

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.736
TO BE ANSWERED ON 27.07.2015

R&D ACTIVITIES BY NTPC

736. SHRI DEVENDER GOUD T.:
SHRI A.W. RABI BERNARD:

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

- (a) whether NTPC has embarked on a Rs.1,000 crore R&D exercise that would involve ground breaking work in areas of new and renewable energy, power production, waste management, efficiency improvement and cost reduction;
- (b) if so, the details thereof;
- (c) the details of success it has achieved through the above exercise and how those have been used in the areas mentioned in part (a);
- (d) whether the company has decided to work on developing power generation technologies that would use lesser volume of coal to reduce green house gas emission; and
- (e) if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : NTPC has established NTPC Energy Technology Research Alliance (NETRA) as a state-of-the-art centre for research technology development and scientific services in the domain of electric power. NTPC spent Rs. 129.56 crore during 2014-15 on R&D.

(c) : NETRA has provided a number of innovative solutions to NTPC operating stations in the areas of low grade heat recovery from waste flue gas, reduction in auxiliary power consumption, robotic inspection, health assessment of power plants components to increase reliability etc.

(d) & (e) : Yes, Sir. NTPC, BHEL and Indira Gandhi Centre for Atomic Research (IGCAR) have entered into an MOU for indigenous development of advance ultra super critical technology which would have enhanced efficiency of around 46% and about 17% less CO₂ emission as compared to conventional 500 MW sub-critical thermal power plants.
