



**COMPLIANCE REPORT TOWARDS ENVIRONMENTAL
CLEARANCE**

Prepared for

ESTABLISHMENT OF 120 KLPD DISTILLERY

at

Mudhol Taluk, Bagalkot District, Karnataka.

Compliance to the conditions laid for "120 KLPD Molasses Based Distillery Unit"

Located at Mudhol Taluk, Bagalkot District, Karnataka.

File. No. J-11011/130/2008-IA II(I) dated 4th December, 2009

SL. NO.	CONDITIONS	COMPLIANCE
A. SPECIFIC CONDITION		
1	The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Adhered Accordingly and utmost care is taken to avoid the disturbance/failure of the pollution control equipments adopted by the unit. In case of failure we are shutting down the plant and after attending the work, we are restarting the plant. The quality of treated effluent and stack emissions are well within the norms stipulated by the board.
2	The particulate emissions from the 32 TPH boiler shall be controlled by installation of bag filters and emissions shall be dispersed through stack height as per the CPCB guidelines. The particulate emissions shall confirm to the prescribed standards The emissions from the DG sets shall be dispersed through stack of height as per CPCB/State Pollution Control Board standards. Acoustic enclosures shall be provided to the DG sets to mitigate noise levels.	We have invested 4 crores(including civil, Ash handling, Lagging, Ducting & Erection cost) for installing Thermax make ESP in addition to bag filters for better emission control of PM levels less than the norms set by KSPCB. Stack Heights of 80m AGL provided, confirms the CPCB guidelines. Acoustic enclosures are provided to DG sets to reduce noise level. Thick plantation around the compound wall is made and erected which acts as a acoustic barriers. Technical Details of ESP, PO & photographs is enclosed as Annexure 21.
3	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 Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of SPM, RSPM, SO ₂ , NO _x (ambient levels), emissions from the stacks and pH, TDS, BOO, COD, Chloride, suspended solids and sulphates in the treated effluent shall be monitored and	We have uploaded all data on our website www.niranigroups.com Air Quality and Quality of Treated Effluent monitored and Analysis Report displayed within the premises of the industry. The reports are enclosed as Annexure 8.

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	displayed at a convenient location near the main gate of the company and at important public places.	
4	The spent wash (1080m ³ /d) shall be concentrated in the multiple effect evaporator and concentrated spent wash shall be incinerated in the boiler. The condensate from the MEE shall be recycled to the process.	The spent wash of 1080 m ³ /day is concentrated in multiple effect evaporator and concentrated spent wash is incinerated in the boiler and the condensate from MEE is treated in RO & RO permeate is recycled back to process. Flow chart of CPU with technical details is enclosed as Annexure 2.
5	The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage shall not exceed 5 days capacity.	The spent wash stored in the well lined pucca lagoon having a capacity of 15000 Cu Mtr and New 2 No's of RCC FRP & epoxy coated Spent wash lagoon with capacity 3000 Cu Mtr each and will not affect the ground water quality. Spent wash lagoons photos is enclosed as Annexure 19.
6	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.	Piezometer installed and ground water quality is carried out regularly and reports of the same is being submitted to KSPCB regularly. Reports of monthly ground water monitoring is enclosed as Annexure 13.
7	Fire Fighting System shall be as per the TAC Norms. Foam system shall be provided for fire fighting to control fire from the alcohol storage tank.	Fire Extinguishers location details & Mechanical foamer location detail is enclosed as Annexure 5.
8	Risk Assessment shall be carried to assess the fire and explosion risk due to handling and storage of alcohol and report submitted to the Ministry within six months.	Risk Assessment done through reputed agents and copy is enclosed as Annexure 6.
9	The company shall undertake measures to control overflow of alcohol storage tanks. Further, high level alarms with automatic shut –off should be installed and emergency shut off should be at a distance.	We are taking utmost care for overflow. We have provided overflow lines from one tank to another for avoiding overflow. Also capacities are more than the plant capacity. We have total storage capacity of 1.04 Crores liters of total spirit. Normally for 120 KLPD storage

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		capacity will be 90 lakhs liters. Storage tank detail showing overflow interconnection drawing is enclosed as Annexure 7.
10	Permission shall be obtained to draw the surface water from the Surface Irrigation Department.	Permission from Irrigation department has been obtained for the drawl of water for the process. The copy is enclosed as Annexure 1.
11	Company shall adopt rainwater harvesting measures to recharge the ground water.	We have completed the work on rainwater harvesting in all the buildings, guest house and main factory and also provided storm water gutters all around the compost area and connected to the recharge pits. Detail drawing with photographs is attached as Annexure11.
12	Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO	10 Acres of Greenbelt area is provided to meet 33% of the total area. Detail drawing with photographs is attached as Annexure 9.
13	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 medical records of each employee shall be maintained separately	Necessary healthcare facilities to employees and local people provided. Also routine health survey tests like spirometry, pulseoxymetry, lung function test carried out among employees and local people. We have a tie up with the R.V. Patil memorial hospital, Mudhol for health check up of workers. We have hospital with full time doctor in the factory premises. Details of First Aid facility & Records of medical check up done for employee is enclosed as Annexure 18.
14	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, 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	Construction of the project is completed. Now not applicable.

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	the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	
B. GENERAL CONDITIONS:		
1	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
2	Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x , are anticipated in consultation with the State Pollution Control Board.	In consultation with Regional office KSPCB Bagalkot. We have fixed 3 Nos of AAQM points. The points are shown in the layout diagram which is attached as Annexure 15.
3	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	Adequate number of monitoring stations are provided and regular monitoring is being done for all necessary parameters for both influent and effluent. Monthly reports are submitting to KSPCB. Reports are attached as Annexure 8.
4	The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Adhered Accordingly and utmost care is taken to avoid the disturbance/failure of the pollution control equipments adopted by the unit. The non process streams effluents and stack emissions are well within the norms stipulated by the board. Electrical interlock circuit scheme is enclosed as Annexure 17.
5	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Adequate enclosures and acoustic measures are taken to ensure that the noise level is well within the standards. We are regularly monitoring noise levels at different locations and reports are sent to the KSPCB office Bagalkot. We have provided steam silencers at Boilers, steam drains and vents. Noise reports are enclosed as Annexure 14.

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6	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Environmental cell is constituted. Organization chart & Minutes of meeting is enclosed as Annexure 16.
7	The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by the non-recurring expenditure 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 provided shall not be diverted for any other purpose.	Noted and requisite funds for both recurring cost and non recurring cost to implement the conditions by the Ministry provided.(Balance Sheet has been attached as Annexure 16.)
8	A copy of the 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 who suggestions/representations. if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent	Letters sent to panchayat, Zila Parishad & Municipal Corporation. We have not received any suggestions. We have uploaded clearance letter on our website www.niranigroups.com
9	The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore /State Pollution Control Board/Central Pollution Control Board.	Agreed. However project implementation works completed.
10	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C 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 State Pollution Control Board	Six months EC compliance reports are being submitted to KSPCB regional/head offices, Regional office MOEF & zonal office CPCB.
11	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the	We are sending the Environmental Statement(Form-V) to the respective offices. A copy is enclosed as Annexure

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	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.	10.
12	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 State Pollution Control Board/ Committee 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 shall be forwarded to the Regional office	Paper advertisement has published after the receipt of the EC & copy of the same is not available.
13	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 land development work	Project is completed.