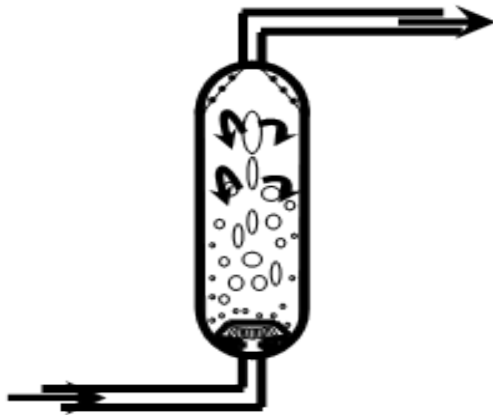


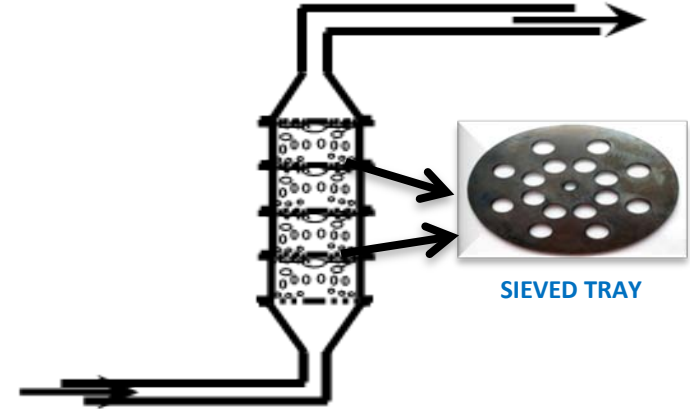
Advanced Soaker(internals) Technology



CONVENTIONAL SOAKER

Benefits

- More distillates
- Improved fuel oil stability
- Better temperature profile
- Enhanced run length



SOAKER WITH INTERNALS

Commercialisation and Economic Benefits

	HPCL, Vizag	IOCL, Mathura	IOCL, Haldia
Technology Transfer	August, 2011	January, 2013	September, 2014
Installation of internals	September, 2012	October, 2013	February, 2016
Commissioning	October, 2012	November, 2013	March, 2016
Status	Running smoothly	Running smoothly	Running smoothly
Economic Benefit (Rs. Cr/annum)	9.3	8.5	6.2
Payback Period (months)	<3	<4	<5