

ADDITIONAL CONDITIONS TO ACCOMPANY CONSENT ORDER CONSENT ORDER OF M/S. NIRANI SUGARS LTD., KULALI CROSS, JAMKHANDI ROAD, MUDHOL TALUK, BAGALKOT DISTRICT.

The consent is valid for the manufacture of:

Sl. No	Products	Maximum Capacity
1.	Sugar cane crushing capacity	15000 TCD
2.	Co-generation	62 MW

The Consent is granted for the period from 01.07.2016 to 30.06.2021.

**Consent fees : Rs. 15,00,000/- under both Water Act & Air Act
Capital investment: Rs. 558.23 crores**

RTGS No: AXTB162565462964 – Rs. 15,00,000/- dt: 12.09.2016.

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The daily quantity of effluent discharge treatment plant shall not exceed the limits and shall not contain the constituents in excess of the tolerance limits laid down as indicated in the table below. The applicant shall monitor the quality of effluents for the parameters stipulated as per the frequency indicated.

Sl. No.	Description of the effluents	Daily Quantity of discharge in KLD	Tolerance Limits	Frequency of monitoring
1	Trade effluent	1100 KLD	Annexure-I	Weekly
2.	Domestic effluent	20 KLD	Disposed to Septic tank and soak pits	-

2. The applicant shall ensure that the trade effluent is treated in the treatment plant constructed as per the flow sheet submitted by the industry to the standards stipulated in **Annexure-I**.
3. (a) The non-process effluent streams like boiler blow down, cooling water, DM plant back wash and service water, etc., shall be treated in the ETP and used for gardening/ dust suppression and ash conditioning/ irrigation purpose and shall conform to the standards stipulated in **Annexure-I**.

(b) The applicant shall submit details of agricultural land such as Sy. Nos, extent of land, name of the owner etc., identified for using the treated trade effluent on land or irrigation immediately.
4. The applicant shall ensure that the operation of effluent treatment plant shall be started at least one month before the starting of cane crushing to achieve desired MLSS so as to meet the prescribed standards from day one of the operation of mill as per CREP.


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5. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
6. The applicant shall provide adequate storage capacity for treated effluent to take care of no demand for irrigation. The storage tank shall be impervious.
7. The industry should provide alternate power supply to the ETP area for its continuous operation.
8. The applicant shall not discharge of by pass either treated or untreated effluent outside the premises or into natural valley.
9. Adequate number of observation bore/ test wells shall be provided in and around the agricultural land where the treated effluent is used to monitor the ground water quality.

II. MOLASSES STORAGE:

1. (a) The applicant shall store the molasses only in steel tanks covered with proper roofing.
(b) Adequate number of steel tank shall be provided for molasses containment.
Containment of molasses in earthen pits is not allowed.
2. The applicant shall obtain permission from the Board to dispose-off the spoiled molasses and it shall be disposed off in a manner as laid down by the Board.

B. EMISSIONS

1. The discharge of emissions from the premises of the applicant shall pass through the stacks/ chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The stacks/ chimneys heights shall be as per **Annexure-II**.
2. The applicant shall operate the Air pollution control equipments as specified in the **Annexure-II** continuously so as to ensure that the emission does not exceed the limits specified.
3. The applicant shall maintain port holes, access platforms including ladder, for carrying out stack sampling with electrical outlet points for sampling the emissions from port holes in all the stacks, as per the guidelines.

C. SELF MONITORING AND REPORTING BY THE INDUSTRY:

1. The applicant shall at his own cost get the treated trade effluent samples collected from the place specified and analyze the same once in a month for the parameters indicated in **Annexure-I** and report submitted once in a month along with the quantity of water used, waste water generated, treated, and discharged, product manufactured, etc., in a compiled statement to the concerned Regional Office.
2. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month for the parameters indicated from the sampling port holes provided


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3. The applicant shall carryout the ambient air quality monitoring and submits the report to the Regional Office of the Board. The AAQM stations shall be carried out in all the established stations as per the requirement under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. The industry shall furnish statistical analysis for annual average of pollutants at all the locations as per Ambient Air Quality standards Notification once in a year.
4. The applicant shall regularly monitor the ground water of the wells situated in agricultural where treated trade effluent is used for irrigation for water quality parameters and submit report.
5. **(a) The applicant monitor the treated effluent through on line continuous effluent quality monitoring system at the out let of sugar plant ETP for the measurement of parameters flow, pH, COD, BOD, TSS and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers .**
(b) Once in a month by 5th, the max, min & Avg values and also the number of time, the exigencies recorded shall be submitted to R.O
6. The applicant shall;
 - a) Submit the monitoring results as under;
 - i) Data monitored as per prescribed schedule shall be submitted to the Regional Office every month.
 - ii) A compiled data of all monitoring conducted as per schedule during the consent period shall be submitted in hard copy along with Consent application

D. HAZARDOUS & OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES 2016.

The applicant shall comply with the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016.

