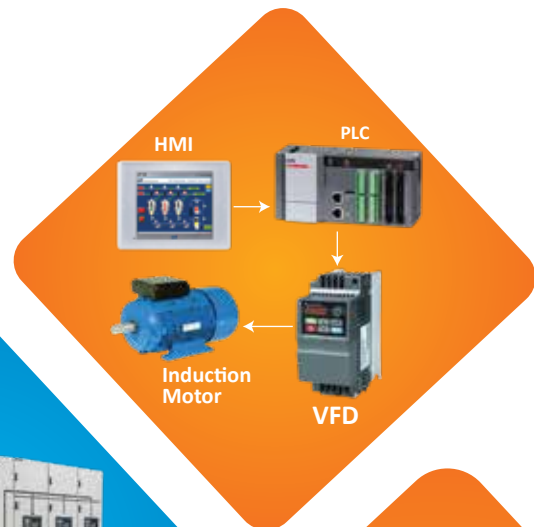




PACIFIC POWERTECH LTD.

Excellence in Engineering



RELIABLE

**24/7
SERVICE**

**SUB-STATION
AUTOMATION
& CONTROL SYSTEM**

www.pacificpowertech.com.bd

About Us

Business Information

Business Name: **PACIFIC POWERTECH LTD.**

Primary Line of Business: Electric Substation | Automation

Establishment : Year 2013,

Total number of Employees: 23

Business Address: 2249, Munshibari, Shatarkul Road, Uttar Badda, Dhaka-1212. Bangladesh

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Tel: +8801303075003

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MISSION

To be a leader in HV, MV & LV Substation, Elevator/Lift, Generator & Automation industry by providing enhanced services, relationship and profitability To provide quality services that exceeds the expectations of our esteemed customers.



VISION

To build long term relationships with our customers and clients and provide exceptional customer services by pursuing business through innovation and advanced technology.

General Business Activities PACIFIC POWERTECH LTD. Has been established as an Industrial Automation Engineering, substation manufacturing & various type of control panel building company in Bangladesh. Our traditional business model is based on the accomplishment of Industrial Automation, power distribution and related design consultancy in Bangladesh. We are even investing in lift & generator business in recent years. We have served many satisfied clients from different fields like medium to large scale factories, commercial & residential complex and so on. The revenues of our company are expected to grow exponentially depending on the variables that are factored in with investments in the industry.

We have been a consistent performer in the Industrial Automation, substation industry with our reliable product range of PLC control system, Transformer, Switchgear, PFI Plant, Busbar trunking system since 2013. Returning clients are the best asset our company has. We have been able to achieve customer loyalty because we make the best product, with best price offering & number one after sales service in Bangladesh.

Each "PACIFIC POWERTECH LTD." products are custom designed & developed by our capable group of engineers to ensure low losses, long service life & safe operation. Our Products and services are designed in compliance with operating & climatic condition of our country while maintaining the international standards like IEC, BS, ANSI & VDE.



PRODUCTS

TRANSFORMER

Almost a century ago in 1886 first distribution transformer was energized by William Stanley, PACIFIC POWERTECH LTD. is now entered in the manufacturing of distribution transformer in Bangladesh combining in house design capability, engineering innovation highest quality materials and latest techniques. Use of locally available materials to the highest extent possible without compromising quality is our organizational policy. The organization and its personnel have extensive engineering experience in dealing with distribution transformers of various ratings. This experience combined with continuous Research and Development guarantee high quality, reliability and long life.



MAIN COMPONENTS OF TRANSFORMER

CORE



Transformer core is made of high permeable cold rolled grain oriented silicon steel sheet (CRGO) mostly imported from France/Japan. Our primary consideration is to reduce no load losses, no load currents and humming of transformer by using high quality bolts channels, and supporting.

COIL

Our transformer winding is made of high conductivity electrolytic copper, pin hole free super enameled wire. For HV winding one or more elementary copper strip or super enamel insulated wire are used and for LV winding one or more copper strip insulated with pure cellulose paper are used.



COOLING



In transformers cooling has a special importance to ensure safe operation and to increase the lifetime of the transformer. The heat occurred in the transformer is dissipated at the cooling unit by the help of the oil. The simplest and mostly used cooling system is ONAN (Oil Natural Air Natural), ONAF (Oil Natural Air Force) is also used where the cooling air is blown to the radiators by fans. The dielectric oil also provides electrical insulation between, the windings and the case and also help to prevent the formation of moisture which can deteriorate the winding insulation.

