TOTAL SOLUTIONS GROUP

SMART SOLUTIONS
FOR A STRONGER
TOMORROW

Your Complete

Industrial Partner



- DESIGNING
- INSTALLATION
- HVAC SYSTEM
- MAINTENANCE
- BMS
- ENERGY
- CIVIL WORKS
- PLC
- PROGRAMMING & CONTROLS
- INDUSTRIAL SUPPLY

ONE GROUP MULTIPLE SOLUTIONS

About Us

Industrial Excellence
is Our Commitment

MEC - Industrial Total Solution is a trusted name in the industrial sector, providing comprehensive solutions for your business needs. We specialize in engineering, installation, maintenance, and advanced industrial services to ensure efficiency, safety and long-term performance.

With a skilled team and modern technology, we turn your industrial challenges into reliable solutions.

Safety First

Quality Work

Long Term Partnership



Our Sister companies

Part Of MEC Group

Sister Company

Kazmah Regional Co.
شركة كاظمة الإقليمية

Kazmah Regional Company, Kuwait, serves as our parent company and brings over 30 years of experience across the GCC region, with operations and business activities extending beyond Kuwait to Qatar, Bahrain, and the UAE.

Sister Company

EZAF INNOVATION

EZAF Innovation (Pvt) Ltd is a Pakistan-registered private company that provides business management, corporate strategy, and technology integration solutions. The firm helps enterprises scale through digital transformation, administrative consulting, and structural operational support

Sister Company

KRC
TOTAL SOLUTION

KRC Total Solution Pakistan is an engineering and industrial automation company specializing in PLC/SCADA control systems and BMS platforms. The firm helps global enterprises scale through hardware design, electrical works, and infrastructure support

Irfan Ul Hassan

HVAC Specialist & Tech Educator



He started his career as an A/C Technician after qualification of 3 years diploma certification. After 3 Years experience he realized HVAC advancement need time to time HVAC training to improve global energy issues. He designed easy composite visual based lecturer guide line book. Plus point he is unconventional thermal solution project designer like mega project in Refrigeration & Air Conditioning from 1 RT to 200 K RT with ultra low temperature like minus nitrogen plant which liquid 175°C for laboratory use. He believe HVAC field is based on integration management. Specially new advance chiller plant which helps to train management skills. Hi Tech Group of Company always welcome challenging projects with co company like,

- Kuwait Kazmah Center
- Kazmah Regional Company
- Hi Tech International

KEY ACHIEVEMENTS

- Can design, operate & transfer Projects by Smart Integration Management, with special expertise in training project coordinators.
- Largest cooling towers in Kuwait (Siemens).
- Largest Air Cooled Complex.
- Multi Purpose Air Cooling System.
- Ice Skating systems implementation.
- Mega Cold Storage setup.
- Nitrogen Ultra Low Temperature Plant (-175°C).
- Complete HVAC designing for Five Star hotels.
- Architecture of MWS & Advanced Smart Master & Sleeve, Remote control system.
- Received Special Achievement award for Multi Region Manager.
- Possesses advanced thermal solution designing skills leveraging both Liquid and Air mediums.

VISION AND MISSION

His Vision is "Respect Nature". LEED based, improved, Easy Entertaining Education for Everyone, specially for the new Comers, to be able to provide sustainable Cooling Solutions, without harming the nature. I would like to pay Special thanks to YOUTUBE AND GOOGLE as they have been very helpful for me in the process of the development of easy entertaining education. Where I was able to find helpful Images, Visual Presentations, Animations etc.



Mr. Farhan Alam

Driector Sales & Marketing

Mr. Farhan Alam is a seasoned HVAC leader heading our Sales & Marketing Division. With executive experience at Carrier, Orient Energy Systems, Sabro, Smart Climate, and Extreme Engineering, he brings unmatched industry expertise and strategic vision.

Core Areas of Expertise
Equipment & Systems: Chillers, Air Handling Units (AHUs), Fan Coils, Cooling Towers, and VRF systems.

Services: System Designing, Equipment Supply, Installation, and Turnkey Project Execution.

