

# Integrated Instrumentation Solutions for Measuring, Monitoring & Control of Process Control Applications, Utilities and Environment.

# **Product Portfolio**

**Chemtrols Industries Ltd.** is a leading solutions provider in Process Analytics, Continuous Emission and Environment Monitoring, Terminal Automation, Flow Metering & Custody Transfer Systems, Process Control Instruments, Steam Engineering solutions, and Utility Management Systems. As a specialized service provider, we cater to various industries like Cement, Steel, Oil & Gas, Power, Fertilizer, and Chemicals & Petrochemicals.

- ISO 9001 certified and accredited by international agencies like ATEX, CE, PED, ASME etc.
- Manufacturing locations in Goa, Rabale (Navi Mumbai) and Ambernath (Near Mumbai) in India
- State of Art Manufacturing facilities, with more that 1,25,000 sq. ft area
- In house strength of R&D, Process knowledge and capability to offer turnkey solutions
- Qualified & Expert Engineering workforce, spread nationwide through our network sales & service offices
- Presence in Sharjah and spread world-wide though partners



#### Analytics

- Process Analytics
- Ambient Air Quality Monitoring Systems
- Continuous Emission Monitoring Systems
- Flame & Gas Detection Systems

#### Terminal Automation

- Wagon & Truck Loading
- Security Surveillance : CCTV & Access Control Systems
- Tank Farm Management & SCADA

#### Metering and Measurement

- Flow Metering Skids for Liquids and Gases
- Flow Meters : Magnetic, Rotameters,
   Coriolis, Ultrasonic for Liquids & Gases
- Level Transmitters & Switches: Displacer, Admittance, Gauges, Nucleonic, Paddle, Diaphragm type
- Density Transmitters : Nucleonic, Coriolis and Vibrating tube type

#### Metering and Measurement

- Temperature: RTD's, T/C, Multi-point, Thermowells, DIN, Head Field mounted Transmitters
- Radiometric non-contact measurement:
   Continuous level, Interface Level/Density,
   Continuous Weight Measurement, Point Level,
   Density, Mass Flow.
- Gas Regulators for Natural Gas : Self acting Direct & Pilot operated
- Mechanical High Pressure Sampling Systems

#### Steam Engineering Solutions

- PRDS & Dump PRDS
- De-Superheaters
- Turbine Bypass Valves
- Control Valves for Steam and Water

### Utility Management Systems

- Power Grid Network Management
- Power Distribution Network Management
- SCADA Monitoring & Control
- RTU's and FRTU's for Substation and RMU's



## In-house Manufactured Product Portfolio at CIL Goa/ Rabale/ Ambernath - India

| S.<br>No. | Business Unit<br>Responsibility | Name of Product  | <b>Details</b>   |
|-----------|---------------------------------|--|--|
| 1.        | ANALYTICS                       | PROCESS ANALYTICS www.chemtrols.com                            | <ul> <li>Turnkey, EPC, Integrated Solutions for</li> <li>⇒ Product Quality &amp; Blending Analyzer Systems (Physical Properties)</li> <li>⇒ Analyser Packages, Shelters, Integrated Solutions including Sampling Conditioning and Sample Disposal</li> <li>⇒ Steam and Water Analysis (SWAS)</li> <li>⇒ Process Analytical Product Solutions</li> </ul>  |
| 2.        | ANALYTICS                       | CEMS Continuous Emission Monitoring Systems www.chemtrols.com  | Turnkey, EPC, Integrated Solutions for  SO₂, NOҳ, CO, CO₂, NH₃, HCL, HF, THC, Hg Analysers.  Systems based on Dilution  Systems based on Hot-Wet Extraction or Cold Dry Extraction  In-Situ Instruments  Data Acquisition & Handling Systems  Particulate Emission Monitoring Systems based on  Transmissiometer  Scatter light  Ultrasonic Stack Flow meters  |
| 3.        | ANALYTICS                       | AAQMS Ambient Air Quality Monitoring Systems www.chemtrols.com | <ul> <li>Turnkey, EPC, Integrated Solutions for</li> <li>SO₂, H₂S, NO₂, NH₃, CO, CO₂, O₃, HC, BTX Analyser, Benzene, Toluene, Xylene, HCL, HF, THC, Hg analysers</li> <li>Particulate Monitoring – TSP, PM2.5, PM10</li> <li>Sampling &amp; Calibration Systems, Meteorological Sensors</li> <li>Data Acquisition &amp; Management Systems, Analysers according to US EPA regulations</li> <li>Wireless Transmission &amp; Ethernet Connectivity &amp; Report Generation for Pollution Boards</li> </ul> |
| 4.        | ANALYTICS                       | FLAME & GAS DETECTION<br>SYSTEMS<br>www.chemtrols.com          | Turnkey, EPC, Integrated Solutions for  Flame & Gas Detection Systems with/ without SIL certified sensors & PLC conforming to IEC 61508 with SIL2 certified Hybrid Sensors, SIL3 Certified Controllers and wide ranges of Detectors based on applications. May it be Point IR Gas Detectors, Open Path IR Gas Detectors, Catalytic Detectors, Electro-chemicals Detectors, Metal Oxide Semiconductor Detectors, Flame Detectors, Photo Acoustic Detectors, Ultrasonic Gas Leak Detectors etc.            |
| 5.        | TERMINAL<br>AUTOMATION          | TRUCK & WAGON LOADING SYSTEMS www.chemtrols.com                | Turnkey, EPC, Integrated Solutions for Oil & Chemical Marketing Terminals involving  ➡ Flow meters as per OIML R 117, Batch Controllers, Flame & Gas Detection Systems  ➡ Tank Farm Management SCADA with SIL2 certified overspill level switches, approved with software integrated   |



