SCHEDULE TERMS AND CONDITIONS

(to accompany co	nsent No: PCB/139/HPI/2015/	Dated:
(THE	Dated.

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT

I. TREATMENT AND DISPOSAL OF TRADE AND SEWAGE EFFLUENT:

- 1. The discharge from the premises of the applicant shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under.
- The daily quantity of effluent discharge 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 KL	Tolerance Limits	Frequency of monitoring	
1	2	3	4	5	
1	Industrial effluents	1300 KLD	Annexure-I	Once in 15 days.	
2	Domestic effluents	100 KLD	Septic tanks and soak pits	-	

- The applicant shall ensure that the trade effluent is treated in the treatment plant to the standards stipulated in Annexure-I and the treated effluent shall be utilized as indicated above.
- 4. The ETP site and the entire premises shall be always kept clean. The ETP site, inspection chamber, Outlets, flow measuring ponits should be made easily approachable to the inspecting officers.
- 5. The applicant shall ensure that the waste water generation from sugar unit is less than or equal to 100 lts/ ton of cane crushed.
- The applicant shall provide flow meters for inflow and outflow of ETP and provide separate energy meter for ETP and record hourly readings in a log book for verification of inspecting Officers.
- The applicant shall provide adequate storage capacity for treated effluent to take care of no demand for irrigation (15 days holding capacity). The storage tanks shall be impervious.
- 8. The industry should provide alternate power supply to the ETP or its continous operation.
- Industry has to provide a separate drainage system for storm water management & there shall not be mixing of storm water with treated effluent.

- 10. The applicant shall discharge the treated effluents only to the place mentioned in the Consent order. The applicant shall discharge the treated effluent only for irrigation on land in the Sy No mentioned in the agricaltural Managment planl submitted along the CFO application. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
- 11. The factory authorities shall display the approved flow sheet in the ETP area on a board along with discharge standards stipulated in the consent order.
- 12. The applicant shall display the treated effluent parameters, as per the latest analysis report of the treated trade effluent, at the ETP location.
- 13. The applicant shall paint the name and capacity of each unit of ETP.
- 14. The applicant shall provide lined and closed drains to convey trade effluents to ETP for further treatment and disposal.
- 15. The applicant shall ensure that the operation of treated effluent treatment plant shall be started at least one month before starting of cane crushing to achieve desired MLSS so as to meet the prescribed standards from day one of the operation of mill.
- 16. 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. TREAT MENT AND DISPOSAL OF SEWAGE EFFLUENTS

The applicant shall treat the domestic effluent in septic tank and soak pits designed and constructed as per IS 2470 Part-I and Part-II and no overflow from soak pit is allowed.

III. MOLASSES STORAGE:

- (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.

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.

IV. WATER CESS

The applicant shall provide water meter at all the intake points as under Section (5) of Water Cess Act and shall file the Water Cess returns regularly and also pay the Cess Assessed with the time stipulated

V. DISCHARGE OF EMISSIONS UNDER THE AIR ACT

- The discharge of emissions from the premises of the applicant shall pass through the stacks/ chimneys mentioned in Annexure-II to the consent, 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 equipment as specified in the Annexure—II, continuously so as to ensure that the emission does not exceed the limits specified. The operation of the control equipment shall be synchronized with the operation of the emission source.
- 3. The applicant shall provide port holes for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for all chimneys/ stacks and other sources of emissions within 30 days from the date of receipt of this consent order so as to collect the sample of emissions by the Board or the applicant at any time in accordance with the provision of the Acts & rules made there under
- 4. The applicant shall maintain port hole, access platforms for carrying out stack sampling with electrical outlet points for sampling the emissions from port holes in all the stacks, as per the guidelines.
- 5. The applicant shall treat and dispose any liquid effluents produced in the course of control of air pollution by scrubbing, conditioning etc., of flue gases in accordance with the provisions of the Water (Prevention and Control of Pollution) Act, 1974. The details of such discharges shall be quantified and monitored immediately after commissioning and details of collection, treatment and disposal shall be furnished to the Board.

VI. SELF MONITORING AND REPORTING:

- The applicant shall at his own cost get the treated trade effluent samples collected from the place specified and analyze the same once is 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.
- 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
- 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. Monitoring shall include the parameters, PM_{2.5}, PM₁₀ sulphur-di-oxide, Nitrogen Oxide 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.