Under his direction, our division delivers energy-efficient, reliable, and custom-engineered climate control solutions tailored to complex industrial and commercial needs.



Mr. Unus Iqbal

Driector Engineering

Unus Iqbal Manager Engineering | Automation & Controls Specialist A results-driven Engineering Manager with over 10 years of experience in industrial automation, process control, and instrumentation. Known for exceptional problem-solving abilities, strategic project leadership, and a deep technical mastery of complex control architectures.

Educational Background: Holds a Master of Engineering (M.E.) in Automation & Controls (CGPA 3.9) and a Bachelor of Engineering (B.E.) in Electrical Engineering (Electronics) from Usman Institute of Technology.

Core Strengths & Expertise: Expertise in multi-brand PLC programming, HMI design, SCADA development, VFD and servo positioning, PID loops, and electrical control panel engineering (Siemens, Allen-Bradley, Mitsubishi, Weintek, Delta, Danfoss, Omron).

Mr. Habib Uddin

Driector Services



Mr. Habib Uddin is a highly experienced Engineering & Industrial Utilities professional with over 35 years of hands-on experience in heavy industrial utilities, factory equipment, cooling systems, and plant operations.

Throughout his career, he has worked with leading organizations including KRC Kuwait & KRC Pakistan, Gelcaps Pharma, Kaaf Engineers, MAXCO, Orient Textile, Adnan Textile, MECO Tex, and Al-Karam Textile.

His expertise covers Absorption & Vapor Compression Chillers, Dehumidification & Humidification Systems, Steam Boilers, Waste Heat Recovery Systems (WHRS), Air Compressors, and RO Water Treatment Plants. With extensive practical knowledge in operation, maintenance, and troubleshooting, he helps ensure industrial plants operate reliably, efficiently, and smoothly.

ENGINEERING EXCELLENCE CERTIFICATES





















ZERO Technologies is a leading global HVAC solution expert, offering high-quality and cost-effective solutions for residential, commercial, and industrial applications. With state-of-the-art production facilities, national testing labs, and a dedicated team of 70+ R&D engineers, we deliver innovative and reliable HVAC systems. Serving over 1,000 projects in 130+ countries through 80+ trusted distributors, ZERO stands for excellence, performance, and customer satisfaction — ensuring a seamless experience from design to delivery.

C°:

ZERO Degree Concept

"ZERO Degree" refers to the freezing point of water at 0°C (32°F), representing a starting point or transformation.

Z:

ZERO Is the Beginning

ZERO Problem/Worry/Defect In mathematics, ZERO represents both "nothing" and "infinity" suggesting boundless poal



Our Services

Comprehensive Industrial Solutions

HVAC System

Design, installation and maintenance of HVAC systems for optimal performance and energy efficiency.

BMS (Building Management System)

Smart control and monitoring solutions for modern buildings and industries.

Power

Electrical systems, power distribution and energy management solutions.

PLC & Programming

Automation and control systems for increased productivity and precision.

Controls Working

Industrial control systems, panel wiring and system integration.



Our Approach

From Concept to Completion

Consultation

Understanding your needs and providing the best solution.

Planning & Design

Detailed planning for maximum efficiency and safety.

Execution

Skilled execution with quality and precision.

Testing & Commissioning

Ensuring everything works smoothly and safely.

Support & Maintenance

Long-term support for uninterrupted performance.



Core Engineering & Execution Team

Industrial Automation & Controls Engineering

Engineering Team:

Mr. Sameen — Automation & Control Systems

Mr. Shoaib — Controls & Project Engineering

Mr. Aqeel Hassan — Systems Integration & Programming

Mr. Shahzain — Project Execution & Field Testing

Mr. Hassan — Systems Engineering & Support

Mr. Aqib — Automation Engineering

Primary Responsibilities: PLC & SCADA/HMI programming, control panel logic design, power synchronization systems, and on-site commissioning.

