

THE ANDHRA SUGARS LIMITED

Power Division : Saggonda - 534 318, Andhra Pradesh, India.



Dt: 20.07.2020.

Ref. No. PDS/4B/EC-COMP/2020

THE MEMBER SECRETARY,
A.P. POLLUTION CONTROL BOARD,
Head Office,
Near Sunrise Hospital, Kasturibaipet,
VIJAYAWADA.

* **By Regd Post with Ack. Due.** *

Sir,

Sub:- Submission of half yearly compliance report as per the EC conditions of M/s.The Andhra Sugars Limited, **Power Division, Saggonda** - 534 318, W.G.Dt. – Reg.

Ref:- EC Order No.SEIAA/AP/W.G.-/2013 Dt: 09-10-2015.

Please refer to the above, we are herewith submitting the half yearly Compliance report (January, 2020 to June, 2020) as per the EC conditions issued to us i.e. M/s. The Andhra Sugars Limited, Power Division, Saggonda, for your kind perusal.

Please acknowledge the receipt.

Thanking you,

Yours faithfully,
For **The Andhra Sugars Limited,**
Power Division

ADMINISTRATIVE OFFICER

Encl: As above

Copy to :

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,
Power Pet, **ELURU – 534 002**, W.G.Dt., A.P.

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Website : www.theandhrasugars.com, CIN : L15420AP1947PLC000326

COMPLIANCE ON THE DIRECTIONS OF ENVIRONMENTAL CLEARANCE

The following is the Compliance taken on the directions issued in the Environmental Clearance Vide Order No.SEIAA/AP/W.G.-/2013 Dt: 09-10-2015 by the SEIAA, A.P., GoI, MoE&F, Hyderabad for 36 MW Coal Based Power plant of M/s. The Andhra Sugars Limited, Power Division, Saggonda-534 318, W.G.Dt.

S.No.	Specific Conditions:	Conditions	Compliance taken by M/s. The Andhra Sugars Limited
A.	<u>The Proponent</u>		
1.			
a.	Shall provide air pollution control equipment to meet the SPM limit of 50.0 mg/m ³		We have installed high efficiency ESP to bring down the concentration of particulate matter emission to less than 50 mg/Nm ³ .
b.	Shall provide online stack monitoring to monitor SPM concentration.		We have provided online stack monitoring to monitor SPM concentration.
c.	Shall stored Fly ash in closed silo and to dispose for the cement plants and for brick manufacturing units.		We have installed silos of capacity 110 m ³ to store bed ash and 635 m ³ to store fly ash and the same is being disposed to cement / brick manufacturing units.
d.	Shall implement the recommendations made in the EIA report.		We will follow & implement the recommendations made in the EIA report.
e.	Shall to take into consideration the incubation period of the coal while feeding the same to the boiler.		Being followed
f.	Shall stock coal in covered shed with proper dust control system.		Covered shed with proper dust control system is arranged to store coal.
a)	<u>Air Pollution:</u>		
i	Particulate emissions from the 160 TPH boiler shall not exceed 50 mg/Nm ³ .		We have installed 90mts stack and high efficiency 5 stage ESP

