

Compliance to EC Conditions

S.No	Conditions	Compliance
1	Environmental clearance accorded is for grain based distillery unit (125 KLPD) only and no molasses based distillery unit shall be operated without prior permission from the Ministry	Pioneer Industries Ltd is operating grain based distillery only.
2	Efforts shall be made to reduce PM ₁₀ levels in the ambient air and a time bound action plan shall be submitted. Bag filters alongwith stack of adequate height shall be provided to biomass fired boiler to control particulate emissions within 50 mg/Nm ³ . At no time the emission levels shall 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	For 25 TPH Boiler the industry has installed ESP. Samples are drawn by PPCB from time to time and are within perscribed limit. Report attached as Annexure-1.
3	The National Ambient Air Quality Emission Standards issued by the Ministry vide G S R No. 826(E) dated 16th November, 2009 shall be followed	We are maintaining Ambient air quality and the report is attached as Annexure-2.
4	The plant control measures for checking fugitive emissions from all the vulunerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust supression system including water sprinkling system shall be provided at loading & 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 should be maintained. The emissions shall conform to the limits imposed by Punjab Pollution Control Board (PPCB)	All the vessels / tanks are covered and provided proper vent and scrubber system also to control the fugitive emissions. Provided Multi Cyclone Separator for loading & unloading areas to control the dust. We are monitoring fugitive emissions regularly.

5	The gaseous emissions from DG Set shall be depressed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG Sets to mitigate the noise pollution	Acoustic enclosure is provided on all the DG Sets to mitigate the noise pollution. The stack height is 09 meter from ground level and is as per CPCB norms. Photo attached as Annexure-3.
6	The company shall upload the status of compliance of the stipulated environmental clearance conditions including results of monitored data on its web site 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 PPCB. The levels of PM ₁₀ , SO ₂ , NO _x , CO & 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	We have uploaded the compliance of environmental clearance condition with monitoring data,s on website. We send all the datas to MoEF, Regional office, Chandigarh after every six months. We have installed 2 nos Air Monitoring stations. One near main gate i.e. Downward direction and the other is on other side i.e. on upward dirction at 200 to 300 meter distance from the industry.
7	Pucca approach road to project site should be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions	The industry has constructed metalled roads within the premises. PSIEC has also provided metalled roads upto the premises of the industry.
8	Total fresh water requirement from ground water source should not exceed 14 KL/KL of alcohol (I.e., 1750 M ³ /Day) for distillery for cogeneration unit and prior permission for draw of water should be obtained from the Central Ground Water Authority/State Ground Water Board. A copy of Water permission from concerned authority shall be submitted to the Ministry's Regional Office at Chandigarh	Total fresh water requirement of the distillery division is less than 1750 M ³ per day. We have taken permission from CGWA to withdraw ground water. Copy of the same is attached as Annexure-4.
9	Explore the possibility for using surface water only	There is no surface water body passing nearby the site. So, the industry would be using ground water for industrial purposes.
10	Efforts shall be made to reduce the fresh water requirement from ground water source by adopting 3 Rs (Reduce, Reuse & Recycle) concept	Pioneer Industries Ltd is adopting 3 Rs (reduce, reuse & recycle) concept in the process by reuse of all the process effluent. all the distillery waste water after treatment is being recycled.

11	Spent wash generation shall not exceed 6 KL/KL of alcohol production (i.e., 750 KLPD) As proposed spent wash shall be passed through decanter and concentrated in Multi Effect Evaporator. Thick syrup & wet cake shall be mixed together to form DWGS to achieve 'zero discharge' Spent lees, MEE Condensate & Utilities waste water shall be treated in ETP and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and treated effluent shall be recycled/reused within the factory premises	Spent wash generation is less than 6 KL/KL of alcohol. Decantation & MEE have been installed for the spent wash treatment. We are mixing WET cake and thick syrup to achieve zero discharge. All other effluents are treated in ETP/CPU before its reuse in the process purposes. Process flow diagram and other details enclosed as Annexure - 5.
12	No effluent from distillery and cogeneration power plant shall be discharged outside the factory premises and 'zero effluent discharge' concept shall be adopted	The industry is not discharging any effluent outside industrial premises.
13	Distiller's Wet Grain with soluble (DWGS) shall be fed to the dryer to form Distiller's Dry Grains with soluble (DDGS). No storage of wet cake should be done at site to avoid odour problem	The industry has installed DDGS Dryer for the handling of all DWGS generated from the industry. Supplying DDGS to Cattle & Poultry feed manufacturers. Supplying DWGS also to Cattle feed/Dairy/Farmers directly as per the market requirement. We are not storing any Wet cake at site as per MoEF guidelines.
14	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond	Agreed. We are not mixing any waste water with storm water. During Rainy season storm water is directly discharged on the road as per the direction by the Principal Secretary MEOF technical education , Govt. of Punjab.
15	Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon shall be for 5 days	Impervious spent wash storage lagoon has been provided by the industry for the storage of spent wash in the lagoon. We have expanded the capacity in December, 2012 from 50 KLPD to 125 KLPD. Earlier for 50 KLPD, MoEF has granted permission to store the spent wash in lagoon. We are using the same.

16	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project are shall be set up. Sampling & Trend analysis monitoring must be made on monthly 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 and report submitted to	The industry has installed piezometers for the monitoring of ground water. Sampling of effluent & ground water is regularly carried out for analysis. Report attached in Annexure - 6.
17	Rice husk 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	We have provided wall of 7 Feet height around the Husk yard. So it does not get air borne due to wind.
18	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 alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided	The industry has made arrangements for the handling of fly ash at separate land purchased for the same. The ash is stoed in the underground pit and is covered with soil so that the filled area do not get air borne.
19	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amended in 2003. Fly ash shall be provided to cement & brick manufacturers for further utilization	We are using agro waste (Rice Husk) and coal in ratio upto 85 : 15. The resultant ash is not usable for brick / cement industries. We are looking for the better option.
20	As proposed, ash will be transferred in the covered truck. Ash shall be transferred to the brick manufacturing	The ash is transferred in covered trollies upto the ash handling site.
21	Fire fighting system shall be as per the OISD 117 norms and cover all areas where alcohol is produced, handled & stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank	We have provided fire fighting system inside the entire factory premises. Foam provision is also provided to control fire from alcohol storage tank. Copy attached in Annexure -7.
22	Risk assessment shall be caried out to assess the fire & explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional office at Chandigarh within 6 months.	we have hired a consultant, he will give the report within one month. The same we will submitte to MOEF regional office Chandigarh.

23	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in he occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately	The industry is getting its employees regularly checked from Registered Medical Practitioner. Further mock drill exercises are carried ou for the emergency. Helmets, masks etc. are also provided for the safety of the workers. Annexure -8.
24	Dedicated parking facility for loading & unloading of material shall be provided in the factory premises. Units shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road	Dedicated parking area has been provided for unloading & loading of material within & outside the industry
25	Green belt shall be in 33% area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick green belt with suitable plant species shall be developed around the proposed distillery to mitigate the odour problem	The industry has provided green belt to mitigate the effects of fugitive emissions around the plant as per CPCB guide lines to take care of odour problem, if any. Annexure -9.
26	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, 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	Agreed. We provide such facilities during project work.

For Pioneer Industries Ltd.,

(S S Tomar)

Chief Executive Officer.