



STATE EXPERT APPRAISAL COMMITTEE, PUNJAB
MINISTRY OF ENVIRONMENT AND FORESTS, GOVERNMENT OF INDIA

O/O PUNJAB POLLUTION CONTROL BOARD,
VATAVARAN BHAWAN, NABHA ROAD,
PATIALA – 147 001
Telefax:- 0175-2215802

No. SEAC/160/26223

Dated 7/8/2009

Speed Post

To

M/s Saraya Industries Ltd.
309, D-2, Southern Park,
Saket Place, New Delhi.

Sub: Application for grant of environmental clearance for establishment of 12 MW Bagasse based co-generation power plant to be set-up at M/s The Nawanshahar Co-operative Sugar Mills Ltd. (NCSML), at Nawanshahar by M/s Saraya Industries Ltd.

This has reference to your application for grant of environmental clearance for 12 MW Bagasse based co-generation power plant to be set-up in the premises of M/s The Nawanshahar Co-operative Sugar Mills Ltd., at Nawanshahar. The case was discussed in the 25th meeting of State Expert Appraisal Committee held on 18/7/2009.

After detailed deliberations on the presentation and discussions, it was decided to categorise the project into B1 category and that the project proponent should submit an Environment Impact Assessment Study Report. Therefore, the Committee approved the following Terms of Reference for Environmental Impact Assessment Study of the proposed project:-

1. All the coordinates of the plant site should be provided with toposheet.
2. The study area should cover an area of 10 km. radius around the proposed site.
3. Land use of the study area as well as the project area shall be given.

4. Location of any National Park, Sanctuary, Elephant / Tiger Reserve (existing as well as proposed), eco-sensitive area, interstate boundary, migratory routes, if any, within 10 km. of the project site shall be specified and marked on the map.
5. Land requirement for the project to be optimized. Item wise break up of land requirement and its availability to be furnished.
6. 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.
7. Impact on drainage of the area and the surrounding.
8. Information regarding surface hydrology and water regime and impact on the same, if any, due to the project.
9. Sustainability study for groundwater in the existing tubewells and quality of groundwater as per drinking water standards should be provided.
10. One season site-specific meteorological data shall be provided.
11. One complete season Ambient Air Quality (AAQ) data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall include SPM, SO₂ and NO_x. Monitoring shall be carried out for at least 8 different locations all around the project within 10 km. radius. 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.
12. Impact of the project on the AAQ of the area, details of the model used and the input data used for modeling 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.
13. Analysis of each fuel including the fusion temperature of ash, from more than one source alongwith report be provided.

14. Reassessment of quantity of each fuel required, its source, collection, pre-conversion and mode of transportation.
15. Process flow sheet diagram indicating the material and energy balance data on one day basis.
16. Source of water and its availability.
17. Details of rainwater harvesting and how it will be used in the plant.
18. Re-circulation and reuse of treated effluents within the plant. In case of any proposed discharge, its quantity, quality and point of discharge, users downstream etc. should be provided.
19. Water conservation measures proposed in the project should be given.
20. Details of water balance taking into account the reuse and re-circulation of effluents.
21. Details of green belt i.e. land with not less than 1000 trees per hectare giving details of species, width of plantation, planning schedule etc.
22. Assessment of ash generation and details of ash utilisation / management plan and earmark land for proper disposal of fuel ash / fly ash.
23. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
24. Public hearing points to be 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.
25. Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimensions to be given.
26. 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.
27. Environment Management Plan (EMP) to mitigate the adverse impacts due to the project along with itemwise cost of its implementation.

28. Risk assessment to be undertaken. Based on the same, proposed safeguard measures should be provided.
29. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
30. A detailed environmental protection budget would also be presented and earmarked.
31. The source of getting secondary data, wherever applicable, should be intimated alongwith its reference.
32. Generic structure of Environment Impact Assessment Document, given in Appendix III of EIA Notification 2006 shall be followed in preparation of Rapid Environmental Impact Assessment report.
33. Besides the above, the following general points / guidelines will also be followed:
 - a) All documents to be properly referenced with index, page numbers and continuous page numbering. A uniform SI system of units to be used while reporting data.
 - 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.

Besides the above, the following general points / guidelines will also be followed:

- a) All documents to be properly referenced with index, page numbers and continuous page numbering. A uniform system of units to be used while reporting data.
- 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) The questionnaire for environmental appraisal of thermal power project as devised earlier by the Ministry of Environment & Forests shall also be filled and submitted.

- d) The list of abbreviations used in preparing the report should be given in a separate index.
- e) SI system of units should be followed, while reporting any data.

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 Ministry of Environment & Forests?
 - 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.

The industry should prepare draft rapid EIA / EMP Report for its project based on above Terms of Reference and apply to the Chairman, Punjab Pollution Control Board for conducting public hearing as per the provisions of EIA Notification, 2006 on submitting EIA / EMP prepared by the industry as per TORs.

After completing the process of public hearing / public consultation, the industry should submit final EIA / EMP Report to the State Expert Appraisal Committee after incorporating all the issues raised during public hearing / public consultation for Appraisal of its project.

(Malvinder Singh)

Secretary (SEAC)

Endst. No. _____

Dated _____

A copy of the above is forwarded to the following for information and necessary action :-

1. The Secretary to Govt. of India, Ministry of Environment & Forests, Govt. of India, CGO Complex, Lodhi Road, New Delhi.
2. The Director, Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh.
3. The Member Secretary, State Environment Impact Assessment Authority, O/o Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
5. The Senior Environmental Engineer (Computer), Punjab Pollution Control Board, Head Office, Patiala. He is requested to display the approved Terms of Reference given to the industry on the website of State Environment Impact Assessment Authority.

(Malvinder Singh)
Secretary (SEAC)