	Stack of 75 mts and ESP.	to bring down the concentration of particulate emission to less than 50 mg/Nm ³ .
ii	Provision shall be made to provide Flue Gas Desulphurization (FGD) unit, if required in future.	We have provided flue gas desulphurization for future requirement.
iii	Online monitoring devices with continuous recording facility shall be provided to monitor the stack emissions. Energy meters shall be installed for all pollution control systems.	We have provided online stack monitoring devices with continuous recording facility to monitor SPM concentration in stack. Energy meters are installed for all pollution control systems.
iv	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points.	We have installed adequate dust collection and extraction system to control fugitive dust emissions at required points.
v	The coal shall be transported from Coal yard to the industry's premises by covered trucks. Storage of raw material shall be in closed roof sheds. Appropriate dust suppression system shall be provided all around the stockpiles and conveyor system. All the roads in the plant area shall be asphalted / concreted and water shall be sprinkled to suppress the dust.	We are transporting the Coal from Coal yard to our industry premises in covered trucks. Raw material is stored in closed roof sheds. Dust suppression system is provided all around the stockpiles and conveyor system. We have provided pukka roads, water sprinkling system to suppress the dust.
vi	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage / raw materials handlings etc. shall be provided. Further, appropriate control system such as bag filters shall be provided at all transfer points, raw material screen houses, stock house, etc., Fugitive emissions shall be regularly monitored and records maintained.	We have provided bag filters and water spray system at coal crushing, transfer lines and ash handling areas. Records are being maintained for Fugitive emissions.
vii	Ambient air quality including ambient noise levels must not exceed the standards stipulated under Notification Dt:16-11-2009 issued by the MoEF, GOI. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the Board and to the Ministry's Regional Office at Chennai half yearly.	The AAQ and Noise levels are being maintained within the prescribed limits.
b)	Water Pollution :	
i	The total water requirement shall not exceed 660 KLD. Out of that, quantity of water used for; Cooling tower makeup is 232 KLD; boiler make-up is 244 KLD; R.O. rejects is 104 KLD; Clarifier blow down is 60 KLD and	The total water requirement for our 36 MW coal based power plant is less than the stipulated quantity of 660 KLD.

S.NO	MONTH & YEAR	TOTAL WATER CONSUMPTION (KL)	AVG. WATER CONSUMPTION/DAY (KLD)
1	Jan,2020	7026	226.6
2	Feb,2020	6398	220.6
3	Mar,2020	5717	184.4
4	Apr,2020	9153	305.1
5	May,2020	9143	294.9
6	June,2020	8467	282.2

The waste water generation less than 287 KLD.

S.NO	Month & Year	Waste Water Generation (KL)	Avg. Water Generation (KLD)
1	Jan,2020	1870	60.3
2	Feb,2020	1386	47.8
3	Mar,2020	2356	76.0
4	Apr,2020	2408	80.2
5	May,2020	2343	75.6
6	June,2020	1974	65.8

The total waste water generated is 287 KLD. Out of that, quantity of waste water generated from: Cooling tower blow down is 46 KLD; Boiler blow down is 61 KLD; R.O. rejects is 104 KLD; Clarifier blow down is 60 KLD and Sanitary waste is 16 KLD.

ii

No effluent shall be discharged outside the factory premises and concept of 'zero' discharge shall be adopted. The treated waste water is to be used for ash conditioning, dust suppression and greenbelt development. The treated waste water generated from the domestic section is to be used for development of greenbelt. The treated waste water from all sections shall conform to on land for irrigation standards prescribed by the MoE&F, GOI.

iii

No effluent is being discharged outside the factory premises. The treated waste water is being utilised for Dust suppression, ash handling and green belt development. Domestic effluents are being disposed in Septic tank followed by soak pit. The effluents are being treated to the on land for irrigation standards.

