

GLOBAL TECHNOLOGY CONCERNS

PAKISTAN

System Integrator, Engineering Solutions Provider, Project Development,
Installation & Commissioning Services.

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Global Technology Concerns

Provision of Industrial of Instrumentation and Electrical Equipment
Project Developments and Installation and commissioning Services

INTRODUCTION & COMPANY BACKGROUND

GLOBAL TECHNOLOGY CONCERNS working with petrochemical, process, oil refining, chemical, power generation, textile and aviation industries since 2007 in the areas of electrical controls, building electrification and control instrumentation for process. We enjoy a very good reputation with our clients and principals.

GTC involved in the procurement of industrial control instruments and electrification materials. **Global Technology Concerns Engineering Services** has been committed to provide finest quality and most diverse selection of electrical equipment and instruments in the industry and stands ready to face & meet particular application challenges. We provide our clients the high-quality materials in Pakistan through our local resources and our international contacts, products of different foreign manufacturers.

GTC is the pioneer in introducing Radar based level gauges in Pakistan and in this area GTC has worked with Rosemont Tank Gauging System. GTC engineers are trained by Rosemont Tank Gauging System in Sweden to carry out installation, commissioning and calibration of Rosemont Tank Gauging System in Pakistan.

GTC has established itself among Industrial organizations in Pakistan for more than two decades in the area of installation of control panels for buildings, Process control panels for industries, laying of power and control cables, installation of cable trays, conduits, overhead and underground cables for power and control, earthing and grounding systems, gas and fire detection systems, installation and commissioning of PLC based control systems both for process and buildings, calibration, and commissioning for electronics, pneumatic, PLC, radar based instruments, and electrical control panels and related equipment. GTC has a well-established services department, which is trained by our foreign principals in Pakistan and in their respective countries to carry out instrumentation/electrical control jobs of any complex nature.

GTC has all the necessary tools and tackles to carry out any nature of job in a professional manner. GTC engineers and technicians are highly qualified, well trained, experienced and they are fully capable of carrying out any nature of instrumentation and electrical jobs.

VISION

Global Technology Concerns ensures excellence in Electrical, instrumentation, Automation & Control.

QUALITY POLICY

Global Technology Concerns is committed to provide its customers with Industrial Automation & Electrical Control equipment of finest quality, properly elected, in-time delivered to end users. The team of professional engineers and technicians equipped with latest knowledge of prevailing standards and equipment ensures fast and reliable service to utmost satisfaction of customers. Our goal is to leave no customer unsatisfied.

SAFETY POLICY

Engineers and technicians in Global Technology Concerns are trained and educated to implement all the safety and precautionary measures to protect human life, environment and machinery while working with petroleum, power and process industries. GTC is abiding by the rules and regulation of client in close co-ordination with client's fire and safety department.

MULTI-DISCIPLINARY SERVICES

GTC is involved in diversified areas of engineering activities. Each activity has independent and distinct functions within the company and supports other field to provide a totally integrated approach. Engineering, Installation & Commissioning services, backup sales of International products, while maintaining their specialized role in specific areas.

- System Integration
- SIS Proof Testing
- Installation and Commissioning Services
- Maintenance and Repair Services
- Calibration Services
- Engineering
- P&ID Development
- Development of BPCS & ESD System
- On-Site training.

SYSTEM INTEGRATION



Systems Integration

Our systems integration specialists mitigate potential risks throughout each project.

GTC provides services of system integration. GTC engineers are responsible for the design, implementation, and integration of building systems solutions in a wide variety of industries. Our approach encompasses both technical and management disciplines to bring together disparate functional elements, configuration items and segments into larger systems.

