Mandal, W.G.Dt., A.P.

S.No	EC Conditions	Compliance of M/s. The Andhra Sugars Ltd.
a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	Obtained CFE order for 800 TPD Caustic soda on 24.07.2019 vide CFE order No. APPCB / VSP/ KKD/ 449/ HO/ 2015 and Obtained CFO for 500 TPD Caustic soda on 16-10-2019. Consent order No. APPCB/VSP/RJY/449/CFO/HO/2019.
b)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste / treated water shall be discharged outside the premises.	We have installed and operating 40 M3/hr ETP-RO plant for treatment of trade effluents. The treated effluents are being reusing for cooling water makeup and brine make up. Hence, industry has achieved ZERO LIQUID discharge.
c)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Obtained CFO order for 500 TPD Caustic soda on 16-10-2019. Consent order No. APPCB/VSP/RJY/449/CFO/HO/2019.
d)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21 st July, 2010 and amended from time to time shall be followed.	Presently, we are not manufacturing any Organic Chemicals.
e)	No raw material / solvents prohibited by the concerned regulatory authorities from time to time, shall be used.	We are not using any Raw Materials / Solvents Prohibited by the Government
f)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Fugitive emissions shall be controlled at 99.5% with effective chillers.	We have provided scrubbers to control the fugitive emissions where ever required and all the emissions are routed through a dedicated pipe line to the scrubbers in order to control fugitive emissions.
g)	Solvent management shall be carried out as	At present, we are not using any solvents

	<p>follows:</p> <p>i) Reactor shall be connected to chilled brine condenser system.</p> <p>ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.</p> <p>iv) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p>	in the existing plant.
h)	Total fresh water requirement shall not exceed 6951.5 cum/day, proposed to be met from Godavari River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	We are drawing the fresh water from the river Godavari well within the permitted quantity only.
i)	Industrial / trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE. Low TDS effluent stream shall be treated in ETP/RO to meet the prescribed standards.	At present, we are not having any organic effluents to have high COD and hence, we are treating all the effluents in the common system having sufficient capacity. After treatment, treated effluents are being reusing in the process.
j)	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	We have separate drain system for process effluents and storm water thus avoiding the mixing of the process effluents with storm water.
k)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	We are storing all the chemicals in the respective storage tanks made with suitable MOC. Material handling is carried out by means of pumps only.
l)	Coal less than 0.5% shall be used as boiler fuel, which will be equipped with the ESP to control particulate emissions.	We have not yet installed the Coal fired Boiler.
m)	Sensors for chlorine detection shall be installed within the premises.	We have installed chlorine sensors to measure the chlorine concentration at all

		prominent locations within the premises.
n)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	At present, we are not manufacturing any organic chemicals and hence not generating any organic residue.
o)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals(MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.	Being Complied
p)	Fly ash should be stored separately as per CPCB guidelines so that it may not adversely affect the air quality. Direct exposure of workers to fly ash and dust should be avoided.	Being Complied
q)	The company shall undertake waste minimization measures as below:- i) Metering and control of quantities of active ingredients to minimize waste. ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. iii) Use of automated filling to minimize spillage. iv) Use of Close Feed system into batch reactors. v) Venting equipment through vapour recovery system. vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	<ul style="list-style-type: none"> • We have Provided water meters at various locations inorder to monitor and control the Water consumption as well as waste water minimization • We have installed Automatic Filling facility for Liquid Products into the Tankers to minimize the spillages. • We are feeding the raw materials into Batch reactors through closed pipe lines only. • All the vents are routed to stacks through vent scrubbers. • We are using portable high pressure pump for cleaning of tanks / Equipment inorder to minimize the water consumption.
r)	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	We are maintaining the green belt all around the plant. And total area of green belt developed is above the prescribed limit of 33% of the total project area.
s)	All the commitments made regarding issues raised during public hearing / consultation meeting shall be satisfactorily implemented.	Being complied.
t)	Pucca road shall be maintained in the plant premises and nearby village to minimize	We are maintaining the pucca roads in the plant premises.

	dust pollution.	
u)	As committed, funds allocation for the Corporate Environment Responsibility (CER) shall be 2% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	We will spend 2% of the project cost towards the Corporate Environment Responsibility (CER).
v)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	DG sets are only for emergency purpose during the power failure. We have provided the silencers in the stacks.
w)	The unit shall make all arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per norms.	We have established complete fire hydrant system for the complete plant and also industry is maintaining fire water storage tank of 600 KL.
x)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	We are carrying out the health checkup of the employees for occupational diseases on regular basis.
y)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	We have installed online stack monitoring equipment for all the stacks and data is being published in the state and central pollution control boards websites.
z)	Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken accordingly.	We will carry out the process safety and risk assessment.
10.1	The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-	
i)	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and / or any other statutory authority.	Noted.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of	At present, we have established plant for the production of 500 TPD caustic soda only. Which is within the capacity granted in the EC.

	deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We have provided continuous online Ambient Air Quality Monitoring Station and the data is publishing in the pollution control board website.
iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16 th November, 2009 shall be complied with.	Being Complied.
v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA(day time) and 70 dBA (night time).	Being complied.
vi)	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.	We have established Rain water collection ponds and ground water recharge wells at various locations in the project site.
vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	We are conducting the training programs regularly to our employees on safety and health aspects. Periodical medical checkups are being carried out for the employees at regular intervals.
viii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in	We are taking all the measures to protect the environment.

	respect of environmental management, risk mitigation measures and public hearing shall be implemented.	
ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	Being Complied.
x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	We have established the separate Environmental cell headed by production head.
xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Being Complied.
xii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParisad / Municipal Corporation, Urban local Body and the local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal.	We have given the Copy to Panchayat
xiii)	The project proponent shall also submit six monthly 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 respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Being complied.
xiv)	The environmental statement for each	We have submitted the environmental

	<p>financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment(Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the statues of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.</p>	<p>statement in Form-V for the year ending 31st March, 2019 in Sept-2019.</p>
<p>xv)</p>	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven day from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.</p>	<p>We have given Paper Advertisement was given on 23-08-2019 in the local news papers namely Eenadu(Telugu) & Indian Express(English). The same is sent MOEF Regional office on 24-08-2019.</p>