

COMPANY PROFILE



CONTROL SYSTEMS ENGINEERING

TECHNOLOGY WITH COMMITMENT



ABOUT US

Control Systems Engineering (CSE) has emerged as one of the leading engineering firms since 1987, specializing in the field of design and implementation of Process Control and Industrial Automation systems. Since its inception, CSE has garnered the trust of companies across Pakistan, becoming a reliable partner in the successful integration of Industrial Control Systems and Process Instrumentation.

We are located in two big cities of Pakistan

- o **Head Office in Lahore**
- o **Branch office in Karachi**



Our core competency lies in our devoted and insightful team

Commitment to Quality

CSE is devoted to providing top quality products sourced from the best manufacturers specializing in industrial engineering, recognized globally for their excellence. Our commitment to quality is evident in our solutions oriented approach, ensuring customer satisfaction through outstanding reliability and performance.

AIM

At Control Systems Engineering, we aim to deliver comprehensive industrial automation solutions with exceptional services across all industries in Pakistan.

Our Complete Package Solution Includes

Design: Customizing automation systems tailored to your specific needs

Installation and Commissioning: Expert implementation and start-up of automation systems

Repair: Providing reliable repair services to minimize downtime

Spare Parts Inventory: Maintaining a robust inventory of spare parts to ensure quick replacements and continuity

ACTIVITIES

- Turn key projects (Electrical & Instrumentation)
- Marketing and Sales of Control and Field Instrumentation
- Design, Installation and Commissioning of Process Control Instruments
- Testing and Calibration of Control & Field Instruments
- Complete Solutions for Plant Automation (DCS, PLC and Field Instrumentation)
- Burners (Gas, Oil and Dual Fuel) & Combustion Control for Stacks
- Boilers & Furnaces Supply and Installation of Laboratory, Scientific, Analytical Equipment
- After Sales & Services



Clients



PRINCIPALS

Aisenberg®	Aisenberg (Eicmation) Germany	Globe Valves, Ball & Butterfly valves, Regulating Valve, Sanitary Valves, Diaphragm Valve, Electric Actuators,
AOP	AOIP France	IR Thermometer, Calibration Measurement, Data Acquisition System, Electrical Motor Control
Bentone®	Bentone, Sweden	Burners (Gas, Oil, Dual Fuel) Programmers, Flame Sensors and Accessories
	Baoyi, China	Kiln Shell Infrared Scanner and CCTV Monitoring System, etc.
	E Instruments, Italy	Flue Gas Analyzer, Portable & IR Thermometer
	EDIT France	Infrared moisture & Solid flow measurement system
	Fuji Electric, Japan	Process Controllers, Pressure Transmitters, Flowmeters, Gas Analyzers.
	Giussani SRL, Italy	Pressure, Temperature & Process Calibrator, Temperature Bath
	Krohne	Flowmeters, Level Transmitters, Temperature, Pressure, and Analytical Instruments
	Kelk	Globe Valves, Gate valves, Rotary Control Valve, Butterfly Valves, Linear Stem Motion Type Actuators,
	Optasense, UK	Distributed Acoustic Sensing System for Third Party Intrusion and Leak Detection
SCIYON	SCIYON	DCS, DEH, SIS (Safety Instrumented System), Actuator & Microgird System
	Vision TIR, Spain	Kiln Shell Scanner, High-Temperature Thermal Imaging Camera.
VAISALA	Vaisala, Finland	Online Refractometers, BRIXS/Concentration Measurement.
VENAS	Venas	Explosion Proof Lights etc.

E INSTRUMENTS



E Instruments is a manufacturer, distributor and service provider of Test Equipments and Portable Emission Analysers working in the industry since past 25 years.

E Instruments has a reputation for safety, durability and has very strict standards of quality the company has an ISO 9001:2008 quality system in place which covers every aspect of it's activity

CSE introduced E Instruments' Gas Analyzers in Pakistan and sold more than 500 units to different Industries

E Instruments Infrared Thermometers are also very successful in Pakistan and almost all Glass Plants and many Cement Plant are using these

PRODUCTS

Some of the Main Productions Include:

Combustion & Emission Analyzers Process Calibrators

Ecoline 1400

Portable Combustion Analyzer can be fitted with upto 4 electrochemical Sensors



Ecoline 1800

Portable Combustion Analyzer can be equipped with upto 8 Sensors



IR Thermometers Thermal Image Camera

Ecoline IR

Portable Combustion & Emission Analyzer Measures upto 9 Gases



IR Tech Pro 2200 Hand Held Infrared Thermometer



Fuji Electric System

Fuji Electric Systems has been one of the leading electric and instrumentation companies of Japan

Since 1994, CSE has been the exclusive representative of Fuji Electric Systems in Pakistan

CSE has sold thousands of transmitters, especially to Cement Plants, Sugar Mills, Oil & Gas, etc.

