

Presentation on
Implementation of New Environmental Norms by NTPC

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ABSTRACT

Out of the total installed Power Plant Capacity of 310 GW in India, about 189 GW installed capacity (61%) are Coal based Power Plants. New Environmental Norms for Coal based Power Plants were notified by MOEF &CC on 07/12/2015 wherein stringent emission limits for Particulate Matter (PM), Sulphur Dioxide (SO₂), Oxides of Nitrogen (NO_x), Mercury (Hg), Specific Water Consumption limit as well as Conversion from once through to cooling tower have been stipulated for compliance, based on the period of installation of respective units. The implementation of new environmental norms call for Retrofit/R&M of suitable technologies for emission reduction of: PM (case to case basis), SO₂ and NO_x for Coal based Power Plants based on present design/emission values.

Review of the new environmental norms, analysis of existing plant layouts and present design/emission values as well as scanning of available technologies (for meeting the new norms) indicated various constraints/concerns as well as certain modifications required in the new norms published which are under discussions with concerned authority/ministry.

NTPC has presently about 41 GW of capacity of Coal Based Power Plants under operation and additionally, about 20 GW are under construction stage, totalling to 61 GW Capacity. While NTPC is committed to comply with the New Environmental Norms, the large scale implementation of the same poses an extensive challenge for NTPC in terms of Selection of Technology, Planning, Plant shut down requirement and Huge Expenditure involved and Recovery of Investments etc.

The presentation gives an outline of concerns expressed by NTPC on norm and its implementation and various requests made for review, New Environmental Norms Implementation Plan by NTPC and the cost impact of implementation.