

04/06/2019

SHREE RENUKA SUGARS LTD, UNIT IV SR.NO.367, VILLAGE – BURLATTI, TAL – ATHANI, DIST -
BELGAUM

COMPLIANCE TO THE MOEF – ENVIRONMENTAL CLEARANCE CONDITIONS

Expansion of existing 58 MW of Co-generation Power Plant by addition of 10 MW

REF: No.J-13012/92/2011-IA.II(T), dtd:20.08.2014

SL No	Conditions	Compliance
2	<p>It has been noted that the proposal is for expansion by addition of 10 MW of Co- generation Power Plant at Village Buralatti, Athani- Kokatnur Road, Athani Taluk, Belgaum District, in Karnataka. Environmental clearance for 58 MW was accorded on the recommendation of the EAC (Industry) on 23.10.2008. No additional land requirement will be required. Bagasse requirement will be 1400 TPD and will be sourced from own sugar plant and nearby sugar mills. No coal will be used as fuel. Water requirement of will be 1099 KLD, which will be sourced Krishna River. Proposed Boiler capacity will be 140 TPH, Stack of 75 m is proposed. There are no National Parks, Wildlife Sanctuaries, Heritage Sites, Tiger/Biosphere reserves etc.</p> <p>Within ten km of the project site. Public hearing was undertaken on 03.06.2008 for the sugar plant and expansion has been exempted while the proposal was considered for TOR and in accordance with the provisions of EIA notification 2006. A combined public hearing was under take non 03.06.2008 for the sugar plant and expansion of power plant from 38 MW to 58 MW. Public hearing for the proposed expansion has been exempted as para 7 (ii) of the EIA Notification, 2006 Cost of the project will be Rs. 99.0 Crores.</p>	<p>The present capacities are as follows. Sugar plant – 10000TCD. Co-generation – 68 MW Distillery – 300 KLPD. For Co-generation Capacity for 68 MW- Total 3 No. Boilers as follows. 60 TPH Capacity Boiler for incineration of spent wash and 130 TPH Capacity Boiler. Both these boilers are provided with independent ESP for Air pollution control and attached to the common stack/chimney of 85 M height. The 140 TPH Boiler is provided with individual ESP and stack height of 75 M.</p>
3	<p>The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.</p>	Noted
4	<p>Based on the information submitted by you, as at Para 2 above and others and presentation made before the Expert Appraisal Committee (Thermal Power) in its 58th Meeting held during October 8-9, 2012, by you and your consultant viz. M/S Aqua Tech Enviro Engineers, Bangalore, the ministry of Environment and provisions of EIA notification dated September</p>	Noted the conditions and compliance is as follows.

	14, 2006, subject to the compliance of the following Specific and General conditions :	
A	Specific Conditions	
(i)	No woody biomass and coal shall be used as fuel any point of time. Inventory of fuel used and stock pile duty verification by any concerned authority.	Noted the condition and same will be followed. Bagasse is being used as fuel. Inventory and stock of the fuel is being maintained regularly
(ii)	Wet scrubber shall be installed to control particulate emissions from Bagasse fired Boilers. Bag filters shall be also be provided for control of fugitive emissions from the ash handling areas.	The high efficiency independent ESP and stack of 75 m height is provided for Boiler 140 TPH to control particulate emissions
(iii)	It shall be ensured that the area drainage is not disturbed due to the proposed expansion.	The installation is in existing campus only and provided with concreted floor and drainage facility.
(iv)	Alternative source for meeting water requirement through conservation and harvesting shall be developed within the development of the project and use of ground water shall be not be permitted. The mechanism and starts for meeting the water requirement thereafter shall be specified and submitted to Regional Office of the Ministry.	The source of water is river. No ground water is used. In order to conserve and minimize fresh water requirement, Sugar condensate polishing unit and Distillery condensate polishing unit are already installed. The excess condensate of sugar plant and spent less and process condensate of Distillery Plant are being treated in respective CPU and reused to manufacturing processes. These condensate polishing units together helped to reduce the fresh water consumption by 4200 M3 per day.
(v)	A Stack of 75 m height with flue gas velocity not less than 22m/s shall be installed.	The independent Electrostatic Precipitator with 75 m stack height is provided for Boiler 140 TPH
(vi)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires especially during summer season. Copy of these measures with full details along with location plant Layout shall be submitted to the ministry as well as to the Regional Office of the Ministry.	Adequate safety measures are taken by implementing onsite and offsite emergency plan and providing fire extinguishers and fire hydrant lines wherever necessary.
(vii)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 DB (A) at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like ear plugs / ear muffs etc. Shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audio metric record and for treatment for any hearing loss including shifting to non noisy/ less noisy areas.	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. The noise level is attached with compliance to the Environment Clearance dated 23.10.2008
(viii)	The treated effluents conforming to the prescribed standards only shall be reused to the extent possible and excess discharged. Arrangements shall be made that effluents and storm water do not get mixed.	The effluent is being treated scientifically in well equipped ETP. Having Anaerobic treatment followed by Activated sludge process 2 stage Aeration. The outlet norms are well within the prescribed limits of KSPCB. The pollution control process and equipments are always under

