

Bihar Distillers & Bottlers Private Limited		
Environmental Clearance Compliance Report for 650 KLPD up to September 2022		
S. No.	Conditions	Status
A	Specific Condition	
i)	Distillery (660 KLPD) unit shall be based on Molasses/Grain only and production of the plant shall never exceed the maximum capacity defined i.e. 660 KLPD.	Complied Presently Distillery Unit capacity is 650 KLPD and it is based on grain. Production from the plant has never exceeded the stipulated capacity.
ii)	Bag filter along with stack of adequate height shall be provided to rice husk/biogas fired boiler to control particular emission within 50 mg/Nm ³ . At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	Complied ESPs have been provided along with stacks of adequate height with the existing AFBC boilers which are using rice husk as fuel. The emissions are always well within limit of 50 mg/Nm ³ . (See monitoring report as Annexure - A1)
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 & conveyance of chemicals/materials, multi cyclone separator and 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 prescribed by Bihar State Pollution Control Board (BSPCB).	Complied Fugitive emission monitoring is being controlled by providing closed storage, closed handling and conveyance of chemicals / material, and water sprinkling system etc. Water sprinkling system is provided at loading and unloading area to control dust emissions. The same are being monitored, records being maintained and are conforming to the prescribed limits.



iv)	Company shall follow good management practices viz. collection of waste yeast sludge from fermentation section in a closed system and proper disposal, reduced volume of effluent by adopting strategic approaches, closed drains carrying spent wash to the treatment units; minimization of fugitive emissions from anaerobic treatment; proper collection & handling of excess sludge generated from the anaerobic & aerobic treatment units; minimum retention of treated & untreated spent wash in the lagoons; and green belt development with suitable plantation in and around the treatment units to mitigate odour from the distillery unit.	Complied Yeast sludge kept in close system and become a part of the DDGS. Spent wash transported through closed pipe lines. Spent wash taken to decanters where wet cake is separated and thin slop taken back to MEE. Syrup generated in MEE is mixed with wet cake and fed to dryer. Cooling tower blow down water treated in WWTP and reused. Green belt has been developed to mitigate odour from the distillery.
v)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied One DG set of 1000 kVA capacity had been earlier installed for back-up purposes but is not in use as back-up power from Grid is available. However, enclosure for DG has been provided & stack of adequate height has been installed. Captive power requirement is being met from the turbine.
vi)	Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.	Complied RCC / Pucca roads have been constructed within the factory premises to avoid fugitive emissions.
vii)	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the respective Regional office of MOEF, the respective Zonal office of CPCB and the BSPCB. The levels of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	Complied The status of the compliance of the stipulated environmental clearance conditions including results of monitored data are being uploaded on Company's website. The same are being sent simultaneously to the regional office of MOEFCC/ BSPCB. The level PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and HC displayed on the environmental data board at the factory main entrance gate.
viii)	Total fresh water requirement from ground water source shall not exceed 6520 m ³ /day for distillery and cogeneration unit and prior permission shall be obtained from Central Ground Water/ State Ground Water Authority.	Complied Total fresh water requirement from ground water source has been adhered to during the operation of the distillery unit and never exceeded the limit. The company has obtained renewed NOC for Ground water abstraction from CGWA. (See copy as annexure A-2)

