



## Ind-Coker<sup>AT</sup>

### Residue Upgradation with Lower Coke Yield

Refineries all over the world are increasingly processing heavier crudes for maximization of refinery margins. As a result of this, Delayed Coking Units have gained importance for bottom-of-the-barrel upgradation to improve profitability. However, high yield of low grade Coke from the Delayed Coking is a bottleneck in improving the refinery margin further.

To enhance profitability in thermal cracking process, IndianOil R&D has developed Ind-Coker<sup>AT</sup> technology, for residue upgradation with lower Coke make & superior distillate yields in comparison to the conventional Delayed Coker technology. Apart from significant improvement in the refining margins, ease of integration with existing Delayed Coker unit and its implementation with minimum investment provide an additional advantage.

#### Salient Features

- Technology can be implemented in existing Delayed Coker Unit as well as grassroots unit
- Operational flexibility due to Dual mode operation (either Ind-Coker<sup>AT</sup> or Coker mode)
- Refinery waste sludge can be processed for disposal

#### Major Benefits

- Reduction in Coke yield and increase in distillate yield compared to conventional Delayed Coker Unit
- Higher conversion of low-value residues to distillates with minimum capital investment
- Processing of wide range of feedstocks: Offers flexibility to enhance refinery margin by processing cheaper crudes

#### Commercial Experience

- Wide operating experience with commercial Delayed Coker Units
- Technical support and troubleshooting expertise
- Commercially demonstrated in 3 MMTPA DCU in one of the IndianOil refineries (Coke yield reduction by ~ 5 wt% with corresponding middle distillate yield increase by ~ 4 wt%)
- Preparation of BDEP for revamp of existing DCU to Ind-Coker<sup>AT</sup> in one of the IndianOil refineries under progress