TANK

The tank and cover are made of lamination free, high quality sheet steel, fabricated of a rigid bottom with an oil drainage outlet. All gasket surfaces at the tank are treated with most core to prevent unwanted oil leakage. All gasket surfaces are painted with a special paint against corrosion. Before painting the outer surfaces the tanks are sand blasted in accordance with international standard. At spray painting, minimum thickness is 140 p for three coats are maintained.



HT and LT Coils



HT and LT coils are checked for inner diameter outer diameter oval length number of turns and resistance. Completed core coil assembly is checked for clearances ratio and resistance.

Stepped core is assembled according to approved design. Completed core assembly is checked for dimensions and weight. Random testing is done for no iron loss by putting LT coils only.

Core Assembly



Core Coil Assembly



Once the core and coil of a specific transformer is complete, the coil is placed around the core assembly. During this process special care is taken to integrity of the insulation. This whole assembly is then strongly supported using iron U channel to provide mechanical strength. Completed core assembly is then checked for clearances ratio and resistance.

Bushing

High voltage and low voltage bushing are of wet process porcelain manufactured by BISF in Bangladesh or imported from reputed manufacture with terminals suitable for copper conductors. Both HV and LV sides are Formicated with bare bushings. All the bushings are top mounted, but side mounted bushing can be provided on request.



Tanks & Radiators



Radiator plant of PPTL is the best equipped one in the country with proper press machines, seam, mig & tig welding facilities. Pressed steel radiators are tested for dimensions and leakages. Pressure tests are performed to check the leakage. After the welding process all the tanks are chemically processed in order to remove all traces of grease, rust, welding slag and other impurities. Complete tanks are tested for dimension and leakage tests.

Tanking

Care coil assembly after drying is checked for desired insulation levels. Tested assembly is boxed up in tank and electrical clearances are checked.



Painting



Tank is painted by a zinc etching primer and two finishing coats as required by the customer. Powder coated radiator is also available on request.

Accessories

Transformer Contains following Accessories: HV Bushing with terminal connectors. LV Bushing with terminal connectors. Tap changers Conservator tank (only for the conservator type). Lifting-Lug, Thermometer (for 3 phase transformer), Silicone gel breather for the conservator Type, Pressed steel radiator. Name plate with connection diagram, Oil level indicator, Oil drain plug. Earthling terminal. Buchholz Relay, Gate Valve.

Buchholz Relay



It is fitted in the connection pipe between the transformer tank and conservator tank in order to monitor and protect transformers and other oil filled electrical equipment from faults arising internally, such as inter turn short circuits in coils and windings and against oil loss. Depending on the type of fault which occurs and the switching device which is actuated by the relay, the relay trips and alarm signal or causes the transformer to switch itself off. Two micro switches are rated at 5 A, 250 VAC or 0.2 A, 250 VDC.

Preferable for hermetic design. This valve protects the transformer tank from sudden overpressure surge. It is fitted to the transformer cover and adjusted in such a way that it opens briefly in the event of overpressure and creates a compensation between the pressure inside the tank and outside air pressure then automatically recloses.

Pressure relief valve



TRANSFORMER OIL



Transformer oil is procured from well repeated manufactures. On receipt of oil it is tested for resistivity dielectric dissipation factor (Tan Delt), acidity, flash point, pour point, break down voltage and tension as per BIS & IEC. We have got complete in house testing. Transformer oil after filling in transformers again tested for these tests as per BIS & IEC.

HERMETIC PROTECTING RELAY (DGPT2)

Preferable for hermetic design. This relay is monitored in the tank to discharge of gases, temperature and the pressure. It is used for bigger than 500 kVA power of the transformer. it has got two contacts for each one the discharge gases, the tank pressure and the temperature.



SILICA GEL BREATHER



It is a unidirectional breather, where air circulation is controlled by the liquid silicon located in the breather. The size of dehydrating breather is determined by the quantity of oil in the transformer.

THE OIL THERMOMETERS WITH CONTACTS

It has a maximum indicator in order to display maximum oil temperature, which can be returned to starting position by means of reset button located on the underside of the housing it has smooth scale up to 120°C two micro switched rated at 5 A, 250 VAC or 0.2 A, 250 VDC.



TAP CHANGER



The tap changer made of high quality igneous insulating board or synthetic resin mound. It is mounted below top covering of transformer for changing the connections of taps in primary windings. In all most all our distribution transformers we use tap changer from Come Italy.

MAGNETIC OIL LEVEL TINDICATOR

The magnetic oil indicator is used in order to display the level of the transformer oil in conservator tank. The transformation of the oil movement to display itself is, effected by two permanent magnets which are matched to one another. This oil level indicator depends on the diameter of conservator tank. If required, the level indicator with contacts can be used.



