**Compliance Report**

**As per conditions stipulated in**

**Environmental Clearance**

**Letter No. J-11011/237/2015-IA II(I), Dated 15th November, 2018**

**For**

**140 KLPD Grain Based Distillery along with**

**3.8 MW Cogeneration Power Plant**

**At**

**Village- Village- Shyampur, Tehsil Behror,**

**Distt. Alwar, Rajasthan**

**By**

**M/s. Globus Spirits Limited**

**A) SPECIFIC CONDITIONS**

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| --- | --- | --- |
| **S.No.** | **Conditions** | **Compliance Status** |
| i) | The Environment Clearance shall be valid for a period of one year. Meanwhile, based on certified compliance report for the conditions stipulated in the EC and the prevailing status for no increase in pollution load at the enhanced capacity of 140 KLPD, the project shall be reviewed by the EAC for its continuance. | OK, will comply. |
| ii) | Consent to Establish/ Operate for the project shall be obtained from the State Pollution Control Board as required under the Air ( Prevention and Control of Pollution) Act, 1981 and the Water( Prevention and Control of Pollution) Act, 1974. | We have already obtained Consent to Operate from the State Pollution Control Board vide Order No. 2018-2019/PDF/3864, File No.F(Plan)/Alwar(Behror)/3(1)/2014-2015/5679-5681 dated 20/12/2018, valid upto 31.10.2023. Copy attached as **Annexure-1** |
| iii) | As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/ treated water shall be discharged outside the premises. | We are following “ Zero “ Discharge and no effluent is being discharged outside the premises. |
| iv) | Necessary authorization required under the Hazardous and other Wastes ( Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to. | We have already obtained authorization vide letter No.F(HSW)/Alwar(Behror)/2642(1)/2016-2017/7816-7818 dated 18.10.2016, valid upto 31.07.2021. Copy attached as **Annexure-2** |
| v) | To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. | We have already provided the necessary control measures for checking fugitive emissions from all the vulnerable sources like rice husk is stored in covered area and ash is kept wet. Emission limit imposed by SPCB, is kept maintained. Online monitoring system has already been installed for monitoring of stack emission. The report attached as **Annexure-3** |
| vi) | Total fresh water requirement shall not exceed the present of 552 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority in this regard. | We are consuming water 552 m3/day only and there is no consumption of additional water over and above the current use i.e. 552 m3/day.  We have already applied with CGWA for permission vide application No.21-4/1667/RJ/IND/2017 and file is under progress. The status report is attached herewith as **Annexure-4** |
| vii) | The spent wash of 816 KLD quantity will be treated through centrifuged decanter for solid separation, supernatant will be concentrate in MEE and concentrate from MEE will be mixed with the Wet cake. | Spent wash called slops is being passed through  Centrifuge Decanters, where suspended solids is separated and Multi effect evaporators(MEE), where Thin Slops comprising 6-7% w/w Total Solids is concentrated up to 28-30% w/w.  The thin slop separated from Centrifuge Decanters is  further concentrate from 8-10% w/w feed solids to 34-36%  w/w solids and generated process condensate is recycled  for process use. The condensate of MEE is being used in the  process and thick slop is mixed with the sludge which is  separated from the Decanter is being sent to Dryer.  The DDGS produced from the Dryer is being sold to the  parties, who use the same for cattle feed. Flow Chart  along with photographs of MEE & Dryers are  attached as **Annexure-** 5**.**  Installed Vapor Integration Plant attached to Dryers so that  vapor could be used to solidify DWGS and sending back to  Dryer to produce DDGS. The condensate of stream and  vapor are going back to Boiler. Photographs of Vapor  Integration Plant is attached  herewith as **Annexure- 6**    Spent lees and utilities waste water is being recycled/reused in the process. We are maintaining Zero Liquid Discharge. |
| viii) | Process effluent/ any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. | Storm water drain passed through guard pond and not allowed to mix with processed effluent or any waste water. |
| ix) | Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tanks farm and the solvent transfer through pumps. | Being complied . |
| x) | Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. | Being complied. |
| xi) | The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals(MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act(MVA), 1989. | Being complied . |
