GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.1665 TO BE ANSWERED ON 28.11.2019

POWER PLANTS EQUIPPED WITH POLLUTION CONTROL SYSTEMS

1665. MS. RAMYA HARIDAS:

Will the Minister of POWER be pleased to state:

- (a) whether the thermal power stations are major contributors of pollution in the country and if so, the details thereof;
- (b) whether several such stations under the Union and State Governments are unable to arrange pollution control equipment due to lack of funds;
- (c) if so, the details thereof;
- (d) the total number of thermal power stations that are equipped with proper pollution control systems along with the details of those which are yet to be equipped with the said systems, State/ UT-wise; and
- (e) the estimated expenditure to upgrade them?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER, NEW & RENEWABLE ENERGY AND THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) to (d): Stringent emission control norms have been laid down for Thermal Power Plants (TPPs) and only such TPPs which meet these norms are permitted to operate. All the thermal power plants as on date are equipped with appropriate pollution control technology in order to meet these norms.

A revised set of emission control norms were promulgated by Ministry of Environment, Forest and Climate Change (MOEF&CC) in December 2015. A phasing plan has been laid down with the approval of Central Pollution Control Board (CPCB) and Honb'le Supreme Court for the installation of the additional equipment in order to meet the revised emission norms. The Central Electricity Authority (CEA) is monitoring the implementation of the phasing plan for the installation of the additional equipment in the thermal power plants. The State-wise detail (no. of units) where installation of FGD is planned is given at Annexure.

The financing for the installation of the additional pollution control equipment for the thermal power plants is made available by the Power Finance Corporation (PFC), Rural Electrification Corporation Ltd. (REC) and the commercial Banks.

(e): CEA has informed that the estimated expenditure for upgradation/installation of the pollution control equipments to implement the Environmental Norms are as under:

Equipment	Estimated Capital Cost (Hard Cost) Rs. Crores per MW
Flue Gas Desulphurization (FGD)	0.27-0.45
Electro-Static Precipitator(ESP) upgradation	0.13
Combustion optimization/ modification measures to control NOx	0.013

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1665 TO BE ANSWERED IN THE LOK SABHA ON 28.11.2019.

State-wise details (no. of units) where installation of FGD is planned

State	Capacity (MW)	No. of units
Andhra Pradesh	9430	19
Bihar	5270	17
Chhattisgarh	20430	46
Gujarat	12127	35
Haryana	5330	12
Jharkhand	4250	13
Karnataka	9220	20
Madhya Pradesh	15190	34
Maharashtra	19790	54
Odisha	7080	21
Punjab	5680	15
Rajasthan	6280	18
Tamil Nadu	7670	22
Telangana	5400	12
Uttar Pradesh	20880	60
West Bengal	12445	42
Grand Total	166472	440
