

MAHARASHTRA POLLUTION CONTROL BOARD

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Near Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Date: 08/01/2013

Consent No: BO/JD(APC)/EIC No.PN-13967-12/O/CC-CAC- 748

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. Avantha Power and Infrastructure Ltd.
Unit Bhigwan, 105,
Milestone, Pune Solapur Highway,
Bhadalwadi-Paundhwadi, Tal. Indapur,
Dist. Pune

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:

- The Consent to operate is granted for a period up to 30/06/2013
- The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Power Generation (Coal based power plant)	60	MW
2	Steam	425	TPH

3. CONDITIONS UNDER WATER ACT:

- The daily quantity of trade effluent from the factory shall not exceed 1008 M³.
- The daily quantity of sewage effluent from the factory shall not exceed 62 M³.

- 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:

- a) **Condenser Cooling Water:**
- | | | |
|----------------------------|---------------|---|
| 1) pH | Between | 6.5 to 8.5 |
| 2) Temperature | Not to exceed | 5 Degree C. |
| | | Higher than the intake water temperature. |
| 3) Free available Chlorine | Not to exceed | 0.5 mg/l |

- b) **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. |

- c) **Cooling Tower Blow down:**
- | | | |
|----------------------------|---------------|-----------|
| 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. |

- d) **D.M. Plant Effluent:**
- | | | |
|--------------------------|---------------|------------|
| 1) PH | Between | 5.5 to 9 |
| 2) BOD 3 days 27 Deg. 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. |

(ii) **Trade Effluent Disposal:** The total treated effluent shall be recycled/ reused for ash handling, Coal handling, dust suppression etc to the maximum extent and remaining shall be utilized for plantation/gardening.

(iii) **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. |

(iv) **Sewage Effluent Disposal:** The treated domestic effluent shall be treated at Sewage treatment Plant. Overflow, if any, shall be used on land for gardening / plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Boiler Fly Ash	700	Ton/Day	Shall be send to Cement Manufacturer. Dispose as per Govt. India Guidelines Notificat vide no.SO 763(E) da 14.9.1999.

(viii) **Other Conditions:**

- i) The unit shall carry out monthly monitoring of treated domestic as well as industrial effluent and submit the report of the same to the Board regularly

- ii) The unit shall take necessary efforts for segregation of solid waste at source only and disposal salable waste regularly. The records showing waste segregation at source to be maintained.
- iii) The unit shall take necessary efforts regarding rain water harvesting every monsoosn.

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	...	62.0 CMD
(ii) Industrial Processing	...	00.0 CMD
(iii) Industrial Cooling	...	6140.0 CMD
(iv) Industrial Processing & floor washing	...	0.0 CMD
(iv) Agriculture / Gardening	...	00.0 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 :

(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:

(viii) Other conditions:

- a) The industry should monitor effluent quality regularly.
- b) Green Belt a forestation shall be done up to 33% on available open space land.
- c) The firm shall provide continuous flow meter for the measurement of the flow of the effluent.
- d) Industry shall adopt clean technology like ozonization for cooling water treatment.
- e) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India.
- f) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
- g) Fly ash shall be 100% utilized within six years as per fly ash Notification

b 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 75 dB(A) during day time and 70 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

c. Standards for Emissions of Air Pollutants :

(i)	SPM/TPM	Not to exceed	100 mg/Nm ³
(ii)	SO ₂	Not to exceed	70.128 T/Day.
(iii)	NH ₃	Not to exceed	50 ppm
(iv)	NO _x	Not to exceed	150 mg/Nm ³ .

d.(I) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal	1800	T/Day
2	Furnace Oil	3000	Kg/Hr
3	Gas	676260	Nm ³ /hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	CFBC Boiler	120
2	Oil Boiler & FBC Boiler	75

6. 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.
7. 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.

(iii) **Other Conditions:**

- (i) The coal handling system shall be covered with proper hooding and ventilation arrangements connected to dust suppress agent so as not to allow any fugitive emissions.
- (ii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (iii) The industry shall not cause any nuisance in surrounding area.
- (iv) The industry shall monitor stack emissions & ambient air quality regularly.
- (v) The applicant shall operate online continuous monitoring system for stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office.
- (vi) The applicant shall operate all the three continuous automatic ambient air to measure SO₂, NO_x and particulate matter and shall operate micrometeorological monitoring station & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office.
- (vii) 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.

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

(viii) The Industry shall handle hazardous wastes as specified below

Sr. No.	Type Of Waste	Quantit	UOM	Disposal
1	5.1 Used /spent oil	3.2	T/Day	Sale to Auth. reprocessor
2	5.2 Wastes/residue containing oil (Filter)	250	Nos/Day	CHWTSDF
3	33.3 Discarded containers barrels / liners	40	Nos/M	CHWTSDF
4	5.2 Wastes/residue containing oil (Bearing)	158	Nos/Year	CHWTSDF
5	5.2 Wastes/residue containing oil (Cotton saw dust)	425	KG/Year	CHWTSDF
6	22.2 Residue of particles (Paint Can)	40.0	Nos/Year	CHWTSDF
7	22.2 Residue of particles(Waste plastic)	1.42	MT/Y	CHWTSDF

(ii) Treatment: - NIL

- a. 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.
- b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.

c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008 and shown & submitted to the Board as & when asked for.

9. Industry shall comply with following general 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. An 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.
- x. 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

- xi. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory

This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

This issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 27/12/2012.

10. Industry shall stop discharge of effluent from power plant into Bori Nallah by 31.03.2013 and submit BG of Rs. 5/- lakhs in favor of Regional Officer Pune within 15 days towards the compliance of the same.
11. Industry shall install opacity & CAAQMS by 30.06.2013 and submit BG of Rs. 5/- lakhs in favor of Regional Officer Pune within 15 days towards the compliance of the same.
12. Industry shall provide adequate land for disposal of effluent by 30.06.2013 and submit BG of Rs. 5/- lakhs in favor of Regional Officer Pune within 15 days towards the compliance of the same.
13. Industry shall submit BG of Rs. 5/- lakhs in favor of Regional Officer Pune within 15 days towards O & M of pollution control system so as to achieve consented standards. The Bank Guarantee shall be valid one year period.
14. The total Capital investment of the industry is Rs.275.14 Crs

(Rajeev Kumar Mital IAS)
Member Secretary

To,
M/s. Avantha Power and Infrastructure Ltd.
Unit Bhigwan, 105,
Milestone, Pune Solapur Highway,
Bhadalwadi-Paundhwadi, Tal. Indapur,
Dist. Pune

Copy to:

1) Regional Officer/Sub-Regional Officer, MPCB, Pune II-they are directed to ensure the Compliance of consent conditions & obtain the B.G. of Rs. 5/- Lakhs + Rs. 5/- Lakhs + Rs. 5/- Lakhs + Rs. 5/- Lakhs from the industry within 1 month.

3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	2750810	000034	24/04/2012	IDBI
2	720	000093	17/05/2012	IDBI