

MADHUCON SUGAR & POWER INDUSTRIES LIMITED, RAJESWARAPURAM
EC CONDITATION WISE COMPLIANCE REPORT
F. No. J-11011/396/2014-IA II (I) Dated 3rd September, 2015

A. SPECIFIC CONDITIONS

SL.NO	CONDITION	Compliance
I	Distillery unit shall be based on Molasses/Grain based Distillery (65KLD) and production of the plant not exceed the maximum capacity defined i.e shall never exceed to 60 KLPD.	Since the distillery plant was commissioned in December 2016 the plant is operating at 65 KLD either with grain or molasses as per the availability. We also assure you that we will not exceed the distillation limit in future too.
li	Bag filter along with adequate stack height will be provided to spent wash/coal fired boiler. The stack emission from various units shall conform to the standards prescribed under the Environmental (Protection) ACT. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	Provided Bag filters (1200Nos). Stack height is 60 meters as required. Installed Emission monitoring system (SPM analyzer) and connected to CPCB and TSPCB and the same is being regularly monitored by the CPCB and deviations if any are being attended. Performance is satisfactory without any deviations till now.
lii	In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emission in the work zone environment, product, raw material storage area etc. shall be regularly monitored and records shall be maintained. The emission shall conform to the limits prescribed by Telangana State Pollution Control Board (TSPCB)	Entire Coal received is stored in closed shed and wherever necessary sprinklers have been provided for avoiding fugitive emissions. Ambient air quality monitoring by third party is in place and emission levels are under control as per TSPCB norms.

iv	Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emission.	Pucca approach roads were provided before commencement of the distillery itself for easy mobility of materials, machinery and men. The same are strengthened after the distillery is commissioned and they are now in full use.
v	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG Set to mitigate the noise pollution.	DG set stack height is about 16 meters and acoustic enclosure is also provided to mitigate the noise pollution. The emission monitoring is being done by the third party. The results are well within the norms set by the control board.
vi	The company shall upload of status compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the respective regional office of MOEF, the respective Zonal office of CPCB and the TSPCB. The level of PM ₁₀ PM _{2.5} , SO ₂ , NO _X , CO and HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	The company is uploading the status of compliance of the stipulated environmental clearance conditions including the results of monitored data on its website and being updated periodically. It is also being forwarded to all the concerned as per Pollution Board norms. Ambient air quality monitoring is assigned to the third party and results are updated regularly.
vii	Total fresh water requirement from ground water source/ Palair canal shall not exceed 650 m ³ /day for distillery and cogeneration unit and prior permission for drawl of water shall be obtained from the CGWA/SGWA.	Water withdrawal permission obtained from TS Government and we are utilizing CPU water for Process, and it has never exceeded 650 M ³ /day. We will maintain the same in future too.

Viii	Spent wash generation from molasses and grain based distillery shall not exceed 8 KI/KI of alcohol produced and 6KL/KL alcohol respectively. Spent wash from molasses based distillery shall be concentrated in MEE. Concentrated from MEE shall be incinerated in cogeneration boiler to achieve zero discharge. Spent wash from grain based shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DWGS shall be dried in the dryer to form DDGS. Spent lees effluent from utilities and cogeneration unit should be treated in effluent treatment plant (ETP) and water quality of treated effluent should meet the norms prescribed by CPCB/SPCB and recycle/reuse.	Spent wash generation from molasses and Grain based distillery has not exceeded 8 KL/KL of alcohol produced and 6KL/KL alcohol respectively. Concentrated spent wash is used in incineration boiler and achieved zero discharge during molasses operation. Drier was installed for manufacturing DDGS. The spent lees effluent from utilities and cogeneration unit are treated in effluent treatment plant (ETP) and water quality of treated effluent is meeting the norms prescribed by the CPCB/SPCB and recycling or reused based on the conditions in the plant.
Ix	Waste water generation from sugar unit shall not exceed 100 lts per ton of cane crushed. Effluent from sugar unit shall be treated in the Effluent Treatment plant (ETP). Water quality of treated effluent shall be monitored regularly. In any case, no waste water/treated effluent shall be discharged into river/natural stream. Domestic effluent shall be treated in treatment plant.	Waste water generation is maintained as per directions and achieved 85.16 Liters per ton of cane. The arrangements are in place to see that no waste water/treated effluent is discharged into river/natural stream. Domestic effluent is also being treated in the effluent treatment plant wherever necessary.
X	As proposed, no effluent from sugar, distillery and co-generation power plant should be discharged outside the premises and Zero discharge shall be achieved. Water consumption shall be reduced by adopting 3R's (reduce, reuse and recycle) concept in the process.	We have installed modernized Sugar ETP and ZLD system for Distillery. We are not discharging any effluent outside the premises
Xi	Continuous online (24 x 7) monitoring system to be installed within treatment plant and data to be uploaded on company's website and same to be provided to respective Regional office of MEF & CC and SPCB.	We have installed continuous effluent monitoring system and connected to CPCB and TSPC server. Results are being regularly monitored on daily basis.
Xii	Process effluent / any waste shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	We have not allowed any waste water to mix with Storm water. Storm water drains are separately laid out and in no occasion it meets the waste water.

