



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ

ਜੈਨਲ ਦਫਤਰ-2, ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ

ਫੋਨ (ਦਫਤਰ) 0175 - 2306222

ਫੈਕਸ 0175 - 2306222

ਨੰਬਰ 6475

ਮਿਤੀ 20/9/2010

REGISTERED

To

M/s Nabha Power Ltd.,
SCO-32, Sector 26 D, Madhya Marg,
Chandigarh.

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| Name of the Joint General Manager | : Sh. J.S. Gill |
| Scale of the industry | : Large |
| NOC fee details | : Rs. 20,00,000/- R.No. 51/2805 dt. 14/7/2010 |

Subject: "No Objection Certificate" from Pollution Angle.

No.ZO-II/PTA/2010/NOC/09

Dated 20/09/2010

Reference your application regarding the subject cited matter received through the Environmental Engineer, Regional Office, Patiala.

The Punjab Pollution Control Board has "No Objection" for establishment of a thermal power plant of capacity 1400 MW (2 units of 700 MW capacity each) at Village Nalash, Tehsil Rajpura, Distt. Patiala subject to the following conditions.

1. The NOC is valid only for registration of application and issue of demand notice for electric connection by Punjab State Power Corporation Ltd. / Water supply connection / loans etc. However, the industry shall obtain a clearance certificate from the Board to the effect that it has installed proper and adequate pollution control equipments for the purposes of release of electric connection by Punjab State Power Corporation Ltd., and drawing the last installment of loan from financial institutions.
2. This NOC is valid for period of one year from the date of its issue or till the commissioning of the industry, whichever is earlier.
3. The industry shall apply for consents of the Board as required under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 two months before the commissioning of the industry.
4. The industry shall provide adequate arrangements for fighting the accidental leakages / discharge of any air pollutant / gas / liquids from the vessels, mechanical equipments etc. which are likely to cause environmental pollution.
5. The industry shall comply with any other conditions laid down or directions issued by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 from time to time.
6. Nothing in this N.O.C. shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities or penalties to which the applicant is or may be subjected to, under the provisions of the Water/Air Acts respectively.
7. The industry shall plant a green belt of adequate width and density around the plant periphery covering about 1/3 of the project area preferably with local species.

8. The industry shall dispose off the treated trade as well as domestic effluent on land for irrigation/plantation purposes inside the industrial premises and shall not allow it to stagnate anywhere inside or outside of its premises.
9. The industry shall not irrigate the vegetable crops with treated effluents which are used/consumed as raw.
10. The industry shall construct a pucca storage tank of sufficient capacity to hold back the effluent in case of failure of effluent treatment plant / Re-circulation system and also for no demand period.
11. The industry shall ensure that the effluent discharged by it is toxicity free.
12. The industry shall provide terminal manhole at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
13. All the under ground water retaining structures shall be lined with an impervious layer so as to avoid seepage and contamination of sub-soil/water.
14. The industry shall, for the purpose of measuring and recording of quantity of water consumed, affix meters of such standards at such places as approved by the Environmental Engineer, Pollution Control Board, Regional Office, Patiala.
15. The entire cooling water used by the industry shall be re-circulated and the recirculation system shall be installed and commissioned simultaneously alongwith the main project.
16. The industry shall install air pollution control devices and effluent treatment plant simultaneously alongwith main project so as to contain the conc. of pollutants within the standards laid down by the Board.
17. The industry shall not discharge any fugitive emissions/odour. All gases shall be emitted through a stack of suitable height/as per the norms fixed by the Board from time to time.
18. The industry shall keep the height of exhaust pipes with ventilation equipments etc. at least 3 meters above the roof level.
19. The industry shall ensure that the emissions from each stack shall conform to the emission standards laid down by the Board from time to time.
20. The industry shall put up acoustic enclosure (canopy) around its D.G. sets so as to contain the sound pressure level within the standards laid down by the Ministry of Environment & Forests.
21. The industry shall provide port holes and platform (s) and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue, duct or any other outlets.

