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Ref: GSL/Distillery/EC- CR/2024-25

Date: 3<sup>rd</sup> December,2024

**To,**

**The Joint Director**

**Government of India, Environment, Forest & Climate Change**

**Regional Office (South Zone)**

**Kendriya Sadan. IVth Floor, E7F Wing, 17<sup>th</sup> Main Road**

**IIInd Block, Koramangala,**

**Bengaluru – 560034**

**Karnataka**

**Respected Sir,**

**Sub:** Gem Sugars Limited, Kundargi-Distillery division Submission of Half Yearly Compliance Report-Environmental Clearance issued by the Ministry of Environment Forests & Climate Change - intimation –reg.

**Ref:** 1.0 ENVIRONMENTAL CLEARANCE letter No.J-11011/93/2012-IA, II(I) dated 14.2.2015

2.0 ENVIRONMENTAL CLEARANCE letter No,J1101/93/2012-IA, II(I) dated 01.03.2021

With reference to the EC vide ref(1), issued for our project "Installation of Molasses based distillery plant (60 KLPD) along with captive power plant (2 MW) in the existing sugar plant (6500 TCD) along with Cogeneration plant (22.5 MW) at parts of Sy. Nos.125 to 134,325 to 328, Village Kundaragi, Taluk Bilgi, Dist. Bagalkot,

And EC vide ref(2) distillery is approved for 120 KLPD and the captive power plant of 4 mw whereas ,the distillery capacity presently expanded to 90 KLPD Ethanol using syrup and BH molasses and the existing captive power plant is 2.0 MW is in operation

As per the guidelines mentioned in the letter we are submitting the Half Yearly Compliance Report from **April-2024 to September-2024** for the expanded capacity from 60 KLPD to 90 KLPD using our internal accruals only and there is no financial closure . we have also obtained CFO for 90 KLPD from KSPCB as part of the obtained EC for 120 KLPD Vide Letter No: J-11011/93/2012-IA, II(I) dt. 01.03.2021.

The soft copy sent to the email: [rsoz.bng-mef@nic.in](mailto:rsoz.bng-mef@nic.in)

This is for your information and records.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours Faithfully,

**For GEM SUGARS LIMITED,**

  
**Authorized signatory**

**Encl: 1. Compliance Report.**

**CC To:1. The Environmental Officer, Regional Office KSPCB.Sector-7, Bypass Road, Navanagar, Bagalkot-587112.**

**2. Regional Office Central Pollution Control Board, Bangalore**

**A.SPECIFIC CONDITIONS**

S.N	CONDITIONS	COMPLIANCE
1	The company shall comply with all the environmental protection measures and safe guards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk migration measures relating to the project shall be implemented.	Adhered ; The risk mitigation measures are implemented and all the statutory requirements are obtained from the monitoring authorities on regular basis . The spent wash is concentrated and Completely Incinerated in the Boiler . The process condensate along with other utility waste water is treated the Process condensate treatment plant and reused in the cooling tower make up and in the fermentation for molasses dilution.
2	The project proponent will treat and reuse the treated water with in the factory and no water or treated water shall be discharged outside the premises.	The company is strictly adhere to the stipulation made by the pollution Control Board and MOEF & CC
3	Total fresh water requirement shall not exceed 948m3/day and it will be met from River Krishna. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard and renewed from time to time. No ground water shall be permitted with in the premises.	The fresh water consumption is with in the permitted quantity only . The required permission are obtained from the concerned regulatory authority and being renewed .
4	Spent wash shall be treated using concentration and drying to form Potash rich manure	The spent wash generated is concentrated in the Multiple Effect evaporator and the final concentrated spent wash is incinerated in the spent wash incineration Boiler and the final ash which is rich in potash is sold to the bio potash manufacturers
5	CO2 generated from the process shall be bottled/made solid ice and utilized/solid to authorized vendors.	The company is in the process to establish liquid Co2 plant / dry ice plant and the final product will be sold to authorized vendors
6	Occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers and employees shall be provided with require safety kits/mask for personal protection.	The Company is already provided Health Clinic at the premises of the factory with a qualified Doctor and assistant and health records of each employee are being maintained on regular basis .
7	Training shall be imparted to all the employees on safety and health aspects for chemical handling. Safety and visual reality training shall be provided to employees.	Training imparted to employee on safety, firefighting by internal and external resource
8	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms	Fire hydrant and fire fighting system are in place and critical mass of the employees are well trained in handling firefighting in the manufacturing process and material handling system – Every year the system are being inspected and the company is having certificate for the same .
9	Process organic residue and spent carbon, if any, shall be sent to cement and other suitable industries for its incinerations. ETP Sludge, Process inorganic and evaporation salt shall be disposed of to the TSDF.	Not applicable -

