

**Compliance to the Environmental clearance for 27 MW bagasse based
cogeneration power plant FNO: J-13012/38/2012-I.II (T) dated 19-02-2014**

A. Specific Conditions:

Sl. No.	Condition	Compliance
1	To control the particulate emission from the boiler, ESP meeting 100 mg/Nm ³ shall be installed.	120 TPH boiler is equipped with ESP to curtail the emission to 100 mg/Nm ³
2	Bag filters shall be provided for control of fugitive emissions from the ash handling areas.	To control fugitive emission the ash is taken through dampers to silo. From silo it is taken to conditioning system where water is sprayed to suppress fugitive emission and the air is passed through bag filters to remove any suspended particles before the air enters atmosphere. Then the ash collected in the silo. Loading into trucks & transported to bricks manufacturers.
3	A stack of 76 m height shall be installed.	Stack height of 90 m & ESP as air pollution control equipment is provided as per the consent of KSPCB.
4	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action Plan for implementation shall be submitted to the	The rain water harvesting measures is planned to collect & reuse in the plant. Surface runoff; 1) The rainwater during rainy season is collected at the lowest point of the factory area.



Ministry.	<p>2. The place selected for the storage of rain water is towards North East the factory area.</p> <p>3.respective capacity is 1600cum(2days storage facility is provided)</p> <p>Roof top.</p> <p>4. Roofs area of the project is 44,514 sqm.</p> <p>5.The entire roof top water collected through building side gutter& collected water is passed to storage tank</p>
5	<p>COC of 4.0 shall be adopted.</p> <p>Cycle of Concentration in the cooling tower is maintained between 3 - 4. It is a natural draft cooling tower.</p>
6	<p>Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.</p> <p>ETP installed to meet the discharge well below the norms prescribed by CPCB & KSPCB.</p>
7	<p>Fly ash generated shall be provided to farmers to be used as manure or disposed of as per Fly Ash Utilization Notification, 1999 and as amended subsequently.</p> <p>Fly ash generated is mixed with press mud and used as manure and sold to member farmers & Bricks Manufactures.</p>



8	<p>A minimum amount of 0.4% of the project cost as one time capital cost shall be earmarked for activities to be taken up under CSR during construction phase of the Project. Recurring expenditure for CSR thereafter shall be 1/5th of the capital cost per annum or as per CSR guidelines of Govt. of India, whichever is more till the life of the plant.</p>	<p>CSR Activities as mentioned below & fund allocation is approx Rs.50 lakh</p> <ul style="list-style-type: none"> • Eradicating extreme hunger & poverty - Rs.5 Lakh • Promotion of education - Rs.30 Lakh • Employment enhancing vocational skills - Rs.15 Lakh
9	<p>CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR employment of local youth after imparting relevant training, as may be necessary, shall be undertaken as committed.</p>	<p>Adhered accordingly</p>
10	<p>Social Audit by a reputed University or an Institute shall be carried out periodically as per CSR guidelines of Govt. of India and details to be submitted to MOEF besides putting it on Company's website.</p>	<p>Social audit will be carried out shortly as per the guidelines.</p>
11	<p>Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of atleast 33% of total land for both</p> <p>Sugar plant and proposed thermal power plant shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival atleast 80%</p>	<p>For Green belt on 32.3 Acres of land out of total area of 98 acres is earmarked and developed i.e., 33% of the total area. About 40,000 No. trees are planted.</p>
12	<p>An Environmental Cell shall be created at the project</p>	



<p>site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the organization.</p>	<p>Environmental Cell is in place</p>
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B. General Conditions:

Sl. No.	Condition	Compliance
1	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	There was no water body and natural drain in the site. The terrain of the industrial land is flat.
2	Monitoring surface water quality and quantity in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained.	Monitoring is being conducted by KSPCB recognized laboratory. Reports are submitted to KSCP on regular basis
3	Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB	An ETP having anaerobic treatment followed by 2 stage activated sludge process is installed and working satisfactory.