Refrigeration & Mechanical Services Unit

Technical Specialists Team:

Mr. Faraz — Mechanical Systems Specialist

Mr. Aqeel — Refrigeration & Chiller Technical Specialist

Mr. Usama — Field Service & Mechanical Technician

Primary Responsibilities: Chiller control panel retrofits, industrial refrigeration overhauls, HVAC process tuning, VFD integrations, and preventive mechanical maintenance.

Procurement & Supply Chain

Purchaser — Mr. Yasir

Primary Responsibilities: Component sourcing, vendor management, inventory control and supply chain logistics for project hardware and spare parts.

Key Leadership Structure

Department	Function Lead
Sales & Marketing	Mr. Farhan Alam
Engineering	Mr. Unus Iqbal
Service Operations	Mr. Habib Uddin
Technical Operations	Mr. Iqbal Arif
HR & Finance	Mr. Khalid
Procurement	Mr. Yasir

Our Projects / Industries

Trusted Across Multiple Sectors

Chiller Control Solutions

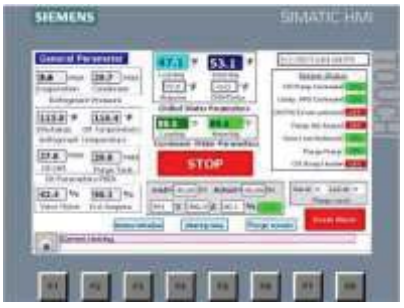
Installation of new controls on existing chillers.

Energy saving optimization using VFD Drives and smart control automation.

Retrofitting and integration for enhanced performance and efficiency.

York Centrifugal Chiller with 400 kW VFD





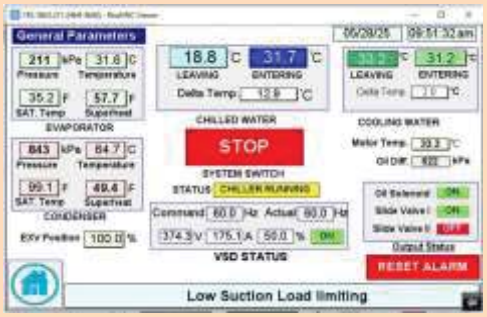


Pictures of Our Different Chiller Projects

Our team is highly experienced and well-organized in chiller control automation. We specialize in automating all types of chillers, including Screw Chillers, Water-Cooled Chillers, Air-Cooled Chillers, DX Units, Package Units, Centrifugal Chillers, Hot Water Chillers, and Absorption Chillers.

To date, we have successfully upgraded over 1000 chillers worldwide, delivering advanced control solutions and significant energy savings for our clients.

York Water Cooled Screw Chiller







MEC Group Provides Service for Leading Chillers & Machines

Carrier · YORK · SKM · DAIKIN · LG · EBARA · Kawasaki

Almost every type of machine

We Provide Complete Services

ELECTRICAL
Expert Chiller Controls & Automation: Trouble-shooting, Logic Programming & Optimization



CONTROLS
Smart Electrical Services: Power Load Capacity Assessment & Complete System Design

MECHANICAL
Smart Mechanical Solutions: Precision Design, Fabrication & Diagnostic Repair Services



OPERATION & MAINTENANCE EXCELLENCE
The cover focuses on their core services, including Air Conditioning, Chillers, and Industrial Equipment maintenance.

Advanced Engineering & Digital Transformation

IoT & Digital Solutions: A dedicated section highlights remote monitoring and BMS/IoT integration, showcasing the "Strong Technical Team, Empowered by Data" that simplifies systems operation.



MEC Group specializes in taking industrial machines and equipment online not only for remote monitoring, but also for complete remote technical support through Ethernet.

Our solution allows engineers to remotely monitor, diagnose, troubleshoot, and support machines without being physically present at the site.



We have successfully implemented this solution for customers including:

* Pakistan Gum Industries, Karachi
* Livewell Capsules, Lahore
* SICVD Hospital, Sukkur
* MBI Industries, Karachi
* Hudson Pharma, Port Qasim

These installations are already successfully operational, helping our customers reduce downtime and receive faster technical support.