ix)	Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.	Complied Water consumption has been reduced by adopting 3 R's concept such as water treated in WWTP is being recycled back to cooling towers. ZLD is in place.
x)	Spent wash generation from molasses and grain based distillery shall not exceed 8KL/KL of alcohol and 6KL/KL of alcohol respectively. The spent wash from molasses based distillery shall be treated through bio-methanation followed by evaporation in Multi-effect evaporator and burnt in boiler to achieve 'Zero' effluent discharge. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained. Spent wash from grain based distillery shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DWGS shall be dried to form DDGS. Spent wash shall be stored in impervious pucca lagoons with proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage of spent wash shall not exceed 5 days capacity.	Complied Spent wash generation from grain based operation is never exceeding 6 KL/KL of alcohol. Spent wash from the grain based distillery is being treated through decanters and the thin slop is concentrated in multi-effect evaporator (MEE). The syrup from MEE is mixed with wet cake from decanters and then it is dried in dryers to form Animal Feed Supplement. ZLD is in place. Spent wash storage facility has been provided in SS closed tank.
xi)	As proposed, no effluent from distillery and cogeneration power plant shall be discharged outside the premises and zero discharge shall be adopted.	Complied Effluent from distillery and cogeneration power plant has never been discharged outside the premises, and zero liquid discharge has been adopted with the installation of MEE, Dryer and WWTP.
xii)	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied Neither process effluent nor any wastewater can mix with storm water as it is conveyed through closed pipelines. Necessary guard pond has been constructed so that the storm water passes through it.
xiii)	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 dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhubaneswar and BSPCB.	Complied Eight nos. of piezometers have been set up and maintained. Ground water quality i.e. pH, BOD, COD, chloride, sulphate, and total dissolved solids is being monitored on monthly basis and the reports being submitted accordingly. (See Self monitoring report as annexure A-3)

xiv)	No storage of wet cake shall be done at site. 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.	Complied Storage of wet cake is not required as six dryers of adequate capacity have been provided for drying wet cake into DDGS.
xv)	Rice husk storage shall be done in such a way that it does not get air borne or fly around due to wind.	Complied Presently, the fuel feeding points at the boilers have been covered from where the daily requirement of husk is being met. Also, the boilers fuel conveyers have been covered to avoid husk getting air borne. The Company had procured the rice husk during the last paddy season with the maximum stock for 2 to 3 months only. There after the stock has got depleted and presently the rice husk stock is available only for a few days. Further, the company has covered the rice husk stock with durable mesh in the storage areas to prevent it from getting air borne.
xvi)	Boiler 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.	Complied The Company has entered into an agreement with Ash lifting Contractor who is supplying fly ash generated from the boilers to the nearby villages of Barap, Balligaon, Kahan, Dulhiganj, Kaup for brick manufacturing/ paver tiles manufacturing, in covered vehicles.
xvii)	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank.	Complied Fire fighting system has been installed and covers all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting has been made to control fire from the alcohol storage tank.
xviii)	Occupation 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 separately.	Complied A qualified Doctor has been provided there at factory for regular health check-up of employees and also for providing free treatment to nearby villagers on daily basis. Regular medical test records of each employee are being maintained separately.
xix)	Dedicated parking facility for loading and unloading of materials 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.	Complied Parking facility for vehicle has been provided. Incoming and outgoing vehicles are being managed to avoid congestion on the public road.

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 side 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.	Complied The Company has already initiated the action for greenbelt densification @2500 trees per hectares by planting various species of trees within the project area, although the desired plantation on 33% of the project area as per greenbelt development requirements had been fulfilled.
xxi)	All the commitment made regarding issues raised during the public hearing consultation meeting held on 12 th Jan 2013 shall be satisfactorily implemented.	Complied As per commitment made during public hearing employment has been provided by company to local population based on their capability and qualification. Electricity has been supplied to the government substation, and Ten feet wide road has been left for the approach to agriculture field.
xxii)	At least 5% of the total cost of the project shall be earmarked towards the Enterprise social commitment (ESC) based on local needs and action plan with financial and physical breakup/details 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.	Being Complied The Company has been spending funds and already a sum of Rs.2,11,17,145/- has been spent on numerous welfare activities. The year-wise details of funds spent are as follows: Rs. 21,20,930/- for FY 2020-21, Rs. 99,50,407/- for FY 2021-22 & Rs. 90,45,808/- for FY 2022-23(up to September 2022). In FY 2022-23 the company has also undertaken the construction of new roads looking to the needs of the locals viz., 1.3 km Devadi to Sasaram and the expenditure incurred for the same as on date is Rs. 2,20,15,273/- Crores. Also, the Company has undertaken widening of Devadi-Laxmipur Road having distance 1.2 km with Rs. 1.5 Crores as expenditure. The balance amount shall be spent by the Company as per the demands of the locals. The Company has been spending funds even though the Unit remained under shutdown for almost two years owing to the prohibition policy adopted by the Bihar State Government. Later the Company started its operations after getting approval from State Government. However, the Company had to still bear the financial cost due to the previous loans; which resulted in huge financial losses to the Company.
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, crèche 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.	Not Applicable Proper labour housing facilities were provided during the construction stage which is over now.
B.	General Condition	