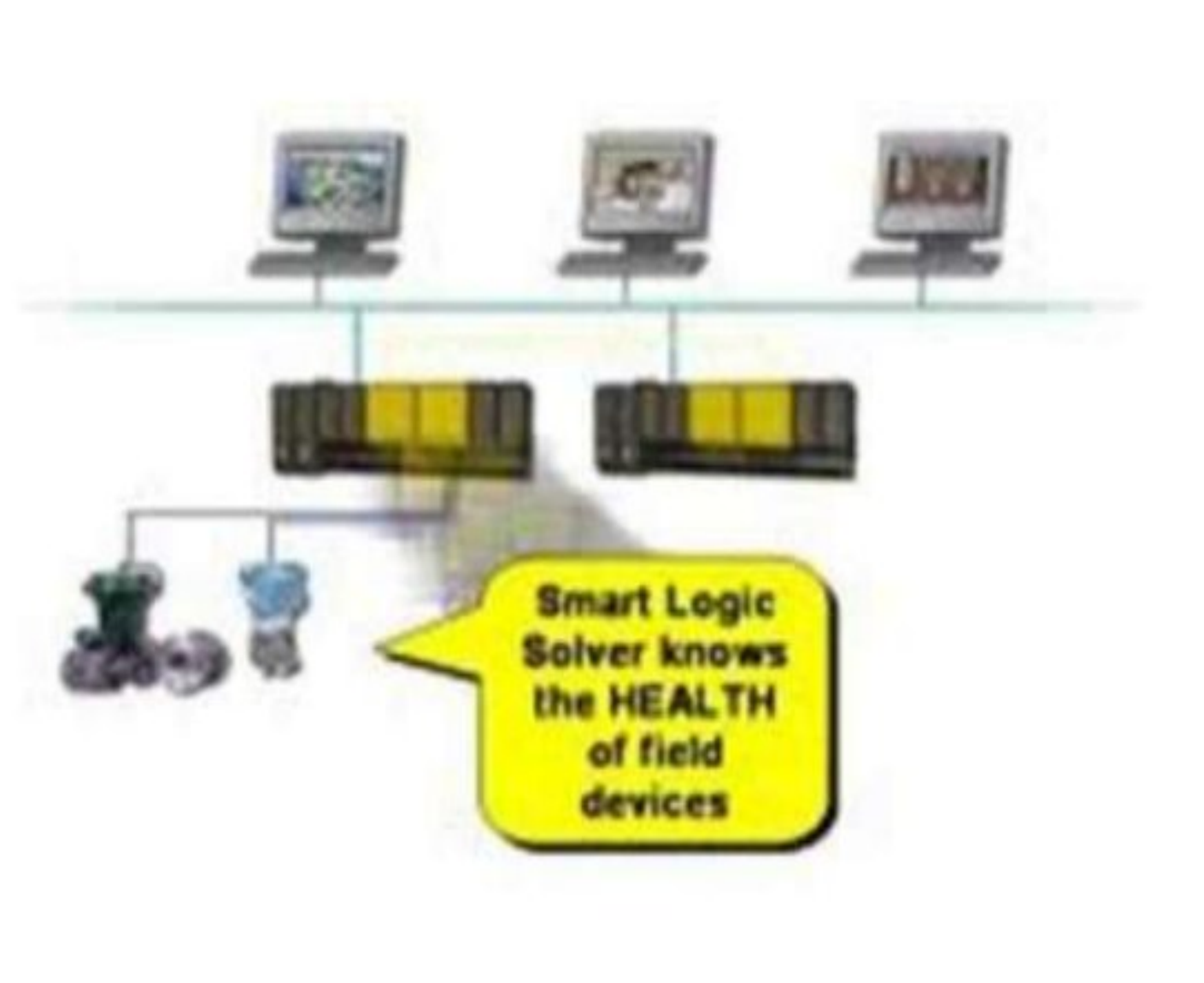
The technical aspects of our approach encompass our systems engineering methodology:

Identify customer needs and required functionality early in the development cycle document requirements and provide traceability down to the lowest level monitor, as GTCs and validate segment development efforts to ensure system closure account for the business and the technical needs of all stakeholders with the goal of providing a quality product that meets the needs of the end user.