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|-----------|---------------------------------|--|---|
|           |                                 |  | to TAS  Security Surveillance systems for Tank Farm and the Loading Bays with CCTV Access Controls Systems for Public Utilities, Oil Depots and Terminals.  Turnkey solutions including post supply CAMC and AMC.   |
| 6.        | Metering &<br>Measurement       | DISPLACER LEVEL TRANSMITTERS www.chemtrols.com                 | Buoyancy for Level, Density and Interface Measurement - Smart type [ In Collaboration with Foxboro-Eckardt, Germany ]   |
| 7.        | Metering &<br>Measurement       | MECHANICAL Closed<br>Loop Sampling System<br>www.chemtrols.com | Close Sampling System, Sample Coolers (In collaboration with UOP LLC/IPL)  [ In Collaboration with UOP/ LLC/ IPL ]  |
| 8.        | Metering &<br>Measurement       | METAL TUBE VARIABLE AREA (ROTAMETERS) www.chemtrols.com        | <ul> <li>Metal Tube Rotameters for Ex and non Ex applications for line sizes up till 4".</li> <li>With Current HART, SMART, PA, FF Transmitters.</li> <li>With Alarm Contacts, Namur Output</li> <li>Standard &amp; High Temperature versions</li> </ul>  |
| 9.        | Metering &<br>Measurement       | ELECTRO-MAGNETIC Flow<br>Meters<br>www.chemtrols.com           | <ul> <li>Electro-Magnetic Flow Meters with HR, PTFE Liners</li> <li>Line sizes from 15 mm up to 600 mm</li> <li>Compact, μP based with programming keys</li> </ul>  |
| 10.       | Metering &<br>Measurement       | TEMPERATURE<br>Sensors & Transmitters<br>www.chemtrols.com     | <ul> <li>Wide range of RTD's &amp; Thermocouples for various applications</li> <li>Thermowells: Bar Stock / Pipe &amp; Fittings</li> <li>Temperature Transmitters, DIN Rail, Head, Field Mounted, Ex-Proof with Display and Local Programming options.</li> <li>Multi-Point Temperature Elements</li> <li>Special application Temperature elements</li> </ul> |
| 11.       | Metering &<br>Measurement       | GAS REGULATORS www.chemtrols.com                               | <ul> <li>Natural Gas regulators Direct and Pilot Operated.</li> <li>Slam-Shut Valves</li> <li>Ratings up to ASME #300 class</li> <li>Line sizes from 25 NB to 100 NB</li> <li>Accuracy Class up till AC1</li> </ul>   |
| 12.       | Metering &<br>Measurement       | LOOP POWERD<br>INDICATOR<br>www.chemtrols.com                  | <ul> <li>μP based, Current Loop Powered Indictor with 16 digits resolution Display</li> <li>Data Logging with Date &amp; Time Stamping</li> </ul>   |
| 13.       | Metering &<br>Measurement       | METERING SKIDS<br>Liquids & Gases<br>www.chemtrols.com         | Natural Gas Metering & Conditioning Skids Liquids metering skids for Custody Transfer Application.  |



