

# MAHARASHTRA POLLUTION CONTROL BOARD

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RED/LSI

Consent No. BO/JD (WPC)/EIC No. AD-6633-11/O/CC-<sup>CAC-28</sup> Date: 25<sup>th</sup> /11/2011.  
Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization/Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary) Rules 2008.

[To be referred as Water Act, Air Act and HW(M&H) Rules respectively].

CONSENT is hereby granted to

**M/s. Gangakhed Sugar & Energy Pvt. Ltd.,**  
Vijayanagar-Makhani, Tq. Gangakhed,  
Dist. Parbhani.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M, H & TM) Rules subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to Operate is granted for a period upto 31.01.2012**

2. **The consent is valid for the manufacture of –**

Sr. No.	Product	Maximum Quantity	
1.	Sugar	600	MT/Day
2.	Co Generation Power Plant	30	MW

**By Product**

1.	Molasses	240	TPD
2.	Bagasse	240	TPD

3. **CONDITIONS UNDER WATER (Prevention & Control of Pollution) ACT, 1974:**

- (i) The quantity of trade effluent from the factory
- From Sugar unit shall not exceed **500 M<sup>3</sup>/Day.**
  - From Co Generation Plant shall not exceed **710 M<sup>3</sup>/Day.**
- (ii) The quantity of sewage effluent from the factory shall not exceed. **10 M<sup>3</sup>/Day**

(iii) **Trade Effluent:**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

A. **For Sugar Unit:**

1)	pH	Between	5.5 to 9.0
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3 days 27 Deg. C.	Not to exceed	30 mg/l.
4)	COD	Not to exceed	250 mg/l.
5)	Oil & Grease	Not to exceed	10 mg/l.
6)	Total Dissolved Solids	Not to exceed	2100 mg/l.
7)	Chlorides	Not to exceed	600 mg/l.
8)	Sulphate	Not to exceed	1000 mg/l.

**B. For Co Generation Plant:**

**Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

The industrial effluent arising from various sections of Power Plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

**a) Condenser Cooling Water:**

- |    |                         |               |  |
|----|-------------------------|---------------|--|
| 1) | pH                      | Between       | 6.5 to 8.5   |
| 2) | Temperature             | Not to exceed | 5 Degree C.<br>Higher than the intake water temperature. |
| 3) | Free available Chlorine | Not to exceed | 0.5 mg/l   |

**b) Boiler Blow down:**

- |    |                  |               |           |
|----|------------------|---------------|-----------|
| 1) | Suspended Solids | Not to exceed | 100 mg/l. |
| 2) | Oil & Grease     | Not to exceed | 20 mg/l.  |
| 3) | Copper (Total)   | Not to exceed | 1 mg/l.   |
| 4) | Iron (Total)     | Not to exceed | 1 mg/l.   |

**c) Cooling Tower Blow down:**

- |    |                         |               |           |
|----|-------------------------|---------------|-----------|
| 1) | Free available Chlorine | Not to exceed | 0.5 mg/l. |
| 2) | Zinc                    | Not to exceed | 1 mg/l.   |
| 3) | Chromium (Total)        | Not to exceed | 0.2 mg/l. |
| 4) | Phosphate               | Not to exceed | 5 mg/l.   |

**d) D.M. Plant Effluent:**

- |    |                       |               |            |
|----|-----------------------|---------------|------------|
| 1) | PH                    | Between       | 5.5 to 9   |
| 2) | BOD 3 days 27 Deg. C. | Not to exceed | 30 mg/l.   |
| 3) | COD                   | Not to exceed | 250 mg/l.  |
| 4) | Suspended Solids      | Not to exceed | 100 mg/l.  |
| 5) | Oil & Grease          | Not to exceed | 10 mg/l.   |
| 6) | TDS                   | Not to exceed | 2100 mg/l. |

(iv) **Trade Effluent Disposal:** The treated effluent from Sugar & Co Generation plants shall be recycled & reused to the maximum extent in the process and remaining if any, shall be used for gardening on own land and nearby cane research farm. They shall achieve zero discharge of the effluent.

(v) **Sewage Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

- |     |                       |               |           |
|-----|-----------------------|---------------|-----------|
| (1) | Suspended Solids      | Not to exceed | 100 mg/l. |
| (2) | BOD 3 days 27 Deg. C. | Not to exceed | 100 mg/l. |

(vi) **Sewage Disposal:** The treated domestic effluent shall be soaked into soak pit which shall be got cleaned periodically. The overflow if any, shall be used on own land for gardening/irrigation purpose.

**Industry shall monitor ground water quality by digging Pizometric wells & analysis results shall be submitted to the Board on regular basis.**

**(vii) Non-Hazardous Solid Wastes:**

Sr. No	Type of waste	Quantity	Treatment	Disposal
1.	ETP Sludge	12.5 TPD	--	Used as fertilizer on own land
2.	Ash from Boiler (Bagasse)	19.2 TPD		Landfill
3.	Ash from Coal Manufacturer,	35.0 TPD	Should be	send to cement dispose as per Govt. of India Guidelines/ Notification, vide No. SO 763(E), dtd 14-09-99.

