ANNEXURE APPCB CONSENT LETTER AND NOC

ANDHRA PRADESH POLLUTION CONTROL BOARD

HUDA Complex, Maitrivanam, IInd Floor, S.R. Nagar, HYDERABAD-500 038.

Phones: Off: General : 291120
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Grams : Kalushya Nivarana

Registered post with ACK due

CONSENT ORDER FOR ESTABLISHMENT

Order.No.19/PCB/C.Estt./RO/VSP/AEE-VIII/95- 4433 Dt. .11.1995

Sub: M/s.Hinduja National Power Corporation Ltd., Visakhapatnam Dist - Consent for Establishment Under Sec.25 of Water (P & C of P) Act,1974 and Under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.

Ref: 1. NOC applied by APSEB vide Lr.No.SE(Plg)/410/cast TPS 2x500 MW/ 48/89, dt.3.3.89.

2. R.O's inspection report vide Lr.No.PCB/ROV/Tech/V-103/577/89, dt.31.8.89.

3. NOC of the Board issued to M/s APSEB vide Lr.No.190/PCB/1697/89-1678, Dt.16.3.90.

4. Lr.from M.S., APSEB addressed to this office for transfer of NOC in favour of HNPCL vide Lr.No.50/IPC/211/ F4(CLR)/D.No.520/95, dt.19.7.95.

5. Your Lr.No.HNPC/Clearance, dt.20.7.95

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I. In the reference 3rd cited, APPCB has issued NO OBJECTION CERTIFICATE (Consent for Establishment) to setup a coast based Thermal Power Plant- 1000 MW (2x500 MW) between Chipurupalle(V) and Visakhapatnam Steel Plant. In the reference 5th cited, you have forwarded the letter addressed by Member Secretary, A.P.S.E.B. requesting this office to transfer the NOC (Consent for Establishment) of the above project in favour of M/s Hinduja National Power Corporation Ltd. (M/s HNPCL).

II. The 2x500 MW coast based Thermal Power Plant is proposed to be located between Chipurupalle(V) and M/s - Visakhapatnam Steel Plant in Visakhapatnam District.

(10 Pages)

III. In view of the above, the CONSENT FOR ESTABLISHMENT of A.P.Pollution Control Board issued for the above project in favour of APSEB vide reference 3rd cited is transferred to M/s Hinduja National Power Corporation Ltd. This order is issued to produce power as mentioned at Para (I).

IV. This order is issued from pollution control point of view only. Zoning and other regulations are not considered. The industry shall obtain necessary clearences from the concerned departments.

V. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A'. These conditions are over and above the conditions stipulated in the reference 3rd cited.

FOR MEMBER SECRETARY

13-4-95

Encl: Schedule 'A'

To

M/s.Hinduja National Power Corporation Ltd.,(HNPCL)
Plot No.974, Road No.50,
Jubilee Hills,
Hyderabad - 500 033.

SCHEDULE-A

1. Trees shall be planted and maintained in the vacant spaces of the premises atleast in an area of 4 times the builtup area of the industry. Tree plantation shall be the first item to be taken up before starting construction. Area of plantation shall be such that it replenishes the amount of oxygen consumed by process operations and consequent release of pollutants into atmosphere.

2. The industry shall recycle the ash pond and D.M.plant effluents.

3. The industry shall treat the cooling waste waters to the marine coastal standards and the domestic waste waters to the onland for irrigation standards stipulated under Environmental (Protection) Rules,1986 as amended upto date, notified under Environment (Protection) Act, 1986 by Ministry of Environment and Forest, Govt. of India.

4. The run-off water from coal yard shall be treated to onland for irrigation standards before final disposal.

5. The industry shall discharge the cooling water into sea through a suitable drain/sub-marine pipeline.

6. The industry shall treat the domestic effluents by adopting suitable technologies such as oxidation ponds, aerated lagoons etc.. and discharge the treated effluents on land for the irrigation/gardening.

7. The cooling water used in the once through system if treated with Biocide will effect the Biota of the sea and fishing also,in the proximity of the discharge point. It should be controlled by properly designed outfall into the sea.

8. The temperature rise shall be minimal at the cooling water discharge point and shall meet the standards prescribed under E(P)Act.

9. The industry shall either procure washed coal or set up a coal washery for the thermal power plant.

10. The industry shall install appropriate control equipment to control the stack emissions to meet the following emission standards:

    1. Particulate matter - 115 mg/NM^3

11. The industry shall install stacks of 275 m height, as stipulated by MOEF, Govt. of India.

12. The industry shall install suitable control equipment facilities in the coal handling plant and dust suppression in all coal and material handling areas shall be achieved through appropriate measures.

