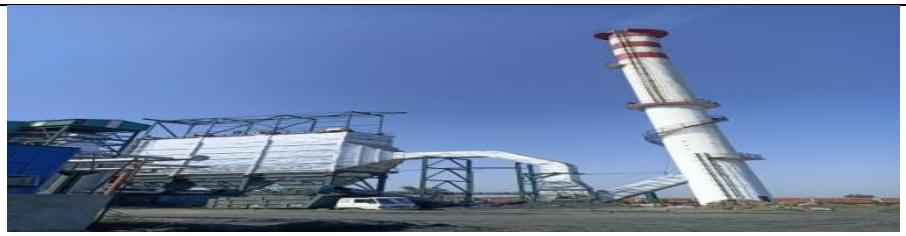
HARP CHEMICALS PVT.LTD.

ETHANOL MANUFACTURING PLANT – 160KLPD

S. NO	TERMS & CONDITIONS (A) Specific Conditions	COMPLIANCE
1.	As per the Notification S.O. 2339 (E), dated 16th June, 2021, project falls in category B@ and the proposed capacity of 330 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided the subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.	We are manufacturing Ethanol only for Blending in Petrol as per Ethanol Blending Programme of Government of India.
2.	The Company shall 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, and risk mitigation measures relating to the project shall be implemented.	All measures are being taken for Environment Protection.

3.	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.	DTP Approval dated 30.11.22CLU is attached as per Annexure-1
4.	PP shall comply with the condition stipulated in the Letter no. 149 DTP(s)/LPDH-136 dated 8.09.2022 issued by Department of Town and Country Planning, Punjab, for which, PP has to leave space for road widening @ 5 meters as no construction zone.	The said condition of leaving 5 meter space for road widening has been complied with and photograph of the same is appended below. 
5.	PP shall comply with conditions prescribed in the Letter No. 10411-16-1-WG (spl) dated 17.11.2022 issued by Executive Engineer Drainage Cum Mining Division, Sangrur.	Being complied with.
6.	NOC from the Central Ground Water Authority (CGWA)/ Concerned Local Authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board/ Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control	PWRDA Permission for the period 20.06.26 – 19.06.29 is attached as per Annexure-2. CTO Air & Water renewal obtained having validity 07.03.25 – 31.03.27 and copy of the same is attached as per Annexure-3A & 3B.

	of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.	
7.	Total Fresh water requirement shall not be exceed 1199 m^3/day which will be met from Tubewell / Ground water. No Ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.	Total fresh water requirement is less than 1199 M^3/day. No Ground Water Recharge being done. Water Storage pond having Capacity 1000m3 constructed. NABL Report of Both Bore well water testing during the month of September 26 and water Pond Pictures attached as per Annexure-4A & 4B
8.	Spent wash shall be dried to form DDGS to be used as cattle feed. The condensate, spent lees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled / reused for makeup water of cooling towers/process etc. STP of 15 KLD Capacity 2000 KLD shall be installed for treatment of waste water. No waste or treated water shall be discharged outside the premises.	Decanter & Dryers have been installed to dry spent wash to produce DDGS for Cattle feed. Photographs of Dryer & Decanters section below for kind reference  Spent lees is recycled in the plant and Condensate is being used in cooling tower Make up after treatment in CPU. STP treated water is being used in plantation inside the campus. NABL Lab Report of CPU and STP Treated water testing during September - 26 is attached as per Annexure-5A & Annexure-5B.
9.	Electrostatic precipitator (5 field& 99.9% efficiency) with a stack height of 35 meters will be installed with the proposed boilers	ESP with stack height of 55 meter has been installed with the boiler. Photograph of ESP & Stack is appended below.

	of capacities 20 TPH, 25 TPH and 25 TPH Rice Husk/ paddy straw fired boiler for controlling the particulate emission within the statutory limit of 50mg / Nm^3. At no time, the emission level shall exceeds the prescribed limit. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarteduntil the control measures are rectified to achieve the desired efficiency. Performanceassessment of pollution control devises / systems will be conducted annually.	 Copy of the NABL report showing the particle emission with in prescribed limit is attached as Annexure-6
10.	Boiler ash (60 TPD) will be used for brick manufacturing in brick kilns / given to farmers for soil stabilization and filing low lying areas. PP shall use biomass like rice husk/ bagasse as fuel for the proposed boiler. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.	Ash is being supplied to nearby farmers for farm land filling. Random copies of farmers request for ash supply is attached as per Annexure-7.
11.	CO^2 (84 TPD) generated during the fermentation process will be collected by utilizing CO2 scrubbers and it shall be sold to authorized vendors/collected in proposed bottling plant.	Co2 Plant has been installed and Co2 is being collected and sold. Photograph of Co2 plant is appended below. 
12.	PP shall allocate at least	The said condition will be complied with every year. Health data of