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|-----------|-----------------------------------|--|--|
| 14.       | Steam<br>Engineering<br>Solutions | DESUPERHEATERS PRDS TURBINE BYPASS VALVES CONTROL VALVES www.chemtrols.com | <ul> <li>Steam De-superheaters - Variable area Nozzle, Venturi, Pipe Multi-nozzle, Steam Assisted Multi-Nozzle Insertion type de-superheaters.</li> <li>Steam PRDS Skid Stations. Non-integral and Integral types, also with Integrated Water Control Valves.</li> <li>Combined PRDS.</li> <li>Control Valves for Steam and Water Services.</li> <li>Turbine Bypass Valves.</li> </ul> |
| 15.       | Chemtrols<br>SAMIL Range          | <b>LEVEL</b> www.chemtrolssamil.com  | <ul> <li>Float &amp; Displacer Level Switches</li> <li>Level Gauges – Reflex type, Tubular, Transparent &amp; Magnetic &amp; Bicolor Gauges for Level Indication in closed vessels</li> <li>Electronic Dum Level Indicator for Power Plants and Boiler Drums</li> </ul>  |
| 16.       | Chemtrols<br>SAMIL Range          | PLUG VALVES & DUAL PLATE CHECK VALVES www.chemtrolssamil.com               | <ul> <li>Sleeved &amp; Lined Plug valves, with options of Pneumatic or Electric actuators, Limit switches, Positioner etc.</li> <li>Dual plate check valves</li> <li>Sleeved Plug valves: Two Way, Three Way, Four Way, Fully Jacketed, Partially jacketed, Actuated Valves, Cage Control Valves, V-Port Valves</li> </ul>   |
| 17.       | Chemtrols<br>SAMIL Range          | DUST SUPPRESSION<br>SYSTMES<br>www.chemtrolssamil.com                      | <ul> <li>⇔ Dry Fog Dust suppression</li> <li>⇔ Plain water Dust Suppression system</li> <li>⇔ Cold Fog Suppression System</li> </ul>   |
| 18.       | Chemtrols<br>SAMIL Range          | GAS CONDITIONING<br>SYSTEMS<br>www.chemtrolssamil.com                      | <ul> <li>➡ Mill Water Injection Systems</li> <li>➡ Gas Cooling Systems for Top Cyclone</li> <li>➡ Cooler Water Injection Systems</li> <li>■ Gas Conditioning Towers &amp; GCT Water Spray System</li> <li>■ GCT Spray System Retrofits for Power Savings</li> </ul>  |
| 19.       | Chemtrols<br>SAMIL Range          | FLUE GAS CONDITIONING SYSTEMS www.chemtrolssamil.com                       | <ul> <li>Ammonia Flue Gas Conditioning Systems (AFGC)</li> <li>Dual Flue Gas Conditioning Systems</li> </ul>   |
| 20.       | Chemtrols<br>SAMIL Range          | FLOW ELEMENTS/ NOZZLES www.chemtrolssamil.com                              | <ul> <li>♥ Orifice Plates &amp; Assemblies</li> <li>♥ Flow Nozzles</li> <li>♥ Venturi Tubes &amp; Venturi Nozzles</li> </ul>   |
| 21.       | Chemtrols<br>SAMIL Range          | OTHER PRODUCTS www.chemtrolssamil.com                                      | Sight Flow Indicators, Instrument Valves, Manifolds, Siphons, Air Headers, Condensate Pots, Sample Coolers   |



