सत्यमेव जयते

Government of India
Ministry of Environment, Forest & Climate Change
Eastern Regional Office
A/3 Chandrasekharpur,
Bhubaneswar – 751 023

Ph : 0674-2301213, 2301248, 2302452, 2302453, Fax : 2302432, E mail : roez.bsr-mef@nic.in

No. 102-534/EPE

24.11.2017

To

M/s Globus Spirit Ltd.
F-0, Ground Floor, The Mira Corporate Suites, Plot No, 1& 2,
Ishwar Nagar, Mathura Road, New Delhi-65

Sub: Issue of certified compliance report in respect of Grain Based Distillery (120 KLPD) along with Cogeneration Power Plant (3.5 MW) at Panagarh Industrial Park, Panagarh, District: Burdwan, West Bengal by M/s Globus Spirits Ltd.

Ref: Ministry's EC No. J-11011/337/2013 IA II (I) dated 15th May, 2015.

The PAs have complied or are in process of complying with the conditions stipulated by the Ministry. During visit, officials of M/s Global Spirit Ltd. viz., Shri M.L. Dutta, Executive Director, Dr. Bhaskar Roy, Executive Director, Shri Pankaj Kumar Tyagi, Unit head, Shri Kailsah, Safety officer etc. were present. During monitoring it has been found that the project is in operation with below 120 KLPD in 7.61 ha land. Along with distillery plant, PAs also have bottling unit (4 lines) and CO_2 plant (60 TPD). They have obtained NOC from West Bengal State Pollution Control Board (WBSPCB) vide communication No. 2535-5/WPBD-NOC (5586)/14 dated 24.09.2014 and CTO vide No. C00902880 dated 17.3.2016, which is valid up to 28.2.2019. PAs have obtained ToR vide letter No. J-11011/155/2017-IA-II (I) dated 6.11.2017 for the expansion of the grain based distillery from 12 KLPD to 240 KLPD and Co-gen by 3.5 to 8 MW within same land. The PAs have complied or are in process of complying with the conditions stipulated by the Ministry. In this context, information/action plans have been sought on following points:

1. It has been noticed that housekeeping needs to be improved in certain areas,
2. It has been found that developed plantation is insufficient. It is requested to cover minimum 33% area as green belt on priority basis. Therefore, action plan in this regard may submitted to Regional Office,
3. It has been found that PAs are not submitting the six monthly compliance reports and Environmental Statement on regular basis. Therefore, it is requested to submit six monthly compliance report and Environmental Statement on regular basis,
4. It has been found that PAs have not yet setup the rain water harvesting pits in the factory premises under consultation with CGWA/CGWB for its further direction.
5. Copy of the advertisement regarding accordance of environmental clearance to the project should be submitted to this Regional Office.

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

SN	Specific conditions	Compliance Status
i.	**Distillery unit shall be based on Grain based only and no Molasses based distillery unit shall be operated. The unit will use bagasse if available.**	It has been found that PAs have setup 120 KLPD Grain based distillery unit. No Molasses based distillery unit has been installed so far.
ii	**ESP along with stack of adequate height shall be provided to husk/coal fired boiler to control particulate emission within 50 mg/Nm^3. At no time, the emission levels should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.**	It has been found that PAs have installed ESP along with stack of adequate height (60 meter) which has already been provided to boiler (35 TPH) to control particulate emissions within 50 mg/Nm^3. They have also set up continuous online monitoring system for stack emissions which is found working during monitoring.
iii.	**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 and conveyance of chemicals/ materials, multi cyclone separator & water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area, etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits imposed by WBSPCB.**	It was stated and noticed that PAs have taken several measures for controlling of fugitive emissions from all the vulnerable sources which are furnished below : i. The roads within the premises are concrete / paved to avoid vehicular dust. ii. All transportation vehicles carry a valid PUC (Pollution under Control). iii. Proper servicing & maintenance of vehicles is being carried out. iv. Regular sweeping of all the roads & floors is being done. v. Regular water sprinkling system is provided at loading and unloading areas and road to control dust emission. vi. Work zone environment, product & raw materials storage area etc. are regularly maintained & provided with closed storage & transfer of materials is being done by closed conveyors. vii. Adequate greenbelt shall be developed in the plant area. Greenbelt acts as surface for settling of dust particles & thus will reduce the particulate matter in air. viii. Ambient air quality is regularly monitored.
iv	**Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.**	It has been found that approach road to the project site is under construction by West Bengal Industrial Development Corporation Limited. However, inside factory road has already been constructed as RCC by PAs, which is being maintained with water sprinkling system within distillery to minimize fugitive emission.
v	**The gaseous emissions from DG set shall be dispersed through adequate stack height as**	It has been found that PAs have installed one D.G. set of 1250 KVA for the power backup. As stated stack

