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BY SPEED POST

F. No. J- 13011/12/2006-IA.II(T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

Dated: 27th November, 2006

To

The Chief General Manager (CEHSU)
Maharashtra State Power Generation Company Ltd
Corporate Environment, Health and Safety Unit
Prakashgad, 3rd Floor
Plot No. G-9, Bandra (East)
Mumbai- 400 051

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Pl. to be concerned

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Sub: Expansion (2x500 MW) of Coal Based Thermal Power Project at Bhusawal, District Jalgaon, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd (Mahagenco). - Environmental Clearance reg.

Sir,

The undersigned is directed to refer to your communication No. CGM/CEHSU/2X500 MW Proj / Bhusawal expn/ EIA/357 dated 20th July, 2006 regarding the subject mentioned above. Subsequent information furnished vide letter no. CGM/CEHSU/2x500 MW Proj/BSL Expn/EIA/514 dated 20.9.2006 has also been considered.

2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 1994 to setup two units of 500 MW each as an expansion of the existing coal based thermal power plant (482.5 MW) at Bhusawal, District Jalgaon, Maharashtra. The proposed units of 500 MW each will be setup on the available 90 ha of vacant land within the existing premises of Bhusawal power plant. No additional land will be acquired. The water requirement for the expansion units is 36 million m³/year which will be met from the existing allocation of 46.09 million m³/year from Hatnoor Dam and 12 million m³/year available from existing barrage of MSEB. The liquid effluents after treatment will be re-circulated and reused within the plant. There will be zero discharge outside the plant. No reserve forest and /or ecologically sensitive area is involved in the project. No displacement of population is involved. The proposed plant will be based on washed coal. It has been estimated that about 4.8

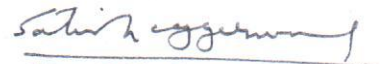
million tonnes per year of washed coal will be required. Public hearing for the project was held on 23.06.2005 and NOC was issued by Maharashtra Pollution Control Board on 08.08.2006. The project cost is Rs 4616.00 crores including Rs 311.4 crores for environmental protection measures.

3. The proposal has been considered in accordance with para 12 of the EIA Notification dated 14th September, 2006 read with sub clause (i) of clause 2.1.1 of sub para 2.1 of the Circular no. J-11013/41/2006 – IA.II (I) dated 13th October, 2006 and is hereby accorded environmental clearance under the provisions there of subject to implementation of the following terms and conditions:

- (i) All the conditions stipulated by Maharashtra Pollution Control Board vide their letter no. BO/RO(P&P)/CC-579 dated 08.08.2006 shall be strictly implemented.
- (ii) No additional land shall be acquired for the project including the ash pond.
- (iii) Particulate emission from the existing units shall not exceed 150 mg/Nm³ and Ammonia dosing system in unit 2 shall be completed by December, 2007 to limit the particulate emission within 150 mg/Nm³. In case of the proposed new units it shall not exceed 100 mg/Nm³.
- (iv) Fly ash shall be collected in dry form only and 100% fly ash utilization shall be ensured. However, in case of emergency, the unutilized fly ash shall be dumped in the existing ash pond in the form of high concentration slurry.
- (v) The sulphur and ash content in the coal to be used for the power plant shall not exceed 0.6% and 30% respectively.
- (vi) Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to the Ministry.
- (vii) The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.
- (viii) Two single flue stacks of 275 m each with exit velocity of not less than 21 m/sec shall be installed with continuous on-line monitoring system.
- (ix) Electrostatic Precipitators (ESPs) with an efficiency of not less than 99.9% shall be installed to limit particulate emission within 100 mg/Nm³. Automatic system for shutting down the power plant in the event of non-functioning of ESPs shall be installed.

- (x) Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and quarterly reports shall be furnished to the Regional Office of this Ministry.
- (xi) Afforestation shall be done in 100 acres of degraded forestland to be identified in close vicinity of the project area in consultation with the State Forest Department in lieu of greenbelt. Necessary allocation of funds in this regard shall be made and included in the project cost.
- (xii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xiii) Leq of Noise level should be limited to 75 dBA and regular maintenance of equipment be undertaken. For people working in the high noise areas, personal protection devices should be provided.
- (xiv) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. Periodic quarterly reports shall be submitted to the Regional Office of this Ministry on six monthly basis.
- (xv) For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.
- (xvi) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall 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 at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- (xvii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (xviii) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- (xix) 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 and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.

- (xx) Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. This 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.
- (xxi) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at **Bhopal** /the CPCB/the SPCB who would be monitoring the compliance of environmental status.
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 proposed project from that submitted to this Ministry for clearance, a fresh reference shall 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 shall 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, the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991 and amendments and rules made there under.


(Dr. S.K. Aggarwal)
DIRECTOR