

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:5985  
ANSWERED ON:30.04.2015  
ETHANOL RESEARCH  
Raju Shri Gokaraju Ganga

**Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:**

- (a) whether a bilateral agreement has been signed to set up Indo-US Joint Clean Energy Research and Development Centre for Ethanol Research to reduce the effect of Climate Change and increase the use of bio-fuels;
- (b) if so, the details thereof and the mandated target set by both the countries in this regard; and
- (c) the steps already initiated by both the signatories to honour the said agreement?

**Answer**

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

(a),(b)&(c): Yes, Madam. A Joint Agreement between US-Department of Energy and Government of India was signed on 4th November, 2010 and the Biofuel consortia under Indo-US Joint Clean Energy Research and Development Centre was sanctioned on November, 2012.

The Biofuel Consortium on "U.S.-India Consortium for Development of Sustainable Advanced Lignocellulosic Biofuel Systems" was awarded for a duration of five years with objectives of sustainable production of biofuel, emphasizing on sustainable feedstock cultivation and supply, biochemical conversion technologies for production of second generation biofuels with minimal environmental impact, and analysis of overall sustainability and supply chain of feedstock.

The aim of this project is to develop and optimize selected non-food biomass based advanced biofuels systems and bio-based products like biogas and lignin-based byproducts for the U.S. and India.

The project will benefit both nations by delivering a working model for feedstock production and supply, biochemical conversion approaches and technologies that have been validated on pre-commercial scale systems, and the overall economics and sustainability of biofuel production and supply systems.