Fuji's Continuous Emission Monitoring System (CEMS) Gas Analyser is installed in approximately 75% of Cement Plants in Punjab & Sindh

Transmitters and Controllers are highly popular in various industries and we have successfully replaced many other brands with Fuji

Fuji Analyzer Projects in Cement Mills

CSE has been successfully selling Fuji's Gas Analyzers in a number of Cement plants across Pakistan

Some of the big names are Bestway Cement, Dewan Cement, Kohat Cement

Kohat Cement is proudly equipped with Analyzer systems from 2016 till now.

In 2017, CSE has successfully installed & commission Fuji Gas Analyzers in Bestway Cement and Dewan Cement.



PRODUCTS

Fuji specializes in the following products

Transmitters

- Pressure Transmitters
- DP Transmitters
- Level Transmitters
- Flow Transmitters



Micro Controller



Ultrasonic Flow Meter

Gas Analyzers

- Zirconia Oxygen Gas Analyzer
- Infrared Gas Analyzer



Fuji Instrumentation Projects

Client	Project / Product	Year
Interloop	Ultrasonic Flowmeter for Centralized Engineering	2023
Faisalabad Oil Refinery	Complete Package of Transmitters for Oil Refinery	2022
ICI Pakistan	Gas Analyzer	2022
Madina Steel Mills	Complete Instrumentation 70 Ton Boiler	2022
Gharibwal Cement Ltd	Zirconia O2 Analyzer	2022
ICI Pakistan	CO2 Process Gas Analyzer	2022
FD&C	Ultrasonic Flow Meter	2019
Flying Cement	Transmitter Package for Waste Heat Recovery Project	2019
ICI Soda Ash	Gas Analyzer	2017-18
Ramzan Sugar Mills	Complete Instrumentation for Distillery	2018
Madina Sugar Mills	Complete Distillery Instrumentation Unit #3	2018
Madina Sugar Mills	Complete Distillery & Boiler Instrumentation Unit #2	2016
Bestway Cement	Continuous Emissions Monitoring System (CEMS)	2015
Tandlianwala Distillery	Complete Instrumentation for Distillery	2014
Hunza Suagr Mills	Complete Instrumentation for Distillery	2013
Dewan Cement	Gas Analyzer	2013
Pakistan Steel Mills	Microjet Recorder	2011
Mustehkam Cement	Online Gas Analyzer	2008
Kohat Cement	Online Gas Analyzer	2008
Sui Northern Gas Pipeline	Supply & Installation of Pressure Transmitters	2008
Packages	Pressure Transmitters	2008
Gharibwal Cement	Pressure Transmitters	2007
Pakistan Steel Mills	24 Microjet Recorder	2005
Bestway Cement	Online Gas Analyzer for Kiln	2005

KROHNE is a world-leading manufacturer and supplier of innovative solutions for the process industry. Founded in 1921, this German based company, has a long standing reputation for excellence.

Since 2005, CSE has been the sole distributor of Krohne in Pakistan.

Our major achievements include successfully completing projects in some prominent companies such as Packages, Sitara Chemical, Fatima Fertilizer and PARCO to name a few, additionally we have provided comprehensive solutions to major distilleries including Tandlianwala Sugar Mills, Hunza Sugar Mills and Madina Sugar Mills.

Krohne flowmeters are renowned across various industries, including:

- Sugar Mills & Distilleries
- Oil and Gas
- Fertilizers
- Chemicals
- Cement
- Paper & Board
- Textile Plants



Our Service team has successfully installed and commission Coriolis Mass Flowmeter OPMASS 2400 in PARCO in 2019 and 2nd Phase WOP Project in 2022. Optimass 2400 is the world highest capacity Coriolis Mass Flowmeter for liquids and gases. With its twin or four straight tube design, the 2400 is ideally suited for custody transfer or fiscal metering in the oil and gas industry and bunkering operations.

It can also be used for bulk transfer applications with many other products such as syrup, molasses or raw chemicals up to 4,600 T/h / 169,000 lb/min. The 2400 features Entrained Gas management (EGM) for liquid applications, maintaining operation over a wide range for gas volume fractions and complex flow conditions.

