

By Speed Post

No. J-13012/17/2009-IA.II(T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110003.

Dated: 20th July, 2009

To
✓ M/s Karnataka Power Corporation Ltd.
✓ Office of the Chief Engineer (I&TA)
"Sudarshan Complex", 2nd Floor
No. 22/23, Sheshadri Road
Bangalore- 560 009.

Office of the CE(EI&TA) KPC Ltd., Bangalore-560 001		
Inw. No.:		
Date: 30 JUL 2009		
OM	EE	CE
<i>[Signature]</i>		

Sub: 2x800 MW Coal based TPS near Godhna village, Chattisgarh by M/s
KPCL- Prescribing of TOR Regarding.

Sir,

The undersigned is directed to refer to your communication no. CE(EI&TA)/Godhna dated 27.3.2009 regarding the subject mentioned above. Subsequent information furnished vide letter dated 10.6.2009 has been considered.

2. The proposal is for setting up of a 2x800 MW Coal based TPS near Godhna village, Chattisgarh by M/s KPCL. The project will be based on super critical technology. Coordinates of the project site are Latitude 21° 49' 15.83" N; Longitude 82° 35' 30.80" E. Land requirement is 1260 acres. No forest land is involved. No ecologically sensitive area is within a radius of 15 km from project site. Water requirement is 7210 M³/hr and will be sourced from Mahanadi river. Coal requirement is 10.2 MTPA and source of coal will be Mand Raigarh & Corba Coal Fields. 500 families will be affected due the project.

3. The Expert Appraisal Committee for environmental appraisal of Thermal Power and Coal Mine projects considered the project during its meeting held on June 9-10, 2009. Based on the consideration of the documents submitted and the presentation made by the project proponent, the Committee prescribed the following Terms of Reference (TORs) for preparing draft EIA report for the above mentioned project:-

- (i) Details of the study undertaken by BHEL for transport of heavy machinery from sea to the project site should be provided.
- (ii) Comparison of alternate sites considered and the reasons for selecting the proposed site. Conformity of the site with the prescribed guidelines in terms of distance of 500 m from HFL of the river, highways, railway line should also be shown.
- (iii) To provide all corners coordinate of the plant site as well as ash pond with topo sheet.

- (iv) The study area should cover an area of 10 km radius around the proposed site.
- (v) Land use of the study area as well as the project area shall be given.
- (vi) Location of any National Park, Sanctuary, Elephant / Tiger Reserve (existing as well as proposed), migratory routes, if any, within 15 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden.
- (vii) Land requirement for the project to be optimized. Item wise break up of land requirement and its availability to be furnished. The norms prescribed by CEA should be kept in view. It should also include land to be acquired, if any, for coal transportation system as well as for laying of pipeline including ROW. It may clearly be confirmed that the land including ROW is free of all encumbrances. The issues relating to land acquisition and R&R should be clearly discussed in the EIA report.
- (viii) Topography of the area should be given clearly indicating whether the site requires any filling. If so, details of filling, quantity of fill material required, its source, transportation etc. should be given.
- (ix) Impact on drainage of the area and the surroundings.
- (x) Information regarding surface hydrology and water regime and impact of the same, if any due to the project.
- (xi) One season site-specific meteorological data shall be provided.
- (xii) One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall include SPM, RSPM, SO₂, NO_x, Hg and Ozone (ground level). The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- (xiii) Impact of the project on the AAQ of the area. Details of the model used and the input data used for modelling should also be provided. The air quality contours may be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The wind roses should also be shown on this map.
- (xiv) Fuel analysis to be provided (sulphur, ash content and heavy metals including Pb, Cr, As and Hg). Details of auxillary fuel, if any including its quantity, quality, storage etc should also be given.
- (xv) Quantity of fuel required, its source and transportation. A confirmed fuel linkage should be provided.
- (xvi) Source of water and its availability. Commitment regarding availability of requisite quantity of water from the competent authority.
- (xvii) Details of rainwater harvesting and how it will be used in the plant.