| xii) | The Company shall undertake waste minimization measures as below:-   1. Metering and control of quantities of active ingredients to minimize waste. 2. Re-use of by-products from the process as raw materials or as raw material substitutes in other process. 3. Use of automated filling to minimize spillage. 4. Use of Closed Feed system into batch reactors. 5. Venting equipment through vapor recovery system. 6. Use of high pressure hoses for equipment clearing to reduce wastewater generation. | 1. Being complied- we have already installed Centrifugal Decanters followed by MEE, VI and Dryer. 2. Being complied- Co2 generated from fermentation process is being collected and stored in tank and sold to authorized vendors. 3. We have already adopted automated filling to minimize spillage. 4. We have already adopted closed feed system. 5. Being complied- We have already installed the Dryers to convert the DWGS to DDGS and by utilizing it’s vapour heat in newly installed Vapour Integration system, we could reduce the steam consumption in Multi Effect Evaporator Plant. Further, by adopting the high grade of insulation on saturated steam lines in the plant by maintaining the insulation skin temperature 15 deg C above ambient temperature and introducing the combination OFFLOAT-AND-THERMOOSTATIC (F&T), thermodynamic & ball float type steam traps and collecting all the condensate to take it back to Boiler we could also reduce the steam wastage from 10% to 5%. It reduces the requirement of fresh water to generate the steam.) 6. We have already provided high pressure hoses to reduce waste water generation. |
| xiii) | The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. | We have already developed green belt in approx 2.4 ha. i.e. more than 33% of the total project area as per the CPCB guidelines in consultation with DFO. The details of plantation is as under:-  **Trees:**  Old - 333 nos  New planted during this rainy season- 35 nos.  **368 nos.**  **Shrubs:**  Old - 8912 nos  New planted during this rainy season- 500 nos.  **9412 nos**  **Photographs of plantation/greenbelt attached as** **Annexure-7** |
| xiv) | All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented. | The issues raised during public hearing was mainly of discharge of waste water and thereby nuisance of housefly. We have achieved Zero Liquid Discharge by putting Decanters, Multi Effect Evaporators, Dryers and Vapor Integration System. Since we are maintaining Zero Liquid Discharge, there is no nuisance of housefly. We have also deployed a well known pest control agency to carry out pesticide spray on regular basis. |
| xv) | At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility(CER) and item-wise details alongwith with time bound action plant shall be prepared and submitted to the Ministry`s Regional Office. | We have spent Rs.21.70 lac during the financial year 2018-19 by donating to M/s. India Paryavaran Sahayak Foundation (IPSF), for the below mentioned project.  **Brief about the activities:** It is common knowledge that most of North India has been plagued with toxic air over the last few years and a large part of the reason is in-field burning of rice stubble. This has dire long term impact on health for a very large share of population with children and senior citizens affected the most. Due to low visibility in rural/suburban north India, several road accidents and many of them resulting in fatalities have also been reported. The initiative is born out of this desperation to fix the problem.  **The Solution:** There are several options available, the one that has been narrowed down on involves a piece of equipment known as the Happy Seeder. This is a simple and cost effective tool that has the capability of sowing the wheat seed through the stubble and requires only a tractor to be mounted to. The stubble is left in the field and acts as a natural fertilizer. There are many farmers that have been using this technique and have avoided burning their fields successfully. The tool has also seen a few rice/wheat crop cycles and the farmers who have been deploying this technique are happy with it. We believe that this is a solution that has the potential to be adopted across North India. The details of expenses incurred during the financial year 2018-19 is attached as **Annexure-8.** |
| xvi) | For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution. | Adequate stack height is provided as per CPCB guidelines. Acoustic enclosure has also been provided to the DG sets to control the noise pollution. The details of DG sets are as under:-   |  |  |  | | --- | --- | --- | | Capacity | Stack Height | Type of Control | | 600 KVA | 6.5 M | Acoustic enclosure/stack | | 320 KVA | 3.6 M | Acoustic enclosure/stack | |
| xvii) | The Unit shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. | We have already provided following fire protection facilities to cover all areas where alcohol is produced, handled and stored:   1. Water hydrant system 2. Fire Extinguishers 3. First Aid fire fighting equipments 4. Fire Safety Training. |
| xviii) | Occupational health surveillance of the workers shall be done on regular basis and records maintained as per the Factories Act. | We are undertaking Occupational health surveillance programme as regular exercise for all the employees. **Reports attached as Annexure-9** |
| xix) | There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw material and finished products, and no parking to the allowed outside on public places. | Dedicated vehicle parking facility has already been provided in the factory premises for loading and unloading of materials. And also developed and implemented good traffic management |
| xx) | Storage of raw materials shall be either in silos or covered area to prevent dust pollution and other fugitive emissions. | We are storing the raw material in covered area to prevent dust pollution and other fugitive emissions.  . |