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

	per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	height of the D.G. set is 8 m above nearest building as per CPCB norms. Also Acoustic enclosure is provided to the DG sets to mitigate the noise pollution.
vi	**The Company shall upload the status of compliance of the stipulated environmental clearance, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF & CC. The respective Zonal office of CPCB and the WBSPCB. The levels of PM_{10}, $PM_{2.5}$, SO_2, NOx, CO, HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate and at important public places.**	As per record available in this office, PAs are submitting six monthly compliance reports along with analytical reports to this office. Manual display of the ambient air quality data has also been done at a location near the main gate of the company. However, they have assured to display above information on the company's website within a month.
vii	**Total fresh water requirement from ground water source/ surface water supply shall not exceed 1205 m^3/day for distillery and cogeneration unit and prior permission shall be obtained from the GWA/SGWA. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.**	As stated, total fresh water requirement from ground water for distillery and co-generation has never exceeded 1205 m^3 per day. They have also obtained permission for the drawl of water from bore wells by West Bengal Groundwater Resource Development Authority vide letter No. 66491 (30 m^3/hr), 66718 (35 m^3/hr), 66498 (35 m^3/hr), 66717 (30 m^3/hr). They are also recycling the treated water in several processes.
viii	**Spent wash generation shall not exceed 6 KI/KI of alcohol. Spent wash shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DWGS will be sent to dryer to form DOGS. The spent less and condensate will be treated in UASBR followed by aerobic treatment and sand filtration /charcoal filtration. Treated effluent will be used for makeup water of cooling towers and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and recycle/reuse. Online water monitoring system shall be installed for important parameters.**	It has been found that PAs are generating spent wash which is below 6 KL/KL of alcohol production. Spent wash is taken through centrifuge decanters and thin slops from the decanter centrifuge are partly recycled back to process (30-35%) and partly taken to Thins slops evaporation plant for concentration of remaining solids to form syrup. This syrup is also mixed into the wet cake coming out of centrifuge and passes through steam tube bundle dryer which is used as cattle feed. The spent less and condensate is treated in UASBR followed by aerobic treatment and sand filtration /charcoal filtration and treated effluent is completely reused/ recycled within plant. No effluent is being discharged outside the distillery plant premises and Zero Effluent discharge. Online camera & flow meter has been installed by the company which is connected with the CPCB server.
ix	**Automatic /online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.**	It has been found that PAs have installed automatic/online monitoring instrument and stated that data is made available to the CPCB server.

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C(
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