MEC Group – Connecting Your Machines to Remote Expertise.

MEC Fire Fighting Solution

MEC eyes on large size Fire Projects for Companies, Industries, Corporate Building, High rise Buildings, Hospitals & Residential apartments. The company uccessfully executed medium & large size projects for industrial clients & Institutions with a view to play a vital role in Fire Fighting System in Pakistan & Capitalized on the boom in the Fire Fighting & Fire Protection Sector. We has a team of Dedicated Professionals who are constantly working to exceed the expectations of the customer.



"A Single Comprehensive Fire Fighting Solution with well integrated Safety & Security System in Place" MEC providing Fire Extinguishers & Personal Protective Equipments, MEC through its way of strategic marketing, is involved in Fire Fighting Systems & every kind of Safety & Security activities in the industry.





NFPA UL LISTED FM APPROVED

MEC BMS & EMS Division

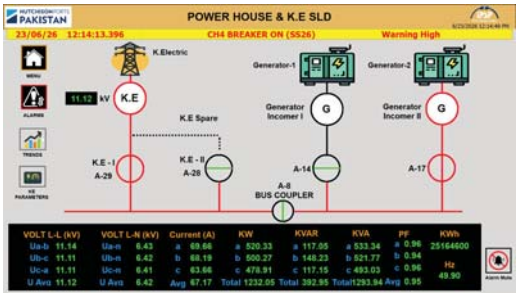


MEC has established a dedicated *BMS & EMS Division* specializing in *Building Management Systems (BMS)* and *Energy Monitoring Systems (EMS)*.

Our solutions go beyond basic monitoring. We provide *centralized and remote monitoring and control* of buildings, HVAC systems, equipment, and energy consumption using advanced hardware, communication technologies, and our state-of-the-art control solutions.

Several customers have already implemented our solutions, while multiple projects are currently in progress.

Our BMS & EMS solutions enable customers to:



* Monitor building and equipment performance in real time

* Monitor and control systems remotely through Ethernet

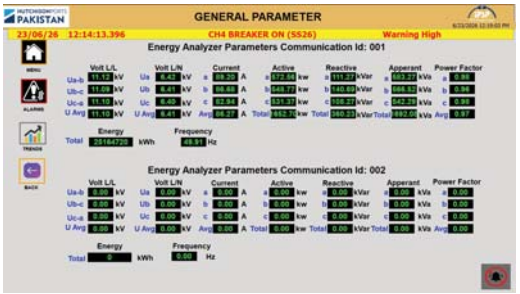


* Track and analyze energy consumption

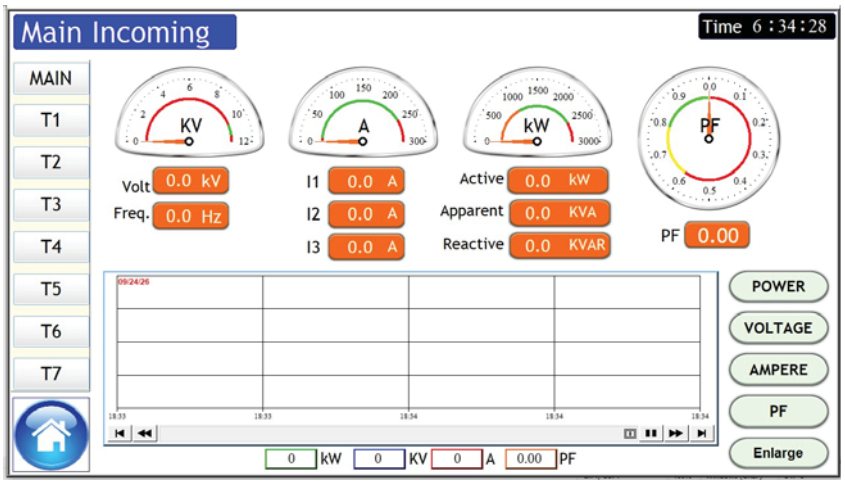
* Improve operational efficiency and reduce energy costs

