

**BY SPEED POST**

No. J- 13011/23/2007-IA-II (T)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110003

Dated: 17<sup>th</sup> July, 2007

To

M/s Wardha Power Company Private Ltd  
8-2-293/82/A/431A, Road No. 22  
Jubilee Hills, Hyderabad- 500 033.

**Sub: 2x135 MW (Phase-I) Thermal Power Project at Warora Growth Centre, MIDC, Chandrapur, Maharashtra by M/s Wardha Power Co. Pvt. Ltd – Environmental Clearance Regarding.**

Sir,

The undersigned is directed to refer to your communication no. EA/DEL/SK/088 dated 7.04.2007 on the above mentioned subject.

2. It is noted that the proposal is for grant of environmental clearance for setting up of a 2x135 MW coal based thermal power plant as phase-I at Warora Growth Centre, MIDC, District Chandrapur, Maharashtra. The land requirement is 91 ha. The coal requirement is estimated as 3600 TPD, which will be obtained from Morga II Block, Chhattisgarh by rail. The water requirement is estimated as 946 m<sup>3</sup>/hr, which will be obtained from MIDC. No ecologically sensitive area is reported within 15 Km radius from the plant boundary. No R&R is involved. As the project is to be located in a notified industrial estate, it is exempted from conduct of public consultation under the EIA Notification, 2006. Total project cost of the project is Rs 1197.99 crores which includes Rs 96.00 crores for environmental protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of

Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) No additional land in excess of 91 ha shall be acquired for any activity of the project.
- (ii) Coal with ash content not exceeding 36% and sulphur content not exceeding 0.6% shall be used.
- (iii) A bi-flue stack of 220 m height with exit velocity of not less than 25 m/s shall be provided with continuous online monitoring system.
- (iv) High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm<sup>3</sup>.
- (v) Fly ash shall be collected in dry form and utilized as per fly ash utilization notification, 1999.
- (vi) Water requirement shall not exceed 946 m<sup>3</sup>/hr.
- (vii) Cycle of Concentration (COC) of 5 shall be adopted.
- (viii) Waste water generated shall be recycled and reused in the plant premises .There shall be no discharge of waste water out side the plant boundary.
- (ix) Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from the ash disposal area.
- (x) Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.
- (xi) A greenbelt shall be developed all around the plant boundary and ash pond area covering an area of 30 ha.
- (xii) Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with State Pollution Control Board. Six monthly reports shall be submitted to this Ministry and its Regional Office at Bhopal.

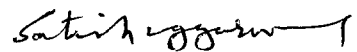
- (xiii) For controlling fugitive dust, regular sprinkling of water in coal handling areas and other vulnerable areas of the plant shall be ensured.
- (xiv) The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the Website of the Ministry of Environment and Forests in the <http://envfor.nic.in>.
- (xv) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (xvi) Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted to this Ministry, its Regional Office, CPCB and SPCB.
- (xvii) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report, Environment Management Plan and other information submitted to MoEF should be forwarded to the Regional Office for their use during monitoring.
- (xviii) Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xix) Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at Bhopal /the CPCB/the SPCB during monitoring of the project.

4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.

5. The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.

6. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.



**(DR. S.K. AGGARWA)**  
**DIRECTOR**

**Copy to:**

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Department of Energy and Environment, Govt. of Maharashtra, Mantralaya, Mumbai-400032, Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K.Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pollution Control Board, Kalptaru point 3<sup>rd</sup> & 4<sup>th</sup> Floor Sion Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, near Sion Circle, Sion(East), Mumbai-400022 - with request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Western Regional Office, Ministry of Environment & Forests, E-3/240, Arera Colony, Bhopal-462016.
7. Director (EI), MOEF
8. Guard file.
9. Monitoring file.

  
**(Dr. S.K. AGGARWAL)**  
**DIRECTOR**

**BY SPEED POST**

No. J- 13011/46/2007-IA-II (T)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110003

Dated: 21<sup>st</sup> November, 2007

To

M/s Wardha Power Company Pvt. Ltd  
8-2-293/82/A/431A,  
Road No. 22, Jubilee Hills,  
Hyderabad- 500 033.

**Sub: 2x135 MW Coal based Thermal Power Project, Phase-II at  
Warora Growth Centre, MIDC, Chandrapur, Maharashtra by M/s  
Wardha Power Company Pvt. Ltd - Environmental Clearance  
Regarding.**

Sir,

The undersigned is directed to refer to your communication no. EA/DEL/SSN/431 dated 20.08.2007 on the above-mentioned subject.

2. It is noted that the proposal is for grant of environmental clearance for setting up of a 2x135 MW coal based thermal power plant as phase-II at Warora Growth Centre, MIDC, District Chandrapur, Maharashtra. The total capacity of phase-I and phase-II put together will be 540MW. The land requirement for the project is 52ha. The total land requirement for phase-I and phase-II put together will be 144ha. The coal requirement is estimated as 3600 TPD, which will be obtained from Morga II Block, Chhattisgarh. The water requirement is estimated as 946 m<sup>3</sup>/hr, which will be obtained from MIDC. No ecologically sensitive area is reported within 15 Km radius from the plant boundary. No R&R is involved. As the project is to be located in a notified industrial estate, it is exempted from conduct of public consultation under the EIA Notification, 2006. Total cost of the project is Rs 1051.19 crores which includes Rs 94.00 crores for environmental protection measures.


3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

**For Mr. S. KISHORE  
From. K.E. RAJU**

- (i) No additional land in excess of 144 ha shall be acquired for any activity relating to phase I and phase II of the project put together.
- (ii) Coal with ash content not exceeding 36% and sulphur content not exceeding 0.6% shall be used.
- (iii) A bi-flue stack of 220 m height with exit velocity of not less than 25 m/s shall be provided with continuous online monitoring system.
- (iv) High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm<sup>3</sup>.
- (v) Fly ash shall be collected in dry form and 100% fly ash utilization shall be ensured from day one. Bottom ash shall be disposed in the form of high concentration slurry in the ash pond.
- (vi) Water requirement shall not exceed 946 m<sup>3</sup>/hr.
- (vii) Closed cycle system of cooling with cooling towers and Cycle of Concentration (COC) of at least 5 shall be provided.
- (viii) Waste water generated shall be recycled and reused within the plant premises. There shall be no discharge of waste water outside the plant boundary.
- (ix) Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from the ash disposal area.
- (x) Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.
- (xi) A greenbelt shall be developed all around the plant boundary and ash pond area covering at least 1/3<sup>rd</sup> of the total project area of phase-I & II.
- (xii) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with State Pollution Control Board. It shall be ensured that at least one monitoring station is located at a location where maximum ground level concentration is likely to occur. Six monthly reports shall be submitted to this Ministry and its Regional Office at Bhopal.

- (xiii) For controlling fugitive dust, regular sprinkling of water in coal handling areas and other vulnerable areas of the plant shall be ensured.
  - (xiv) The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the Website of the Ministry of Environment and Forests in the <http://envfor.nic.in>.
  - (xv) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
  - (xvi) Half yearly report on the status of implementation of the conditions and environmental safeguards shall be submitted to this Ministry, its Regional Office, CPCB and SPCB.
  - (xvii) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report, Environment Management Plan and other information submitted to MoEF should be forwarded to the Regional Office for their use during monitoring.
  - (xviii) Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
  - (xix) Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at Bhopal /the CPCB/the SPCB during monitoring of the project.
4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
5. The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.
6. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

  
(DR. S.K. AGGARWAL)  
DIRECTOR

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