

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

- Subject** : Petition under Section 79 of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for approval of additional expenditure on account of installation of various Emission Control Systems in compliance with the Ministry of Environment and Forests and Climate Change, Government of India notification dated 7.12.2015.
- Petition No.** : 64/MP/2020
Station Name : Simhadri Super Thermal Power Station Stage-I (2X500 MW)
- Petition No.** : 467/MP/2019
Station Name : Simhadri Super Thermal Power Station Stage-II (2x500 MW)
- Date of Hearing** : 12.3.2020
- Coram** : Shri P.K. Pujari, Chairperson
Shri I. S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member
Shri Prakash. S. Mhaske, Member, Ex-Officio
- Petitioner** : NTPC Ltd.
- Respondents** : AP Eastern Power Distribution Company Ltd. (APEPDCL) and others
- Parties present** : Shri B. Vinodh Kanna, Advocate, TANGEDCO
Shri Rohit Chhabra, NTPC
Shri Parimal Piyush, NTPC
Shri V. V. Sivakumar, NTPC
Shri A.S. Pandey, NTPC
Shri V. K. Garg, NTPC
Shri Anjum Jargar, NTPC
Shri R. Ramalakshmi, TANGEDCO
Dr. R. Kathiravan, TANGEDCO

Record of Proceedings

The matters were called out for virtual hearing.

2. The representative of NTPC submitted that the Ministry of Environment, Forest and Climate Change, Government of India (MoEFCC), vide Notification No. S.O. 3305(E)



dated 7.12.2015 (in short, “the MoEFCC Notification”) amended the Environment (Protection) Rules, 1986 introducing/ amending the emission standards for environmental pollutants to be followed by all existing and new thermal power plants. As per the MoEFCC Notification, all thermal power plants are required to comply with the revised emission standards within a stipulated period. The instant Petitions are filed by NTPC for approval of additional capital expenditure (ACE) towards installation of various Emission Control Systems (ECS) at its thermal generating stations to comply with the revised emission standards as per the MoEFCC Notification dated 7.12.2015. NTPC has proposed to install Wet Lime Based Flue Gas Desulphurisation (WFGD) for reduction in SO₂ and Selective Non-Catalytic Reduction (SNCR) technology for reduction in NO₂. However, with relaxation of the emission standards for NO₂ vide subsequent notification of MoEFCC dated 19.10.2020, requirement for installation of ECS for NO₂ control in case of the thermal power plants (TPPs) covered in the instant petitions may need to be revisited. Accordingly, NTPC has submitted the revised indicative tariff and has shared the proposal with the beneficiaries.

3. In response to a query of the Commission, the representative of NTPC submitted that two separate bids were called for installation of ECS for reduction in SO₂ and NO₂ emissions. With relaxation in the norms for NO₂ from 300 mg/Nm³ to 450 mg/Nm³ for plants installed between 1.1.2004 and 31.12.2016 vide MoEFCC notification dated 19.10.2020, installation of SNCR technology for NO₂ control is not required at present and the Petitioner sought liberty to approach the Commission in future, if required.

4. In response to another query regarding status of installation of ECS, the representative of NTPC submitted that owing to strict timeline for complying with the revised emission standards (i.e. by December 2022), NTPC floated the tender, work was awarded and civil work has already commenced in many of its generating stations. It is further submitted that the proposal in terms of provisions of Regulations 29(2) and 29(3) of the 2019 Tariff Regulations has been shared with the beneficiaries in terms of the Commission’s directions vide ROP (record of proceedings) vide hearing dated 21.7.2020.

5. In response to another query of the Commission regarding re-phasing of implementation of ECS, the representative of NTPC submitted that re-phasing proposed by CEA is being considered by MoEFCC and it has not yet been notified.