Xiii	Spent wash shall be stored in impervious lagoon (RCC) with HDPE lining as per CPCB guidelines and should be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon should be for 5 days..	We have provided RCC tanks with HDPE lining above ground level and prevented ground water pollution permanently
Xiv	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area should be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH , BOD,COD, chloride,sulphate and total dissolved solids should be monitored. Sampling and treated analysis monitoring must be made on monthly basis and report submitted to the Ministry' Regional Office at Bangalore and SPCB.	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.
Xv	Bagasse/biomass storage shall be done in such a way that it does not get air borne or fly around due to wind.	Bagasse stored in closed shed and provided sprinklers wherever necessary to avoid air borne or fly around due to wind.
Xvi	Fly ash shall be stored separately as per CPCB guidelines so that shall not adversely affect the air quality, becoming air borne by or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.	Fly ash stored in silos and sold to Brick industries directly to avoid the above problems listed above.
Xvii	Firefighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank.	Firefighting system provided as per the norms and covered entire Distillery area. Foam system for firefighting is also provided.
Xviii	Risk Assessment should be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Lucknow within six months.	Risk assessment record maintained. Risk assessment report will be carried out and forwarded to all relevant offices.

Xix	Occupation 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 regular medical test record 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.
Xx	Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	We have provided RCC parking area inside the factory premises and traffic system is nicely organized to eliminate any traffic and congestion. The system is working satisfactorily and will be observed further to bring about any improvements wherever necessary.
Xxi	Adequate housekeeping arrangements to be made in sugar as well in distillery unit in the working zone.	We are maintaining very good housekeeping practices and it is monitored at highest level for avoiding deviations.
Xxii	As proposed , green belt shall be developed in 76 acre of total plot area (134.23 acres) to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick green belt with suitable plant species should be developed around the proposed distillery to mitigate the odour problem.	Green belt developed 33% of total area and achieved 48 acre. Erroneously 76 acres is mentioned in the order. Therefore we have requested the To modify to 48 acres as 33 % of the total area of 134.23 acres is only 48 acres.
Xxiii	At least 2.5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item wise details alongwith time bond action plan should be prepared and submitted to the Ministry Regional office at Bangalore implementation of such programme should be ensured accordingly in time bound manner.	We have provided budget accordingly and we are incurring expenditure for discharge social responsibility suitably. The lates programme and schedule will be made avialbe to all concerned authorities.

Xxiv	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction waste shall be managed so that there is no impact on the surrounding environment.	We have provided temporary housing for all construction workers during the project time and dismantled the same after commissioning of the project. They have been provided with water, power, etc.
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B. GENERAL CONDITIONS

I	The project authorities must strictly adhere to the stipulations made by the Telangana State Pollution Control Board (TSPCB), State Government and any other statutory authority.	We have followed all such stipulations by TSPCB and local state Government during the project time. Subsequently whatever rules are stipulated under statutes are meticulously followed.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of environmental and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry of 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.	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.
lii	The location 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 is installed in the upwind and downwind direction as well as maximum ground level concentrations are anticipated.	At the moment we 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.

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 followed.	We are following the above standard only for achieving ambient air quality.
V	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.
Vi	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh 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.
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 have appointed one Safety officer for monitoring and controlling all aspects related to safely by imparting training and methods relevant to handle chemicals handling and its impact on health etc. Outside experts are also called to examine the premises with particular reference to safety and training to all employees on safety. We also arrange demonstrations in safety and firefighting at a regular interval to create awareness to employees.
Viii	The company shall also 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 respect of environmental management , risk mitigation measures and public hearing relating to the project shall be implemented.	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.

Ix	The company shall undertake all relevant measure for improving the socio-economic condition of surrounding area. CSR activities shall be undertaken by involving local villages and administration.	We have introduced in a big way all CSR activities and we have a trust who takes care of the social needs that arise from time to time in the villages surrounding the factory.
X	The company shall undertake eco-developmental measures including community welfare measure in the project area for the overall improvement of the Environment.	Complied
Xi	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 Environmental Cell and Environmental Laboratory and a management team is appointed to create and regulate requirements from time to time.
Xii	The company shall earmark sufficient funds towards capital cost recurring cost per annum to implement the conditions stipulated by the Ministry of Environmental and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for Environmental management /pollution control measures shall not be diverted for any other purpose.	We have maintained separate budget for Environmental management and incurring expenditure on high priority as per needs.
Xiii	A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, Zilaparisad/Municipal Corporation , Urban local Body and local NGO , if any from whom suggestions/representation , if any, were receive while processing the proposal.	We have already submitted the letter to Local Grama panchath and Zilla parishath.

Xiv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance condition including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and TSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	We are submitting condition wise compliance report to concerned authority.
Xv	The environmental statement for each financial year ending 31 st march in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986 as amended subsequently , shall under be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	We are submitting Environmental audit form regularly.
Xvi	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 days from the date of issue of 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.	EC displayed surrounding gramapanchath notice boards and same was submitted to authorities.
Xvii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We have forwarded the above information to all relevant authorities.

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