

Petrochemical, Crude Oil Refinery

Catalyst Recovery, India

Industry Sector:	Petrochemical
Application:	Catalyst Recovery - Pulse Jet Blow-Down
Products:	Sinterflo® F Sintered Metal Fibre Filters and Pulse Jet Blow-Down System
Primary Motive:	Enhance plant efficiency, cost reduction
Location:	India
Project Date:	August 2015



Customer Overview:

The Kochi Refinery was founded in 1963 as a publicly owned crude oil refinery, in the Indian state of Kerala. In 2006, it was acquired by the Bharat Petroleum Corporation, which in 2014 approved and increased capital expenditure of around £480 million to upgrade the refinery.

With a current production capacity of 9.5 million metric tonnes a year, the refinery aims to increase to 15.5 million metric tonnes a year by 2018.

Customer's Problem:

The equipment is required as part of the Kochi refinery's integrated expansion project, which is designed to lift the refinery's crude processing capacity significantly up until 2018.

Porvair Solution:

Porvair Filtration Group supplied Sinterflo® F sintered metal fibre filters as part of a pulse jet blow-down system, to provide effective emission control to help the site achieve its environmental requirements of less than 50mg/Nm³ particulate emissions.

Project Overview:

By the end of 2015, Porvair Filtration Group delivered and installed components for the pulse jet blow-down systems, used for recovering and containing catalyst fines.

The system components include spent and fresh hopper vessels, pulse jet valves and reservoir, tube sheets and a control system for use with a timer or differential pressure transmitter.

The Sinterflo® F sintered metal fibre filters were designed to be easily cleanable on site and only require inspection or maintenance during annual shutdown.

Their performance is maintained using a filter configuration and cleaning control system that ensures smooth and consistent operation.

The order was executed by Porvair Filtration Group in partnership with GR Engineering and Engineers India Ltd in Mumbai.

Product and System Information:

- Pulse Jet Blow-down System
- Sinterflo® F Sintered Metal Fibre Filters

Other Opportunities:

Global Refineries