PRODUCT RANGE OF THE KROHNE GROUP

VARIABLE AREA FLOW METERS



MAGNETIC FLOW METERS



CORIOLIS MASS FLOWMETERS



VORTEX FLOW METERS



www.csepk.com

TEMPERATURE MEASUREMENT



LEVEL TRANSMITTERS



Client	Project	Year
JDW Sugar Mills	Complete Distillery Instruments Project	2024
Fatima Fertilizer Company Ltd	Magnetic Flow Meters	2024
PARCO	Magnetic Flow Meters & Signal Converters	2024
K-Electric	Magnetic Flow Meter (for Generation Plants)	2024
Sitara Chemical Industries	Magnetic Flow Meters & Rota Meters	2023
Descon Engineering	K4 Project with supply of Mag. Flowmeters & Temp. Sensors	2023
Bulleh Shah Packaging Pvt Ltd	OCC Line3 Mag. Flowmeters Project for Pulp & Water	2022
Madina Steel Mills	70T Boiler Instrumentation Project with DCS	2022
Madina Distillery	Complete Distillery Instruments Project	2022
Intech Process Automation FZCO	Coriolis Mass Flowmeter for HSD & Mogas LDS wop Project	2022
ICI Pakistan (Soda Ash)	Boiler Level Indicator with High Pressure Transmitter	2021
RYK Mills Ltd	Complete Distillery & Bio Gas Instruments Project	2021
Fatima Fertilizer Company Ltd	Flow Meters	2021
PAChem Global Pvt Ltd	Instrumentation Package for Chemical Plant	2020
Indus Sugar Mills Limited	Mag. Flowmeters & RTDS for FFE Automation Project	2020
Tandlianwala Sugar Mills	Bio Gas Tank Level measurement Project	2019
Intech Process Automation FZCO	Coriolis Mass Flowmeter for HSD & Mogas LDS Project	2019
Masood Textile Mills	Mag. Flowmeters for Water & Waste Water pipeline	2019
Bestway Cement	Vortex Flowmeters for Air Flow measurement	2018
Ramzan Sugar Mills	Complete Distillery Project with Instrumentation & DCS	2018
Madina Sugar Mills	Complete Distillery Project with Instrumentation & DCS	2018
OGDCL	Dakhni Level Transmitters Replacement Project	2018

Client	Project	Year
Shah Murad Sugar Mills	Complete Distillery Instruments Project	2017
Pak Ethanol	Complete Distillery Instruments Project	2017
Madina Sugar Mills	Complete Distillery & Boiler automation Project with DCS	2016
Nishat Group	Mass Flow Meter	2015
Tandlianwala Sugar Mills	Complete Distillery Project with Instruments	2014
Nishat Mills Ltd	Vortex Flowmeters for Steam & Gas Flow measurement	2013
Interloop Limited	Vortex Flow Meters (For Air, Steam & RAW water	2013
Hunza Sugar Mills (Pvt) Ltd	Complete Package of Magnetic, Level & Transmitters	2012-13
Lotte Pakistan PTA Ltd	Mass Flow Meters	2012
Shahmurad Sugar Mills	Complete Package of Flowmeters	2010
Fatima Fertilizer Company Ltd	Magnetic Flow Meters	2010
MOL Pakistan Oil & Gas CO B.V	Ultrasonic Flow Meter for Gas measurement	2009
Fauji Fertilizer Company Limited	Magnetic Flow Meters & Magnetic Level Indicator	2008
Fatima Sugar Mills Limited	Magnetic Flow Meters	2008
OGDCL	Magnetic Level Indicators	2008
Prescon Descon International Ltd	VA Flow Meters	2008
Packages Limited	Supply of 400 Mag. Flowmeter for Pm7 Paper Machine	2007-08
Pakarab Fertilizers (Pvt) Ltd.	Magnetic Flow Meters	2007
Fauji Fertilizer Bin Qasim Limited	Package of Flowmeters & Parts	2007
Sitara Peroxide Ltd.	Complete Instruments for Hydrogen Peroxide Plant	2006
Unicol Limited.	Distillery Project with Flowmeters & Level Transmitters	2006
Packages Limited	P.M 6 Flowmeters for Pulp & Water	2006

DCS In Pakistan

CSE and Supcon partnered in 2005 for almost 12 years and have successfully commissioned a number of DCS/ PLC projects all over Pakistan in Industries such as Sugar, Cement, Chemical Pulp & Paper, Power plants etc.

The first DCS project was commissioned in M/s Sitara Chemical Industries Limited in 2006 which was a 200t/d Caustic Soda project.



