

**BY SPEED POST**

No. J-13011/1/2006.IA-II(T)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan,  
CGO Complex, Lodi Road,  
New Delhi-110003.

Dated: 22<sup>nd</sup> June, 2006

To

The Director  
Sitapuram Power Ltd.  
8-2-293/82/A/431/A, Road No. 22,  
Jubilee Hills, Hyderabad-500 033,  
Andhra Pradesh.

**Sub: 43 MW Coal based Thermal Power Plant at Sitapuram, Nalgonda District, Andhra Pradesh by M/s Sitapuram Power Ltd. - Environmental clearance reg.**

Sir,

The undersigned is directed to refer to your communication no. SPL/MoEF/KAS/045 dated 22.12.2005 regarding the above-mentioned project. Subsequent information prescribed vide letter no. MOEF/KAS/155 dated 4.4.2006 have also been considered.

2. It is noted that the proposed power plant is a joint venture of M/s KSK Energy Ventures Ltd. and M/s Zuari Cements Ltd and will cater to the power requirement of cement plants of M/s Zuari Cements Ltd. in Andhra Pradesh namely (i) Vishnu Cements at Dondapadu, Nalgonda District and (ii) Zuari Cements Ltd., Yerraguntla, Cuddapah District. The land requirement for the proposed power plant is 12 ha which is already available with the company and no additional land is to be acquired. 100% ash utilization in the cement plant of M/s Vishnu Cements is proposed. The ultimate capacity of this power plant will remain at 43 MW and there will be no further expansion of the power plant at the same site. The power plant will be based on AFBC boilers using coal having an ash content of 37% - 40% and sulphur content of 0.5% as fuel. Coal requirement is 700 TPD and will be sourced from the mines of M/s Mahanadi Coalfields Ltd by rail cum road transport. The distance from coal loading point at mine site to the unloading point at plant site is 971.80 km. Water requirement is 6000 m<sup>3</sup>/day and will be sourced from river Krishna. Budavada

Reserve Forests is at a distance of about 2 km from the site. No forestland, no ecologically sensitive area and, no R&R is involved in the project. Public hearing was held on 06.09.2005 and NOC was issued by the Andhra Pradesh Pollution Control Board on 27.11.2005. The project cost is Rs 167.00 crores including Rs 15.00 crores for environment protection measures.

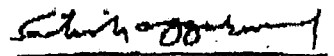
3. On the basis of the information submitted and after its consideration by the Expert Committee for Thermal Power Projects, environmental clearance is hereby accorded to the above-mentioned project subject to implementation of the following conditions and environmental safeguards:-

- (i) The conditions stipulated by Andhra Pradesh Pollution Control Board vide their letter no. 182/PCB/CFE/HO/RO-NLG/2005 dated 27.11.2005 shall be strictly implemented.
- (ii) Land requirement for the project shall be restricted to 12.00 ha, which is in possession of the project authorities. No additional land shall be acquired for the project.
- (iii) A bi-flue stack of 80 m height with exit velocity of not less than 15 m/sec shall be provided with continuous On-line monitoring system. The data collected shall be analyzed and submitted regularly to the Ministry.
- (iv) Electrostatic Precipitators (ESPs) with 99.9% efficiency shall be installed to limit particulate emission to 100 mg/Nm<sup>3</sup>. The stack shall be fitted with inter locking system to shut down the plant in the event of non-functioning of ESPs.
- (v) Dust extraction and suppression system and water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable areas of the plant.
- (vi) Water requirement of 6000 m<sup>3</sup>/day shall be met from the Krishna River. No groundwater shall be extracted for the power plant at any stage.
- (vii) Closed Cycle Cooling system with cooling towers shall be provided. COC of 5 shall be adopted.
- (viii) The treated effluents having TDS within 1950 mg/l shall be used for dust suppression and green belt development by the cement plant of M/s Vishnu Cements Ltd. There shall be no waste water discharge outside the plant boundary.
- (ix) Rainwater harvesting shall be adopted in consultation with Central Ground Water Authority/ Board and details furnished to this ministry within a period of three months from the date of clearance.

- (x) Noise level shall be limited to 75 dBA and regular maintenance of equipments shall be undertaken. For people working in high noise areas, earplugs shall be provided.
- (xi) Dry ash collection system and pneumatic conveying system of dry ash through closed pipelines shall be provided. Transportation of ash to cement plants and coal also, if by road shall be in covered trucks/Bouzers. 100% ash utilisation shall be ensured.
- (xii) On-site Disaster Management Plan shall be prepared and implemented. Regular mock drills shall be conducted and training programmes for the employees to handle hazardous chemicals and waste and to deal with the emergency shall be conducted. Safety alarms shall be installed at strategic points including main gate, assembly points, first aid centre etc.
- (xiii) A greenbelt of 25 m width shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be 1/3<sup>rd</sup> of the total area.
- (xiv) First aid and sanitation arrangements shall be made available for the truck drivers and temporary staff engaged in the plant.
- (xv) Copies of coal linkage and stack height clearance from Airport Authority of India shall be submitted within 30 days from the issue of this letter.
- (xvi) Regular monitoring of the air and water quality shall be carried out in and around the power plant and records shall be maintained. The monitoring stations shall be decided in consultation with the State Pollution Control Board. Six monthly monitoring report shall be submitted to this Ministry and its Regional Office at Bangalore.
- (xvii) A separate environment management cell with qualified staff shall 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 shall be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- (xix) Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. Complete set of 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 shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be

Included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.

- (xi) Full cooperation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry at Bangalore /the CPCB/the SPCB who would be monitoring the compliance of environmental status.
- (xii) The project proponent shall advertise at least in 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 letter 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>
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, if the project authorities fail to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.
6. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry.
7. The above stipulations shall be enforced along with others as 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 the Environment Impact Assessment Notification of January, 1994 and their subsequent amendments.

  
( S.K. AGGARWAL )  
DIRECTOR