

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No. *BO/JD(WPC)/EIC No. PN-11252 -11/R/CC- CAC-115* Date: *23/12/2011*

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 Movement) Rules 2008

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

CONSENT is hereby granted to

M/s. Vitthalrao Shinde SSK Ltd.,
(Co-Generation Unit),
Gangamai Nagar, Pimpalner, Tal. - Madha
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) 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 Operate is granted for a period up to: **31/08/2012.**
2. The Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity	UOM
1	Electricity	30.50	MW

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent generated from above activity shall not exceed **102.0 M³/Day**

(ii) The daily quantity of sewage effluent from the co-generation unit shall not exceed **8.0 M³.**

(iii) **Trade Effluent : Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment provided for sugar unit 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:

Sr.no	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	BOD 3 days 27 Deg. C	Not to exceed 30 mg/l
3	COD	Not to exceed 250 mg/l
4	Oil & Grease	Not to exceed 10 mg/l
5	TDS	Not to exceed 2100 mg/l.
6	Chlorides	Not to exceed 600 mg/l.
7	Sulphates	Not to exceed 1000 mg/l.
8	SS	Not to exceed 100 mg/l.

(iii) **Trade Effluent Disposal:** (Co Generation plant) The treated industrial effluent shall be recycled/ reused to the maximum extent and remaining shall be used on land for gardening within factory premises only. There shall not be any discharge outside the factory premises. Industry should not discharge any effluent in to local nalla.

(iv) **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.

(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 domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Boiler Ash	21	MT/day	--Sale to Brick manufacturer---	

(viii) **Other Conditions:**

1. Industry should monitor effluent quality regularly.

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 amendment Rules, 2003 there under**

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

(i)	Domestic	...	10.0	CMD
(ii)	Industrial Processing	...	91.0	CMD
(iii)	Industrial Cooling /Boiler	...	259.0	CMD
(iv)	Agricultural/Gardening	...	---	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribe form and pay the Cess as specified under Section 3 of the said Act.

5. **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:

A) Control Equipment:

- 1) Electrostatic precipitator of adequate capacity shall be provided and operated to Bagasse fired boiler to limit the emissions.
- 2) Preheating arrangements shall be provided so as to maintain moisture contain of bagasse to be used as fuel that shall be less than 5% by dry basis.
- 3) ESP/Bag Filters/Ventury scrubber/Dust collector of adequate capacity shall be provided and operated to other sources to limit the air emissions.

B) Standard for Emission of Air Pollutants

(a) SPM	Not to Exceed	150 mg/Nm ³
(b) SO ₂	Not to Exceed	7 T/Day

C) Conditions for D.G. Set

- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 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.
- 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.
- 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.
- Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- 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
- D.G. Set shall be operated only in case of power failure
- The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

(ii) The Applicant shall observe the following fuel pattern

Sr No	Type of Fuel	Quantity
1	Bagasse	85.59 T/Hr.
2	HSD	26.0 Lit./Hr.

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

Sr No	Chimney Attached to	Height in Mtrs
1	Boiler (2 Nos)	65.0 mtrs.
2	D.G Set (500 KVA)	5*

(* above the height of the building where the DG set is installed)

- The applicant shall provide ports in the chimney/(s) and facility such as ladder, platform etc for monitoring of 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 designed by numbers such as S-1, S-2 etc. and these shall be painted /displayed to facilities identification.

(vi) 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 Condition**

- (a) The Bagasse handling system shall be covered with proper hooding and ventilation arrangements connected to dust suppress agent so as not to allow any fugitive emissions.
- (b) The Industry should not cause any nuisance in surrounding area.
- (c) The industry shall monitor stack emissions and ambient air quality regularly.
- (d) The industry shall install continuous monitoring equipment for stack emission analysis and submit the report on fortnightly basis to the respective Regional office/ Sub Regional Office.
- (e) Applicant shall install one continuous automatic ambient air and micrometeorological monitoring station at prominent downwind direction indicated by state board to be set up and operate at its own cost, measure So₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

6. 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 Used Oil/Spent Oil	350	Kg/M	Sale to authorized reprocessor
2	34.3 Chemical Sludge from Waste water treatment	2	T/M	CHWT/SDF

(ii) Treatment: - NA

(iii) The authorization is hereby granted to operate a facility for collection, storage, transport and disposal of hazardous waste.


7. 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.

8. Industry shall comply with following additional conditions:

- i. 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.

- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
 - iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
 - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
 - v. 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.
 - vi. 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.
 - vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
 - viii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
 - ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - ix. The applicant shall install a separate electric 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.
 - Xi. 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.
 - xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
 - xiii. 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.
9. The Industry shall comply with the hazardous Waste (Management, Handling & Trans Boundary Movement) Rules, 2008.

10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
11. Industry shall submit the Bank Guarantee of Rs. 5.0 Lakhs in favor of the Regional Officer Pune for Operation and Maintenance of ETP and Air Pollution control devises so as to achieve the consented standards.
12. Industry shall submit the Bank Guarantee of Rs. 2.0 Lakhs in favor of the Regional Officer Pune for providing necessary arrangements to cover the effluent collection system and to avoid the ingress of bagasse and other materials within Six Months period i.e upto June, 2012.
13. The Capital investment of the Co- Generation Plant is Rs. 78.56/- Crs. And the total C.I of the Sugar, Distillery and Co- generation Plant is Rs. 225.32 Crs.
14. The Consent is issued pursuant to the decision of Consent Appraisal committee meeting held on 15/12/2011.


 23/12
 (Milind Mhaikar, IAS)
 Member Secretary

To,
 M/s. Vitthalrao Shinde SSK Ltd.,
 (Co-Generation Unit),
 Gangamai Nagar, Pimpalner, Tal. - Madha
 Dist ;Solapur.

Copy to:

1) RO- MPCB Pune /SRO Solapur/CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	75100/-	000133	30/07/2011	IDBI Bank
2	50000/-	027505	05/12/2011	Bank of India

* Consent fees received as per revised consent fees G.R. of Env't. Dept. GoM dated 25.8.2011