x	**No effluent from distillery and cogeneration power plant shall be discharged outside the factory premises and 'Zero' effluent discharge concept shall be adopted.**	As stated earlier, PAs have ETP and multi effect evaporator which is working satisfactorily. No effluent is being discharged outside the plant premises and zero effluent discharge condition is complied.
xi	**Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.**	Storm water is being passed to guard pond through storm water drains in industrial premises. However, process effluent is being treated in ETP.
xii	**Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall 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 Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office at Bhubaneswar and WBSPCB.**	Ground water quality monitoring station have been identified /provided. Sampling and trend analysis monitoring is being carried out regularly and submitted to the Ministry & WBPCB. It was found during monitoring that 5 nos. of piezometers are installed by the Company.
xiii	**No storage of wet cake shall be done at site to avoid odour problem. An additional dryer shall be installed so that at any time wet cake is not sold then wet cake shall be converted into dry cake by operating additional dryer.**	It has been found that PAs are not storing the wet cake in the plant. Team tube bundle dryer has been installed by the company. Wet cake is directly fed to the dryers and the DDGS is produced & sold as cattle feed.
xiv	**Coal storage shall be done in such a way that it does not get air borne or fly around due to wind. For this, it shall be kept in wet form.**	It has been found that PAs are having covered shed for storage of coal/ rice husk to avoid air born or fly around due to wind.
xv	**Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.**	It was stated by PAs that boiler ash is being stored in silos. Fly ash from the plant is supplied to the brick manufacturers in closed bulkers.
xvi	**Fire fighting system shall be as per norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank.**	Fire fighting facility is provided in alcohol storage and handling area. Provision of foam system for fire fighting to control fire from the alcohol storage tank is provided.
xvii	**Risk Assessment shall 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 Bhubaneswar within six months.**	It has been stated that risk assessment has been carried out to assess the fire and explosion risk due to storage of alcohol. Report in this regard is yet to be submitted.
xviii	**Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained**	It has been stated by the project proponent that they are conducting occupational health surveillance programme once in a year for all the employees & first aid facilities in the occupational health centre have been strengthened. Records are being maintained at the plant.

(डॉ. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

	separately.	
xix	**Dedicated parking facility for loading and unloading of material 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.**	It has been found during monitoring that dedicated parking facility for loading and unloading of material has been provided in the plant premises.
xx	**As proposed, green belt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.**	As per preamble of EC, out of the total plant area of 18.81 acre, 6.2 acre (i.e. 33%) is dedicated for greenbelt & is under development along plant boundary & roads. It has also been stated that selection of saplings of local species has been made for plantation in consultation with DFO.
xxi	**All the commitment made regarding issues raised during the Public Hearing/ consultation meeting held on 28th November, 2014 shall be satisfactorily implemented.**	It was stated that the commitments made during public hearing/consultation meeting by the project proponent are being complied with.
xxii	**At least 5 % of the total cost of the project shall be earmarked towards the Enterprise social responsibility based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.**	It has been stated by the project proponent that 5 % of the total cost of the project i.e. Rs. 5.5 Crore (for next 5 years) is earmarked towards the Enterprise social responsibility. It has also been stated by the PAs that a plan is being carried out in consultation with local bodies to understand the local needs and accordingly ESC plan is under implementation.
xxiii	**Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.**	This condition is not applicable at this moment as the construction work of the project has already been completed and now it is in operation.
B. General Condition:		
i	**The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.**	It has been found that PAs are complying or in process to comply the condition stipulated by WBPCB and state government. They have obtained NOC from WBPCB vide communication No.2535-5/WPBD-NOC (5586)/14 dated 24.09.2014 and CTO vide communication No. C00902880 dated 17.3.2016, which is valid up to 28.02.2019.
ii	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forest. In case of deviations in the project proposal from those submitted to this**	It has been found that PAs have obtained ToR vide letter No. J-11011/155/2017-IA-II (I) dated 6.11.2017 for the expansion of the grain based distillery from 12 KLPD to 240 KLPD and Co-gen by 3.5 to 8 MW within same land.