	Rs.50 Lakhs / annum for Occupational Health Safety. Occupational Health Centre 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 & employees shall be provided with required safety kits / mask for personal protection.	random employees from different department is attached herewith as per Annexure - 8
13.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Being Complied. Copy of two quarter training calendar April-26 to June-26 & July-26 to Sep-26 is attached herewith as per Annexure-9A & 9B
14.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.	Fire Fighting System has been installed and Fire Control NOC has been obtained. Copy of PESO License having validity up to 31.12.27 and Fire Control NOC valid upto 07.04.27 is attached herewith as Annexure-10A & 10B.
15.	Process organic residue and spent carbon, if any, shall be cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	ETP Sludge is being used as manure for plantation.
16.	The Company shall undertake waste minimization measures as below: (a) Metering and Control of quantities of active ingredients to minimize waste;	Complied - Flow meters have been installed on water abstraction and treatment, Various recycle streams are being implemented to reduce water consumption, condensers have been installed on storage tank and high pressure hoses are being used for equipment cleaning. Photograph of flow meters having connectivity with CPCB and PPCB installed at Spent Wash Generation, Thin slope Generation, Thick Syrup, Dryer Condensate, CPU Inlet and Outlet, Night vision camera at CPU appended herewith.

	(b) Reuse of by –products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce waste water generation.	 CCTV  CPU Inlet  CPU Outlet  Dryer Cond.  Spent Wash  Thin Slop  Thick Syrup  CPU Inlet -2
17.	The green belt of at least 5-10 m width shall be developed in nearly 6.09 acres i.e. 40.62% of the total project area with three density @2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Green belt development shall be completed before commissioning of the plant.	Complied. Photographs of plantation is appended herewith for reference.     
18.	PP proposed to allocate Rs.2.4 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for	The EC is for 330 KL, however, In the 1st phase we have installed plant of 125 KLPD which has been further expanded to 160 KLPD during the year 2025-26. Accordingly, CER of Rs. 134.10 have been spent as on 30.09.26.

	monitor able activities like-up gradation of schools with provisions of facilities e.g. Class rooms, playground, Laboratory, Library, Computer Class, toilets, potable drinking water facilities, solar light/ solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the purposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.	
19.	There shall be adequate space inside the plant premises earmarked for parking vehicles for raw materials and finished products and no parking to be allowed outside on public places. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc.	Parking facilities for Trucks& other vehicles has been provided for in the factory premises. Photo Attached for reference please. 
20.	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls /curtains shall be provided around biomass storage area to prevent its	Silo has been installed for Storage of Raw Material. Shed has been provided for storage of Bio-fuel. All internal roads have been paved with interlocking paver blocks. Photograph appended for reference. 

	suspension during high wind speed. All internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant / machinery for shutdown in case of operational failure of Air Pollution Control Equipment.	
21.	Continuous online (24X7) monitoring system for stack emissions / effluent 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 until shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises.	Continuous Online Monitoring System for Stack Emission and Flow Meter for Effluent Treatment with connectivity to CPCB/SPCB server has been installed. Photograph of SPM Display and NABL Lab report showing Emission results is attached as per Annexure-6 
22.	A separate Environmental Management Cell (having qualified person with Environmental Science / Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions. EMC head shall report directly to Head of Organization / Director	Unit has inhouse Lab equipped with facilities to carry out Environment Management and Monitoring functions. Copy of EMS member detail is attached as per Annexure – 11. 

	/CEO as per company hierarchy.	
23.	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single use plastic in order to ensure the compliance of notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures being taken shall be included in the six-monthly compliance report being submitted to concerned authority.	Single use plastic has been prohibited in the factory campus. Training and awareness is being given to in house and surrounding areas for not using single use plastic. Photographs of the training awareness conducted in our unit & Govt Primary School is attached herewith for reference  
	(B) General Conditions	
1.	No further expansion or modifications 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 /SEIAA, as applicable, to	No expansion beyond 330 KLPD will be carried out without prior approval of MOEF.

	assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
2.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	LED lights have been installed in the whole factory for energy conservation. Apart from this, VFD's have been installed with various motors to conserve energy.
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, silencers, enclosures etc. On all sources of noise generation. The ambient noise level shall conform to the standard prescribed under the Environment (Protection) Act 1986 Rules, 1989 viz.75 DBA (day time) and 70 DBA (night time)	Being Complied. NABL Lab report for ambient noise level testing near Main Gate, CPU and DM plant area done during September-26 is attached herewith as per Annexure-12.
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 are for the overall improvement of the	Being Complied

	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, Forest and Climate Change as well as the State Government alongwith the Implementation schedule for the conditions stipulated herein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.	Being Complied
6.	A copy of the clearance letter shall be sent by the project proponent to the concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received which processing the proposal.	Complied
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 officeof CPCB and SPCB. A copy of Environmental Clearance and six	Complied

	monthly compliance status reports shall be posted on the web site of the company.	
8.	The Environmental statement for each financial year ending 31st 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 alongwith the status compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MOEF& CC by E-mail.	Form-V for the year ending 31 March 26submitted with OCT-MAR 26 MOEFCC compliance report and copy of the same is attached as per Annexure - 14
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 and at https://parivesh.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in 2 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	Complied, advertisement given in two local news paper.

	concerned to the concerned Regional Office of the Ministry.	
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 start of the project.	Complied, copy of intimation letter to Ministry is attached herewith as Annexure-13
11.	This 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