

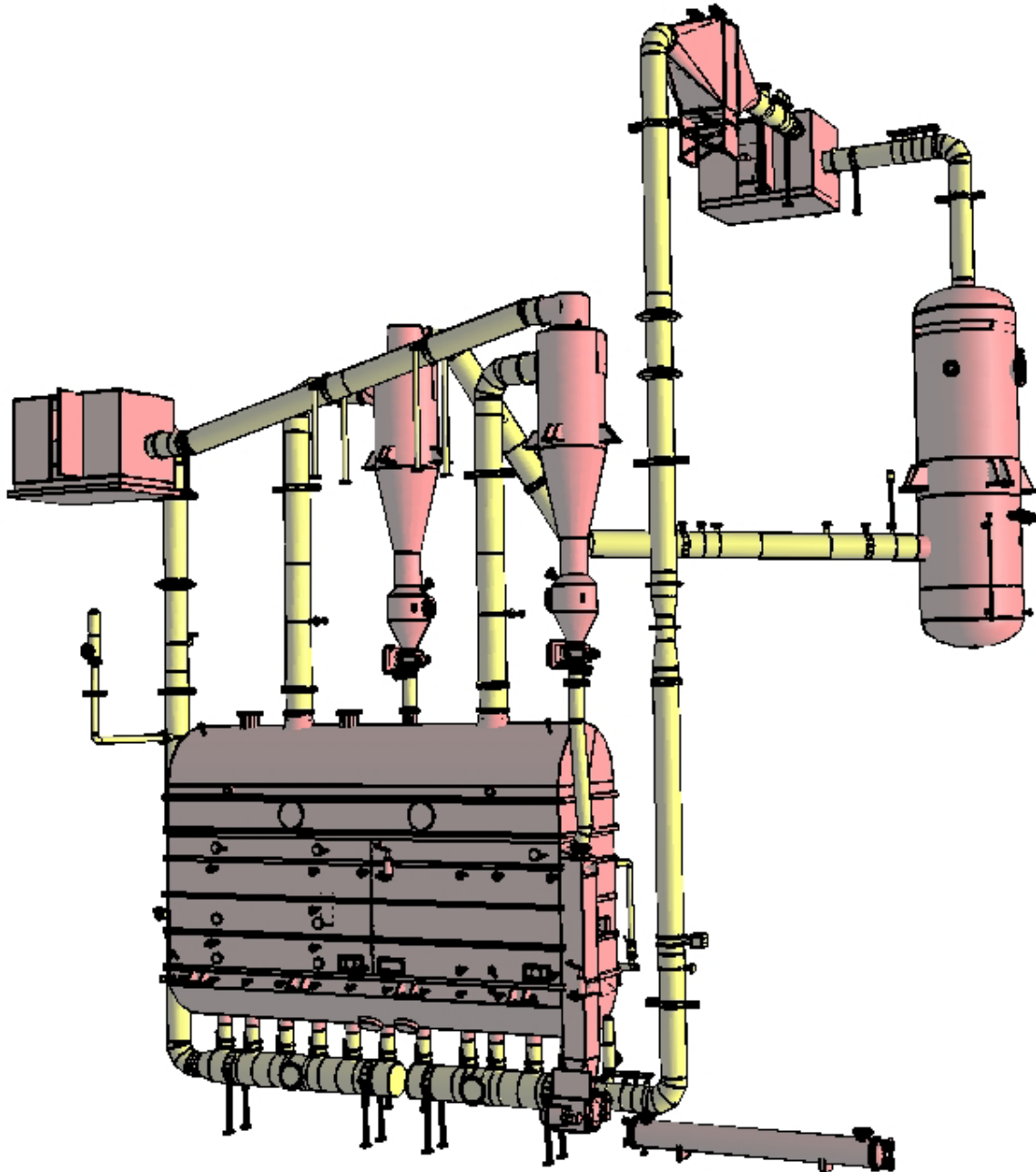
Reference Description Bandar Imam

HDPE Drying Plant
1 x HDC 1650/2100



General

In 1999, a contract was awarded to ANDRITZ by Uhde/Germany, one of the leading contractors in petrochemical business worldwide. The plant is located at Bandar Imam, Iran.