13. The industry shall submit the detailed proposals on Effluent Treatment and Air Pollution Control Equipment for Board's perusal within 2 months from the date of issue of this letter.

14. The industry shall construct and commission the effluent treatment plant and install air pollution control equipment along with the commissioning of the industry. All the units of the ETP shall be impervious to prevent ground water pollution.

15. The industry shall submit a comprehensive EIA report covering three seasons for the 1000 MW plant within 14 months from the date of issue of this letter.

16. The industry shall plan for complete utilisation of the fly ash right from the date of commissioning of the plant.

17. The industry shall make arrangements to prevent fly ash from being air borne from the fly ash dumps.

18. The industry shall provide adequate space for installing flue gas desulphurisation system (FGD System) in their layout, so that the same can be installed as and when prescribed by APPCB.

19. The SO2 and SPM discharge into the atmosphere from this area will be high, in view of the congregation of the large number of other industries such as M/s Visakhapatnam Steel Plant, two proposed refineries and a Thermal Power Plant (M/s Simhadri Thermal Power Plant of APSEB.) In view of this, the industry shall use low sulphur Indian Coal.

20. The industry shall take all steps to see that the end products of burning of the fuel does not create any pollution problem in the environment. The ambient air quality standards for industrial area shall be satisfied. Three air quality stations shall be installed at appropriate locations in consultation with APPCB.

21. Fire protection measures shall be adopted to control spontaneous combustion within the coal yard.

22. The industry shall dispose off the solid wastes to the satisfaction of the Board after obtaining prior approval.

23 There shall not be any perceptible odour outside the industry's premises, creating nuisance to public and other environment. The industry shall adopt control measures at all stages where odour is likely to be generated.

24.a)Suitable automatic flow measuring devices and monitoring equipments shall be installed

b) Continuous monitoring and recording devices shall be installed to measure SPM & SO2 concentration in the power plant stacks.

25. The industry shall provide sampling ports for all the stacks with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., and should provide a platform with suitable ladder, below one meter of sampling port, to accommodate three persons with instruments. The industry shall also provide a 5 amp., 250V plug point on the platform.

26. The industry shall provide interlocking arrangements between the process and pollution control equipments in such a way that, whenever the tolerance limits prescribed by the Board are exceeded the process comes to halt.

27. Seperate power connection with energymeter shall be provided for the pollution control equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.

28. The progress of construction of the main process unit should be in proportion to the installation of pollution control measures and the plantation.

29. Main process unit should be located at the centre of site as far as possible and the entire site should be enclosed by tall growing green plantation, preferably of species having broad leaf area.

30. All the rules and regulations notified by Ministry of Environment and forests, Government of India in respect of noise pollution control measures shall be followed to avoid nuisance to public
The ambient Noise level shall not exceed 75 dB(A)

31. The generator shall be installed in a closed area with a silencer and suitable noise absorption system so as to comply the following noise level standards.

75 dB(A) at a distance of 5 M from source.

32. The industry shall install minimum stack height to the D.G.Set as per C.P.C.B. guidelines. The minimum height of stack shall be calculated based on the following formula.

$$H = h + 0.2 \sqrt{KVA}$$

H = height of stack in mts.
h = height of the building in mts.,where the DG set is installed.
KVA = Total Generator capacity in KVA

33. All the rules and regulations notified by Ministry of Environment and Forests, Government of India in respect of Manufacture, Storage and Import of Hazardous chemicals promulgated under Environment (Protection) Act., 1986 shall be followed.

34. All the rules and regulations notified by Ministry of Environment and Forests, Government of India in respect of Management and Handling of hazardous wastes promulgated under Environment (Protection) Act., 1986 shall be followed.

35. All the rules and regulations notified by Ministry of Law and Justice, Government of India, regarding the Public Liability Insurance Act., 1991 shall be followed.

36. The industries shall establish an Environmental Cell, headed by an Environmental Engineer, for Environmental Management in the industry.

37. The industry shall appoint an Horticulturist for looking after tree plantation work and further maintainance.

38. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by Collector and District Magistrate, as civil liability.

39. If at any time during inspection of Pollution Control Board officers or officials of licensing/servicing departments if it is found that the industry is not complying with any of the above conditions, this NOC is liable for cancellation without notice and all the services rendered and licence issued shall be liable for cancellation without further notice.

40. The industry shall report progress on implementation of the project to this office, Regional Office, A.P.Pollution Control Board, VISAKHAPATNAM regularly.

41. The applicant shall obtain consent for trial production before the industry goes into trial production.

42. The applicant shall obtain consents for operation regularly from APPCB, as required under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21/22 of the Air (Prevention and Control of Pollution) Act, 1981, for operation of the industry. before starting commercial production.