## Principals Product Portfolio with exclusive marketing & service rights for INDIA

| S.<br>No. | Principal Company                    | Exclusive Marketing<br>Rights  | Details of Instruments marketed exclusively by CHEMTROLS in India   |
|-----------|--------------------------------------|--|---|
| 1.        | DREXELBROOK                          | AMETEK DREXELBROOKE U.S.A. www.drexelbrook.com                             | <ul> <li>♥ RF Admittance Point Level Switches &amp; Continuous Level Transmitters</li> <li>♥ Analyzers: Sludge Blanket Clarity Control Monitors</li> <li>♥ Cut Monitors, Water In Oil Analyzer, Dielectric Constant Monitor</li> </ul>                      |
| 2.        | AMETEK                               | AMETEK Process Analytics U.S.A. and Canada www.ametek.com                  | <ul> <li>♥ Tail gas, H₂S Analysers, SRU Analysers,</li> <li>♥ Hydrocarbon dew point analyzers,</li> <li>♥ Moisture Analysers</li> <li>♥ Laser based Analysers</li> <li>♥ UV/ IR Analyser</li> <li>♥ Total Sulphur Analysers</li> </ul>                      |
| 3.        | A Analysen-, Mess- und Systemtechnik | AMS<br>Germany<br>www.ams-dielheim.com                                     | <ul><li>♥ Calorific Value Analyzers (CV), Air Demand.</li><li>♥ Wobbe Index Analyzers</li></ul>   |
| 4.        | ATAC                                 | Analytical Technology and Control Limited U.K. (England) www.atacgroup.com | <ul> <li>♥ Physical Property Analysers for</li> <li>♥ Flash Point</li> <li>♥ Distillation</li> <li>♥ Single Point distillation</li> <li>♥ Viscosity</li> <li>♥ RUP, CFPP</li> </ul>   |
| 5.        | FLEXIM                               | Flexim Mesteknik,<br>Germany & Singapore<br>www.flexim.com                 | <ul> <li>Ultrasonic Clamp-on Flowmeters for Liquids (normal &amp; high temperature) and Gases.</li> <li>CONCENTRATION Measurement of Aggressive Liquids/ Chemicals using Clamp on Ultrasonic Flow Measurement technique.</li> <li>Refractometers</li> </ul> |
| 6.        | <b>FMC</b> Technologies              | FMC Energy Systems U.S.A. www.fmc.com                                      | ♥ PD Meters         ♥ Batch Controllers & Dosing Systems         ♥ Ultrasonic In-line Flow Meters for Liquids         ♥ DCV/ Set-Stop Valves  |
| 7.        | Foxboro Eckardt                      | FOXBORO ECKARDT GmbH<br>Stuttgart · Germany<br>www.foxboro-eckardt.com     | ♥ Displacer Buoyancy Type Level Transmitters  |
| 8.        | GENERAL MONITORS                     | General Monitors U.K. www.generalmonitors.com                              | <ul> <li>♥ Flame Detection Systems</li> <li>♥ Photo-acoustic Monitors</li> <li>♥ Ultrasonic Gas Leak Detectors</li> <li>♥ IR Open Path Gas Detectors</li> </ul>   |



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|-----------|--|--|--|
| 9.        | Guided Wave Process Analytical Chemistry | Guided Wave Inc. U.S.A. www.guided-wave.com  | <ul> <li>NIR and UV/Vis process analyzers for fibre optic based spectroscopy.</li> <li>♥ Clear View dB in-line VIS NIR process Analysers</li> </ul>  |
| 10.       | Heinrichs KOBOLD Group                   | Heinrichs GmbH & Co.<br>Germany<br>www.kobold.com  | <ul> <li>♥ Metal Tube Variable Area (Rotameters)</li> <li>♥ Glass Tube Rotameters</li> <li>♥ Coriolis Mass Flow Meters</li> <li>♥ Vortex Flow Meters</li> <li>♥ Ex-proof Electromagnetic Flow Meters</li> </ul>  |
| 11.       | MBA                                      | MBA Instruments GmbH<br>Friedrich-List -Str. 5<br>25451 Quickborn<br>Germany<br>www.mba-instruments.de | <ul> <li>♥ Rotating Paddle Type Switches</li> <li>♥ Membrane switches</li> <li>♥ Vibration paddle type Switches</li> <li>♥ Fluidisation pads</li> <li>♥ Conductivity sensor for light oil products</li> </ul>  |
| 12.       | Met One Instruments                      | Met One Instruments, Inc. U.S.A. www.metone.com  | <ul> <li>Dust Monitors, PM10, PM 2.5 for Ambient Air</li> <li>E Sampler, PM10, PM2.5</li> <li>FRM Sampler,</li> <li>Metrological Sensors like Wind Speed, Wind Direction, Temperature, Humidity, Barometric Pressure</li> <li>Solar Radiation, Net Solar Radiometer,</li> <li>Precipitation, Snow/Rain etc.</li> </ul>                             |
| 13.       | MOORE INDUSTRIES                         | Moore Industries Inc U.S.A. www.moore.com  | <ul> <li>♥ Temperature Transmitters</li> <li>♥ HART to Modbus Convertors</li> <li>♥ Power Supplies</li> <li>♥ FF Junction boxes and devices</li> <li>♥ Interface Devices</li> </ul>  |
| 14.       | žeto                                     | OPTEK Danulat GmbH,<br>Germany<br>www.optek.com  | Online Photometers for  Turbidity, Colour,  UV absorption  Concentration   |
| 15.       | CFENING YOUR WORLD                       | OSI (Open Systems<br>International) Italy<br>www.osi.com   | <ul> <li>Software applications to meet the real-time monitoring, control and resource optimization of utilities</li> <li>Remote Information Systems, IP-based Secure Remote Terminal Unit (RTU) for field telemetry</li> <li>Web-enabled hosted solutions for monitoring</li> <li>Graphical User Interface solutions to monitor network</li> </ul> |
| 16.       | remsdaq                                  | Remsdaq Limited U.K. www.remsdaq.com   | <ul> <li>♦ Integrated Security Solutions, Access Control, Fibre Optic PIDS,</li> <li>♦ SCADA,</li> <li>♦ Command, Control &amp; Communications</li> </ul>  |



