

 **Chemitrols**
Industries Limited

From Monitoring to Management of Processes, Utilities and Environment

Chemtrols established its Analytics Division in 1992 to provide solutions to Process / Stack / Ambient Analysis, as a totally integrated system and under a single point responsibility. We are one of the few companies in India, having developed an in-house expertise in Analytics. This position has been earned through its qualifications in technology upgrade, engineering, project execution and rendering quality services.

Process Analysis

Designed, engineered, supplied, installed and commissioned many Analyser Systems to various industries like refineries, petrochemical, chemical, fertilizer, power and cement plants in India and abroad. Such projects involve, taking a turnkey responsibility for Application data review, Engineering, Construction, Integration and Installation in Analyser House,



Continuous Emission Monitoring

Supplied optimum solutions to the measurement and monitoring of various pollutants like SO_2 , NO_x , CO , CO_2 , NH_3 , HCl , HF , THC , Mercury, etc. Based on the vast experience gained in such systems, Chemtrols today provide solutions on technology platforms of either Dilution Extractive or Hot Extractive or In-situ measurement.

Ambient Air Quality Monitoring

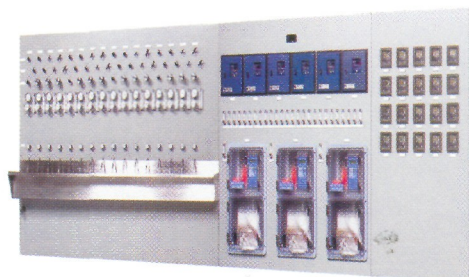
Delivered wide range of solutions to meet Ambient Air Quality Monitoring Systems (AAQMS) from single analyser to complete turnkey solutions. These could either be Fixed Stations or Mobile Vans.

Product Quality / Blending

In addition, we have supplied various analyser packages for blending of motor fuels (MS & HSD) consisting of NIR, total sulphur, physical property, viscosity and density measurement. Analysers delivered were complete with sample probes, skids, sample conditioning systems, validation systems and sample recovery systems.

Steam and Water Analysis

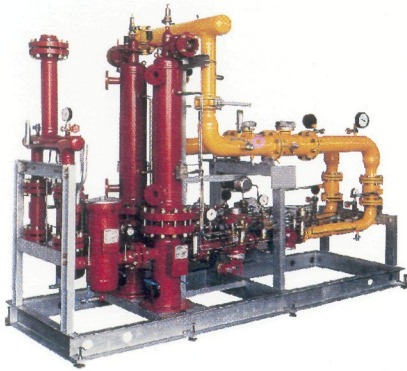
We have expertise to provide solutions for accurate measurement and monitoring of Silica, Sodium, Phosphates, Calcium, Chlorides, pH, Conductivity etc. to assure safety of Boilers and Turbines. Chemtrols uniquely designed Boiler Blow-down systems, increases the efficiency of the Boilers.



Flow Metering & Custody Transfer

By virtue of partnership with various leading global Flow Instrumentation companies, Chemtrols is uniquely placed as the solution provider for liquids and gas Flow Metering Systems. The groups' competitive edge lies in its flexibility & ability to seamlessly integrate the components of flow metering and control with its skid manufacturing facility, to meet the demands of the Oil & Gas industry.

We manufacture a wide range of Gas Metering Skids conforming to relevant AGA Standards and Liquid Metering Skids complying with the relevant API regulations at our state of art manufacturing set-up. These include Natural Gas metering skids, Pressure reducing/ regulating skids with Filtering & Gas Heating, Odourising skids etc. and Liquid metering skids in Oil & Gas Industry, using various flow measurement technologies.



Terminal Automation

We have executed terminal automation projects of Truck & Wagon loading of MS, Diesel, ATF, Naphtha, SKO, Furnace Oil, DHPP, LPG, etc. conforming to OIML R117 and have developed in-house project management and execution strength for such jobs.

Security Surveillance

We also deliver solutions for security surveillance, CCTV, Access Control systems for public utilities, oil depots and terminals.

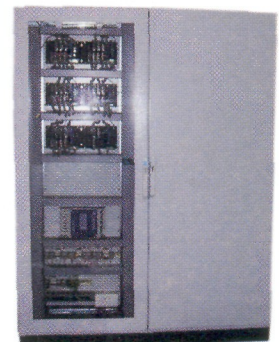
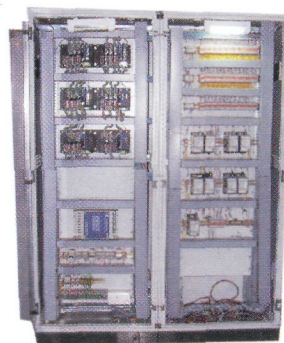
Gas Detection

We are also a leading solution provider for Gas Detection Systems and have successfully executed various projects for Refineries & Offshore platforms.

SCADA System

Chemtrols provide integrated solutions to understand the demand for energy and provide solution to optimise it with the available resources.

Our RTU and SCADA/ EMS/ DMS solutions integrate the substation, feeder and field input data with management information system.



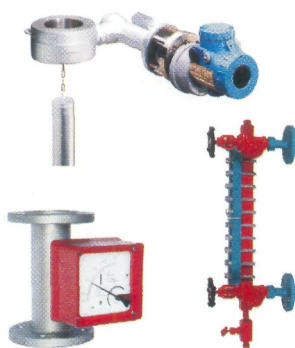
Sub-Station Protection & Control System

For various types of Electrical Networks & for specific requirement of the utility.

