



ISO 9001:2008 Certified



MEC (PVT.) LTD.

A Process Instrumentation & Control Company





About Us: MEC Private Limited to cater solutions in the field of Industrial Process Automation and Control. The company can handle all needs of Process Industries including Oil and Gas, Petrochemical, Fertilizer, Sugar, Cement and Power Plants. Our scope of work includes Design, Installation, Commissioning, Maintenance Services etc.

Vision To be the most reliable name in the industry by adding values via top class management and providing engineering tailored solution.

Mission Country's leading company to provide complete solutions of Instrumentation and Control by backing with international quality services.

& Objectives The main objective of the company is to achieve the following in next two years.

- To Provide **One Window Solution** For All Requirements Of Process Industries to establish Yokogawa DCS and FI training center early in 2020.
- To establish Yokogawa Local FAT facility & DCS / FI Training center by early 2020



Our Capabilities: As far as capabilities of MEC are concerned, they are one of its kinds which are as follows:

- We provide complete Plant Instrumentation from DCS to Field instruments.
- We can monitor the projects from its inception; provide clients with all engineering and accounting records and reports.



A Training Provider: We can provide in house training on the following:

- Calibration, configuration and routine operations of Process Instruments.
- Control systems such as DCS, HCS and PLC.
- Special training programs are conducted on customer request, either at the customer premises or at MEC own training centers.

(If required, customers are also provided training at manufacturing location outside Pakistan.)



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MEC collaborated with the following renowned principals who are specialized in the products related to Petroleum, Oil and Gas, Chemical, Fertilizer, Power Plant, Sugar, Pharmaceutical, Food & Beverages etc.



Yokogawa is well regarded in the global marketplace as a leading control company and pioneer in the development of distributed control systems for the monitoring and control of processes in a broad range of production facilities. Based on Vigilant Plant, Yokogawa's vision for realizing the ideal plant, we are developing products and services that enhance productivity, make maximum use of plant assets, ensure safety, and optimize operations over the entire plant lifecycle. These solutions currently play vital supporting roles for our customers in the oil, chemical, natural gas, electric power, iron and steel, pulp and paper, pharmaceutical, food, and other industries. Yokogawa is also providing solutions based on its measurement and control technologies that make more efficient use of renewable energy and is devising new ways in which next-generation energy sources can be utilized to achieve a sustainable society.

In plants of all kinds, large numbers of Yokogawa products operate around the clock, contributing to economic growth, enabling the efficient use of energy and resources, and improving both productivity and product quality.

PRODUCTION CONTROL SYSTEMS – SCADA / DCS / PLC



DATA ACQUISITION – Recorders & Indicators / Controllers:



FIELD INSTRUMENTATION – Pressure/DP/Flow/Level/Temperature Transmitters & Flow Meters:



ANALYTICAL INSTRUMENTS – Analyzers & Gas Chromatographs:





Baker Hughes

GE's heritage in valve technology dates back to the late 1800s. With that heritage, an installed base of more than three million valves and well-known industry brands – Masoneilan and Consolidated, customers can count on our technology to protect their process assets. We bring our valve expertise, advanced design tools and modern manufacturing technologies to applications in oil and gas, power generation, refining, petrochemical and water control industries. To optimize valve installations, we offer valve asset management software and lifecycle support services.

Masoneilan

Control Valve – General Service



Control Valve – Severe Service



Level Transmitter/ Controller



Pressure Regulator



Instrumentation



Consolidated

Pressure Safety Valve



Pressure Relief Valve



Honeywell

Burner Control Systems

SLATE



Advanced Burner Controls



7800 Series Display Module



7800 Series Relay Modules



7800 Series Relay Modules





ENGRO FERTILIZER URUT-1 DCS UPGRADE

- URUT-1: DCS Retrofit Project
 - o Supply of YOKOGAWA CENTUM VP (R5).
 - o Project Engineering, Internal Testing & FAT (SINGAPORE).
 - o SAT, installation supervision & commissioning.
- AMMONIA-2: DCS Retrofit Project
 - o Supply of YOKOGAWA CENTUM VP (R6).
 - o Project Engineering, Internal Testing & FAT (SINGAPORE).
 - o SAT, installation supervision & commissioning.