6. Learned counsel for TANGEDCO submitted there is variation in the cost estimated by NTPC for Simdhari STPS and that it is adopting the arguments advanced by the other beneficiaries. In response, the representative of NTPC submitted that the cost estimated by NTPC is comparable with the CEA benchmark cost. It was further pointed out by the representative of NTPC that in order dated 20.7.2018 in Petition No. 98/MP/2017, it has already been held that the MoEFCC Notification dated 7.12.2015 constitutes Change in Law and the additional capital expenditure incurred by NTPC towards implementation of ECS for meeting the revised emission standards shall be admissible under Change in Law after prudence check by the Commission.



7. The Commission observed that CEA has recommended various technologies to meet the revised norms and NTPC is required to select the most appropriate technology for its generating stations as per the CEA's guidelines/recommendations. CEA has also specified benchmark/ estimated hard cost which does not include taxes duties, cess, etc. and NTPC's claim will be examined against such benchmark/estimated cost. In case of any deviation in the cost, NTPC will have to explain the same and it will be allowed only after prudence check. The Commission observed that NTPC being a PSU is expected to choose the technology best suited from the technologies suggested by CEA and to follow a fair and transparent bidding process and further to discover the most competitive price. It is the endeavour of the Commission to balance the interest of the generators and consumers. The Commission also observed that as NTPC is bound to comply with the revised emission standards as stipulated in the MoEFCC Notification dated 7.12.2015 and to complete the installation of ECS latest by December, 2022, the beneficiaries should extend their cooperation for a fair and just consideration of NTPC's claims and timely disposal of the petitions.

8. The Commission after hearing the parties and based on the request of the Respondents, directed NTPC to submit the following information on affidavit, by 25.3.2021 with an advance copy to the Respondents/ beneficiaries:

- a) Certificate from the competent authority to the effect that the ECS technology selected is as per the recommendations made by CEA and is the best suited cost-effective technology in terms of CEA's advisory dated 7.2.2020, that would meet the ECS norms as specified in the MoEFCC Notification.
- b) Copy of the decision by NTPC resolution and date to issue NIT to procure FGD installation.
- c) Copy of NIT along with bid opening/ closing dates.
- d) Copy of the recommendations of the Bid Evaluation Committee and approval of the competent authority to award the work.
- e) Certificate from the competent authority that bidding and award of the work has been carried out in a fair and transparent manner as per the applicable GOI/ NTPC guidelines.
- f) A note on the process of bidding for award of different packages of ECS, with names of the bidders who participated in the bid. Name of the successful bidder, with a copy of the Letter of Award/ Letter of Intent issued to the successful bidder.
- g) The present status of implementation of FGD. If commissioned, the date of commissioning.



- h) Studies, if any, conducted to show that the adopted FGD technology would meet the evaluation criteria indicated by CEA in its advisory dated 7.2.2020 and is the best suited cost-effective technology.
- i) Station-wise/ unit-wise break-up of the capital cost claimed for FGD as per the following table:

Unit No.	Capacity (MW)	Rs. EA's indicative hard cost (Rs. in lakh per MW)	Hard cost claimed (Rs. in lakh per MW)	Total IDC claimed (Rs. in lakh)	Total IEDC claimed (Rs. in lakh)	Total FERV claimed (Rs. in lakh)	Total taxes & duties claimed (Rs. in lakh)	Total of Other costs claimed (Rs. in lakh)	Total cost claimed (Rs. in lakh)
1									
2									
3									
4									
5									
6									

- j) Reasons for deviation from the benchmark hard cost as indicated by CEA in its advisory, if applicable.
- k) If any contract for NOx reduction at the generating station has also been awarded, the cost of the same is to be segregated and the capital cost for FGD is to be provided separately and distinctly.
- l) Any other information considered appropriate by the Petitioner.

9. The Commission further directed the beneficiaries to submit their response, if any, by 29.3.2021 with a copy to NTPC.

10. The petitions will be listed for final hearing on 31.3.2021.

By order of the Commission

Sd/-
(V. Sreenivas)
Deputy Chief (Law)

