

Government of Maharashtra

No. SEAC 08/CF 46/TC 2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Dated 8th July, 2009

To,
Purna Sahkari Sakhar Karkhana Ltd.
Basmathnagar, Dist - Hingoli.
PIN - 431512
Maharashtra,

Sub : 18 MW Bagasse based Cogeneration Project at Purna Sahkari Sakhar Karkhana Ltd, Basmathnagar, Dist - Hingoli - Environmental clearance regarding.

Sir
This has reference to your communication no. Nil dated 24th July, 2008 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee in its 8th meeting & recommended for prior Environment Clearance to State Level Environment Impact Assessment Authority (SEIAA) subject to submission of additional information on the points raised by SEAC. Subsequent information submitted by you, vide letter dated 24 March, 2009 has also been considered by State Level Environment Impact Assessment Authority in its 10th meeting.

2. It is noted that the proposal is for grant of environmental clearance for 18 MW Bagasse based Cogeneration Project at Purna Sahkari Sakhar Karkhana Ltd, Basmathnagar, Dist - Hingoli

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as bellow-

Name of the Project: 18 MW Bagasse based Cogeneration Power Plant

Project Proponent: Purna Sahkari Sakhar Karkhana Ltd,

Location of the project: Basmathnagar, Dist - Hingoli, Maharashtra.

Latitude: 19^o17'03.26"N. Longitude: 77^o08'18.07" E

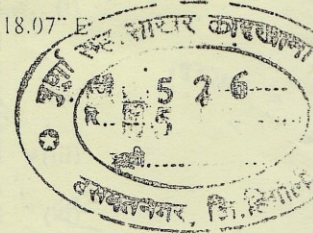
Type of Project: Power project

Total Plot Area: 13 Acers

Estimated cost of the project: Rs. 78.18 Cr.

Water Requirement: 322 cu m/day from Water Resources department.

Effluent generated: Effluent generated will be 60 m³/day, which will be neutralized and settled in a neutralizing pit. The neutralized effluent will be utilized for ash quenching & gardening. And sewage generation from co-gen plant will be sent to existing sugar ETP.



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Capacity ETP: 600 cu m/day. The neutralized effluent will be utilized for ash quenching & gardening of the green belt.

Raw material: Raw material used will be-Bagasse (ash 1.5%) during the season & saved Bagasse, biomass (Soya husk) & coal during off season

Requirement-Bagasse 36.0 TPH during the Season and 5.9 TPH during off season.

Off season fuel requirement- 27.9 TPH (93744 MT)

Saved Bagasse/Biomass required during off season-72107 MT

Coal 13.60TPH (22426 MT)

Power Requirement: During construction phase: 120 KW,

Green Belt Development: 17360.88 Sq. m. Trees to be planted 157 Nos.

Solid Waste:

During season: Dry Fly Ash-0.42 TPH, Wet Bottom ash from grate - 0.28 TPH

During off season: Dry Fly Ash-2.25 TPH, Wet Bottom ash from grate - 1.5 TPH

The bottom ash & fly ash produced by co-generation plant will be transported by covered vehicle for final disposal to brick manufacturing units and cement industries.

Air Pollution Control: Major source of air pollution from the PSSKL manufacturing process is dust particulate from fly ash. Apart from that NOx, Sox, in the flue gases are also present. To manage such pollution in accordance with CPCB/MPCB guidelines project management will provide-

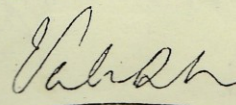
Stack: Stack Height: 70 m

Electrostatic precipitator to contain dust emission: 50 mg/Nm³

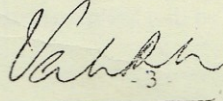
Fugitive dust emission due to transportation activities will be controlled by water sprinkling.

3. The proposal has been considered by SEIAA in its 10th meeting dated on 26th June, 2009 & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

- (i) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (ii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (iii) No fuel other than mentioned above with said contents shall be used without obtaining proper permission.
- (iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (v) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB), & submit report accordingly to MPCB.
- (vi) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

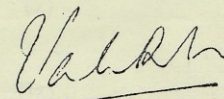


- (vii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
 - (viii) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
 - (ix) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
 - (x) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
 - (xi) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
 - (xii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
 - (xiii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
 - (xiv) The coal will be transported through closed containers.
 - (xv) Proper coal handling, transportation and handling system should be as per plan approved by MPCB.
 - (xvi) Separate silos will be provided for collecting and storing bottom ash and fly ash.
 - (xvii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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 should reported to the MPCE & this department
 - (xviii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envis.maharashtra.gov.in>
 - (xix) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason. Circulars, orders issued by MoEF stipulating conditions for issuing EC letters will be applicable for this project.
 5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.
 6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to



assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations would 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 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.



(Valsa R Nair Singh)
Secretary, Environment
department & MS, SEIAA

Copy to :

1. Shri. Ashok Pasak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal-462 016). (MP).
6. Regional Office, MPCB, Nagpur.
7. Collector, Hingoli.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy Secretary(TC-2), Scientist-1, Environment department
10. Select file (TC-3).