



Council of Scientific and Industrial Research

Press Release

CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun

Wins

CSIR Award for S&T Innovations for Rural Development (CAIRD)-2016

New Delhi, September 26, 2018. CSIR Award for S&T Innovations for Rural Development for the year 2016 is conferred on CSIR-Indian Institute of Petroleum (CSIR-IIP), Dehradun for Development and Wide Popularization of Eco-Friendly & Efficient Jaggery Plant.

In rural India, Jaggery making is one of the major industries. It is a traditional industry and has been struggling for survival due to the heavy pollution, low productivity and thus low profitability. Nearly 25% of total sugarcane produced in the country is converted into Jaggery. The conventional plant and process being less profitable, makes the business operations difficult and thus many units in the rural areas have been closing. Besides this, Carbon Monoxide (CO) levels during initial firing and smoke level during operation of the conventional plant are much above the safe permissible limits.

CSIR-IIP developed eco-friendly and energy efficient Jaggery Plant (Gur Bhatti), to revive the traditional Jaggery industry by making the business profitable and protect the environment. The low cost techniques applied in the improved plant reduced the emissions to significant levels and improved the overall thermal efficiency of the plant. The CSIR-IIP plant saves 25% fuel and enhances production by 15%, resulting in higher profitability. The additional cost of the improved plant is nominal and can be recovered in a duration of one year.

The improved Jaggery making plant has also been widely popularized by CSIR-IIP involving live demonstration at the sites, motivating farmers and rural masses. This resulted in quick adoption of the innovative plant & process and more than 40 of such units have been installed in the rural areas of Uttar Pradesh and Uttarakhand.

CSIR applauds and honours CSIR-IIP for contributing in socio-economic development of rural brethren.