

# MAHARASHTRA POLLUTION CONTROL BOARD

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400 022.

RED/LSI

Consent No. BO/AS(T)/EIC. No. CH-0660-11/E/CC-386 Date: 15/05/2012.

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) Rules respectively].

CONSENT is hereby granted to

M/s A.A. Energy Ltd.,  
S. No. 327/2, 328, 324, 327/1, 327/3&4, 325, 326/2,  
326/3, 322/2 & 329/3, Wadsa-Desaiganj,  
Tal.- Desaiganj, Dist.-Gadchiroli.

located in the area declared under the provisions of the Water Act, Air act and Authorisation 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 for expansion of existing 10 MW Biomass based power plant is granted for a period upto Commissioning of the project or 5 years whichever is earlier.

2. The Consent is valid for the manufacture of:-

Sr. No	Product	Maximum Quantity
1.	Electricity Generation	7.5 MW

**"Consent to Establish will be operational only after obtaining Environmental Clearance from Competent Authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including conditions which may be more stringent, if stipulated by / in the Environmental Clearance."**

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

The daily quantity of trade effluent from the power plant shall be 174.0 m<sup>3</sup>.

The daily quantity of sewage effluent from power plant shall be 0.36 m<sup>3</sup>.

4. **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:

:2:

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:

**I. 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<br>temperature. |
| 3) Free available Chlorine | Not to exceed | 0.5 mg/l   |

**II. 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.   |

**III. Cooling Tower Blowdown:**

- |                            |               |           |
|----------------------------|---------------|-----------|
| 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.   |

**IV. D.M. Plant Effluent:**

- |                         |               |             |
|-------------------------|---------------|-------------|
| 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) TDS                  | Not to exceed | 2100 mg/l.  |

- v. **Trade Effluent Disposal:** The treated effluent shall be 100 % recycled and reused for ash handling, coal handling, dust suppression etc. to the maximum extent and remaining shall be utilized for plantation/gardening. The Industry shall achieve zero discharge.

- vi. **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. |

- vii. **Sewage Effluent Disposal:** The treated domestic effluent shall be recycled and reused for cooling tower, for ash quenching, dust suppression etc. to the maximum extent and remaining shall be utilized on own land for gardening/plantation.

**viii. Non-Hazardous Solid Wastes:**

<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
1) Fly/Bottom ash	40 T/day	---	<b>Shall be send to Cement Manufacturers or disposed off as per MoEF, GoI Notification No. SO 763(E) dtd. 14/09/1999.</b>

(viii) **Other conditions:**

- i) The industry should monitor effluent quality regularly.
- ii) Green Belt / afforestation shall be done up to 33% on available open space land.
- iii) The firm shall provide continuous flow meter for the measurement of the flow of the water consumed and flow of the effluent.
- iv) Industry shall adopt clean technology like ozonization for cooling water treatment.
- v) Industry shall provide dry fly ash handling & collection system and ensure utilization of the fly ash as per Fly Ash Notification of the MoEF, Govt.
- vi) Transportation of coal & fly ash shall be by closed system, conveyor system wherever possible.
- vii) The factory authority shall comply with the provisions of the utilization of ash generated from their activity as stipulated in the Notification issued by Ministry of Environment & Forests, Government of India Notification No. SO 763(E), dtd. 14-09/1999
- viii) Monitoring of surface water quantity and quality shall also be regularly conducted and records shall be maintained. The monitored data shall be submitted to the Board regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records shall be maintained. Monitoring of heavy metals in ground water shall be undertaken.

## 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	...	1.2	CMD.
ii) Industrial Processing	...	30.0	CMD
iii) D.M Plant)			
iv) Industrial cooling	...	1,085.0	CMD
v) Boiler	...	24.0	CMD
vi) Gardening	...	15.0	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.

5. **CONDITIONS UNDER AIR ACT:**

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:**

1. Electrostatic Precipitator (ESP) of sufficient capacity shall be provided to Boiler and any other sources of particulate matter, so as to ensure that TPM emission do not exceed 100 mg/Nm.<sup>3</sup>
2. Dust collector of sufficient capacity should be provided to coal crusher & any other sources of dust emission. Dust collection system and automatic water sprinkler system shall be provided to coal handling plant.
3. There shall not be any fugitive emission from coal/rice husk/fly ash handling.

