

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2226
TO BE ANSWERED ON 01.01.2019

CURBING POLLUTION OF THERMAL POWER PLANTS

†2226. SHRIMATI KANTA KARDAM:

Will the Minister of **POWER**
be pleased to state:

- (a) whether Government is working on any special scheme to reduce the pollution level of coal based thermal power plants in the country, if so, the details thereof; and
- (b) the steps taken by Government to modernise these thermal power plants?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND
NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b): Government have taken the following steps to reduce the pollution level of coal based thermal power plants in the country:

- i. Ministry of Environment, Forest and Climate Change (MoEF&CC) notified following new environmental norms for Thermal Power Plants on 7th December 2015:

Emission parameter	TPPs (units) installed before 31 st December, 2003	TPPs (units) installed after 31 st December 2003 and upto 31 st December 2016	TPPs (units) to be installed from 1 st January 2017
Particulate Matter	100 mg/Nm ³	50 mg/Nm ³	30 mg/Nm ³
Sulphur Dioxide (SO ₂)	600 mg/Nm ³ for units less than 500MW capacity 200 mg/Nm ³ for units 500MW and above capacity	600 mg/Nm ³ for units less than 500MW capacity 200 mg/Nm ³ for units 500MW and above capacity	100 mg/Nm ³
Oxides of Nitrogen (NO _x)	600 mg/Nm ³	300 mg/Nm ³	100 mg/Nm ³
Mercury	0.03 mg/Nm ³ (for unit size 500 MW and above)	0.03 mg/Nm ³	0.03 mg/Nm ³

To ensure uninterrupted power supply position in the country, a phased implementation plan (to be implemented before 2022) for installation of Flue Gas De-Sulphurization (FGD) in plants for a capacity of 1,61,402 MW (414 Units) and upgradation of Electrostatic Precipitator in plants for a capacity of 64,525 MW (222 units) was prepared by Central Electricity Authority (CEA) in consultation with the stakeholders and this plan was submitted to MoEF&CC on 13.10.2017. The Central Pollution Control Board (CPCB) has issued directions to Thermal Power Plants to ensure compliance as per the plan prepared by CEA.

- ii. The Perform Achieve and Trade (PAT) Scheme under National Mission on Enhanced Energy Efficiency (NMEEE) is being implemented by Bureau of Energy Efficiency (BEE). Under this scheme, specific targets for improving energy efficiency are assigned to individual thermal power stations in the country. The incremental efficiency of these thermal power stations will lead to reduction in fossil fuel consumption thereby reducing CO₂ emissions.
