

## Questionnaire for deNO<sub>x</sub> System design for Thermal Power Plant

**A. Client to provide Project details along with Site conditions.**

**B. Generator & Boiler details to be provided by Client.**

**C. Flue gas details:**

Parameter	Unit	To be filled in by Client	Remarks
Flue gas flow	Nm <sup>3</sup> /h		
Temperature of Flue gas at Boiler outlet	°C		
NO <sub>x</sub> emission concentration	mg/Nm <sup>3</sup>		
O <sub>2</sub> content of Flue gas	Vol. %		
Dust content of Flue gas	gm/Nm <sup>3</sup>		
Temperature of gas at Denitration reactor inlet	°C		
Boiler load variation range			
NO <sub>x</sub> concentration at Boiler outlet at different load conditions	mg/Nm <sup>3</sup>		
Temperature of flue gas at Boiler outlet at different load conditions	°C		

**D. Flue Gas Composition:**

Constituent	Vol.%	To be filled in by Client	Remarks
N <sub>2</sub>			
CO <sub>2</sub>			
H <sub>2</sub> O			
O <sub>2</sub>			
SO <sub>2</sub>			

**E. Additional Information to be provided by the Client:**

1. Analysis of Coal/ Fuel (including microelements);
2. Boiler thermal calculations and distribution of temperature in furnace;
3. Boiler drawings/arrangement & detailed drawing of Cyclone separator
4. General arrangement drawing of Boiler exit (reflecting duct, Fan etc.)
5. General arrangement/layout drawing of Plant area
6. Required NOx emission concentration (on installation of deNOx system)
7. Power tariff in Plant area
8. Any specific preference for reducing agent: Urea, Ammonia water etc.
9. Power supply details
10. Specify if any specific control requirements need to be considered for the deNOx Unit (for example adopting DCS system same as that of the main Plant to integrate into the main Plant for uniform control or arrange a control system independent of Main Plant)