(डॉ. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

	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.	
iii	**The locations of ambient air quality monitoring stations shall be decided in consultation with the West Bengal State Pollution Control Board (WBSPB) and it shall be ensured that least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.**	It has been stated that five numbers of Ambient Air Quality monitoring stations are provided in consultation with WBPCB. Third party analysis of Ambient Air quality has also been conducted by M/s GREENCINDIA Consulting Pvt. Ltd, Ghaziabad, which is NABL accredited laboratory. As per analysis report dated 30.04.2017, data are found within the limit. Location / Month Range PM_{10} ($\mu g/m^3$): Arijinpur 67.8-80.3; Chandipur 67.3-81.3; Kotagram 69.8-82.5 $PM_{2.5}$ ($\mu g/m^3$): Arijinpur 23.1-33.6; Chandipur 23.1-33.6; Kotagram 36.6-42.7 SO_2 ($\mu g/m^3$): Arijinpur 11.1-17.1; Chandipur 9.1-17.5; Kotagram 9.3-16.4 NO_2 ($\mu g/m^3$): Arijinpur 10.6-16.5; Chandipur 10.8-16.4; Kotagram 13.5-22.4 CO (mg/m^3): Arijinpur BDL; Chandipur BDL; Kotagram BDL
iv	**The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).**	It has been stated that the noise level within the factory premises is being monitored regularly and the noise level is within the prescribed limit.
v	**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.**	It has been found that the rain water harvesting pit and storm water drain have been constructed for conservation of water. It is required to clean storm water drain before and after the rainy season.
vi	**During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains.**	It has been stated that various safety provisions have been made for avoiding any mixing of accidental spillage with domestic waste water and storm water drains.
vii	**Usage of personnel protection equipments by all employees/workers shall be ensured.**	It has been found during monitoring that employees/workers are using personnel protective equipments. It is requested to put more fire and safety signage board in loading and unloading area for better compliance.
viii	**Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all**	It has been stated that regular training is being given to employees on handling of chemicals and safety aspect. It is also required to educate the truck driver, daily wages worker on safety and

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023

	employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	common environmental issues on regular basis.
ix	**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.**	It was stated that the condition is being complied with.
x	**The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.**	It has been stated by the project proponent that 5 % of the total cost of the project i.e. Rs. 5.5 Crore (for next 5 years) is earmarked towards the Enterprise social responsibility. It has also been stated by the PAs that a plan is being carried out in consultation with local bodies to understand the local needs and accordingly ESC plan is under implementation.
xi	**The company shall undertake eco-developmental measures including community welfare measures in the project area for overall improvement of the environment.**	It has been stated that the condition is being complied with.
xii	**A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental management and monitoring functions.**	It has been found that the project proponent has set up Environmental Management Cell with basic laboratory facility for environmental management and monitoring functions.
xiii	**The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as 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.**	It has been stated by the project proponent that the cost of environmental protection will be Rs.15 crores (capital cost) and 1.5 crore (recurring cost per annum). The details of breakup of EMP are furnished below: SN | Scheme | Capital cost (in lakhs) 1. | Decanter | 75 2. | Evaporator | 620 3. | Drier | 655 4. | ETP | 150 | Total cost | 1500 (15 crores)
xiv	**A copy of 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, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.**	It was stated that the condition is being complied with.

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
वरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest &
र्वी क्षेत्रीय कार्यालय/ Eastern Regional Offic
भुवनेश्वर/ Bhubaneswar-751023

xv	**The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the West Bengal State Pollution Control Board. A copy of the Environmental Clearance and six monthly compliance status shall be posted on the website of the company.**	As per records available in this office, they are not regularly submitting the six monthly compliance reports. However, this office has received last compliance report along with third party analytical reports for the period of October, 2016 to March, 2017 to this office. During monitoring they have assured for submission of six monthly compliance reports for the period of April, 2017 to October, 2017 within stipulated time.
xvi	**The environmental 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 be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.**	As per record they have not yet submitted the Environmental Statement to this Regional office.
xvii	**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 and may also be seen at Website of the Ministry of Environment and Forests 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 should be forwarded to the Regional office at Bhubaneswar.**	It has been stated that PAs have already advertised the information on daily newspaper. Copy of the advertisement should be submitted to this Regional Office.
xviii	**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 commencing the land development work.**	They have assured for the same.

24/11/17

(डा० ए० के० गुप्ता)
संयुक्त निदेशक "वै०"

(डा. ए. के. गुप्ता)
(DR. A. K. GUPTA)
संयुक्त निदेशक/ JOINT DIRECTOR
भारत सरकार/ Govt. of India
विरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & C
र्वी क्षेत्रीय कार्यालय/ Eastern Regional Office
भुवनेश्वर/ Bhubaneswar-751023