


# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No. **BO/APAE/EIC No. KP-7788 -11/R/CC-179**      Date: **30/01/2012**

**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. Shri Chhatrapati Shahu SSK Ltd.,  
( Co-Generation Unit),  
Kagal, Tal. Kagal,  
Dist ;Kolhapur.**

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: 31/12/2012.**
2. **The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity	UOM
1	Electricity	12.5	MW

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of tailrace discharge from hydro power station shall not exceed **50.0 M<sup>3</sup>/Day**
- (ii) The daily quantity of sewage effluent from the Hydro Power Station shall not exceed **8.0 M<sup>3</sup>**.
- (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:

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:

Sr.no	Parameter	Limits
<b>Condenser Cooling Water</b>		
1	pH	Between 6.5 to 8.5
2	Temperature	Not exceed 5 Degree C higher than the intake water temperature
3	Free available Chlorine	Not to exceed 0.5 mg/l
<b>Boiler Blow Downs</b>		
1	Suspended Solids	Not to exceed 100 mg/l.
2	Oil and 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
<b>Cooling Tower Blow Down</b>			
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.
<b>D. M. Plant Effluent</b>			
1	pH	Between 6.5 to 9.0.	
2	BOD 3 days 27°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

(iii) **Trade Effluent Disposal:** The treated effluent shall be recycled back for industrial use including coal dust suppression/ making ash slurry & remaining for plantation in the premises.

(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 27°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	Fly Ash	15.6	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	...	---	CMD
(iii)	Industrial Cooling /Boiler	...	175.0	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. (As per clause no 2.C of Cess Act Hydro Power Stations are exempted from the Definition of Industry hence payment of Cess is not applicable to Bhira Hydro Power Station)

**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 to Bagasse fired boiler to limit the emissions.
- 2) ESP/Bag Filters/Ventury scrubber/Dust collector of adequate capacity shall be provided to other sources to limit the air emissions.

**B) Standard for Emission of Air Pollutants**

(a) SPM	Not to Exceed	100 mg/Nm <sup>3</sup>
(b) SO <sub>2</sub>	Not to Exceed	1.27 T/Day

**(ii) The Applicant shall observe the following fuel pattern**

Sr No	Type of Fuel	Quantity
1	Bagasse	46 MT/Hr.

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

Sr No	Chimney Attached to	Height in Mtrs
1	Boiler	70.0

(iv) 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.

(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 Condition**

- (a) The industry should not cause any nuisance in surrounding area.
- (b) The industry shall monitor stack emissions and ambient air quality regularly.
- (c) 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.
- (d) 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 So<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.
- (e) The Bagasse handling system shall be covered with proper hooding & ventilation arrangements connected to dust suppressing agent so as not to allow any fugitive emissions.

- (f) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of stipulated environmental safeguards.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

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

Sr. N	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used Oil/Spent Oil	250	Ltrs/Annum	Sale to authorized reprocessor

- (ii) Treatment: - NA

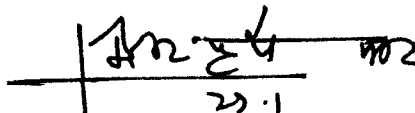
- (iii) The authorization is hereby granted to operate a facility for collection, storage, transport and disposal of hazardous waste.

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 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per 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.
- 9. Industry shall submit bank Guarantee of Rs. 5.0 lacs for monitoring of standards & compliance of consent conditions.**
- 10. Industry shall submit Bank Guarantee of Rs. 2 lacs towards the covering the drain arrangement to avoid ingress of Bagasse.**
- 11. The Capital investment of the industry is Rs. 54.0/- Crs.**
- 12. This is issued with the approval of Consent committee meeting held on 28/11/2011.**

  
 (Milind Mhaskar, IAS)  
 Member Secretary

To,

**M/s. Shri Chhatrapati Shahu SSK Ltd.,  
 ( Co-Generation Unit),  
 Kagal, Tal. Kagal,  
 Dist ;Kolhapur.**

Copy to:

- 1) RO- MPCB Kolhapur /SRO Kolhapur:- They are directed to submit the compliance report of consent conditions within one month period.
- 2) CAO/Cess Branch/Master File **Received Consent fee of -**

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	75000/-	16324	3/12/2010	Bank Of India
2	100000/-	018446	25/11/2011	Bank Of India
3	5000/-	018460	29/11/2011	Bank Of India

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