E. SOLID WASTE MANAGEMENT

1. The applicant shall segregate solid waste from Hazardous Waste/ Bio-medical Waste/ Municipal solid waste and store it properly on impervious yard till treatment/ disposal without causing pollution to Environment.
2. The storage & disposal of solid waste shall be as specified below;

Sl. No	Type of solid waste	Quantity in tonnes/day	Mode of disposal
1	Domestic Garbage	250 Kg/day	Composting and Incineration
2	Press mud	400 MT/day	Used as manure
3	Boiler ash	40 MT/day	Will be given to brink manufactures/farmers as soil conditioner at free of cost
4	Lime grid and sludge	1 MT/day	Used for land filling and construction purpose


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3. Only 15% of coal may be used as an auxiliary fuel along with bagasse in Boilers. The ash generated from the use of coal has to be separately handled and disposed as per the provisions of Fly ash Notification.
4. The applicant shall go for effective fly ash management as per Fly ash Notification and take precautions not to cause any fugitive emissions/ dust nuisance leading to public complaints.
5. The applicant shall maintain a log book for fly ash generation and disposal.

F. GENERAL

1. This consent for discharging sewage and/or trade effluents from the factory shall not be taken or construed as the Board's permission to continue to discharge the sewage and/or trade effluents from the factory into the place (as mentioned in this consent Order) which pollutes the water there-in endangering the life and property of the persons using the said water before, during or after the periods indicated in the Terms and Conditions of this Consent Order.
2. The applicant shall not change or alter either the quality or quantity or rate of emission or install/ replace or alter the air pollution control equipment, change in raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the prior permission of the Board.
3. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/ emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.
4. The applicant shall not store any raw materials on naked ground.
5. The applicant shall appoint a qualified environmental engineer/ scientist for environment management in the factory and also establish an environmental cell.
6. Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.
7. The applicant shall comply with the guidelines under Corporate Responsibilities for Environment Protection (CREP) 2003 issued by Ministry of Environmental Forests and CPCB.
8. The applicant shall continue the self monitoring system for monitoring the effluents and emissions.
9. The applicant shall maintain register recording the ambient air quality, stack monitoring and analysis report of treated effluents. The register shall be open for inspection by the Board Officers at all time.


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10. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.
11. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
12. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.
13. The applicant shall display EC, Environmental Statement and Consent orders in the website of the industry and update regularly.


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ANNEXURE – I

Standards for using the treated effluent on land for irrigation/ greenbelt development:

Sl. No.	Parameters	Tolerance limits.
1.	Colour and Odour.	See Note.
2.	Suspended Solids mg/l.Max.	100
3.	pH value.	5.5 to 8.5
4.	Oil and Grease mg/l. Max.	10
5.	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) max.	100
6	Total dissolved Solids (TDS), mg/l	2100

Note: All efforts should be made to remove colour and unpleasant odour as far as practicable.

TABLE
HYDRAULIC LOADING APPLICABLE FOR DIFFERENT SOILS

Sl. No.	Soil Texture	Loading rate in M3/Hec/day
1.	Sandy	225 – 280
2.	Sandy Loam	170 – 225
3.	Loam	110 – 170
4.	Clay Loam	055 – 110
5.	Clayey	035 - 055


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ANNEXURE – II

Chimney	Chimney Attached to	Minimum Chimney Height to be Provided above ground level (AGL)/ roof level (ARL) in mts	Rate of emission Nm ³ /Hr	Constituents to be controlled in the emission.	Tolerance limits Mg/Nm ³	Air Pollution Control equipment to be installed, in addition to Chimney height as per Col (3)
1	2	3	4	5	6	7
1	90 TPH Boiler-1 (Bagasse & Coal fired)	Common chimney of 82 m AGL	-	PM	150	Electrostatic Precipitator (ESP)
2	90 TPH Boiler-2 (Bagasse & Coal fired)					Electrostatic Precipitator (ESP)
3	120 TPH Boiler [Bagasse & Coal (15% max) fired]	Chimney of 82 m AGL	-	PM	150	Electrostatic Precipitator (ESP)
4	1250 KVA DG Set (fuel HSD)	30 m AGL or 6 m ARL, whichever is higher	-	NOx (as NO ₂) NMHC PM CO	970 ppmv 100 75 150	Acoustic measures
5	1975 KVA DG Set (fuel HSD)	30 m AGL or 6 m ARL, whichever is higher	-	NOx (as NO ₂) NMHC PM CO	970 ppmv 100 75 150	Acoustic measures
6	380 KVA DG Set	30 m AGL or 6 m ARL, whichever is higher	-	-	-	Acoustic measures

Note: 1) The noise levels shall not exceed 75 dB(A) leq. and 70 dB(A) leq. during day time and night time respectively.

2) NMHC - Non-Methane Hydro Carbons.

3) ppmv - parts per million by volume.


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Copy to Regional officer, Bagalkot for information and ensure compliance to following directions issued by CPCB.

While issuing Consent to operate or renewing CTO to a plant, industry or process under the Water Act and Air Act & installation handling hazardous substance (s) beyond the prescribed threshold limits as listed under the PLI Act, 1991, the SPCB shall ensure compliance to the following from the occupier ;

1. Details on current PLI policy would be compulsorily sought (as a checklist).
2. Shall seek a copy of successive Public liability Insurance Policies (year wise) since undertaking the use, trade or sewage of listed hazardous chemicals as under the PLI Act, 1991.
3. Shall seek a copy of Form III of ERF scheme under the PLI Act, 1991.
4. The SPCBs shall seek a copy of on-site emergency plan.