10	<p>The company shall undertake waste minimization measures as below</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Re-use of by products from the process as raw material substitutes in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of closed feed system into batch reactors.</p> <p>(e) Venting equipment through vapor recovery system.</p> <p>(f) Use of high pressure hoses for equipment clearing to reduce waste water generation.</p>	<p>The process chemical addition through metering / dosing pumps are practiced</p> <p>The fly ash is rich in potash is sold to bio-potash/ manure manufactures. Process condensate is treated and reused in place of fresh water ,</p> <p>The final product is filled by using the metering device with closed loop system only (leak proof )</p> <p>Fed batch process is being followed in the fermentation process with maximum recycle of effluent to process adopted</p> <p>NA</p> <p>For Evaporator tube cleaning we are always using high pressure water jet for the removal of the scales and maintained consistency in efficiency ,there by minimum water used and the effluent generation</p>
11	The green belt of at least 5-10m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest department. Records of tree canopy shall be monitored through remote sensing map.	Greenery development is carried out on regular basis as per the guide lines . selection of species as per the CPCB guide lines and with support from State Forestry Officials
12	As per the ministry's OM dated 30.09.2020 super shading the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds, in technical training centers/support in nearby villages schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within the time as proposed.	The company is implementing CSR and CER activities in and around the area and nearby villages on regular basis as per their requirements. Technical training imparted for the farmers in cane developments and inter crops etc . support in nearby schools by providing note book and supporting sports activities by financial support . medical camps are organized jointly with the village administration authorities . Extending medical facility in our health care center to the public etc.
13	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	The company is having its own adequate area inside the premises for the vehicles parking for the cane handling and the finished product .
14	Storage of raw materials shall be either stored in silos or in covered areas to prevent Continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. dust pollution and other fugitive emissions.	Sugar Cane is transported by trucks on daily basis . Molasses is completely stored in Closed Milled steel tanks only .

15	Continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent with in the premises.	Continuous on line ( 24 *7 ) monitoring system for the boiler stack emission was installed and the data are transmitted to the CPCB and SPCB server directly .For on line Continuous Effluent monitoring ,the company has installed web camara having night vision capability and required flow meters for the effluent flow measurement in the premises and regularly checked and verified by KSPCB official also .
16	A separate Environmental Management Cell (having qualified person with Environment Science/Environmental Engineering/Specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Separate Environmental cell is function and headed by unit head ( VP ) and regular meeting and environmental improvement points are discussed and improved . Required environmental laboratory facilities are established for the requirement of environmental management and monitoring functions.

#### B.GENERAL CONDITIONS.

SI.No	CONDITION	COMPLIANCE
1	No further expansion or modification in the plant other than mentioned in the EIA notification 2006 and its amendments shall be carried out without prior approval of the ministry of Environment & Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this ministry for 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.	New EC for expansion received from 60 KLPD to 120 KLPD  EC No: J-11011/93/2012-1A 11(I) Dated 01.03.2021
2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	The company has installed solar power panels having 20 Kw capacity and the power is used for street lighting . further all the lighting were completely changed to LED type form energy conservation purpose
3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under environment (protection) Act, 1986 Rules, 1989 VIZ 75 dBA(day time) and 70dBA (night time).	The DG sets were provided acoustic hoods , enclosures to control the Noise level with in Limits . The noise levels are also measured and monitored and the ambient noise levels are well with in the standard .
4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project	The company has undertaken the relevant measures for improving the socio-economic conditions of surrounding area , CER activities also undertaken involving local villages on regular basis as per the requirement .

	area for the overall improvement of the environment.	
5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the ministry of Environment and Forests as well as the state government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.	Capital cost and recurring cost for monitoring, analysis and also maintenance of the pollution control equipment are budgeted and incurred as per the requirement every year and documented
6	A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, zilla parishad/Municipal corporation, urban local body and the local NGO. If any from whom suggestions/representations, if any, were received while processing the proposal.	Implemented
7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MoEF & CC, the respective zonal office of CPCB and SPCB. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the company.	Half yearly compliance report is submitted to the Reginal office of MOEF & CC, also in the web site <b>rsoz.bng-mef@nic.in</b> and zonal office of CPCB and KSPCB and also in the gem sugars ltd company web site ( <a href="http://www.gemsugars.com">www.gemsugars.com</a> )
8	The Environmental statement for each financial year ending 31st March in form-V as is mandated shall be submitted to the concerned SPCB as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the web site of the company along with the status of the compliance of Environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF & CC by e-mail.	The Environmental statement for each financial year ending 31 <sup>st</sup> march In Form- V is submitted along with half yearly compliance report to the Reginal office of MOEF & CC ( Bangalore ) and state Pollution Control Board office -Bagalkot t
9	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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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 concerned Regional office of Ministry.	Completed as per the requirements

10	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 enhanced the ethanol production capacity from 60 KLPD to 90 KLPD using Syrup/ BH-molasses by using our internal accruals and not availed any financial closure .The present EC condition is for 120 KLPD and however presently the Distillery is having capacity to 90 KLPD Ethanol production only -
11	The Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other court of Law, if any, as may be applicable to this project.	Agreed

This is for your information.

Thanking You,

Yours Faithfully,  
For GEM SUGARS LIMITED,

  
Authorized signatory