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|-----------|---|--|--|
| 17.       | I RONAN ENGINEERING COMPANY                                     | Ronan Engineering Company USA www.ronanmeasure.com | Radiometric (Nucleonic) measurement systems that provide non-contact measurement solutions for the harshest environments |
|           |   |  | ♥ Continuous Level Measurement   |
|           |   |  | ♥ Point Level Measurement  |
|           |   |  | ♥ Interface Level/ Density Measurement   |
|           |   |  | ♥ Density Measurement  |
|           |   |  | Mass Flow Measurement  |
|           |   |  | 🔖 Continuous Weight Measurement.   |
|           |   |  | 🔖 Ex certified Annunciators  |
| 18.       | S SENSITION GAS EVOLUTION SAFETY AND SECURITY FOR A BETTER LIFE | SENSITRON SrI<br>Italy                             | Gas Detection Systems with/ without SIL certified sensors<br>& PLC conforming to IEC 61508                               |
|           |   | www.sensitron.com                                  | SIL2 certified Hybrid Sensors  |
|           |   |  | SIL3 Certified Controllers   |
|           |   |  | ♥ Point IR Gas Detectors,  |
|           |   |  | 🔖 Catalytic, Electro-chemical Detectors  |
|           |   |  | ♥ Metal Oxide Semiconductor Detectors  |
| 19.       | SICK  | SICK AG<br>GERMANY                                 | Process Gas Analysers IR, UV, TCD, FID, Paramagnetic,<br>TDLS  |
|           | Sensor Intelligence.  | www.sick.com                                       | ♥ Flare Gas Ultrasonic Flow Meters   |
|           |   |  | 🤝 Process Gas Ultrasonic Flow meters   |
|           |   |  | ♥ Bio Gas Ultrasonic Flow Meters   |
|           |   |  | 🔖 Ultrasonic gas flow meters for Custody transfer  |
|           |   |  | ♥ Dust Monitors  |
|           |   |  | ♥ Mercury Analysers  |
|           |   |  | 🔖 Emission Gas Analysers   |
|           |   |  | ▼ Tunnel Sensors   |
| 20.       | SIEMENS   | Siemens AG<br>Germany<br>www.siemens.com           | Gas Chromatographs   |
| 21.       | TELEDYNE ADVANCED POLLUTION INSTRUMENTATION                     | Teledyne – API                                     | Ship Ambient Air Quality Monitoring Analyzers  |
|           |   | U.S.A.   | Multipoint Calibrators   |
|           |   | www.teledyne-api.com                               | Sero Air Generators  |
| 22.       | LIOO  | UOP  |  |
| 22.       | Joh   | U.S.A.   | Stringin Fresoure Sampling Systems   |
|           | A Honeywell Company   | www.UOP.com  |  |



## Sales & Marketing Network in India and Dubai



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