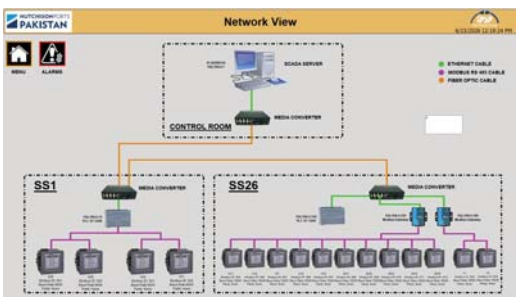
* Identify faults and performance issues remotely

* Access critical system information from anywhere



With MEC's BMS & EMS technology, *your building and equipment can be monitored and controlled locally or remotely from virtually anywhere.*







MAJOR CLIENTS

Pakistan State Oil	Stile	engro	HBL
SEARLE	Getz pharma	ساؤتھ	SAAKH PHARMA
BAHRIA TOWN	Dolmen Mall	SICOD SINDH INSTITUTE OF CARDIOVASCULAR DISEASES	LIBERTY
ALKA (PVT) LTD.	Imtiaz	GulAhmed Textile Mills Limited	HUDSON PHARMA

HVAC CONTROL SYSTEM CLIENTS

York Yciv 250 Tons (2chiller)	Pakistan Beverages Limited
Kawasaki Absorption Chiller 350 Tons (3 Chillers)	Pakistan Expo Centre
Carrier Air Cooled Chiller	Brookes Pharma
Skm Air Cooled 240 Tons (2 Chillers)	Imtiaz Super Market
Carrier Water Cooled 150 Tons	Gelcaps Pharma Hub Choki
Kawasaki Absorption Chiller 350 Tons	Gelcaps Pharma Hub Choki
Hstar Water Cooled 120 Tons (2 Chiller)	Aquafina Pakistan
Hstar Water Cooled 120 Tons (2 Chiller)	Hyderabad Pepsi Pakistan
Carrier Water Cooled 150 Tons	Magnet Mall Karimabad
350 Tons Ls Chiller Absorption Chiller	Getz Pharma
Clivet Chiller Minus 20 Degree	Saakh Pharma
250 Tons Ls Screw Water Cooled Chiller	Chase Up Faisalabad
65 Tons Carrier Air Cooled	Chase Plus
75 Tons Air Cooled Chiller Scroll	Bahria Icon Tower
Skm Chiller 350 Tons (2 Chillers)	The Place Mall Dha Defence
Dunham Bush 200 Tons Air Cooled	Mima Knit
Dunham Bush 200 Tons Water Cooled	Chase Up Multan
150 Tons Air Cooled 3 Circuits	Shabbir Tiles # 2
LS Absorption Chiller Direct Fire	Rajwani Textile
Air Cooled 3 Circuit 150 Tons	Mujhaid Engineering
Sanyo Absorption Chiller 300 Tons	Sheikh Zayed Hospital Qutta
Mitsubishi Direct Fire Absorption Chiller	Zafa Pharmaceuticals
Installed 200kw Vfd On Db Chiller	Chase Up Gulshan
Installed Vision 2020 And Carel Evd Driver	HBL Office Clifton
Water Cooled Screw Chiller Double Circuit	Boulevard Mall Hyderabad

ENERGY MONITORING SYSTEM CLIENTS

Monitoring & Controlling Of Genset Though Scada System	Bahria Town Karachi
Monitoring & Data Logging For K.E Panels Though Scada System	SAPT (South Asia Port Terminal)
Monitoring & Alarm Logging For Different Furnace Panels Though Scada System	People's Steel Mills
Monitoring & Data Logging For K.E Panels Though Scada System	Alka Chemical
Monitoring & Data Logging For K.E Panels Though Scada System	Auvitronics Port Qasim
Energy Monitoring System	Midas Safety