Bestway formerly known as (MCL) DCS revamping project is the biggest project of CSE in Pakistan till now. We offered the latest developed WebField ECS-100 DCS consisting of 7 Control Stations, 9 Operator Stations, 2 Engineer Station, and 2 redundant Data Servers. The total I/O quantity reaches to 6,954, and other 3,776 points were integrated in the system through Profibus DP communication interfaces.

SCIYON

CSE has now introduced SCIYON's DCS in Pakistan. For past 30 years SCIYON has developed a range of products including DCS, PLC, SIS and more.

CSE has successfully installed SCIYON's DCS System in Matol & Madina Steel Mills.



DCS Projects In Pakistan

No.	Client	Project	Total I/Os	Year
01	Madina Steel Mills	DCS System for 70 Ton Boiler Automation	216	2023
02	Matol Distillery	DCS System for Distillery	530	2022
03	Madina Sugar Mills	Shifting of E.D.U Section (Distillery)	300	2021
04	Madina Sugar Mills	DCS System Extension for FFE 6 Nos.	256	2021
05	Madina Sugar Mills	FFE's / Boilers	1100	2018
06	Ramzan Sugar Mills	Distillery Unit I	1980	2018
07	Madina Sugar Mills	Distillery Unit III	1292	2018
08	Ittehad Chemical Ltd	IEM-III	1654	2017
09	Al Noor Oil Termianl	Oil Tank Level Management System	420	2016
10	Madina Sugar Mills	100,000 Liter / day Distillery, Biogas & Boiler	1474	2016
11	Ittehad Chemcials	IEM-II Phase 2 Evaporation Plant	400	2016
12	Sitara Chemicals	DCS Monitoring for New Calcium Chloride Plant	408	2015-16
13	Wapda Muzzafargarh Unit 5	210 MW Power Plant - Up-Gradation	3300	2015
14	Nimir Chemicals Ltd.	25 TPD Caustic Soda Plant - Micro XL Upgradation	386	2015
15	Bestway Cement (Hattar)	4000 TPD Cement Line - S5 Up-Gradation	8500	2015

DCS Projects In Pakistan

No.	Client	Project	Total I/Os	Year
16	Ittehad Chemical Ltd	75 TPD Caustic Soda Plant IEM-II	956	2014
17	Shakarganj Sugar Mills Ltd.	35 T/H High Pressure Boiler & 3MW Turbine	222	2013
18	Sitara Chemical Industries	200 TPD Caustic Soda new plant	844	2013
19	Hattar Chemical Plant	Complete Plant automation using SUPCON DCS	27840	2012
20	Olympia Chemical Limited	Coal based 1*75 T/D Boiler DCS Project	704	2012
21	WAPDA Kotri Power Plant	174 MW Turbine Up-gradation Project	5952	2011-12
22	FARUKI Pulp Mills Ltd	Complete 200 T/D Pulp Plant Automation Project	3100	2011-12
23	Ittehad Chemical Ltd	VMS & Load Management System	166	2011
24	WAPDA Faisalabad Power Plant	Wapda Faisalabad 8*25MW Power Plant	5776	2010-11
25	Sitara Chemical Industries	Caustic Solidification Plant Unit IV	194	2010
26	Sitara Chemical Industries	M-IV 167T/D Ion exchange caustic soda with VMS	1150	2010
27	Bestway Cement Limited	Complete 3300 T/D Mustehkam Cement DCS Project	7500	2008
28	Dewan Salman Fiber Limited	80T/H Boiler DCS Project (Replace ABB System)	196	2008
29	Sitara Peroxide Limited	40,000T/Y Hydrogen Peroxide DCS Project	354	2007
30	Sitara Chemical Industries	BMR-II 210T/D Ion Exchange Caustic Soda Project	768	2006

OptaSense has grown to over 150 people, has filed about 120 patents and has offices across USA, Canada and Middle East. Utilizing fibre-optic cables that already run along most roads, railways, pipelines and seafloors, OptaSense uses Distributed Acoustic Sensing (DAS) to hear and feel the surroundings.



- The world's first Distributed Acoustic Sensing (DAS) pipeline leak detection
- The world's first DAS downhole acquisition project
- The world's first DAS downhole seismic acquisition
- The world's largest fiber-sensing rail monitoring project
- The world's largest fiber-sensing pipeline monitoring project

Company Milestones



OptaSense in Pakistan

Converts standard telecom fibre optic cable into a highly effective acoustic sensor over long distances.

