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	DELHI POLLUTION CONTROL COMMITTEE DEPARTMENT OF ENVIRONMENT, GOVT. OF DELHI 4th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-6 visit us at : http://dpcc.delhigovt.nic.in
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F.No. DPCC/MS/SEIAA-SEAC/09

Dated:

To

**M/S North Delhi Power Ltd. (NDPL)
Grid Substation Building,
Hudson Lines Kingsway Camp
Delhi-110009**

Sub: Construction of 108 MW Combined Cycle Power Plant at Sector-11, Rohini, Delhi by M/S North Delhi Power Ltd. (NDPL) - Environmental Clearance – Regd.

This has reference to communication dated 08.01.2008, 23.07.2008, 15.07.2008 and 15.08.2008, made to Ministry of Environment and Forests followed by subsequent letters dated 08.01.2008, 09.01.2009, 19.01.2009, 27.01.2009, 30.01.2009 and 20.03.2009 to State Environment Impact Assessment Authority, NCT-Delhi, constituted vide GOI notification no. S.O. 1888(E) dated 30.07.2008, seeking prior Environmental Clearance for the above project under EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under EIA Notification, 2006 on the basis of mandatory documents enclosed with the application along with the additional clarifications furnished in response to the observations of State Expert Appraisal Committee constituted by Competent Authority in its meetings held on 29.12.2008, 30.01.2009, 20.02.2009 and 20.03.2009.

2. It is interalia noted that the proposal is for the grant of Environmental Clearance for setting up of 108 MW Natural Gas based Combined Cycle Power Plant (CCPP) at Sector 11, Rithala Road, Rohini, Delhi. The land requirement for the proposed plant is 24,281 sq mt, which is already a part of CENPEID, NDPL, Training Complex. Public hearing for said project was conducted on 22.08.2008. The total water requirement is 8400 KLD, which will be met from Rithala STP. Gas requirement for the project will be 0.64 MMSCMD, which will be supplied by IRL through GAIL-HBJ pipeline from Ankot to Dadri to Bawana and then to project site. Total Cost of the project is Rs. 256.48 Crore.

3. The State Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, has recommended this project to State Environmental Impact Assessment Authority (SEIAA) for grant of Environmental Clearance. Accordingly, SEIAA hereby accords necessary Environmental Clearance for the above project as per provisions of Environment Impact Assessment Notification, 2006 and its subsequent amendments, subject to compliance of the terms and conditions as follows:

PART A- SPECIFIC CONDITIONS

I. Construction Phase

- (i) Consent to Establish shall be obtained from Delhi Pollution Control Committee under Air and Water Act and a copy shall be submitted to the SEAC- NCT Delhi before any construction work at site.
- (ii) No additional land other than 24,281 sq mt shall be acquired for any utilities/activities of the proposed project.
- (iii) A first aid room to be provided in the project both during construction and operation phase.
- (iv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. the housing may be in the form of temporary structures to be removed after completion of the project.
- (v) All top soil excavated during construction activities should be stored for horticulture/landscape development within site.
- (vi) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (vii) Soil and water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (viii) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (ix) Any hazardous waste generated during construction and operation phase should be disposed off as per applicable rules and norms with necessary approvals to the Delhi Pollution Control Committee.
- (x) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment Protection Rules prescribed for air and noise emission standards.

- (xi) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- (xii) Regular sprinkling of water should be ensured to avoid fugitive dust emissions
- (xiii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours. The material loaded or unloaded should be covered (especially excavated soil) before transportation to avoid fugitive emissions etc.
- (xiv) Ambient noise levels should conform to residential standards both during day and night. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated by CPCB/DPCC.
- (xv) No additional borewell other than the existing one to be utilized at the project site. Ground water drawl is subject to CGWA/DJB permission.
- (xvi) Approval of competent authority shall be obtained for structural safety of the building due to earthquake, adequacy for fire fighting equipments etc as per national Building Code including protection measures from lightening etc.
- (xvii) Laying out of Gas pipeline by GAIL is subject to Obtaining of Environmental Clearance.
- (xviii) Internal road modification including road geometry with a view for widening of access road to the site.
- (xix) Closed cycle cooling system with natural draft cooling towers shall be provided.
- (xx) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to all surroundings.
- (xxi) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that setting up of the said power plant has been started without obtaining environmental clearance.

