

BY SPEED POST

F. No. J- 13011/19/2005-IA.II(T)
Government of India
Ministry of Environment & Forests

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

Dated 14th March, 2006

To,

The Group Executive President
Rosa Power Supply Company Limited
312-A, World Trade Centre,
Barakhamba Lane,
New Delhi- 110 001

**Sub: 2x300 MW Rosa Thermal Power Project at Chaudera in
Shahjahanpur District, U.P. by M/s Rosa Power Supply
Company Limited - Environmental Clearance reg.**

Sir,

The undersigned is directed to refer to your communication no. NIL dated 15.10.2005 regarding the subject mentioned above. The proposal has been examined and subsequent information furnished vide letters dated 24.11.2005 and 2.12.2005 have also been considered.

2. It is noted that the proposal is presently to setup a 600 MW (2x 300 MW) Power Plant at Chaudera in District Shahjahanpur, Uttar Pradesh. The land required for the proposed capacity is 400 ha including ash pond and greenbelt. No reserved forest and / or ecologically sensitive area is involved in the project. No displacement of population is involved due to the project; however, acquisition of agriculture land is involved. The project affected people shall be paid compensation as per norms of the State Government. Coal requirement for the project is estimated as 3.0 MTPA at 85% PLF which will be obtained from Ashoka block of North Karanpura coal mines of CCL in Jharkhand. Coal will be transported through rail. Ash and sulphur contents in the coal will be 40% and 0.28% respectively. Water requirement for the project has been estimated to be about 43638 m³/day and will be drawn from river Garrah. Public hearing for the project was held on 26.09.2005 and NOC was issued by Uttar Pradesh Pollution Control Board (UPPCB)

on 14.10.2005. The project cost is Rs 2421.61 crores including Rs 100.00 crores for environmental protection measures.

3. On the basis of information submitted by the project proponent from time to time and after its consideration by the Expert Committee for Thermal Power Projects, Ministry of Environment & Forests hereby accords environmental clearance for setting up of 600 MW (2x300 MW) Rosa Thermal Power Project subject to effective implementation of following conditions and safeguards:

- (i) All the conditions stipulated by Uttar Pradesh Pollution Control Board vide their letter no. 5677/C-3/NOC/940/94 dated 2.5.1994 and F-51465 C-5/NOC-91/05/20 dated 14.10.2005 shall be strictly implemented.
- (ii) The land to be acquired for the project shall not exceed 400 ha. including land for the ash pond and green belt.
- (iii) Closed circuit cooling system with a COC of not less than 4 shall be adopted.
- (iv) 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.
- (v) There shall be no construction within 500 m from the highway and within 500 m from HFL of the river. The HFL shall be determined based on studies to be carried out by an expert agency within 3 months from the date of issue of this letter. Based on the same, a map shall be prepared showing the river, its highest flood line (HFL) and 500 m distance from HFL up to which no construction shall take place. These details shall be submitted to this Ministry within three months.
- (vi) The effluents from the plant after proper treatment shall be used within the plant to the extent possible and discharge of effluents outside the plant boundary shall be kept to the minimum. The effluents to be discharged into Ghara river shall conform to the standards prescribed by the State Pollution Control Board.
- (vii) R&R plan shall be finalized within three months in accordance with the norms to be decided by the State Govt. which shall not be less than the norms prescribed in the National R&R policy. A copy of the same shall be furnished to this Ministry within six months.

- (viii) A bi-flue stack of 275 m with exit velocity of not less than 20 m/sec and exit temperature of not less than 125^o C shall be provided with continuous on-line monitoring system. The data so collected shall be analyzed, records maintained and submitted regularly to the Regional office of this Ministry at Lucknow.
- (ix) Electrostatic Precipitators (ESPs) with an efficiency of 99.9% efficiency 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) Ash and Sulphur content in the coal to be used as fuel in the project shall not exceed 40% and 0.28 % respectively.
- (xi) Fly ash should be collected in dry form and bottom ash only be disposed in the ash pond area in the form of high concentration slurry. 100% fly ash utilization shall be ensured from 5th year onward.
- (xii) Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and data furnished to the Regional Office of this Ministry.
- (xiii) Green belt will be developed all around the power plant and around ash pond area. One third (1/3) of the total plant area shall be used for green belt development.
- (xiv) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xv) 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.
- (xvi) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. Periodic six monthly reports should be submitted to the Regional Office of this Ministry.
- (xvii) For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.
- (xviii) 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 at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.

- (xix) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
 - (xx) 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.
 - (xxi) Regional Office of the Ministry of Environment & Forests located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan should be forwarded to the Regional Office for their use during monitoring.
 - (xxii) 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.
 - (xxiii) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Lucknow/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 for starting construction/operation of the power plant. In case, the project authorities fail to do so within this stipulated period, the environmental clearance shall stand lapsed automatically.
 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,

Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact assessment Notification, 1994 and the amendments made therein from time to time.



(S.K. Aggarwal)
Director