- 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 shall maintain the on line continuous stack emission monitoring system for measurement of emissions parameter like PM and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.
 - (b) 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
 - (c) Once in a month by 5^{th} , 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;
 - 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

VII. ENVIRONMENTAL STATEMENT

The applicant shall submit the Environmental Statement every year for the period ending 31st March in Form V of Rule as per Rule 14 of the Environment (Protection) Rule, 1986 on or before 30th September.

VIII. HAZARDOUS WASTE (MANAGEMENT, HANDLING AND TRANSBOUNDARY MOVEMENT) RULES 2008

The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

IX. SOLID WASTE MANAGEMENT

The solid waste collected in the factory premises as sweepings, wastage from packaging, empty containers, residue, sludge including those from air pollution control equipments shall be disposed-off scientifically to the satisfaction of the Board, so as not to cause fugitive emissions, dust problems or water pollution problems through leaching etc., of any kind.

The quantity of solid waste and mode of disposal shall be as below;

Sl. No.	Type of Solid waste	Quantity in T/day	Mode of disposal
1	Ash (bottom & fly ash)	15.55	Land filling or mixed with press mud and sold to farmers as manure
2	Press mud	200	Mixed with ash and sold to farmers
	Name and Address of the Party o		as manure

X. NOISE POLLUTION CONTROL

- The applicant shall comply with the ambient noise standards as stipulated under the EP rule 1986.
- The applicant shall provide acoustic measures to the DG Sets as per Sl. No. 94 in Schedule-I of EP Rules.

XI. GENERAL

- The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
- 2. 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
- 3. 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
- 4. 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.
- 5. The applicant shall promptly comply with all orders and instructions issued from time to time by the Board or any other officers of the Board duly authorized in this behalf.
- 6. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/ effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact
- The applicant shall not store any raw materials on naked ground. The applicant shall construct impervious dyke walls/tank form for storage tanks constructed above ground level.
- 8. The applicant shall display flow diagram of the pollution control system at the site.
- 9. The applicant shall appoint a qualified environmental engineer/ scientist for environment management in the factory and also establish an environmental cell.
- **10.** Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.

- The applicant shall comply with the guidelines under Corporate Responsibilities for Environment Protection (CREP) 2003 issued by Ministry of Environmental Forests and CPCB.
- 12. 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.
- 13. An inspection book shall be opened and made available to the Board Officers during their visit to the factory.
- 14. The applicant shall provide alternate power supply sufficient to operate all pollution control equipments utilized by the applicant to maintain compliance with the terms and conditions of this consent.
- 15. The entire premises shall be always kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
- **16.** The applicant shall display the consent granted in a prominent place for perusal of the inspecting Officers of the Board.
- 17. The applicant is heirs, legal representatives or assigns shall have no claims what so ever to the continuation or renewal of this consent after expiry of the period of consent.
- 18. 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.
- 19. The applicant shall plant and maintain adequate number of trees in and around the industry to arrest the dust emissions escaping into the surrounding area and improve the environment and aesthetic appearance of the industry and the surrounding
- 20. A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Board.
- 21. The applicant shall make an application for consent at least 120 days before expiry of this consent.
- 22. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office

For and on behalf of the Karnataka State Pollution Control Board

STANDARDS FOR DISCHARGE OF TREATED TRADE EFFLUENT ON LAND FOR GARDENING/IRRIGATION

SL. No.	Parameters	Tolerance limits.
1.	Colour and Odour.	See Note.
2.	Suspended Solids mg/l.Max.	100
3.	pH value.	6 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

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

ANNEXURE - II

Chi mne y No.	Chimney attached to	Minimum height to be provided AGL/ARL	Rate of emissio n NM ³	Constituents to be controlled in the emission	Tolerance limits mg/NM³	APC equipment to be provided in addition to
						chimney as per col.3
1	125 TPH Boiler (bagasse/ bio-mass, coal fired)	85 M AGL	-	Particulate matter	150	ESP
2	195 TPH Boiler	108 M AGL	-	Particulate matter	150	ESP
3	1250 KVA DG Set	31.5 M AGL or 6m ARL whichever is higher	-	NOx NMHC PM CO	710 ppmv 100 75 150	Acoustic measures

- The Noise level shall not exceed 75 dB(A) leq. During day time (6 AM to 9 PM) and dB (A) leq. during night time (9 PM to 6 AM).
 NMHC- Non-Methane Hydro Carbon.
 Ppmv- parts per million volume.

SENIOR ENVIRONMENTAL O

M/s. Indian Cane Power Ltd., Bagalkot- CFO- 15-16