II. Operation Phase

- (i) The unit shall take Consent for Operation before starting operation, failing which this clearance shall be deemed to be withdrawn.
- (ii) No fuel other than natural gas shall be used.
- (iii) No storage of gas to be allowed within the project site. Gas metering during operation is subject to no risk associated with it.
- (iv) Dry Low NO_x burners shall be provided and it shall be ensured that NO_x emissions from individual stack are less than 60 ppm.

- (v) Continuous monitoring of NO_x levels should be done during operation of the plant and data to be submitted to Delhi Pollution Control Board once in every three months.
- (vi) Necessary permission from Chief Controller of Explosives shall be obtained before commissioning of the plant and a copy of same should be submitted to this Authority.
- (vii) Submission of Boiler inspector Clearance Certificate to this Authority. There should be regular inspection and monitoring of boiler conditions as per norms.
- (viii) The height of the stack(s) shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 32m/sec.
- (ix) Treated effluent emanating from ETP shall be recycled/reused to the maximum extent possible. Discharge of unused treated effluent shall have TDS concentration of around 1000 ppm apart from conforming to the norms and standards of Central Pollution Control Board.
- (x) The ground water drawl should be subject to DJB. The ground water level and its quality should also be monitored regularly in consultation with DJB. The results shall be regularly submitted to DPCC.
- (xi) Rain water harvesting shall be practiced. Central Ground Water Authority shall be consulted for preparation of a detailed rainwater harvesting scheme for ground water recharge within a period of three months from the date of clearance. A copy of the same shall be submitted to this authority.
- (xii) 30% of the total project area should be earmarked for green belt, which should be 5 to 10 m wide with 2-3 rows of tall trees with thick canopy so as to provide protection against particulates and noise. Green belt should also be developed between power plant and existing residential colony.
- (xiii) Noise levels should be controlled and regularly monitored to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the plant shall be restricted to the permissible levels to comply with the prevalent regulations. For people working in high noise area, requisite personal protective equipment like ear plugs etc shall be provided.
- (xiv) Regular monitoring of the air quality, including HC levels both in work zone and ambient air should also be carried out in and around power plant during operation. Complete analysis of recorded data should be undertaken and results shall be submitted to DPCC every six months.
- (xv) Adequate safety measures shall be provided to limit the risk zone within plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xvi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

- (xvii) Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided.
- (xviii) Energy Conservation measures such as solar lighting for common area, solar water heating system, CFLs/TFLs for lighting of areas, LED lights for signage, on the etc should be adopted. Used CFLs/TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

PART B- GENERAL CONDITIONS

- (i) The environment safeguards contained in the EMP should be implemented in letter and spirit.
- (ii) Officials from Delhi Pollution Control Committee, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data on site by the project proponents during their site inspection. A complete set of all the documents submitted to SEAC should be forwarded to DPCC. Six monthly monitoring reports should also be submitted to DPCC.
- (iii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEAC.
- (iv) The project authorities shall inform the Authority as well as DPCC regarding financial closure and final approval of the project by the concerned authorities and the dates of start of land development and commissioning of work.
- (v) Separate funds should be allocated for implementation of environmental protection measures along with item-wise breakup. This cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Authority.
- (vi) State Environmental Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including the revoking of the environmental 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.
- (vii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department etc shall be obtained, as applicable by project proponents from the respective competent authorities.
- (viii) The project proponent should advertise in at least two local Newspapers widely circulated in the region informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the DPCC and may also be seen on the

website of DPCC at <http://www.dpcc.delhigovt@nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter.

- (ix) These stipulations would be enforced among others under the provisions of Water (Prevention and Control) Pollution Act, 1974, the Air (Prevention and Control) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- (x) Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website. Criteria pollutant levels (stack & ambient levels of NOx) will be displayed at the main gate of the gas based Power Plant or at any other convenient location for information of public and employees.
- (xi) An appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

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Dr A. K. Ambasht
Member Secretary (SEIAA)

Copy to:

1. The Secretary, Department of Environment, Government of NCT Delhi, Secretariat Building, 6th Level, C-Wing, I.P.Estate, New Delhi.
2. Sh. Jagdish Sagar, IAS (Retd.), Chairman, State Level Environment Impact Assessment Authority, B-401, SPS Residency, Vaibhav Khand, Indira Puram, Ghaziabad, UP.
3. Director, Impact Assessment – Division, MOEF, New Delhi

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Dr A. K. Ambasht
Member Secretary (SEIAA)