The management portion of our systems integration methodology includes:

Advanced planning to establish the vision and approach to be followed over the life of the program management to instill the disciplines for executing the program, prioritizing resources across projects, and managing the overall costs and risks of the program configuration management to provide the technical and administrative means to identify, control and manage changes to program and project baselines. Application of our best practice systems engineering and management process GTC ensuring that the work products meet the organization quality objectives and user expectations to achieve mission success.

• SIS PROOF TESTING



GTC provides services in the area of SIS (Safety Instrumented System). GTC engineers can work with your designated plant personnel to gather operational and maintenance data, then plan and develop SIS proof testing procedures. During a typical SIS proof test, our specialists inspect each SIF (Safety Instrumented Functions), including the sensors, logic solvers, and final elements.

They document any faults or deficiencies, call them to the attention of your staff, and in many GTC, our specialists will be able to correct them at your request.

• **INSTALLATION & COMMISSIONING SERVICES**



GTC provides a full range of services in terms of consultancy, installation, commissioning, repairing, servicing and maintenance either installing a single instrument or large-scale instrumentation projects or carrying out complete installation of Electrical systems. GTC staff members are highly qualified and skilled: they are experienced with local and multinational companies such as Attock Refinery Limited, Oil & Gas Development Company Limited, Shell Pakistan Limited, Sui Southern Gas Company, Pak Arab Refinery Limited & many more in and out of Pakistan and capable of commissioning, servicing and maintaining Industrial instrument control and electrical equipment.

- **MAINTENANCE AND REPAIR SERVICES.**



GTC provides extensive service capabilities for trouble shooting and repairs for electrical, pneumatic and digital instrumentation. These services are available on time, contract and on call basis.

GTC offer Preventive Maintenance to customers. Our trained engineers and technicians provide inspection, detection and correction of incipient failure either before they occur or before they develop into major defects. GTC maintenance and repair services scope of work include tests, measurements, adjustments and parts replacement performed specifically to prevent faults from occurring.

• CALIBRATION SERVICES

GTC provides calibration services to almost every industrial sector in Pakistan i.e. Sugar Industry,



Cement Industry, Oil & Gas Sector, Textile Industry, Pharmaceutical Industry, Steel Industry etc. Our team of professional engineers give calibration services to our valuable customers according to their industry requirements. GTC offer Laboratory as well as on-site calibration services to its clients in and out of Pakistan. GTC is known for its Calibration expertise using state-of-the art calibration equipment to deliver accurate and precise measurements. Compliance to **ISO**, **ANSI** and **NCSL** standards and **NIST** traceability for quality calibration services of electronic and mechanical equipment. Flexibility to service customers around the world providing either onsite calibration services or lab calibration services. Our Customers are our number one priority. We understand that the success of your business depends upon your ability to consistently provide superior quality, high performing products to your customers. At GTC, we understand this and can ensure that you will receive superior calibration and repair services for all your equipment.

• **ENGINEERING**



GTC forms an integral part of our major activities. These cover various fields in Instrumentation and Electrical Engineering with special emphasis on Instrumentation services for industrial system.

We have expertise in the area of building electrification of huge building for power plants, airport, air craft fueling terminal, oil blending plants, automation and control of process industries, installation and commissioning of electrical system for refinery terminal including installation of motor control centers, transformers, distribution panels, area lighting both for regular and classified areas in hazardous locations.

• P&ID DEVELOPMENT



GTC has a team of experienced design engineers with a background of experience in the development of Process & Instrumentation Diagrams (P&ID). The Design philosophy includes P&IDs as an item issued with the instrumentation or electrical design. In this philosophy, the electrical, mechanical, and piping engineers on a project would start their work once the P&IDs are complete.

Our engineering team can develop the design of a new facility or an upgrade to an existing plant selects unit process that best suit the economic, regulatory, safety, and convenience criteria set forth by the plant owner and regulatory.

