



Simultaneous Production of US Grade Gasoline And High Purity Benzene from FCC Naphtha : CSIR IIP & RIL Technology



Creating Future Fuels

Need for this Technology

- ❖ MSAT – II regulations which became active on January 1st, 2011 (“EPA Regulatory Announcement” – EPA420-F-07-017, FEBRUARY 2007) , restricts the annual average benzene level in Gasoline sold in U.S, to 0.62 % vol.
- ❖ Surplus shale / ethane sources resulting in conversion of Naphtha crackers to Gas Crackers. Need to process alternative feedstocks to compensate for decreases in PyGas production.

Salient Features of Technology

- Produces :
 - ❖ Gasoline having: (i) Sulphur < 10ppm (ii) Benzene < 0.3%
 - ❖ High purity benzene
- First time in the world and first indigenous technology Implemented in RIL, Jamnagar
- Capacity: ~0.7 MMTPA
- Capex: ~300 Crores INR
- Payback Period: Est. 2.5 Years

Accolades

- ❖ CSIR Technology Award for Innovation, 2014
- ❖ US Patent 8722952, May 2014



**Plant successfully Commissioned at
RIL Jamnagar in May 2016**