

Renewable Aromatics *from* LCGO

Background

- BTX are one of the most important feeds for the petrochemical industry and have been in demand for the various applications across the globe.
- As per the **reportsanddata**, The global BTX market is projected to grow at the rate of 5.9% and will reach to \$274.78 Billion USD by 2027.
- Traditionally BTX is produced via catalytic reforming and steam cracking, but due to increase in demand these are not meeting the global demand.
- There is now need of on-purpose and low-cost technology which can produce BTX, i.e. use of non-conventional yet rich hydrocarbon as a feedstock such as Light Coker Gas Oil (LCGO)

Technological Approach

- The catalytic cracking takes place simultaneously by cracking the paraffins followed by aromatization.
- To optimize the Aromatics yield and minimize unwanted by-products, it is therefore, necessary to work in conditions close to atmospheric pressure and at temperatures not exceeding 550°C
- Aromatics consist of 19% benzene, 31% toluene and 8% xylenes as per ASTM D6730.