• DEVELOPMENT OF BPCS & ESD SYSTEM



GTC has wide application experience of both modern distributed microprocessor-based control systems as well as conventional electronic, electromechanical and pneumatic systems.

It has capability of completing system specification including the requirements for regulation, sequence control, interlocking, protection, data acquisition, process instrumentation and fiscal metering. The group has been involved in complete design of pipeline and pumping station SCADA system. This expertise has been used in the design of a number of oil/gas processing and pipeline transmission facilities.

GTC is in the process offering services for maintenance of DCS/ESD systems of oil & gas installations. Managing and equipping industrial plant with the right components and sub-systems for optimal operational efficiency and safety is a complex task. Safety Systems Engineering (SSE) describes a disciplined, systematic approach, which encompass GTC hazard identification, safety requirements specification, safety systems design and build, and systems operation and maintenance over the entire lifetime of plant. The foregoing activities form what has become known as the "safety Life-cycle" model, which is at the core of current and emerging safety related system standards.

• ON-SITE TRAINING



GTC is also maintaining a group of experienced engineers & technicians for on-site training on request for the clients. Our team listens carefully to learn client needs then assemble a 'made to order' program specifically for your organization. Specialized training that targets your personnel's exact equipment and qualifications provides the most successful solution—one our clients have grown to expect. We put our team into action customizing a program for client exact needs. We relieve you of the burdensome task of developing training, researching compliance requirements, and providing meaningful skills training and testing. You have the confidence that your training is done right.

GTC engineers & technicians are stationed at different plants and are involved in preventive maintenance of instruments and analyzers. They are also involved in instruments repair and calibration during turnaround of various refinery units.

They also undertake installation work and commissioning of instrument loops and analyzers. These engineers & technicians have also been exposed to installation work of instruments and monitor turnaround jobs in cement and fertilizer industry.

MAJOR CLIENTS

Asia Petroleum Limited	INTECH Process Automation (PVT) Ltd
Attock Petroleum Limited	Attock Refinery Limited
Chevron Pakistan	Civil Aviation Authority
DG Khan Cement	National Refinery Limited
Kot Addu Power Company Limited	Pak Arab Refinery Limited
Oil & Gas Development Company Limited	Pakistan Petroleum Limited
Pakistan Oilfields Limited	Petrcon (Pvt.) Ltd.
Pakistan State Oil Company Limited	Samsung Heavy Industries
Pipelink Constructors Limited	Sui Northern Gas Pipeline Limited
Shell Pakistan Limited	Al-Tariq Constructors, Pakistan
Sui Southern Gas Company	Total Atlas Lubricants Pakistan
Greaves Pakistan	Thermal Power Station, Kot Addu (KAPCO)
Total Parco Pakistan Limited	WAPDA Power Station, Muzaffargarh

OUR PROJECTS

Preparation of test procedures for the calibration of instruments installed at the plant. PAKISTAN OILFIELDS LIMITED

Auto Tank Gauging Project

- Supply of Saab-Rosemount Tank Control Radar Type Auto Tank Gauging system.
- Excavation, Back Filling, Conduiting, Cable & Cable Tray Laying, Installation, testing and commissioning of 2 number radar level gauging system at Khor Filed.

ATTOCK REFINERY LIMITED

Auto Tank Gauging Project

- Excavation, Back Filling, Conduiting, Cable & Cable Tray Laying.
- Supply and installation of weather proof junction boxes.
- Installation, testing and commissioning of 8 nos. of Saab Radar Gauges

CALTEX OIL (PAKISTAN) LIMITED - LPG Plant Dhurnal

PLC based Fire/ESD system complete project - Consisting of PLC, optical/UV, electrical and pneumatic components, Scope of Supply, installation, testing and commissioning. United Energy Pakistan Ltd (UEP)

As a Sub-Contractor of Pipe-Link Constructors (Pvt.) Ltd.

