

Aditi Urja Sanch

October 22, 2020

In news

The Union Minister of Science and Technology inaugurated the DME fired “Aditi Urja Sanch” unit

Key highlights

Minister inaugurated DME fired “Aditi Urja Sanch” unit along with the DME-LPG blended fuel cylinders and handed them over for common public and CSIR-NCL (National Chemical Laboratory) canteen use on a trial basis at CSIR-NCL premises

About **Dimethyl ether** (DME)

- DME is an ultra-clean fuel. CSIR-NCL has developed the nation’s first kind of DME pilot plant with 20-24Kg/day capacity.
- The conventional LPG burner is not suitable for DME combustion as DME density is different than LPG
- The new Burner is fully designed and fabricated by NCL for DME, DME -LPG blended mixtures and LPG combustion.
- The newly designed stove can burn with up to 30 % DME blended with LPG or 100% DME as fuel.

Significance

- The launch of this burner will also provide a significant boost to the ‘Make in India’ campaign as all the manufacturers of cylinders, gas stoves, regulators, and gas hose are domestic.
- This kind of activity may bridge the gap between demand and supply, and it can ensure energy security for the nation
- A clean cooking fuel combination of DME-LPG also safeguards the well-being of women and children.
- The DME process technology is economical, cost-

effective, and scalable with in-situ product purification as well as a heat integration unit that produces pure DME.