(viii) **Other Conditions:** The industry shall monitor effluent quality regularly.

**(ix) CONDITIONS FOR MOLASSES STORAGE:-**

1] The molasses shall be properly collected and stored in steel tanks which shall be absolutely leak proof. At no stage of handling of molasses, there shall be leakage or spillage.

- The capacity of tanks for storage of molasses shall be such that at no time the molasses shall be required to be stored in kutchha pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
- 3] All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/ molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.
- 4] Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board, intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.
- 5] The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tones shall be displayed prominently near the tank.
- 6] The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules there under :  
The daily water consumption for the following categories is as under:

(i) Domestic	...	150	CMD
(ii) Industrial Processing	...	700 (Sugar)	CMD
(iii) Industrial Processing	...	2450 (CO Gen)	CMD

- The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>.
5. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981:**
- (I) The applicant shall Operate comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

**A. Control Equipment:**

- (1) ESP with sufficient capacity provided to bagasse fired boiler shall be operated.  
(2) Dust Collector of sufficient capacity provided to emission sections shall be operated.

**B. Standards for Emissions of Air Pollutants:**

(i) SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup> .
(ii) SO <sub>2</sub>	Not to exceed	5.6 T/day

- (II) **The applicant shall observe the following fuel pattern:-**

Sr.No.	Type of Fuel	Quantity
1.	Bagasse (Off Season)	1075 TPD
2.	Bagasse (Season)	1380 TPD
3.	Coal (Off Season)	403 TPD
4.	Biomass (If required)	865 TPD
5.	HSD	3.85 unit/Lit

- (III) **The applicant shall erect the chimney(s) of the following specifications:-**

Sr.No.	Chimney attached to	Height in Mtrs.
1.	Boiler	80
2.	D G Set (1000 KVA x 2)	9* each
3.	D G Set (250 KVA)	3*

\*= above roof of Bldg. where DG Set is installed

- (IV) The applicant shall provide ports in the chimney/(s) and facilitates such as ladder, platform etc. For monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.

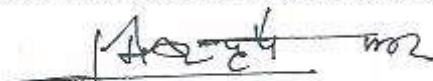
- (V) The industry shall take adequate measures for control for noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- (VI) **Conditions for D.G. Set:-**
- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b. Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and then average.
  - c. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 65 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
  - d. Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - f. A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
  - g. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- (VII) **Other Conditions:**
- 1) The industry should not cause any nuisance in surrounding area.
  - 2) The industry should monitor stack emissions and ambient air quality regularly.
6. **CREP conditions for Sugar Factory:-**
- (A) **Water Management:-**
- i) Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.
  - ii) Waste water generation shall be reduced to 100 liters per tone of cane crushed.
  - iii) Industry shall achieve zero discharge into in land surface water bodies.
  - iv) 15 days storage capacity tank shall be provided for treated effluent to take care of no demand for irrigation.
- (B) **Emission Control:-** ESP/Bag filter/Ventury scrubber shall be installed to comply with standards for particulate matter emission to < 150 mg/Nm<sup>3</sup>.
7. **CONDITIONS UNDER HW(M,H & TM) RULES, 2008.**  
The applicant shall not generate hazardous wastes
8. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
9. **General conditions:**
- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
  - (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In

the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.

- (iii) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent/ emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
- (iv) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30<sup>th</sup> September every year.
- (v) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (vi) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (vii) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- (viii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- (ix) The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
10. **Industry shall submit Bank Guarantee of Rs TWO Lakhs at Regional office Aurangabad within 15 days, for proper operation maintenance of ETP.**
11. This Consent is issued pursuant to the decision of Consent Appraisal Committee meeting held on 09.11.2011.
12. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
13. The capital investment of the project is 325/- Crores.

To,  
**M/s. Gangakhed Sugar & Energy Pvt. Ltd.,**  
 Vijayanagar-Makhani, Tq. Gangakhed,  
 Dist: Parbhani.

For and On Behalf of the  
 Maharashtra Pollution Control Board,



**(Milind Mhaiskar)**  
 Member Secretary

**Copy to:**

- 1) Regional Officer, MPCB, Aurangabad/ Sub-Regional Officer, MPCB, Parbhani. :- They are directed to ensure compliance of consent conditions.  
 3) Chief Accounts Officer, MPCB, Mumbai. 4) Cess Branch, MPCB. 5) Master file.

**Received Consent fee of -**

<u>Amount</u>	<u>D. D. No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 3,25,300/-	055132	21.12.2010	Axis bank.
Rs. 3,25,000/-	675940	16.11.2011	S.B.I