Instrumentation & Electrical Job for BP at Mazari Oil Field;

- Excavation, Back Filling, Conduiting, Cable Laying, fabrication of panels stand and installation.
- Installation, testing and commissioning of all instruments such as:
- Control Valves, , PI's, DPI's, Solenoid Valve, Temperature Recorders, Pressure recorders etc,
- Earthing System, Flare Ignition system, fire & smoke detector, control panels, motors, motor control centers, area lighting, explosion proof lights, ESD panels, UPS etc.

AGRICIDES (PVT) LIMITED

- Instrumentation, Electrical, & Mechanical Controls
- Commissioning of Plant
- Design, Fabrication of Rotary Kiln for pesticides
- Design, Fabrication of Material Conveying & Flame Safeguard System

PAKISTAN OILFIELDS LIMITED

- Auto Tank Gauging Project
- Supply of Saab-Rosemount Tank Control Radar Type Auto Tank Gauging system.
- Excavation, Back Filling, Conduiting, Cable & Cable Tray Laying, Installation, testing and commissioning of 1 number radar level gauging system at Pindori Filed.

NATIONAL REFINERY LIMITED

GTC Worked with Al-Tariq Constructors Pvt. Ltd. as a subcontractor of Electrical and Instrumentation works for newly built Naptha storage tanks. GTC responsibilities are:

- Cabling (power and instruments)
- Testing of cables, Cathodic protection of tanks
- Lightning of tanks, Installation, testing nd commissioning of all the instruments

. PIPELINK CONSTRUCTORS LIMITED

- Electrical & Instrumentation Works at UTP Bukhari Fields
- Air Tubing & Interconnection for Pneumatic Field Instruments
- Cabling/Termination of All Field Wiring

PAK-ARAB REFINERY LIMITED

- Fazilpur Pumping Station, Instrument Electrical & Power System
- Bubak Pumping Station, Instrument Electrical & Power System
- Air Tubing & Interconnection for Pneumatic Field Instruments
- Cabling of All Motors and other Equipment
- Cabling/Termination of All Field Wiring Commissioning of Plant
- Design, & Fabrication of Control Panel
- Design, Fabrication of Special Fitting for Mounting of Instruments
- Earthing System
- Electrical Motor Control Centers
- Excavation of Cable Trenches, Laying of Cables and Back Filling
- Installation of Cable Trays, Conduits,
- Installation of Field Instrument
- Installation of Motor Control Centers
- Power Cable

ASIA PETROLEUM LIMITED

Electrical & Instrumentation Works in Area 'A'

- Electrical Heat Tracing of Pipelines
- Air Tubing & interconnection for Pneumatic Field Instruments
- Cabling/Termination of all field wiring
- Commissioning of Plant
- Design, Fabrication of Special Fittings for mounting of Instruments
- Installation of Cable Trays, Conduits,
- Installation of Field Instrument,
- Supply of Installation Materials

PIPELINK CONSTRUCTORS LIMITED

- Electrical & Instrumentation Works at UTP Bukhari Fields
- Air Tubing & Interconnection for Pneumatic Field Instruments
- Cabling/Termination of All Field Wiring

PAK-ARAB REFINERY LIMITED

- Fazilpur Pumping Station, Instrument Electrical & Power System
- Bubak Pumping Station, Instrument Electrical & Power System
- Air Tubing & Interconnection for Pneumatic Field Instruments
- Cabling of All Motors and other Equipment
- Cabling/Termination of All Field Wiring Commissioning of Plant
- Design, & Fabrication of Control Panel
- Design, Fabrication of Special Fitting for Mounting of Instruments
- Earthing System
- Electrical Motor Control Centers
- Excavation of Cable Trenches, Laying of Cables and Back Filling
- Installation of Cable Trays, Conduits,
- Installation of Field Instrument
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- Cabling/Termination of all field wiring
- Commissioning of Plant
- Design, Fabrication of Special Fittings for mounting of Instruments
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- Installation of Field Instrument,
- Supply of Installation Materials