Picks up sound via ground vibrations using:

Buried fibre

Interrogator Unit

User Display (map, charts, audio)



In 2017, Deployed Third Party Intrusion detection system in MOL Pakistan over their 34 Km Makori East pipeline from their Main Gas Facility to Makori Well Heads.



In 2018, we deployed Third Party Intrusion System and Perimeter Intrusion Detection System with CCTV Integration on their 42 Km Mardankhel Pipeline.

- In 2021, deployed TPI System in Existing Maramzai and Mamikhel Flow Line
- In 2021, Installed and Commissioned TPI Detection System on Manzalai Field and Trunklines

VENAS

Venas International Co., Ltd is a global leader in commercial and industrial LED lighting. Founded in 2008 in Guangdong, China, Venas is a LED industry pioneer in the design and manufacturing of linear LED T8 lamps.

Since that time, Venas has grown to be one of the highest volume manufacturers of all types of T8 and T5 lighting as well as a wide array of LED retrofit kits and luminaires for interior and exterior applications.

Most of Venas products are approved by ATEX and IECEx.

The Venas Hazardous Location series provides a complete range of certified explosion-proof lighting including fixed and portable work lights, flood lights, area lights, emergency lights, distribution panels, junction boxes, cable glands, etc

They are suitable for all kinds of Hazardous Locations including the petrochemical industry, chemical industry, food industry, mining locations, and many more.

PRODUCTS



Vaisala (K-Patents)

Vaisala K-Patents® Process Refractometers are used for inline liquid measurements to enable efficient process control and industrial automation. Vaisala is a global leader in measurement instruments and intelligence for climate action

Process refractometers became part of Vaisala in 2019, following the acquisition of K-PATENTS, a leading innovator with over 40 years of experience in designing and manufacturing industrial process refractometers to cater to a wide range of applications.

CSE has been working with K-Patents since 2003 as their exclusive distributor. CSE has installed Process Refractometers in Nestle, Nimir Chemicals and Faruki Pulp Mills. CSE provided NESTLE with their first K-Patents® Refractometer in order to measure the TDS content in their milk products.



Vaisala has been recognized in 2025's first edition of TIME's "World's Best Companies Sustainable Growth" study.

PRODUCTS

PR-23 GP for the General Industry

PR-23 SD with SafeDrive™ system for the Pulp & Paper Industry

PR-23 A Sanitary Refractometer for the food industry
PR-23 W for the Chemical Industry.



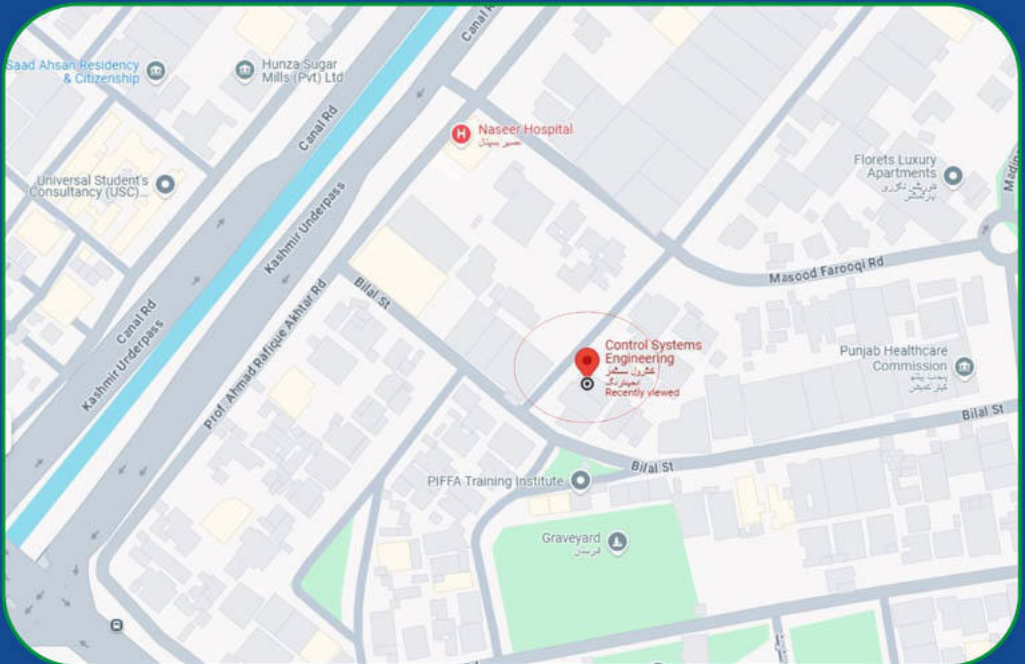
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