

MADHUCON SUGAR & POWER INDUSTRIES LIMITED, RAJESWARAPURAM
EC CONDITATION WISE COMPLIANCE REPORT
F.No. J-11011/396/2006-IA II (I) Dated 27thAugust, 2007

A. SPECIFIC CONDITIONS

SL.NO	CONDITION	COMPLIANCE
i	The Company shall implement all the improvements /conditions/recommendations suggested by public Hearing panel and report to this extend shall be submitted to this Ministry within three months.	All the Improvements/conditions recommendations suggested public hearing panel have been implementation during the project time.
ii	The Distillery unit shall operate only for 270 days out of which 113 days shall be Molasses and 157 days on Grains. Permission from the Ministry may be obtained for any increase in the working days. The unit will not operate during rainy season.	As per New EC: F.No.J-11011/396/2014-IA II (I) Dated 3 rd September,2015, RS/ENA/Ethanol from Molasses 200 days and Grain 130days totaling to 330 days in a year.
iii	Electrostatic Precipitator (ESP) shall be installed for the control of particulate matter emission from Bagasse fired boiler of power plant. The flue gas shall be vented through 75 m high chimney.	Provided Three field ESPs and installed Chimney with height of 75 Mts as per norms of the authorities.

iv	<p>The company shall adopt Continuous Fermentation Technology using Bio-Still process and Molecular Sieve Technology. It shall be ensured that the spent wash generated shall not exceed 7-8 Kl/KL of alcohol produced. For treatment of spent wash the shall adopt Bio-methanation followed by Bio—composting. Methane gas shall be used Boiler. The Effluent generated from grain based alcohol shall be sent to multistage evaporator and 42 MTD of Distilleries Dried grain Soluble Solids (DDGS) waste generated from process shall be sold as cattle feed or shall be used as fuel in the Boiler, No effluent shall be discharged outside the factory premises and zero discharge shall be strictly followed.</p>	<p>As the project was built in the year 2015-16 The incineration boiler was installed as per the directions of the authorities for achieving zero discharge and the same is working very satisfactorily.</p>
v	<p>Land and other requirements for treatment of spent wash with press mud shall be as per CPCB guidelines, The company shall earmark an area of 8.0 Acra for Bio-Composting and storage of finished products, The compost yard shall be as per the CPCB guidelines.</p>	<p>We have installed incineration Boiler (Updated Technology) for achieving zero discharge.</p>
Vi	<p>The Spent wash shall be stored in impervious pucca lagoons of capacity not more than 30 days. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper conditions to prevent ground water pollution. Storage shall be as per the revised guidelines of CPCB.</p>	<p>We have provided RCC tanks with HDPE lining above ground level and prevented ground water pollution permanently.</p>

vii	Waste water generation from proposed expansion of sugar plant shall be treated in activation sludge process and sent for irrigation.	We have established modernized ETP with Capacity – 1000 m ³ /day (activated sludge Process) Bar Screen chamber (0.75M x 3.60M x 0.7M) , Oil & Grease chamber (2.0M x 8.5M x 1.20M), Surge Tank (5.20M x 12.9M x 3.0M), Neutralization Tank (12.9M x 12.9M x 3.0M), Settling Tank (3.35M x 6.7M x 2.5M), UASB Feed Tank (3.1M x 6.7M x4.0M), UASB Reactor (14M Dia x 2.5M height) , Aeration Tank (9.0M x 12M x 4.6M) – 02 No’s, Secondary Clarifier (10.3M Dia x 2.5M height), Chlorine contact tank (3.0M x 5.0M x 3.0M), Multigrade filter , Treated water Tank (8.2M x 8.2M x3.0M), Sludge drying beds – 8 No’s (Flow diagram of ETP enclosed)
viii	Water requirement shall not exceed the present requirement of 1005 cum/day. A copy of the water withdrawal permission shall be submitted to the Ministry.	Water requirements have not exceeded 1005 CuM/Day and same information was submitted to concerned.
ix	76 Acres of land shall be developed as green belt in consultation with DFO.Selection of plant species shall be as per the CPCB guidelines.	35.82% area of Green belt development as per the norms
x	The project authorities shall provide Rs. 30.00 crore for the Environment protection measures. Separate funds for recurring expenditure to implement the conduction stipulated by the Ministry of Environment and Forest as well as the State Government shall be kept. Also, the implementation schedule for all the conduction stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose	Compiled

B.**GENERAL CONDITIONS**

i	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We are not envisaging any expansion of the plant in near future. However in the event we consider such situations in future we shall obtain the permission of the authorities as suggested and as per rules.
ii	Revised Guidelines of 2006 issued by CPCB for Distilleries shall be followed. Where ever the limits are different, as stipulated here, the revised limits of CPCB will prevail.	As per the norms announced by the authorities from time to time being followed.
iii	The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit. The respective unit shall be shutdown and shall not be restarted until the control measure are rectified to achieve the desired efficiency.	Strictly following.
iv	Ambient Air Quality Monitoring Stations shall set up in consultation with the State Pollution Control board in the down wide directions as well as where maximum ground level concentration of SPM, SO ₂ , and NO _x and RSPM are anticipated .RPM will also be monitored regularly.	As the moment we are appointed third party and monitoring the air quality at different places regularly and at the same time it is to inform that we have initiated to install monitoring system in consultation with SPCB duly locating the monitoring stations as per norms Stipulated above.

v	Adequate numbers of ground water quality monitoring stations shall be set up around the compost plant and the project area. These monitoring stations will be provided with piezometers. Sampling and treated analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The company shall carry out regular analysis of compost, leachate for BOD and pH.	We have provided all facilities required for Ground water quality monitoring at different places and monitoring the results and taking suitable decisions. In the event of any negative report the same source is abandoned and being intimated to authorities regularly as per needs.
vi	The overall noise levels in the 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 level shall conform to the standard prescribed under Environment(Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	We have procured one Noise level monitoring equipment and monitoring the noise levels regularly and maintaining within above limits .The third party monitoring is also being followed for more effectiveness.
vii	The project proponent shall also comply with the Environmental protection measures and safeguards recommended in the EIA/EMP reports.	We are complying with all the environmental protection measures and safeguards, risk mitigation measures and monitoring on regular basis for ensuring full protection to the environment.
viii	The ash generated from the Boiler shall be sold to brick manufacturing units.	We are regularly selling to brick manufacturing processors.
ix	Company shall adopt rainwater – harvesting measures to recharge the ground water	We are harvesting rain water and storing the same in a reservoir and utilizing the same for process as per needs and reducing the fresh water utilization.
x	Occupational health surveillance Programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.	We are regularly conducting occupation health programs and health check up to our employees and taking suitable steps to overcome the issues if any.

xi	The separate Environmental management cell equipped with full-fledged laboratory facilities must be setup to carry out the environmental management and monitoring functions.	We have established Environmental Cell and Environmental Laboratory and a management team is appointed to create and regulate requirements from time to time
xii	The implementation of the project vis-à-vis environmental action plans will be monitored by the concerned Regional Office of the Ministry/State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies and shall be posted on the Website of the Proponent.	Submitted to the concerned.
xiii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of Ministry of Environment and Forest at http:// envfor.nic.in . This shall be advertised within seven days 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 Regional office.	Implemented as per directions of the authorities.
xiv	The project Authorities shall inform the Ministry and its concerned Regional Office about date of final financial and final approval of the project by the concerned authorities and the date of start of land development work	Followed and informed to the concerned.