Design and supply a complete incineration system for the destruction of industrial wastes generated at a large chemicals plant in Shanghai Chemical Industrial Park (SCIP), Shanghai, China.

**Capacity**
4,600 kg/hr of composite waste feed per line. The kiln and secondary have a combined heat release capacity of 14.9 million kcal/hr per line.

**Equipment**
For the Project, Metso supplied the following equipment and services:
- Engineering, design and supply of complete incineration system, feed to stack
- Local manufacturing of major equipment fabrications
- Automatic feeding systems for sludges, waste liquids, bulk solids and containerized solids
- Rotary kilns – two (2) 3.8 m diameter x 15.24 m long
- Secondary combustion chambers – 2+ seconds retention time at 1100 °C
- Wet ash removal systems, drag chain conveyor type
- Water tube heat recovery boilers, two (2), each producing 14,000 kg/hour at 28 barg, 280 °C superheated steam at rated capacity
- Emission control systems – dry treatment process, followed by a wet treatment process. The dry portion consists of conditioning tower, dry lime injection, activated carbon injection and a fabric filter. The wet treatment that follows includes a two-stage wet scrubber, followed by a particulate removal stage for submicron particulate created by reactions between acid and basic components in the gas stream.

- Refractories, ducting, exhaust stacks
- Control systems, instrumentation, Continuous Emission Monitors (CEM)
- Erection and start-up assistance