एनटीपीसी NTPC
A Maharatna Company

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय / Corporate Centre

Ref. No.: CC: ESE: 1150:2019: GEN Date: 12.09.2019

Director, IA-Thermal
Ministry of Environment, Forests and Climate Change
3rd Floor, Vayu Block,
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj,
New Delhi - 110 003.

**Sub.: Application for Environmental Clearance for Singrauli Super Thermal Power Project (2x800 MW).**

**Ref: MOEF&CC File No.: J-13012/09/2016-IA.I(T)**

Dear Sir,

NTPC is operating Singrauli Super Thermal Power Station (SSTPS) at Shakti Nagar, Sonbhadra district of Uttar Pradesh with a total capacity of 2000 MW - Stage-I (5x200 MW) and Stage-II (2x500 MW). NTPC now proposes to augment the capacity of Singrauli STPS by adding Two Units of 800 MW each (2x800 MW) based on ultra super critical parameters under Stage-III. Units under Stage-I (5x200 MW) based on sub-critical technology will be decommissioned after commissioning of the proposed units under Stage-III. The total capacity of the project after expansion and decommissioning will be 2600 MW. The land for the proposed project is already in possession of NTPC and firm commitments for coal and water are already available.

Proposed expansion of Singrauli STPP under Stage-III (2x800 MW) will have several advantages, such as

(a) Adoption of state of the art super critical technology in Stage-III as compared to sub-critical technology under Stage-I
(b) Better efficiency leading to reduction in specific coal consumption and specific carbon emissions.
(c) No additional land requirement
(d) Reduction in drawl of raw water from Rihand Reservoir and discharge of cooling water into the Rihand reservoir due to replacement of Stage-I units based on once through cooling system

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ENGINEERING OFFICE COMPLEX, Plot No. A-8A, Sector-24, Post Box No. 13, NOIDA-201301 (U.P.)
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पंजीकृत कार्यालय : एन.टी.पी.सी. भवन, स्कोप काम्पलैक्स, 7, इंस्टीटयूशनल एरिया, लोधी रोड़, नई दिल्ली–110003
Regd. Office : NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003
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(e) Less water requirement (about 1620 $m^3$/hr) due to adoption of Air Cooled Condensers (ACC) technology for condenser cooling as compared to normal units based on cooling towers (4800 $m^3$/hr for 1600 MW). Further, the new units shall be based on zero liquid discharge system.

(f) Installation of High efficiency ESP, FGD and NOx Control Systems to comply with the new emission norms of MOEF&CC, leading to overall reduction in emission levels and improvement in air quality.

Ministry of Environment Forest & Climate Change (MOEF&CC) accorded the TOR for undertaking detailed EIA study vide letter No. J-13012/09/2016-IA. I(T) dated 06th of March, 2017 and its amendment dated 10th of December 2018. The Public Hearing was held on 09.07.2019 by Uttar Pradesh State Pollution Control Board & MOM of the Public Hearing was forwarded by Member Secretary UPPCB, Lucknow to Director MOEF&CC, New Delhi on 31.07.2019. Final EIA Report incorporating the details of Public Hearing along with action plan for the issues raised has been prepared. Application for Environmental Clearance for Singrauli Super Thermal Power Project (2x800 MW) is hereby submitted for your kind consideration along with the following documents:

(a) Final Environmental Impact Assessment (EIA) Report along with a soft copy.
(b) Copy of Feasibility Report.
(c) Video Recording of Public Hearing in CD as received from SPCB, Uttar Pradesh.
(d) Copy of Minutes of the Public Hearing along with complete attendance sheets.
(e) Copy of Authorization Certificate for submission of EC Application.

It is requested that the proposal for Environmental Clearance (EC) may kindly be considered for accord of EC at the earliest.

Thanking you.

Yours faithfully,

Vijay Prakash

(Dr. Vijay Prakash)
GM & HOD (Env. Engg.)

Encls: as above.