**Standards for Emissions of Air Pollutants:**

i) SPM/TPM	Not to exceed	100 mg/Nm. <sup>3</sup>
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:4:

(ii) SO<sub>2</sub> Not to exceed 0.98 TPD.

(iii) The applicant shall observe the following fuel patten:-

<u>Sr. No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
i.	Coal	30 T/day
ii.	Rice Husk	170 T/day

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

<u>Sr. No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
i.	Boiler	55.0

v. 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.

**Other Conditions:**

The coal and rice husk handling systems shall be covered with proper hooding and ventilation arrangements connected to dust suppress agent so as not to allow any fugitive emissions.

There shall not be any fugitive emissions.

The industry shall not cause any nuisance in surrounding area.

The industry shall monitor stack emissions & ambient air quality regularly.

The factory authorities shall install a separate meter showing the consumption of energy for operation of Air Pollution Control Equipments. The quarterly returns of this consumption shall be submitted to Board under intimation to respective Regional Office/ Air Pollution Control Officer and Sub-Regional Officer by 10<sup>th</sup> of January, April, July and October.

The applicant shall install three ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost to measure SO<sub>2</sub>, NO<sub>x</sub> and Particulate Matter.

Continuous on-line monitoring system shall be installed for stack monitoring of SO<sub>2</sub>, NO<sub>x</sub> and Total Particulate Matter (TPM) and submit results to the respective Regional Office / Sub-Regional Office every fortnight. The results for continuous monitoring done on daily basis shall be submitted after every 15 days to Regional Officer, Chandrapur with a copy to Member Secretary, Mumbai. In the event of difficulty in providing the continuous monitoring system, monitoring shall be done daily and results be submitted as stated above. Necessary provision of networking to the Air Quality Monitoring network of M.P.C. Board.

If due to any technological improvements or otherwise this Board is of opinion that all or any of the conditions referred above require variation (including the change of any control equipment either in whole or in part), this Board shall after giving the applicant an opportunity of being heard very all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions so varied.

6. **CONDITIONS UNDER HW (M &H) RULES, 1989 & AMENDMENT RULES, 2003:**

**The applicant shall not generate any type of hazardous wastes.**

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. **General conditions:**

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.

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 adhere by terms & conditions of this consent regarding pollution levels.

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.

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.

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.

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.

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.

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.

:6:

- (ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.
9. This consent is issued pursuant to the decision of Consent Committee meeting held on 2.05.2012.
10. **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board, before starting actual commercial production.**
11. **The applicant shall not take any effective steps towards implementation of the project before obtaining Environmental Clearance as per MoEF, Govt's EIA Notification dtd. 14/09/2006. If any non-compliance of the conditions of Consent to Establish is observed, the Board will initiate appropriate legal action including revocation of Consent & further action.**
12. This Board reserves the right to amend or add any conditions in this consent and same shall be binding on the applicant.
13. The total capital investment of the industry is Rs. 86.25/- Crs. (Existing - Rs. 46.50 Crs. + Proposed Expansion- Rs. 39.75 Crs).

**(V.B. Waghjale)**  
Member Secretary

To  
M/s A.A. Energy Ltd.,  
S. No. 327/2,328,324,327/1,327/3&4,325,326/2,  
326/3,322/2 & 329/3, Wadsa-Desaiganj,  
Tal.- Desaiganj, Dist.-Gadchiroli.

Copy to:

- 1: Regional Officer, MPCB, Chandrapur.  
2: Sub-Regional Officer, MPCB, Chandrapur.  
3: Chief Accounts Officer, MPCB, Mumbai.

Received Consent fee of -

<u>Amount</u>	<u>D. D. No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 50,000/-	110741	11.04.2011	SBI.
Rs. 25,000/-	112163	02.02.2012	SBI.

4: C.E.S Branch, 5) Master File.