		operations and maintained properly to avoid any brake down / failure in the system.
(ix)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used 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.	The septic tank followed soak pits are provided.
(x)	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.	As the plant is set up in existing premises near to existing Boilers there is no any disturbance to the water bodies and natural drains in the area.
(xi)	Monitoring surface water quantity 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 records maintained.	The surface and ground water quality monitoring stations are being regularly monitored and already maintained the records..
Xii	Waste water generated from the plant shall be treated before discharge to company limits prescribed by the SPCB/ CPCB.	Already well equipped ETP plant having Anaerobic treatment and activated sludge process with 2 stage aeration system is installed and working satisfactory.
Xiii	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.	The rainwater harvesting measures are provided to recharge the ground water in the area.
Xiv	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 already provided with required acoustic measures.
Xv	Additional soil for leveling of the sites should be generated within the site in a way that natural drainage system of the area is protected and improved.	There is no any natural drainage within the site. The existing leveled site is used for the expansion.
Xvi	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 the time bound manner.	The potable drinking water supply scheme is already implemented to the neighboring villages.
Xvii	An amount of Rs 4.402 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 0.08 Crores per annum till the life of the plant shall be earmarked as recurring expenditure of CSR activities. Details of the activities	The CSR activities are already started through Shree Renuka Institute of Rural development and Research NGO formed by SRSL.

	to be undertaken shall be submitted within four months along with road map for implementation to the Ministry.	
Xviii	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 upliftment 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 programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self employment shall be imparted to pre identified villages free of cost.	The developmental need of the area is already identified in order to improve socio economical condition of the area through our NGO Shree Renuka Sugars Institute for Rural development and Research. The ITI facility is provided for the vocational training of the rural youth to get self employment. The separate budget is provided for the activity.
Xix	It shall be ensured that in-built monitoring mechanism for schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	The in-built monitoring mechanism is in place by way of annual internal and external audit of the NGO Shree Renuka Sugars Institute for Rural development and Research.
Xx	Green Belt consisting of 3 tiers of plantation of native species around the plant and at least 50 m width all around shall be developed except in places not feasible which shall be clearly specified and justification submitted. The vegetation density of trees shall not be less than 2500 per ha and rate of survival at least 75%.	The green belt development is already undertaken and about 27446 No. trees of different species like Casuarinas, Eucalyptus, Acacia, Neem, Almond etc. are planted and the activity will be further continued. The green belt detail is attached with amended EC dated 29 th Nov.2012 compliance.
Xxi	An Environmental cell shall be created at the project site itself and shall be ensured that the Head of the cell shall directly report to the Head of the organization.	The Environmental cell is already established with well equipped laboratory for monitoring. The Environmental cell is attached with compliance to the Environment Clearance dated 23.10.2008
B.	General Conditions :	
(i)	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.	The effluent is being treated to achieve outlet parameters within the norms prescribed by KSPCB the results are already given above.
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Septic tank followed by soak pit is provided
(iii)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of	Fire hydrant system is already provided around the existing Bagasse yard.
(iv)	Storage facilities for auxiliary liquid fuel such as LCD/ HFO / LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur.	Noted and the auxiliary fuel such as liquid LCD/ HFO / LSHS is not used to the boiler.

	Sulphar content in the liquid fuel will not exceed 0.5 % Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Noted, The first aid boxes are already provided at required places in existing plant.
(vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85dB (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 periodically examined loss including shifting to non noisy /less noisy areas.	Noted and the protective equipments are already provided to workers
(vii)	Regular monitoring of ambient air ground level concentration of SO2, Nox, PM2.5 & PM10 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 location of the monitoring stations and frequency of monitoring shall be decided in the 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 and the Ambient Air Quality Monitoring Stations are also established as per the standards. The results are also regularly submitted to regional office.
(viii)	Provision shall be made for the housing of construction labors (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.	Housing facility with necessary infrastructure was provided to the construction labors. However the construction activity is completed and presently no construction labors are staying at the site. All the construction waste is properly managed to avoid the impact on surrounding environment.
(ix)	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 within 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 .	The advertisement is already published in two local newspapers.
(x)	A Copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Panchayat/ Municipal Corporation, urban local Body and the local NGO, if any from whom suggestions /representations,	Noted and will be sent to concerned local bodies and clearance will be put on company website

	if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
(xi)	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 (PM2.5 & PM10), SO2, Nox (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.	Noted the condition and will be followed.
(xii)	The environment statement for each financial year ending 31st 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by email.	The Environmental Statement for the year 2016-17 for the period ending 31st March 2017 is submitted to SPCB & year 2017-18 will be submitted before 5 th Spet 2018
Xiii	The project proponent shall submit six monthly reports on the status of the implementation of the 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.	Noted the condition and will submit the six monthly compliance to mentioned authorities.
xiv	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.	Noted the condition and agreed.

xv	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.	All the environmental protection measures recommended in the consent conditions and Environmental Clearance are already implemented and being in operation successfully.
xvi	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 is informed to Regional Office, SPCB and Obtained the Consent for establishment and consent for operation from SPCB.
xvii	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.
5	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
6	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Noted the condition and agreed
7	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
8	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	Noted the condition and agreed
9	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 & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability	Noted and will be complied.

	Insurance Act, 1991 and its amendments	
10	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.	Noted the condition