

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

LOK SABHA

UNSTARRED QUESTION No. 2932  
TO BE ANSWERED ON 11/05/2016

2G ETHANOL PLANT

2932. SHRI ADHALRAO PATIL SHIVAJIRAO:  
SHRI NAGENDRA KUMAR PRADHAN :  
SHRI VINAYAK BHAURAO RAUT :

Will the Minister of SCIENCE AND  
TECHNOLOGY be pleased to state:

विज्ञान और प्रौद्योगिकी मंत्री

- Whether the Government has recently inaugurated the country's first second-Generation (2G) Ethanol plant at Kashipur in Uttarakhand;
- if so, the details and salient features thereof along with the technology used therein;
- Whether the aforesaid technology is suited for both Indian and global needs and will establish the country as a major global technology provider besides effecting considerable savings in import of crude oil;
- if so, the details thereof;
- Whether the aforesaid technology is capable of converting all types of agricultural residues to ethanol in less than 24 hours, with optimum product yields: and
- if so, the facts thereof and the manner in which it will prove beneficial for the agriculture and other sectors:

ANSWER

MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES  
(Y.S. CHOWDARY)

विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान राज्य मंत्री  
(वाई. एस. चौधरी)

- Yes, Madam. The Government has inaugurated the country's first 2 G ethanol plant at Kashipur in Uttarakhand on 22<sup>nd</sup> April, 2016.
- India first cellulosic alcohol technology demonstration plant developed through indigenous technology with capacity of 10 ton per day. The demonstration plant for converting Ethanol from lignocellulosic biomass is supported by Department of Biotechnology, Ministry of Science and Technology, Government of India. This feedstock independent technology is developed by DBT-ICT Centre for Energy Biosciences, ICT Mumbai. The salient features of this technology are as below:
  - Fastest conversion of any feedstock to alcohol in less than 24 hours
  - Lowest capital expenditure on plant and machinery
  - Technology components patented worldwide