BOILER CONTROLS CLIENTS

Develop Controls For 22 Tons Boiler With Two Burners.	Liberty Textile
Develop Controls For 16 Tons Loose Boiler	Liberty Textile
Develop Controls For 12 Tons Danstoker Boiler	Otsuka Pharma
Develop Controls For 10 Tons	Razzaq Associates Pakistan Beverages (Sukkur)
Develop Controls For 12 Tons Danstoker Boiler	Pakistan Beverages (Sukkur)
Diesel Boiler For Oil Heating	Pak Petro
Diesel Boiler For Oil Heating	Pak Petro
Oven For Epp (Expanded Polypropylene)	Auvitronics Port Qasim
2000l & 1000l Tank Geyser Automatic Hot Water Control System. (2 Systems)	Pakistan Gum Industries

PROCESSING PLANTS CLIENTS

Complete Controls Up Gradation For Guar Processing Plant Unit 2	Pakistan Gum Industries Site Area
Complete Controls Up Gradation For Guar Processing Plant Unit 3	Pakistan Gum Industries Site Area
Complete Controls Up Gradation For Guar Processing Plant Unit 5	Pakistan Gum Industries Site Area
Complete Controls Up Gradation For Guar Processing Plant Unit 7	Pakistan Gum Industries Site Area
Complete Controls Up Gradation For Guar Processing Plant Unit 8	Pakistan Gum Industries Site Area
Complete Controls Up Gradation For Guar Processing Plant Unit 9	Pakistan Gum Industries Site Area
Complete Programming For Plc And Hmi For Hardening Furnace Plant	MBI
Designed Controls For Gelatin Di Ro Plant	Gelcaps Hub Choki
Designed Drying System With Pid Controls For Temperature & Humidity System	Crispo Pasta
Designed Controls For Epp Feeding Tank System	Auvitronics Port Qasim
Designed Control For Different Anodizing Rectifying Plant AC and DC	Krudson Almunium
Designed Control For Different Anodizing Rectifying Plant AC and DC	Sinopak Almunium
Designed Control For Different Anodizing Rectifying Plant AC and DC	Lucky Almunium
Complete Design & Development Of Oxygen Plant	Gas Professional

CONTROL DESIGNING & DEVELOPMENT FOR THE FOLLOWING MACHINES

CLIENTS

Shrink Wrapping Machine For Pet Bottles	Popular Juice
Sleever Labeling Machine For Pet Bottles	Popular Juice
Pet Blowing Machine	Popular Juice
Dust Broom Making	Royal Plastic
Mop Manufacture Machine	Royal Plastic
Pet Blowing Machine	Hygiene Container
Long Good Pasta Making Machine	Crispo Pasta
Car Door Jig	Auvitronics Port Qasim
Light Testing Machine	Auvitronics Port Qasim
Light Sealing Machine	Auvitronics Port Qasim
Hot Plate Oven	Auvitronics Port Qasim
Yaris Car Back Light Machine Using Hot Plate	Auvitronics Port Qasim
Thread Making Machine	Laxmi Taqees Textile
Tensile Machine Controls	Bahria Town
Tooth Paste Filling Machine	Amir Engineering
Jar Filling Machine	Convenience Foods (Laziza Foods)
Pipe Bending Machine	Icon Engineering
Pipe Cutting Machine	Air Con Engineering
Ozone Generator	Aquafina
Automatic Car Wash System	For Different Cities In Pakistan
Oil Filling Machine Using Load Cell	Kausar Oil Mill
Ampoule Filling Machine Using 12	Servo Motors Brookes Pharma
Air Mix Plant Automation	Pakistan Gum Industries
Box Stack Making & Counting Machine	Chishti Box
Chocolate Waffer Making Machine	Daffy Waffers
Auto Clave	Helix Pharma
Cartner Machine Controls Development	Brookes Pharma
Uhlmann Blister Machine (2 Machines)	Maple Pharma
Uhlmann Blister Machine	Effroz Pharma
Tray Dryer Heating Control System With Sms Alert Alarming System	Effroz Pharma

TOTAL SOLUTIONS GROUP



Let's Build a
Smarter Industrial Future

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Scan for
More Information

We Build Long-Term Relationships

Our focus is not just on completing a project,
but on building lasting partnerships with our clients.