- (xviii) Examine the feasibility of zero discharge. In case of any proposed discharge, its quantity, quality and point of discharge, users downstream etc. should be provided.
- (xix) Optimization of COC for water conservation. Other water conservation measures proposed in the project should also be given. Quantity of water requirement for the project should be optimized.
- (xx) Details of water balance taking into account reuse and re-circulation of effluents.
- (xxi) Details of greenbelt i.e. land with not less than 1500 trees per ha giving details of species, width of plantation, planning schedule etc.
- (xxii) Detailed plan of ash utilization / management.
- (xxiii) Details of evacuation of ash.
- (xxiv) Details regarding ash pond impermeability including soil analysis report and whether it would be lined, if so details of the lining etc.
- (xxv) Detailed R&R plan/compensation package in consonance with the National / State R&R Policy for the project affected people including that due to fuel transportation system/pipeline and their ROW, if any, shall be prepared taking into account the socio economic status of the area, homestead oustees, land oustees, landless laboureres.
- (xxvi) Details of flora and fauna duly authenticated should be provided. In case of any scheduled fauna, conservation plan should be provided.
- (xxvii) Details regarding infrastructure facilities such as sanitation, fuel, restroom, medical facilities, safety during construction phase etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
- (xxviii) Public hearing points raised and commitment of the project proponent on the same. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
- (xxix) Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimension to be given.
- (xxx) Impact of the project on local infrastructure of the area such as road network and whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame.
- (xxxi) EMP to mitigate the adverse impacts due to the project along with item wise cost of its implementation.
- (xxxii) Risk assessment including fire and explosion issues due to storage and use of fuel should be carried out. It should take into account the maximum inventory of storage at site at any point in time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be provided.

(xxxiii) Details of activities with financial allocation to be taken up under CSR should be provided.

(xxxiv) Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.

Besides the above, the following general points will be followed:-

- a) All documents to be properly referenced with index, page numbers and continuous page numbering.
- b) Where data is presented in the report especially in table, the period in which the data was collected and the source should invariably be indicated.
- c) Where the documents provided are in a language other than English, an English translation should be provided.
- d) The Questionnaire for environmental appraisal of thermal power projects as devised earlier by the Ministry shall also be filled and submitted.

In addition to the above, information on the following may also be incorporated in the EIA report.

1. Is the project intended to have CDM-intent?

- (i) If not, then why?
- (ii) If yes, then

- (a) Has PIN (Project Idea Note) {or PCN (Project Concept Note)} submitted to the 'NCA' (National CDM Authority) in the MoEF?
- (b) If not, then by when is that expected?
- (c) Has PDD (Project Design Document) been prepared?
- (d) What is the 'Carbon intensity' from your electricity generation projected (i.e. CO₂ Tons/MWH or Kg/KWH)
- (e) Amount of CO₂ in Tons/year expected to be reduced from the baseline data available on the CEA's web-site (www.cea.nic.in)

2. Notwithstanding 1(i) above, data on (d) & (e) above to be worked out and reported.

After preparing the draft EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure, prescribed under the EIA Notification, 2006.


(LALIT KAPUR)
DIRECTOR

Copy to:-

1. The Secretary, Environment & Forests, Government of Karnataka, Bangalore.
2. The Chairman, Karnataka Pollution Control Board, 49, Parisara Bhavan, 4th & 5th Floor, Church street, Bangalore-580 001.
3. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office(SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, II-Block, Koramangla, Bangalore-560034.
4. Guard File

(Signature)
 (LALIT KAPUR)
 DIRECTOR

The assigned is directed to refer to the information re
 C/P/2004 dated 27.3.2004 regarding the subject mentioned above.
 Information furnished vide letter dated 14.5.2004 has been considered.

The proposal for setting up of a 2000 MW Coal based TPS near Godda
 Jharkhand, Jharkhand by M/s KPCI. The project will be based on super critical
 technology. Coordinates of the project site are latitude 21° 49' 10.00" N Longitude
 85° 50' 00" E. Land requirement is 1000 acres. No protected area is involved. No
 sensitive area is within a radius of 10 km from project site. Water
 requirement is 10.2 MTPA and source of coal will be Mand Ragbarh & Orissa Coal
 fields. All families will be affected due the project.

The Expert Appraisal Committee for environmental appraisal of Thermal
 Power and Coal Mine projects considered the project during its meeting held on
 14.05.2004. Based on the examination of the documents submitted and the
 information made by the project proponent, the Committee proposed the following
 terms of Reference (TOR) for preparing draft EIA report for the above mentioned
 project.

Details of the study undertaken by GHFL for transport of heavy machinery
 from sea to the project site should be provided.
 Comparison of alternate sites considered and the reasons for selecting the
 proposed site. Conformity of the site with the environmental norms
 within a distance of 500 m from HPL of the near by railway line
 should also be shown.
 To provide all -domine coordinates of the project site as well as map of the
 project area.