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STATE LEVEL EXPERT APPRAISAL COMMITTEE, ORISSA

(Constituted vide order No. S.O. 2674 (F) dated 17th Nov 2008 of Ministry of Environment & Forests, Govt. of India.)

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,

No 65 /

SEAC/27

Date 11.09.09

BY REGD. POST

To

Mr. A.K. Parida, Chief Resident Manager,
Navabharat venture Ltd.,
Plot No N2/43,
Sima Enclave, IRC Village,
Bhubaneswar -15

Sub Terms of Reference (ToR) for preparation of Environmental Impact Assessment Report (EIA) - Reg

Ref :- i) Your application Dt. 17.08.09 for prior environmental clearance for proposed project 64(1X64) MW thermal power plant of M/s. Nava Bharat Ventures Ltd. at - Kharagprasad, dist - Dhenkanal
ii) SEAC, Orissa meeting held during 20-22nd July, 2009

Sir,

Inviting reference to the above, the State Level Expert Appraisal Committee (SEAC) Orissa has prescribed the following Terms of Reference (ToR) considering the information furnished in the Form -I as well as the Terms of Reference (ToR) suggested by you.

- i. Compliance status of the stipulated conditions of Environmental Clearance for the existing power project shall be provided
- ii. The plant site details as well as ash pond to be depicted in topo sheet may be provided.
- iii. The study area should cover an area of 10 km radius around the proposed site.
- iv. Land use of the study area as well as the project area shall be given
- v. Location of any National Park, Sanctuary, Elephant / Tiger Reserve (existing as well as proposed), migratory routes, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden
- vi. Land requirement for the project to be optimized. Item wise break up of land requirement and its availability to be furnished. The norms prescribed by CEA should be kept in view. It should also include land to be acquired, if any, for coal transportation system as well as for laying of pipeline. It may clearly be confirmed that the land is free of all encumbrances. The issues relating to land acquisition and R&R should be clearly discussed in the EIA report.
- vii. Topography of the area should be given clearly indicating whether the site requires any filling. If so, details of filling, quantity of fill material required, its source, transportation etc. should be given
- viii. Impact of the project on drainage of the area and its surroundings should be indicated
- ix. Details of the Geo technical and hydrological studies should be provided

- x. Information regarding surface hydrology and water regime and impact of the same, if any due to the project should be provided.
- xi. One season site-specific meteorological data shall be provided.
- xii. One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall include SPM, RSPM, SO₂, NO_x, Hg. The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- xiii. Impact of the project on the AAQ of the area should be provided along with details of the model used and the input data used for modeling. The air quality contours may be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The wind roses should also be shown on this map.
- xiv. Fuel analysis to be provided (sulphur, ash content and heavy metals including Pb, Cr, As and Hg). Details of auxillary fuel, if any including its quantity, quality, storage etc should also be given.
- xv. Quantity of fuel required, its source and transportation. A confirmed fuel linkage should be provided.
- xvi. Source of water and its availability. Commitment regarding availability of requisite quantity of water from the competent authority may be provided.
- xvii. Details of rainwater harvesting and how it will be used in the plant may be provided.
- xviii. Examine the feasibility of zero discharge. In case of any proposed discharge, its quantity, quality and point of discharge, users downstream etc. should be provided.
- xix. Optimization of Cycles of Concentration (COC) for water conservation shall be made. Other water conservation measures proposed in the project should also be given. Quantity of water requirement for the project should be optimized.
- xx. Details of water balance taking into account reuse and re-circulation of effluents should be provided.
- xxi. Details of greenbelt i.e. land with not less than 1500 trees per ha giving details of species, width of plantation, planning schedule etc. should be provided.
- xxii. Details of evacuation of ash alongwith detailed plan of ash utilisation / management should be provided.
- xxiii. Details regarding ash pond impermeability including soil analysis report and whether it would be lined, if so details of the lining etc.
- xxiv. Detailed R&R plan/compensation package in consonance with the National / State R&R Policy for the project affected people including that due to fuel transportation system/pipeline, if any, shall be prepared taking into account the socio economic status of the area, homestead oustees, land oustees, landless labourers. An action plan with budgetary provisions shall be submitted.
- xxv. Details of activities to be taken up under CSR for this project with budgetary allocation should be submitted.
- xxvi. Details of flora and fauna duly authenticated should be provided. In case of any scheduled fauna, conservation plan should be provided.

- xxvii. Details regarding infrastructure facilities such as sanitation, fuel, restroom, medical facilities, safety during construction phase etc. to be provided to the workers during construction as well as operation phase.
- xxviii. Public hearing points raised and commitment of the project proponent on the same, an action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
- xxix. Measures of socio economic development to the local community proposed to be provided by project proponent may be provided. As far as possible, quantitative dimension to be given. Impact of the project on local infrastructure of the area such as road network and whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame may be indicated.
- xxx. EMP to mitigate the adverse impacts due to the project along with item wise cost of its implementation to be provided.
- xxxi. Risk assessment including fire and explosion issues due to storage and use of fuel should be carried out. It should take into account the maximum inventory of storage at site at any point in time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be provided.

Accordingly you are required to prepare the draft EIA report in the prescribed format given in Appendix-III of MoEF Govt. of India, Notification dt 14.09.06 and submit the EIA report including the summary EIA to the SEIAA, Orissa with a copy to the SEAC, Orissa for necessary action on this matter. You are also required to take necessary steps for public consultation in respect of your above mentioned proposed project.

Yours faithfully

Sda
16/09/09
SECRETARY

State Level Expert Appraisal Committee &
Member Secretary, SPC Board, Orissa

Memo No. 66 Dt. 11.09.09

1. The Member Secretary, SEIAA & Director(Env)-Cum-Special Secretary to Govt. F & E Deptt., Govt. of Orissa for information and necessary action
2. The Member Secretary, Orissa State Pollution Control Board, A-118, Nilkantha Nagar, Unit-8, Bhubaneswar-751 012.
3. Sri Nalin Bhat, Adviser Ministry of Env. & Forest, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110003
4. The secretary, Department of Environment, Govt. of Orissa, Bhubaneswar.
5. The Chief Conservator of Forests (C), Ministry of Environment & Forests, Government of India, Regional Office (EZ), A-3, Chandrasekharpur, Bhubaneswar - 751 023
6. Guard File

Sda
SECRETARY

State Level Expert Appraisal Committee &
Member Secretary, SPC Board, Orissa