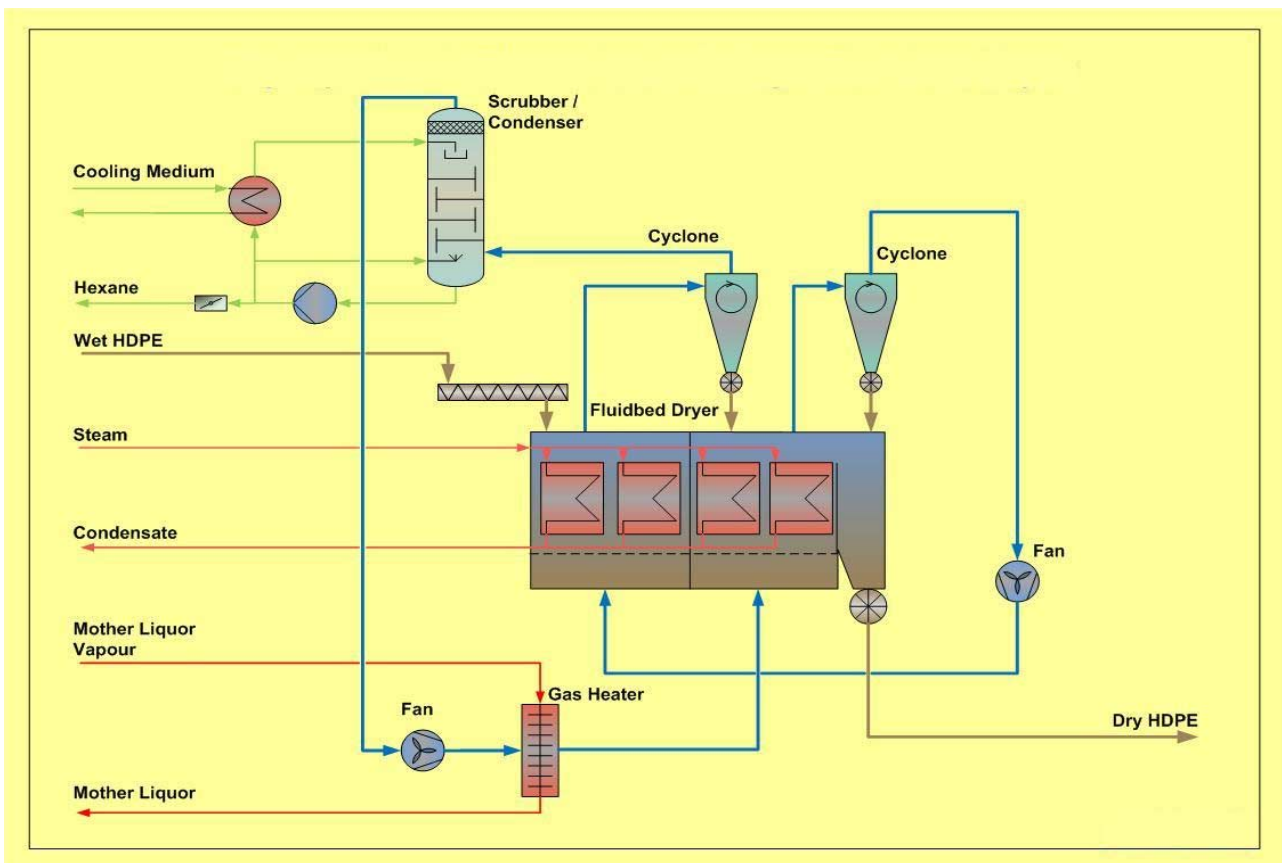
The plant is designed for a dry HDPE throughput of 22,000 kg/hr processed within 8,000 hours/year.

The plant comprises

- HDPE Fluid Bed Dryer
- Closed Nitrogen Loop Installation (Compressing, Heating, Dedusting and Scrubbing/Condensing)
- Scrubber Circulation and Cooling System
- Field Instrumentation
- Interconnecting Gas Ducting

As drying system supplier, ANDRITZ was responsible for the design, manufacturing and delivery of the related equipment including services for plant installation, commissioning, testing and take-over periods.

PFD of HDPE Drying System



The plant provides for the drying of HDPE generated in the hexane liquid polymerization reactors and dewatered in decanter centrifuges.

The wet HDPE cake is fed by two screw conveyors to the product receiving zones of the fluid bed dryer. The dryer works with double stage drying process with incorporated steam heated heat exchangers in the fluidized layer, first as back-mixing and second as plug-flow drying process. Each drying stage has its own compressing, heating and dedusting equipment included in the closed nitrogen loop installation.