PPL GAMBAT GAS FIELD

- DCS Centum CS3000 Relocation to Gas Field- 1 to Ghambat Gas Field 2



DESCON OXYCHEM LIMITED

- Complete DCS upgrade Project, Engineering, Installation and Complete Engineering



NATIONAL REFINERY LIMITED

- LUBE-1 Refinery DCS Project
 - FUEL REFINERY DCS project.
 - NRL UTILITIES: New DCS system, Existing Process
 - NRL UTILITIES SAFETY SYSTEM
- o Supply of YOKOGAWA CENTUM VP (R6)
 - o Supply of YOKOGAWA PROSAFE (R4).
 - o Engineering Design, Reverse engineering of Existing systems & Safety Systems Installation and Commissioning
 - o Internal Testing, On site testing & FAT (SINGAPORE).
 - o SAT, installation supervision & commissioning.



CHEVRON LUBRICANTS PAKISTAN LIMITED: DCS RETROFIT PROJECT

- Supply of YOKOGAWA CENTUM VP (R6) batching system.
- Project Engineering, Internal Testing & FAT (SINGAPORE).
- SAT, installation supervision & commissioning
- Post commissioning Services and support



PAKISTAN REFINERY LIMITED

BOILER 4

- Complete Engineering, Installation, commissioning and post commissioning services

DCS Centum VP Upgrade Project (In Progress)

- Existing DCS System Upgrade Project



OMV KADNWARI GAS FIELD

- RETROFIT Project, Installation and Commissioning



COASTAL REFINERY PROJECT

- Completed FAT according to the requirement of Strain Stall UK Ltd.
- Simulation Test, including transmission via receiver.
- Installation & Commissioning of load cell simulators, controllers, indicators, solar cells & electric panels.



JDW – 26 MW POWER PLANT (USM) JDW – 26 MW POWER PLANT (GSM)

- Supply of YOKOGAWA CENTUM VP (R5) & field instrumentation.
- Project Engineering, Internal Testing & FAT (SINGAPORE).
- SAT, installation supervision & commissioning.



JDW – SUGAR MILLS (USM)

- Supply of YOKOGAWA CENTUM VP (R5) & field instrumentation.
- Project Engineering, Internal Testing & SAT.
- Installation & commissioning supervision.



SHAHMURAD INDUSTRIES

Shahmurad Distilleries:

- DCS system replacement of existing Distillery.
- New System Installation, engineering and commissioning
- Erection, installation and commissioning of complete plant.



Shahmurad Sugar Mills Boiler Automation

- Supply of Honeywell Hybrid Control System (HC900) with Plantscape Vista Supervisory Software.
- Supply of Honeywell field instrumentation & control valves.
- Complete erection, installation and commissioning of field instrumentation and control system.



CHASHMA SUGAR MILLS – DISTILLERY, BOILER & BIOGAS HUNZA SUGAR MILLS – DISILLERY, EDU, BOILER & BIO GAS

- Supply of YOKOGAWA CENTUM VP (R5).
- Supply of YOKOGAWA field instrumentation and GE control valves.
- Project Engineering, Internal Testing & FAT.



UTP Turk Gas Field Project

- Complete erection, installation and commissioning of instrumentation and control products.



SSGC Moseley Project

- Complete installation and commissioning of block valves, gas chromatograph and control system.
- Installation of Flow Boss, Smart Multivariable Pressure & Temperature Transmitters.
- Installation of SCADA system, at their several remote locations.



Hubco Power Plant

- Supply of Hydra step (Boiler Level Control).
- Erection, installation and commissioning of all four Boilers Level Control System.



Bosicor Pakistan Ltd. (Oil Refinery 30000 B/D)

- Refurbishment of complete plant instrumentation & control.
- Erection, installation and commissioning of complete refinery instruments.
- Maintenance contract (14 months).



SSJD BIO PROCESSOR

BENZ MAIZE PRODUCTS INTERNATIONAL (IN PROGRESS)

Al- Abbas Industries

Sugar Mills, Ferrol Alloy, Distilleries Project I & II, CO2 Plant, Medium Density Fibre Plant

- Supply of complete field instrumentation & Honeywell DCS.
- Complete electrical work with material.
- Complete reverse engineering.
- Boiler Automation
- Erection, installation and commissioning of complete plant (Electrical and Instrumentation).

Boiler Automation (Supply, Installation and Commissioning) of 20, 40, and 80 Ton Boilers

- Al-Noor Sugar Mills Ltd.
- Dewan Sugar Mills Ltd.
- Mehran Sugar Mills Ltd.
- Abadgar Sugar Mills Ltd.
- Shahtaj Sugar Mills Ltd.
- Khairpur Sugar Mills Ltd. And many others.



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