

Department of Environment
Government of West Bengal
Block G, 2nd Floor, Writers Building
Kolkata :700001

No. EN/1416 /T-II-1/042/2011

Date: 18 / 06 /2012

To
M/s. ITC Limited.
Paperboards & Special Papers
Unit : Tribeni, P.O. Chandhahati
Dist. Hooghly, Pin- 712504

Subject : Environmental Clearance for the proposed expansion of Paper making capacity by 27500 TPA along with setting up of 1x12 MW Fluidized Bed Coal fired Captive Power Plant by M/s. ITC Limited at JL No. 25, Mouza – Madhusudanpur, PO – Chandrahati, PS – Mogra, Dist – Hooghly, PIN – 712 504, West Bengal.

Sir,

This has a reference to your application dated 29/09/2011 and subsequent communications for Environmental Clearance for the proposed expansion of Paper making capacity by 27500 TPA along with setting up of 1x12 MW Fluidized Bed Coal fired Captive Power Plant by M/s. ITC Limited at JL No. 25, Mouza – Madhusudanpur, PO – Chandrahati, PS – Mogra, Dist – Hooghly, PIN – 712 504, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, of 2006. It is noted that the proposal is for expansion of the existing paper plant by 27,500 TPA and modernisation of the existing 9.9 MW Coal based Captive Power Plant through installation of new 12.0 MW CPP with coal based AFBC boiler (1x72 TPH) and Turbo generator (1x12 MW Cogen). The proponent has stated that at present there are two nos. Coal fired boilers and turbines. The total steam generating capacity of the existing boilers is 65 TPH. One boiler (1x30 TPH) and one turbine (1x4.5 MW) will be phased out. One existing boiler (1x35 TPH) and one turbine (1x5.4 MW Cogen) will be kept as standby, as proposed. The existing paper plant capacity is 33500 TPA.

It is noted that the salient features of the project, for which Environmental clearance has been considered are as follows :

- i. Location of the Site - JI. No. - 25, Mouza – Madhusudanpur, PO – Chandrahati, PS – Magra, Dist. - Hooghly, Pin – 712504, West Bengal.
- ii. Total land area – 26.31 acres. Land requirement for Paper Plant – 1.78 acres within existing plant. Additional Land requirement for CPP – 1.08 acres, extension of existing plant boundary.
- iii. Proposed installation - AFBC Boilers (1x72 tonnes per hour) along with Steam Turbo Generator (1x12 MW Cogen) and other auxiliaries, additional paper making machine of capacity -27500 TPA
- iv. Raw Materials – Coal (450 tonnes per day), hard wood pulp-20000 tonnes per annum, soft wood pulp-2000 TPA, chemicals-15000 tonnes per annum
- v. Emission Control System - One no. 4-field ESP with adequate Specific Collection area will be installed along with stack of height 67 m from GL. Emission standard of 50 mg/Nm³ to be complied with. As proposed, provision shall be kept for retrofitting FGD system, if required in future.
- vi. Total Fresh Water Requirement – 4750 kLD (Paper Plant – 3500 kLD & Power Plant – 1250 kLD), from existing bore wells.
- vii. Effluent – 300 kLD from TPP and 3500 kLD effluent will be generated from new paper machine and to be treated in existing CETP.



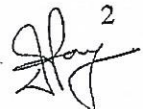
Conditions for Environmental Clearance for the proposed expansion of Paper making capacity by 27500 TPA along with setting up of 1x12 MW Fluidized Bed Coal fired Captive Power Plant by M/s. ITC Limited at JL No. 25, Mouza - Madhusudanpur, PO - Chandrahati, PS - Mogra, Dist - Hooghly, PIN - 712 504, West Bengal.

- viii. Solid waste - 252 tonnes per day of Flyash (80%) and Bottomash (20%) will be generated. Flyash to be used in Brick manufacturing, Cement plants etc. in accordance with the Flyash utilisation notification dated 03.11.2009 and Bottomash will be used for road construction. Additional sludge (3 tonnes per day) generated from CETP sold to the authorised users for the manufacture of board.

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused the recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions from various process units should conform to the load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- ii. Boiler (1x72 TPH) should be provided with 4-field ESP with adequate Specific Collection area along with stack of height 67 m from GL as proposed. Stack emission (PM) should not exceed 50 mg/Nm³. Stack emissions should be monitored at regular intervals and records should be maintained.
- iii. To control particulate emissions, dust suppression measures will be implemented in coal handling plant and stock yards. The closed conveyor belt will be installed to prevent dust emission and asphaltting of the roads would be done within the plant area. Dust extraction system will be provided at transfer points of conveyor system. Adequate stack height would be provided for wider dispersion of gaseous emissions and regular stack monitoring would be done as per CPCB guidelines.
- iv. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.
- v. Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission.
- vi. Groundwater shall not be abstracted without prior permission of competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
- vii. In case of treatment process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- viii. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.
- ix. As proposed, rain water should be stored in existing pond so as to use the stored water for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
- x. Waste water generated from the expansion project both paper making section and thermal power plant should be treated in existing common effluent treatment plant. As proposed, treated waste water shall be used in non-production area and surplus water shall be discharged outside the plant premises for agricultural use.
- xi. Continuous and regular monitoring of CETP should be carried out and monitoring report to be submitted in WBPCB's regional office.
- xii. Regular monitoring of Ground water quality near the areas where effluent is used for irrigation as well as upstream and downstream water quality assessment where part of process effluent is discharged should

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be carried out.

- xiii. The ash generated from the plant shall be disposed of in accordance with the provisions of the Fly Ash Notification, 2009.
- xiv. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.
- xv. Green belt shall be developed within and around the plant premises in consultation with DFO / West Bengal Wasteland Development Corporation Ltd/ West Bengal Biodiversity Board. As proposed, at least 33% of the land area should be covered by plantation. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority. As proposed approx. 3000 nos. of sapling to be planted.
- xvi. All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper house keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.
- xvii. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xviii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xix. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xx. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. Atleast 5% of the project cost should be utilised for Corporate Social Responsibility programmes.

B. GENERAL CONDITIONS :

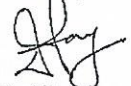
- i. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project.
- ii. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- iv. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- v. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.

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- vi. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- vii. No further expansion or modifications in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- viii. The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal.
- ix. The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the SEIAA, West Bengal (<http://enviswb.gov.in>). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- xi. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
- xii. The above stipulations would be enforced along with those 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 Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2009, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xiii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector shall be strictly implemented.
- xiv. All the commitments made to the public during the Public Hearing / public consultation meeting held on 27.03.2012 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the West Bengal Pollution Control Board.
- xv. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.

Yours faithfully,



(Debal Ray)

Member Secretary, SEIAA &
Chief Environment Officer