

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 14 /May /2012

Consent No: BO/JD(WPC)/EIC No. KP-8207-11E/CAC- 629

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 & Transboundry Movement) Rules 2008

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

CONSENT is hereby granted to

M/s. Kumbhi Kasari SSK Ltd
(Sugar Division), Village- Kutide,
Tal- Karveer, Dist- Kolhapur.

Maharashtra-416204

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) 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 up to: Commissioning of the unit or 5 year whichever is earlier
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Sugar	5517	MT/M
2	Molasses	1313	MT/M
3	Bagasse	12338	MT/M
4	Pressmud	1350	MT/M
5	Electricity	17.5	MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 360 M³.
(Including existing Sugar Unit I.E. after expansion & modernization)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 60 M³.
(Including existing Sugar Unit D.E. after expansion & modernization)

(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:

1	pH	Not to exceed	5.5 to 9.0
3	Suspended Solids	Not to exceed	100 mg/l.
4	BOD 3 Days 27 degree C	Not to exceed	30 mg/l.

5	COD	Not to exceed	250 mg/l.
6	Oil & Grease	Not to exceed	10 mg/l.
7	TDS	Not to exceed	2100 mg/l.
8	Chlorides	Not to exceed	600 mg/l
9	Sulphate	Not to exceed	1000 mg/l

(iv) **Effluent Disposal:** The treated effluent shall be used on land for gardening/irrigation within factory premises only. In no case, at any time effluent shall find its way to any water body directly or indirectly.

(v) **Sewage Effluent 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.

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

(vi) **Sewage Effluent Disposal:** The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Boiler Ash	2674*	MT/Year	--	Seal to brick manufacturers

(* - Including existing Sugar Unit quantity after expansion & modernization)

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

4. CONDITIONS FOR MOLASSES STORAGE:

- 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 kutch pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
- 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.
- 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.
- 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".
- (vii) The industry should 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 amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

- | | | |
|---|-----|-------------|
| (i) Domestic purpose | ... | 75.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 1000.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 00.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 3925.00 CMD |
- (Including existing Sugar unit water consumption after modernization)

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.

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 operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

Control Equipment: —

a) Control Equipment:

ESP/Bag filter/Wet scrubber/Dust Collector of sufficient capacity provided to bagasse fired boiler shall be operated and maintained properly.

ESP/Bag filter/Wet scrubber/Dust Collector of sufficient capacity provided to sugar bagging section shall be operated and maintained properly.

b) Standards for Stack Emissions:

- | | | | |
|--------------------|---------------|-----|--------------------|
| 1) SPM | Not to exceed | 150 | mg/Nm ³ |
| 2) So ₂ | Not to exceed | 12 | T/Day |

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Bagasse	52.76 *	MT/Hr
2	Diesel (For DG Set)	120.00	Lit/Hr

(* - Including existing Sugar Unit quantity after expansion & modernization)

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler I (100 TPH)	70
2	Boiler II (25 TPH)	35
3	Boiler III (Standby) (25 TPH)	35
4	Boiler IV (Standby) (06 TPH)	35
5	D.G. Set (365 KVA)	3.5*
6	D.G. Set (166 KVA)	2.5*

* - Above the roof in which it is installed.

(iv) The applicant shall provide ports in the chimney/(s) and facilities 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 of 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) 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.

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 litres 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/Venture scrubber shall be installed to comply with standards for particulate matter emission to < 150 mg/Nm³.

8. 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 meters 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 55 dB(A) during day time and 45 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. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

9. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.1/5.2 Wastes/residue containing oil	450	Kg/Year	Reuse in own Boiler as Fuel.
2	34.3 Chemical sludge from waste water treatment	10	MT/Year	Use as manure.

(Including existing Sugar unit water consumption after expansion & modernization)

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.

10. 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.

11. Specific condition

1. Industry shall install new high pressure boiler of 100 TPH . One 25 TPH boiler from existing will be operated & one 25TPH boiler will be kept as standby. However Existing three boilers of two 16 TPH and one 22 TPH shall be scrapped.
2. Industry shall replace fibrizer 1 No., Mill drive 5 Nos steam will be replaced by electrical drives so that water consumption & waste water consumption will be reduced.
3. Industry shall reduced bearing cooling water at mill and open gear reduction gear by using centralized lubricating system resulting into reduction at waste water at Mills.
4. A separate tank shall be provided for collection of boiler blow down water & same water shall be use for wet scrubber.
5. Industry shall adopt evaporator station vapour bleeding system resulting in reduction in steam consumption as well as spray pond condensate water load.
6. Industry shall convert high head pan to low head pan which will helpful in reduction in steam/ vapour/condensate at spray.
7. Industry shall replace existing batch type pans 3 Nos. each for B & C mascuite by continuous pan.
8. Industry shall replace existing 4 Nos. vaccum filters by 2 Nos. higher capacity vaccum filter resulting in reduction of water requirement for vaccum pump.

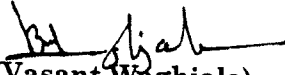
12. General Conditions:

- (i) The applicant should 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 should 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 should stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant should make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant should 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 should 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 should 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.
 - (iv) 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 should 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 should 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 should maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
13. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
14. The applicant shall obtain Consent to Operate before Actual Commencement of the production
15. This consent to Establish is issued for expansion & modernization of existing plant and as per the certificate issued by Vasantdada Sugar Institute, Pune for 'No increase in pollution load' vide No. VSI/ST/5885/2011-12 dated-03.02.2012.
16. The capital investment of the Expansion & modernization of sugar unit is Rs.123.20 Cr. (Total Capital investment industry is RS. 194.74 Cr.)
17. Industry shall obtain Environmental Clearance as per EIA Notification, 2006 & amendment thereto.

15. This Consent is issued pursuant to the decision of the Consent Appraisal Committee meeting of the Board held on 16/04/2012.

For and on Behalf of the
Maharashtra Pollution Control Board,


(Vasant Waghjale)
Member Secretary

M/s. Kumbhi Kasari SSK Ltd
(Sugar Division), Village- Kutide,
Tal- Karveer, Dist- Kolhapur.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	101500	113984	23 June 2011	SBI Bank
2	021710	975248	05 Aug 2011	SBI Bank
3	123207	125161	04 May 2012	SBI Bank
4	246471	240466	10 May 2012	SBI Bank