

## L&T Hydrocarbon Engineering Signs Agreement with Institute of Chemical Technology to Build Second Generation Ethanol Plants

Mumbai, May 26, 2017: L&T Hydrocarbon Engineering (LTHE), a leading provider of design-to-build engineering and construction solutions across the hydrocarbon spectrum to global majors, and a wholly-owned subsidiary of Larsen & Toubro (L&T), has signed a Memorandum of Agreement (MOA) with Institute of Chemical Technology (ICT) to build Ethanol plants based on the fully indigenous technology developed by ICT for producing Second Generation Ethanol. This novel technology developed by ICT under the leadership of Dr. Arvind Lali, Head of DBT-ICT Centre, is capable of processing a variety of feedstocks and offers one of the lowest project life cycle cost.

Today, India is producing about 3% bio-ethanol blending with Ethanol derived from molasses, which is called first Generation (1G) Ethanol. There is a huge impetus from the Government of India to set up second Generation (2G) Ethanol plants in order to achieve the ambitious target of 20% blending of bio-fuels. 2G Ethanol is defined as that derived from agricultural wastes that do not impact human and animal food chains, and result in more than 60% reduction in fuel carbon emissions compared to equivalent petro-fuel use.

Prof. G.D. Yadav, Vice Chancellor, ICT, stated that the Department of Bio-Technology (DBT), Government of India, set up India's first bio-energy research centre BT104BT1 0 0 1 293 (li) (fe c) (y) (c) - (le)

Mr. Subramanian Sarma, MD & CEO of L&T Hydrocarbon Engineering, said, " We are delighted to be part of this i