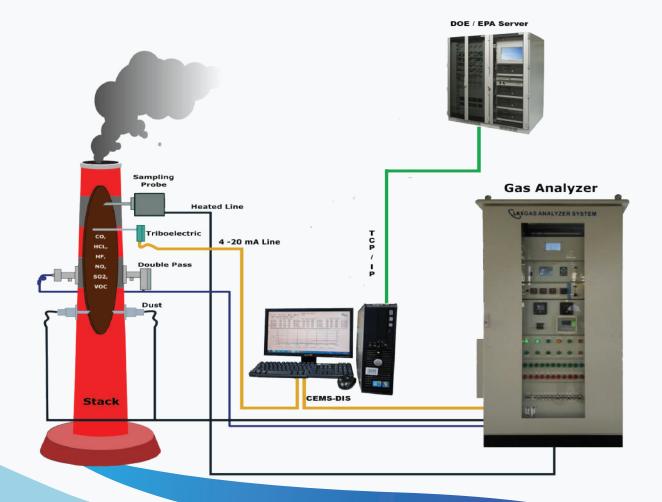
CEMS - Cement Plant

Source Capacity

- Cement Kilns (all sizes)
- Glass Furnaces (≥1 ton/day)
- Rotary Furnaces (≥1 ton/day)
- Ceramic Furnaces (>10 ton/day)

Type of CEMS Analyzer

- Extractive Gas Analyzers
- Insitu Gas Analyzer
- Particulate In-Situ Analyzer









Emission Limit Value for some of the source sector required CEMS

Source Activity	Source / Capacity / Fuel Type	Pollutants	Limit Value (mg/m ₃)
Non-metallic Cement Production (All Sizes)	Cement Kiln	NO ₂ Total PM	800 50
Manufacture of glass including glassfibre with a melting capacity ≥ 1 ton of product per day	Glass Furnaces	SO ₂ NO ₂ Total PM	800 800 50
Manufacture of ceramic products by firing, roofing tiles, bricks, refractory bricks, tiles ceramic glass, stoneware or porcelain,	Rotary furnaces for the manufacure of hard quicklime or sintering dolomite	NO ₂ Total PM	1500 50
with a production capacity ≥ 10 tons of product per day	Ceramic Furnaces	Total PM; where dust load emitted ≥ 2.0kg/hour	50

DOE / EPA Requirements

- \bullet Listed appointed and approve company in DOE / EPA website
- TUV / MCERT Certificate
- Data Acquisition System (DAS)
- Data Interface System (DIS)

Gas & Dust Analyzer Working Principle

Parameter	Principle	Sampling Type
Sulphur Dioxide (SO ₂)	NDIR, NDUV, GFC, FTIR, PAS, Fluorescence	Extractive
	DOAS, GFC, FTIR	Insitu
Nitrogen Dioxide (NO ₂)	NDUV, PAS, Fluorescence	Extractive
	DOAS	Insitu
Total PM / Dust	Light Scatter Beta Absorption	Extractive
	Transmissionmetry / Triboelectric Double Pass, Single Pass	Insitu