43. The applicant shall comply with and carry out conditions issued by the Board in this consent order scruplously. The applicant is liable for legal action as per the provisions of the relevent Acts in case of non-compliance of any conditions of the consent order.

44. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserve its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions for the purpose of the Act by the Board.

45 The applicant shall exhibit the consent of the Board in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.

for MEMBER SECRETARY.

13.1.95

ANDHRA PRADESH POLLUTION CONTROL BOARD

2nd Floor, HUDA Complex, Maitrivanam, S.R. Nagar, HYDERABAD – 500 038.

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BY REGD.POST WITH ACK DUE

LR.NO.19/PCB/C.Estt/RO-VSP/AEE(N)/96-1880 DT. 18-4-96

To

M/s. Hinduja National Power Corporation Ltd.,
Visakhapatnam Coal Fired Power Station,
IIIrd floor, 94 Minerva House,
Sorojini Devi Road,
Secunderabad - 500 003.

Sir,

Sub: PCB - NOC Cell II - Amendments to the installation Capacity specified in the CFE - Reg.

Ref: 1.T.O.Order NO.19/PCB/Estt/Ro/VSP/AEE-VIII/95- 4433, dt. 11-95.

2.Your letter No.HNPC/clear; dt. 19/26 Feb-'96.

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With reference to the letter 2nd cited, it is to inform that the representation submitted by you with regards to the enhancement of installed capacity from 1000 MW to 1040 MW was examined by the Technical Committee along with the compliance report of CFE and recommended the following amendment to the CFE issued vide reference 1st cited.

"The Board has no objection to setup 1040 MW Power Plant as against 1000 MW "

You are also requested to ensure that other conditions stipulated in Consent for Establishment are complied before obtaining Consent for Trail Production.

Yours faithfully,

MEMBER SECRETARY

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ANDHRA PRADESH POLLUTION CONTROL BOARD

HUDA Complex, Maitrivanam, IInd Floor, S.R. Nagar, HYDERABAD-500 038.

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Lr.No.19/PCB/C.Estt/RO-VSP/AEE-N/96-3818 Dated. 6.09.96

To
M/s.Hinduja National Power Corp.,
Plot No.974, Road No.50,
Jublee Hills, Hyderabad - 500 033.

Sir,

Sub:- PCB - NOC.Cell-II - Modification to conditions stipulated in the Consent for Establishment - Reg.

Ref:- 1. T.O.Order No.19/PCB/C.Estt/RO-VSP/AEE-VIII/95 - 4433, Dt.11.95.
2. Your Letter dated. HNPC/Clear dt.26.04.96.

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The Board is in receipt of the reference 2nd cited, wherein it was requested to modify some of the conditions stipulated in the Consent for Establishment issued by the Board vide reference 1st cited.

The Board after careful examination modifies the condition as follows:

1. Trees shall be planted in an area of atleast 168 hectares.

2. The effluent generated from ashpond and DM plant shall be recycled. The effluents generated / mixed Lin
Bed ← pond ~~and~~ polished ~~effluents~~ are let to the plant waste water treatment system out of which 1000 m^3/day shall be utilised for bottom ash handling.
ALL ← ~~The~~ blow~~out~~down shall be discharged into sea shall comply with the standards for disposal of waste water into marine coastal water. The method of construction of ashponds as proposed by the proponent is acceptable to the Board. However, atleast four ground water monitoring stations within the boundary in consultation with A.P.Pollution Control Board shall be provided.

3. The proponent is complying with this condition.

4. The spillage oil (transformer oil) after separation from run-off water shall not be incinerated as the oil may contain polychlorinated bi-phinols. The transformer oil shall be properly contained and send to secured landfill.

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5. The proponent shall submit detailed design of submarine pipeline system.

6. The industry is complying with the conditions no. 6,7,,8,9,10,11,12,13,14,15,17,19,20,21,22,23,24,25, 27,28,30,and 32. Hence, no modifications.

7. The flyash and bottom ash generated shall be utilised for brick making, cement manufacturing and as a construction material for increasing height of the dykes.

8. The proponent shall provide space for flue gas desulphurisation system and shall be shown in the layout plan. The proponent shall obtain the approval of A.P.Pollution Control Board before installation of the plant.

9. The A.P.Pollution Control Board shall keep informed the operational situations in case of the operation leads to emission limits being exceeded.

10. The noise level shall not exceed 85 dB(A) at a height of 1.2 meters above ground level and a distance of 1 metre normal to the surface of the sources.

11. The types of plants which are suitable to the soil conditions available shall be planted for developing green belt in consultation with Forest Department.

12. The proponent shall make necessary arrangements for collection of samples of the treated effluents before discharging the effluents into submarine pipeline system.

13. The proponent shall seek necessary clearance from APSADA.

Yours faithfully,

MEMBER SECRETARY