| xxi) | Continuous online(24x7) monitoring system for stack emission 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 within the premises. | We have already provided necessary control measures for checking fugitive emissions from all the vulnerable sources and the emission is maintaining under the limits imposed by CPCB and SPCB.  Online stack emission monitoring system, Web Camera with night vision capacity and Flow meters have already been installed and connected with CPCB and SPCB server. Photographs attached as **Annexure-10** |
| xxii) | C02 generated from the process shall be bottled and sold to authorized vendors. | We have already installed and commissioned 2 nos. of Co2 Plants(30 MT capacity each) to collect the CO2 generated from the process and it is being sold to authorized vendors. |
|  | **GENERAL CONDITIONS** |  |
| (i) | The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, | We are strictly adhering to the stipulations made by SPCB and CPCB. |
| (ii) | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and climate change. In case of deviations or alternations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required if any. | We will not carry out any further expansion or modification in the Plant without prior approval of the MoEF &CC. |
| (iii) | The locations of ambient air quality monitoring stations shall be decided in consultation with the Rajasthan State Pollution Control Board (SPCB)and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. | The locations of ambient air quality monitoring stations have already been installed in consultation with the Rajasthan State Pollution Control Board and monitoring is being done regularly. **Report attached herewith as Annexure-11.** |
| (iv) | The National Ambient Air Quality Emission Standards issued by the Ministry vide GSR No.826(E) dated 16th November, 2009 shall be followed. | We are adhering to the National Ambient Air Quality Emission Standards as per the notification issued. |
| (v) | 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, silencers, 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 70 dBA (night time) | We have already provided noise control measures to keep overall noise levels in and around the plant area within the standards . **Reports attached herewith as Annexure-12** |
| (vi) | The Company shall harvest rainwater from the roof-tops of the building 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. | 6 numbers of Rain water harvesting pits have already been constructed on site to recharge the groundwater. |
| (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 are giving periodically training to all employees on safety and health aspects. |
| (viii) | The Company shall also comply with all the environmental protection measures and safeguards proposed in the project report 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 proposed in the project report submitted to the Ministry. |
| (ix) | The Company shall undertake all relevant measures for improving socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villagers and administration. | We are undertaking all relevant measures for improving socio-economic conditions of the surrounding area and also undertaking ESC activities by involving local villagers and administration for the overall improvement of the environment. |
| (x) | The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment**.** | We are undertaking eco-development measures including community welfare measures in the project area for the overall improvement of the environment**.** |
| (xi) | 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. | We have earmarked sufficient funds towards capital cost and recurring cost to implement the conditions stipulated by the Ministry of Environment and Forests. However, the total expenditure incurred for compliance of stipulated conditions from the financial year 2011-12 to 2018-19 is Rs.77.46 crore. The item wise details on yearly basis are attached as **Annexure-13.** |
| (xii) | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from who suggestions, representations, if any, were received while processing the proposal. | We have already sent copy of the clearance letter to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO. |
| (xiii) | 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, the respective Zonal Office of CPCB and the Rajasthan Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company. | We are submitting six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions on regular basis. |
| (xiv) | The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Rajasthan Pollution Control Board as prescribed under 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 Lucknow Regional Office of MoEF by e-mail. | We are submitting regularly the Environmental Statement for each financial year ending 31st March in Form-V. |
| (xv) | 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.//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 concerned Regional Office of the Ministry. | We have already informed 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.//envfor.nic.in. |
| (xvi) | 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 project. | We have already complied. |
| 10.0 | The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | O.K, we will implement, if any additional condition is stipulated on us. |

We hope that your good self will find the above in order and oblige.

Thanking you,

Yours faithfully,

**For GLOBUS SPIRITS LIMITED,**

**(R.K. MALIK)**

**PRESIDENT-OPERATION(NORTH)**

Encl: Annexures