	iv	The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.	We have provided rain water harvesting wells at various locations of the plant to recharge the ground water.																					
	v	Green belt of width 15m around the plant, in an area of atleast Ac 14.0, shall be developed along the boundary as per the CPCB guidelines in consultation with the local DFO. The density of the trees should be around 600 plants per Ac.	We have already developed green belt in an area of 7 acres. In remaining 7 acres plantation is in progress.																					
c)		Solid Waste :																						
	i	The Ash generated (52 TPD) from the plant is to be disposed for manufacture of cement/brick manufacturers / construction of roads, flyover embankments / reclamation of low-laying areas etc., The Proponent shall comply with the provisions laid under notification S.O. 2804 (E), dt.03.11.2009 with respect to utilization of Ash generated from the power plant. The proponent shall utilize 100% of fly ash generated in the plant. An action plan to that effect shall be submitted to the CPCB, APPCB, Regional office of MoEF& CC, GOI, Chennai with in a period of four months.	The generated fly ash is selling to fly ash brick manufacturers / Cement plants. <table border="1" data-bbox="523 185 858 909"> <thead> <tr> <th>Month& Year</th> <th>Fly Ash generation QTY. (MT)</th> <th>Fly ash disposed QTY. (MT)</th> </tr> </thead> <tbody> <tr> <td>Jan,2020</td> <td>1759.72</td> <td>1732.7</td> </tr> <tr> <td>Feb,2020</td> <td>1538.54</td> <td>1570.6</td> </tr> <tr> <td>Mar,2020</td> <td>1231.60</td> <td>1434.10</td> </tr> <tr> <td>Apr,2020</td> <td>1975.10</td> <td>1890.10</td> </tr> <tr> <td>May,2020</td> <td>2056.00</td> <td>1980.20</td> </tr> <tr> <td>June,2020</td> <td>1681.78</td> <td>1780.4</td> </tr> </tbody> </table>	Month& Year	Fly Ash generation QTY. (MT)	Fly ash disposed QTY. (MT)	Jan,2020	1759.72	1732.7	Feb,2020	1538.54	1570.6	Mar,2020	1231.60	1434.10	Apr,2020	1975.10	1890.10	May,2020	2056.00	1980.20	June,2020	1681.78	1780.4
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	ii	Annual implementation report (for the period from 1 st April to 31 st March) providing information about the compliance of provisions in the above mentioned notification shall be submitted by the 30 th day of April, every year to the CPCB, APPCB, Regional office of the MoE&F, GOI, Bangalore and also be made part of the annual report of the thermal power plant.	Being submitted.																					
	iii	Waste oils, used oils generated from the industry shall be disposed as per the Hazardous Wastes (Management, Handling, and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.	The generated waste oils, used oils from the industry is utilized in M/s. The Andhra Sugars Limited, Chemicals &Fertilisers Division, Saggonda to consume in heating furnace.																					
B.		General Conditions :																						
	i	This order is valid for a period of 5 years.	Noted																					

ii	“Consent for Establishment” shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity / construction work at site.	Obtained vide Order No.328/APPCB/CFE/RO-ELR/HO/2015 Dt:02-09-2015.
iii	No change in the process technology and scope of working should be made without prior approval of the SEIAA, A.P.	We will not change in the process technology and scope of working without prior approval of the SEIAA, AP.
iv	The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA on 1 st June and 1 st December of each calendar year.	Noted for compliance.
v	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x monitoring. 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 under taken in consultation with the State Pollution Control Board.	Four Ambient air quality monitoring stations established and monitoring and being maintained records for RSPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x .
vi	Data on ambient air quality (RPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x) should be regularly submitted to the Ministry including its Regional Office located at Chennai and the State Pollution Control Board / Central Pollution Control Board once in six months.	Records are maintaining for Ambient air quality (RPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x) & will be submitted to APPCB & MoEF, Chennai office on six monthly basis.
vii	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	We have provided suitable safety equipments for personnel working in dusty areas.
viii	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Being followed.
ix	A separate environmental management cell with suitable qualified personnel should be setup under the control of a Senior Executive, who will report directly to the Head of the Organization.	Arranged.
x	The funds earmarked for environmental protection measures (Rs.12.25 crores) should be kept in separate account and should not be diverted for	The funds earmarked for environmental protection measures will be kept in separate account. Year wise

	other purpose. Year wise expenditure should be reported to the SEIAA, Ministry and its Regional Office located at Chennai.	expenditure report will be submitted to the SEIAA & Regional Office, Chennai.
xi	The Regional Office of MoF&F located at Chennai monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	We will cooperate to the officers of the Regional Office by furnishing the required information / monitoring reports.
xii	A copy of clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	EC copy given to Saggonda Grampanchayat.
xiii	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's Office / Tehsildar's Office for 30 days.	Complied by APPCB, R.O., Eluru.
xiv	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.	We have given advertisement in newspapers on 21-10-2015 in Eenadu (Telugu) & Hindu (English).
xv	The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	We will comply for further conditions if any.
xvi	The proponent shall explicitly follow the suggestions and commitments made in the public hearing in protection of the environment.	We have complied the suggestions and commitments made in the public hearing.
xvii	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted
xviii	The proponent shall undertake eco-development measure including community welfare measure in the project area.	We will follow.

xix	The proponent shall obtain all other mandatory clearances from respective departments.	We had obtained all mandatory clearances like Factories Dept., Electrical Inspectorate, Gram Panchayat etc.
xx	Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
xxi	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.	Noted
xxii	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.	--