i)	The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board (BSPCB), State Government and any other statutory authority.	Noted The stipulations made by BSPCB and any other Statutory Authority is being adhered to.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of Ministry of Environment and forests. 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.	Noted No Expansion or modifications in the plant have been carried out without prior approval of Ministry of Environment and Forest.
iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the 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.	Complied The locations for ambient air quality monitoring stations had been decided in consultation with the State Pollution Control Board (SPCB). (See approval copy of locations by BSPCB and monitoring report by NABL as annexure -A4& A5 respectively.)
iv)	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).	Complied The overall noise levels in and around the plant area have been kept well within the standards by providing noise control measures. The ambient noise levels is well within the standards prescribed i.e. 75 dBA (day time) and 70 dBA (night time). (See monitoring report as annexure -A6)
v)	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.	Complied Rainwater harvesting pond has been provided for the collection and reuse of rainwater.
vi)	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.	Complied We are providing training on safety and health aspects of chemical handling to all employees on monthly basis.

vii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents 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.	Complied The environmental protection measures and safeguards that is MEE, Decanter, Green belt Development, ESP, Stacks, WWTP, Chimney, Lab Equipment, Water Sprinklers etc. has been provided with respect to the environmental management plan. Complete ZLD scheme is in place.
viii)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Being Complied We are taking all relevant measure for improving the socio-economic conditions of the surrounding area as • Employment has been provided by company to local population based on their capability and qualification. • Local community is being facilitated during the local festivals such as "Chhat Puja". • Benches, swings, slides have been provided for school children in nearby two schools. • Free medical services have been provided to nearby villagers on a daily basis. • Blankets & Rice were distributed to the nearby villagers in the last winter season. • Water cooler has been provided to Charpokhari Thana and SDO office Piro for use by general public. • Construction of Kali Mata temple is under progress in village Devari. • Water cooler has been provided to Women's Industrial Training Institute, Ara.
ix)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the Overall improvement of the environment.	Being Complied We are taking all relevant measures For eco-development we providing • Green belt along the outside boundary of industry. • Three nos. of hand pumps installed for drinking requirement of local villagers. • Construction of branch road and widening of the bridge near village Devari has been done. For community welfare we have provided • Employment has been provided by company to local population based on their capability and qualification. • Blankets & Rice were distributed to the nearby villagers in the winter season. • Ambulance facility provided by the company to the local villagers. • A qualified Doctor has been provided at factory gate for providing free treatment to nearby villagers on daily basis.
x)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring Functions.	Complied Environmental Management Cell & laboratory facilities have been set up to carry out the Environment Management and Monitoring Functions respectively.

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.	Complied Sufficient funds have been invested for meeting capital cost and recurring cost for the implementation of the environment management plan and pollution control measures such as expenditure on MEE, Dryers and decanters, waste water treatment plant, ESP, ash handling and Lab and monitoring system.
xii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilaparisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Complied A copy of the clearance had been sent to concern Panchayat.
xiii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment 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 BSPCB. A copy of Environment Clearance and six monthly compliance status reports shall be posted on the website of the company.	Being Complied Six monthly compliance report of the stipulated Environmental Clearance conditions is being submitted on a regular basis. Copy of Environmental Clearance and six monthly compliance status report has been posted on the website @ https://bdbpl.co.in/media/half-yearly-compliance.pdf
xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted 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 MOEF by e-mail.	Being Complied Last environmental statement for the period ending 31 st March 2022 has been submitted to State Pollution Control Board vide letter dated 22 September 2022. Also The copy of Environmental statement has been uploaded on the website @ https://bdbpl.co.in/media/environmental-statement-2021-22.pdf

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://moef.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 on 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.	Complied Advertisement regarding accord of environmental clearance had been published in Hindustan Times and Dainik Jagaran newspaper.
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 the start of the project.	Complied The date of financial closure of the proposed expansion of the project capacity from existing 250 KLPD to 650 KLPD was July 2021 and the plant commissioned on the 5th May 2022.