4	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>Storm water drain and waste water drain are kept separate.</p> <p>The condensate water from the sugar plant is reused for cooling tower makeup and other sugar plant requirement. Only the excess condensate is treated and disposed for agriculture.</p>
5	<p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.</p>	<p>Septic tank and soak pit are provided for the disposal of domestic sewage. However effluent from the process is treated in the ETP of 350 KLD capacity.</p>
6	<p>A well designed rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry within six months.</p>	<p>Compliance is as in condition no. 4</p>
7	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be</p>	<p>To maintain the noise level within the prescribed limits, the noise control measures including acoustic hoods, silencers, and enclosures are provided. The ambient Noise level is within the standard prescribed under EPA Rules, 1989.</p>



	periodically examined to maintain audiometric record & for treatment for any hearing loss including shifting to non noisy/less noisy areas.	
8	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Ambient air quality analysis is being carried out regularly at 3 locations. The Ambient Air Quality Monitoring Stations are also established as per the standards and in consultation with the SPCB officers. The results are also regularly submitted to regional office of KSPCB.
9	Well designed acoustic enclosures for the DG sets and noise emitting equipments to achieve the desirable insertion loss viz. 25 dB(A) should be provided.	The DG sets are provided with required acoustic measures to meet the stipulation
10	Additional soil for leveling of the sites should be generated within the site (to the extent possible) in a way that natural drainage system of the area is protected and improved.	The plot is flat terrain. No additional soil is used for leveling the site.
11	Storage facilities for auxiliary liquid fuel such as LDO / HFO / LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place	Noted and the auxiliary fuel such as liquid LCD/ HFO/ LSHS is not used to the boiler. HSD used for DG set



due to storage of oil.	is procured as and when required and stored at a secured place.
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12	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid kit is made available at various locations of the plant during construction. Now the plant in operation
13	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All necessary provisions were made to the workers during construction phase. Now the Plant commissioned and have well developed residential colony.
14	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Water supply in the tankers provided to village where the factory located.
15	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in enlistment of poorer sections of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programmed. Company shall provide separate budget for community development activities and	Skill development classes conducted in the nearby village's and those who have good skills.



	income generating programmes. Vocational training programme for possible self employment shall be imparted to pre identified villagers free of cost.	
16	An Environmental Cell comprising of atleast one expert in environmental science/engineering, occupational health and social scientist, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	Environmental cell is made and proper reporting system is also in place.
17	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in	Adhered accordingly



18	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Clearance copy is uploaded on company website.
19	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Clearance copy is uploaded on company website. And online monitoring data is connected to CPCB&SPCB server. Display board is installed in front of factory main gate
20	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent 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 status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Form V is regularly submitted to KSPCB.
	The project proponent shall submit six monthly reports on the status of the implementation of the	



21	<p>stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>	<p>Six monthly compliance reports is being submitted to regional office KSPCB.</p>
22	<p>Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	<p>Noted the condition and agreed. Compliance report with EC is uploaded to company website.</p>
23	<p>Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.</p>	<p>All the environmental protection measures recommended in the consent conditions and Environmental Clearance are implemented and being in operation successfully. An amount of Rs. 50 Lakhs is spent for</p>



		Pollution control measure as capital investment and the recurring cost for maintenance and environmental monitoring is Rs 10 Lakhs per annum.
24	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	As instructed the date of the commissioning of the plant was informed to Regional Office, SPCB and Obtained the Consent for establishment and consent for operation from SPCB
25	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	Noted the condition and full co-operation will be extended to the monitoring authority.
a	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Noted the condition and agreed.
b	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the	Noted the condition and agreed.



power plant.	
c Concealing factual data or submission of false/fabricated data and 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 the condition and agreed.



d	<p>In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.</p>	<p>Noted the condition and agreed.</p>
e	<p>The above stipulations would be enforced, among others under the Water (Prevention, and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Trans boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.</p>	<p>Noted the condition and agreed.</p>
f	<p>Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p>Noted the condition and agreed.</p>

For M/s Jamkhandi Sugars limited Unit II

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Chief Executive Officer

