

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/LSI

Consent No. BO/RO/JD(WPC)/EIC-PN-10549-11/E/CC-127

Date: 12/01/2012

Consent to Establish under Section 25 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 Movement) Rules 2008. [To be referred as Water Act, Air Act and HW (M, H & T) Rules respectively].

CONSENT is hereby granted to,

M/s Aryan Sugars Ltd.,
Gat No. – 394/395, Dilip Nagar,
A/p – Khamgaon, Tal. – Barshi,
Dist. – Solapur.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M, H & T) Rules and amendments thereto 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 Establish is granted for a period upto commissioning of the unit OR 5 Years whichever is earlier.
2. The Consent is valid for the manufacture of –

Sr	Products	Max. Qty.
1	Sugar	7500 MT/M
2	Molassess	3000 MT/M
3	Bagasses	22500 MT/M
4	Press Mud	3000 MT/M
5	Power	10 MW

(Crushing capacity of sugar cane shall not be more than 2500 TCD)

3. CONDITIONS UNDER WATER ACT :

- (i) The daily quantity of trade effluent from the factory should not exceed **375 M³/day**.
(i.e The effluent from sugar industry should not exceed – 250 M³/day)
- (ii) The daily quantity of sewage effluent from the factory should not exceed **9.0 M³/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 maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	5.5 to 9
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	No: to exceed	10 mg/l
6	T.D.S.	Not to exceed	2100 mg/l
7	Sulphates	Not to exceed	1000 mg/l
8	Chlorides	Not to exceed	600 mg/l

- (iv) **Trade Effluent Disposal (Sugar and Co-generation plant):** The treated industrial effluent shall be recycled/ reused to the maximum extent and remaining shall be used on land for gardening only. There shall not be any discharge directly or indirectly into the water body.
- (v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality 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 Effluent Disposal:** The treated sewage effluent shall be soaked into soak pit which should be got cleaned periodically. Overflow, if any be used on land for gardening only within factory premises only.

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

Sr. No.	Type of Waste	Quantity	Disposal
1	Fly ash	4.0 MT/day	Sale to brick mfg.
2	ETP Sludge	1.5 MT/M	Used as compost
3	Filter Cake	45 MT/M	Sale

- (viii) **Other conditions:** 1)The industry should monitor effluent quality regularly from MoEF approved laboratory.

4. CONDITIONS FOR MOLASSES STORAGE:-

- i) 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.
 - ii) The capacity of tanks for storage of molasses shall be such that at no time the molasses shall be required to be stored in kutcha pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
 - iii) All the area on which molasses are stored and handled shall 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.
 - iv) 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 atleast 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.
 - v) 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 tonnes shall be displayed prominently near the tank.
 - vi) 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".
 - vi) The industry shall monitor effluent quality regularly.
5. 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	12	CMD
ii	Industrial Processing	400	CMD
iii	Industrial Cooling / Boiler	225	CMD
iv	Agriculture/Gardening	---	CMD

The applicant should 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.

6. **CONDITIONS UNDER AIR ACT:**

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and maintain the same continuously so as to achieve the level of pollutants to the following standards:

A] Control Equipment:

- 1) ESP/Bag filter/ Venturi scrubber of sufficient capacity shall be provided to bagasse fired boiler.
- 2) ESP/Bag filter/Venturi-scrubber of sufficient capacity shall be provided to sugar bagging section.

B] Standards for Emissions of Air Pollutants :

1	SPM/TPM	Not to exceed	150 mg/Nm ³
2	SO ₂	Not to exceed	600 Kg/day

- C] The applicant shall observe the following fuel pattern :-

Sr	Fuel Type	Quantity
1	Bagasse	600 MT/day
2	LDO	60 Lit/day

- (ii) The applicant should erect the chimney(s) of the following specifications :-

Sr.	Chimney attached to	Height in mt.
1	Boiler	75 mtrs.
2.	D.G. Set (300 KVA)	4* mtrs

(* above the roof of the Building in which it is installed)

- (iii) The applicant shall provide ports in the chimney/(s) and facilitates such as ladder, platform etc. For monitoring the air emissions and the same should be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission should be designated by numbers such as S-1, S-2, etc. And these should be painted / displayed to facilitate identification.
- (iv) The industry should 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 p.m.
- (v) 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 from MoEF approved laboratory.
- (vi) **Conditions for D.G. Set :-**
- [1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating room acoustically.
 - [2] Industry should provide acoustic enclosure for control of noise. The acoustic Enclosure/acoustic treatment 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) should 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
 - [3] Industry should make efforts to bring down noise level due to DG set, outside industrial premises, with ambient noise requirements by proper siting and control measures.
 - [4] Installation of DG Set much be strictly in compliance with recommendations of DG Set manufacturer.
 - [5] 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.

- [6] D.G. Set should be operated only in case of power failure.
- [7] The applicant should not cause any nuisance in the surrounding area due to operation of the D.G. Set.
- [8] The Industry should take adequate measures for control of noise levels from its own sources Within the premises in respect of noise to less than 55 DB(A) during day time & 45 db(A) during 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.

7. 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 Liter 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/Nm³.

8. CONDITIONS UNDER HAZARDOUS WASTE (Management, Handling & Transboundry Movement) RULES, 2008:

The applicant should handle hazardous wastes as specified below:

Sl.	Item No (Sch-I)	Type of Waste	Quantity	Disposal
1	5.1	Spent Oil	25 Lit./Year	Mixed with Bagasse for burning in boiler.

9. 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 should 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 should be stopped.
10. **General Conditions:**
- (i) The applicant Shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant should submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st 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 the 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 should stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) 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 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th 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 should be maintained. The applicant should 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 should be provided for collection of trade and sewage effluents. Terminal manholes should be provided at the end of collection system with arrangement for measuring the flow. No effluent should be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent should find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises should 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 should pay to the Board for the services rendered in this behalf. An inspection book should 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.
11. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
12. **If any non-Compliance of the conditions of Consent to Establish observed, the Board will initiate appropriate legal action including revocation of consent and further action.**
13. **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board, before starting actual commercial production.**
14. **This Consent is issued pursuant to the decision of the Consent Committee meeting of the Board held on 28/11/2011 and with the approval of the Hon'ble Chairman of the Board.**
15. **The capital investment of the industry is Rs. 90.00 Crore.**

For and on Behalf of the
Maharashtra Pollution Control Board,


H-1
(Milind Mhaiskar)
Member Secretary

To
M/s Aryan Sugars Ltd.,
Gat No. – 394/395, Dilip Nagar,
A/p – Khamgaon, Tal. – Barshi,
Dist. – Solapur.

Copy to: RO, MPCB, Pune / SRO, MPCB, Solapur / CAO / Cess Branch/ Master File

Received Consent fee of –

Amount	D.D. No.	Date	Bank
75,000/-	014434	12/01/2011	The Solapur District Co-Operative Bank Ltd.
50,000/-	000236	08/12/2011	Axis bank Ltd.