Chemtrols RTU/ Bay control unit meet the specific safety and protection, EMI & EMC Norms.

Process Variables

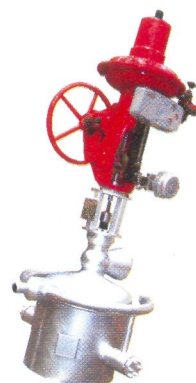
As a leading company in Control and Instrumentation, we offer a wide spectrum of solutions based on various measurement technologies. These include sensors, switches and transmitters for process variables like Level, Flow, Temperature and Pressure for Liquids and Gases.



- Acclaimed leader for manufacturing of Magnetic, Transparent and Reflex type Level Gauges, Level Switches (Displacer / Float operated).
- Displacer Level Transmitters from Chemtrols are HART and FOUNDATION fieldbus™ compatible.
- Nucleonic Level, Density and Interface measurement systems, based on gamma radiation for non-contact measurement.
- Temperature elements like RTD & Thermocouples, Switches and Transmitters are with a wide range of connection fittings and Thermowell assemblies. Specials for winding and bearing temperature measurement are also available.
- Variable area flow meters (metal tube rotameters) manufactured by Chemtrols, meet stringent application of Chemical & Petrochemical plants.

Steam / Fluid Handling

- We manufacture & supply control valves for handling a variety of Process Fluids, both liquids and gases.
- We design & manufacture complete range of De-super heaters, Pressure Reducing & De-superheating Systems (PRDS) for steam, including interconnecting Piping in CS / P11 / P22 with all instruments, Valves, manifolds, Temperature and Pressure Control loops.
- Chemtrols PRDS / De-super heater are available with CE marking.



Environment Engineering

- Chemtrols is also specialised in Design, Engineering, Execution, Operation and Maintenance of Waste to Energy Plants.
- Environmental projects such as Effluent treatment plants and Gas Washing systems are also executed for various industries through associate company Envirex India Pvt. Ltd.

Services & Training

Service support is an important part of Chemtrols Philosophy. We continue to keep our focus on the rendering prompt and efficient after sales services, for all products and solutions and also offer trainings on products, operations and services.



Chemtrols Industries Ltd.

From Monitoring to Management of Processes, Utilities and Environment

Founded in 1975, we are a leading solution provider for measurement and control of various process parameters like Level, Flow, Pressure, Temperature, Process Analysis, Environment Monitoring, Liquid and Gas Flow Metering for Custody Transfer and Distribution along with associated SCADA systems. In addition, Chemtrols is also into other diverse fields like electrical network management systems, WWTP & Bio-energy plants.

Long and good relationships with customers and partners have helped us to build a strong position in engineering and instrumentation services. As a specialised solution provider, we serve companies in various industries like Oil & Gas, Refining and Petrochemicals, Chemicals, Fertilizers, Pulp and Paper, Coal and Gas based Power Generation, Power distribution and Network Management, Pharmaceuticals, Mining and Minerals and Water & Waste Water Management.

We have successfully executed projects and delivered products to various industries in all major markets. With many executed contracts of ONGC, GAIL, IGL, GSPL, IOCL, BPCL, HPCL, Reliance, NTPC, MSEB, RSEB, GSFC, GNFC, RCF, ACC, Ultratech, Ambuja, NMDC, SAIL, Tata Steel, Essar, L&T, Hyundai, Punj Lloyds and having worked with major consultants like Engineers India, PDIL, Bechtel, Daelim, TOYO, Aker Kaverne, UDHE, Linde, Lurgi, Lummus, Technip etc., just to name few, we stand committed to serve the Industry needs and our customers.

Our endeavour is to strengthen partnerships with customers, drive forward improvement efforts at all levels of the group and stimulate free movement of expertise between personnel. We focus on clear understanding of the project's scope, adopt a systematic approach, define the methodology and facilitate its rapid implementation.

Our credo has been to identify and serve the changing needs of clients. We strive to add value to our clients businesses through monitoring and management of processes, utilities and environment.

LEARN MORE ABOUT CHEMTROLS



ANALYTICS

- Process Analyser Systems
- Physical Property Analyser System
- Continuous Emission Monitoring
- Ambient Air Quality Monitoring



MEASUREMENT

- Process Parameter Measurement
- Pressure Reducing & De-super heating Systems
- Temperature Elements & Transmitters



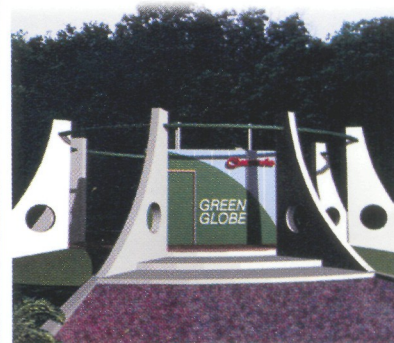
NETWORK MANAGEMENT

- Network Management
- Supervisory Control & Data Acquisition systems



FLOW & AUTOMATION

- Flow Metering and Proving Systems
- Liquids & Gas Metering Skids
- Terminal & Tank Farm Automation
- Combustible and Hazardous Gas Detection Systems



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