Specifications of the port-holes shall be as under:-

- i) The sampling ports shall be provided at atleast 8 times chimney diameter down-stream and 2 times upstream from any flow disturbance. For a rectangular cross section, the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distances:

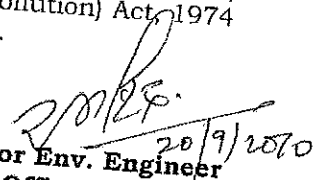
$$De = 2LW / L+W$$

Where L = Length in M, W = Width in mts.

- (ii) The sampling ports shall be 7 to 10 cm. in diameter.

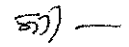
22. The industry shall not consume any fuel other than coal for burning purposes in the boiler furnace and HSD for D.G. sets without the prior written permission of the Board.
23. The industry shall install system for online monitoring of the effluent treatment plant / air pollution control devices.
24. All amendments / revisions made by the Board in the effluent and / or emission / stack height standards shall be applicable to the industry from the date of such amendments / revisions.
25. The industry shall obtain permission from the Competent Authority of the State for meeting water requirement from the canal system.
26. The industry shall ensure that sulphur and ash contents in the coal to be used in the boiler furnace shall not exceed 0.5 % and 34% respectively. The industry shall submit complete composition analysis of the fuel once in a six month every year.
27. A stack of 275 m, height shall be provided with continuous online monitoring equipments for SO_x, NO_x and particulate. Exit velocity of flue gases shall not be less than 25 m/sec.
28. The industry shall install high efficiency electrostatic precipitator (ESP) to ensure that the conc. of particulate matter in the emissions does not exceed 50mg/Nm³.
29. Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100 % utilization of fly ash shall be achieved from day one. Unutilized fly ash in emergency and bottom ash shall be disposed off in the ash pond and bottom ash in conventional slurry mode. Mercury and other heavy metals (Hg, Cr, Pb etc) will be monitored in bottom and fly ash as also in the effluent emanating from the ash pond.
30. The industry shall comply with the conditions imposed in the permission for change of land use issued by the Government vide memo no. 4462-65 CTP(Pb) SP-432 P dated 10/6/2010.
31. The industry will comply with all the conditions imposed in the environmental clearance granted by the Ministry of Environment & Forests vide its letter no. J-13011/44/2008-IA.II(T) dated 3/10/2008 or to be imposed / amended in future.
32. The industry will not install any coal washer within the premises without prior written permission from the concerned departments.
33. The industry will install on-line continuous monitoring system to monitor the stack emissions for various parameter as specified by MoEF.
34. The industry shall use the maximum quantity of the condensate/ cooling water, within the premises for its reuse for various purposes and shall discharge the minimum quantity for plantation/ irrigation.
35. The industry shall develop adequate belt of thick plantation all around the premises to act as a buffer zone.
36. The industry shall ensure that all fly ash/ bottom ash/ coarse ash is used for different purposes as per the notification / guidelines of MoEF.
37. The industry will provide proper acoustic enclosures to all its machinery, generating noise so as to comply with the standards of noise applicable for industrial area.
38. The industry shall not discharge its effluent into any choe, drain or river, directly or indirectly, under any circumstances.

39. The industry shall comply with the conditions imposed in the clearance of site granted to it by the SCA-cum-SAC in its meeting held on 25/8/2010.
40. The Board reserves the right to revoke the consent to establish (NOC) granted to the industry at any time in case the industry is found violating any of the conditions of the consent to establish (NOC) granted under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.


20/9/2010
**For Senior Env. Engineer
Zonal Office-II, Patiala**

Dated _____

Endst. No. _____
A copy of the above is forwarded to the Environmental Engineer,
Punjab Pollution Control Board, Regional Office, Patiala for information &
necessary action.


**For Senior Env. Engineer
Zonal Office-II, Patiala**