DESIGN AND DEVELOPMENT

Our professional designers and engineers are over the years of award-winning experience in the designing of Distribution Transformer, and Switchgear, PFI & Control Panels. We deliver top-quality Transformers and Substation Equipment at prices the equivalent commercial firms can't match. We're experts at managing complex power projects, bringing 99.99% of them to "Launch date" on time and on budget. Our design department is dedicated to develop the diversity of products as per needs and requirements of the market. They are already successful in manufacturing:

TESTS

Testing is an important activity in the manufacture of any equipment. Preliminary tests are carried out on the transformer before it is put into the tank. Final tests are carried out according to [EC 76 on completely assembled transformer. The following tests are required.

PPTL test laboratory is approved by BSTI. Electrical licensing authority of energy ministry and BUET. All test instrument are kept calibrated. Though all tests and check are done during the production process and competed transformer following routine tests are conducted.

- i) Insulation Resistance test
- ii) Induced over Voltage test
- iii) Separate source voltage withstand test a) HV High Voltage test b) LV High Voltage test
- iv) Turn Ratio Test, Polarity and phase relationship test
- v) HV and LV resistance test
- vi) No load current and No load loss measurement test
- vii) Full load current & full load loss.
- viii) Load losses test at rated current and frequency.
- ix) Percentage impedance,
- x) Core insulation test
- xi) Insulating oil test
- xii) Function of tap changer test

Type Test (One in each lot).

- i) Temperature rise test.
- ii) Over load test.
- iii) Noise level test.
- iv) Oil leakage test.

SPECIFICATION

TECHINICAL INFORMATION OF TRANSFORMER

Rated Primary Voltage-11 KV
 Rated Secondary Voltage- 415/220v
 Rated Frequency 50Hz

Capacity (KVA)	Losses (Watt)		Imp %Lmp.	%Regulation At Unity Power Factor	%Efficiency At Unity Att Full Load	Out Line Dimensions Approx (cm)			Oil (Litre)	Total Weight (kg)
	No Load	Full Load				H	L	W		
100	245	1700	4	1.62	98.05	132	100	63	180	650
150	320	2412	4	1.40	98.17	145	105	88	220	900
200	435	2550	4	1.20	98.37	150	112	93	230	975
250	520	3265	4	1.22	98.48	158	123	95	270	1100
315	580	4500	4	1.15	98.38	157	120	97	350	1250
400	722	5420	5	1.10	98.44	162	123	98	390	1450
500	865	6275	5.5	1.05	98.57	165	124	102	325	1725
630	920	7740	6.0	0.98	98.62	170	136	103	500	1970
750	1150	8850	6.0	0.94	98.66	185	155	112	625	2250
800	1300	9800	6.0	0	98.61	225	170	113	650	2575
1000	1650	11600	6.5	0.99	98.67	215	185	115	800	2850
1250	1820	12300	6.5	0.95	98.87	225	190	116	1000	3725
1500	2100	13275	6.5	0.87	98.97	230	200	120	1200	4300
2000	2650	16470	6.5	0.83	98.04	250	210	135	1450	4750
2500	3140	19700	7	0.82	99.08	285	220	150	1800	5600
3000	4500	24500	7	0.82	99.08	290	230	160	2000	6000

L= Length, H= Height, W= Width (All dimensions are shown including conservator tank) Above dimensions and weight can be changed upto +5% subject to change of design-data though improvement is the part of our everyday activities.



LT SWITCHGEAR

LT Switchgear facilitates the power distribution system of an electrical installation. It is considered as the heart of the system.

Main Component of LT Switchgear are Followes:

Circuit Breaker

Circuit Breaker is the main components of LT Switchgear. It gives protection to the system. Different types of circuit breaker are used in LT switchgear depending on the requirements and sensitivity of protection of the system.

- o Air Circuit Breakers (ACB) from 800A to 6300A
- o Vacuum Circuit Breaker (VCB) from 630A to 3000A
- o Molded Case Circuit Breaker (MCCB) from 10A to 1600A
- o Miniature Circuit Breaker (MCB) from 10A to 63A.



Busbar System

The busbar system is installed in the cubicle with horizontal setting including neutral. The horizontal bus bars are situated either at the top or at the middle in a segregated area at the rear of the cubicle to prevent accidental contact. The busbar in adjacent cubicles are interconnected at site after the cabinets have been fixed to the foundation. This arrangement facilitates easy extension of already existing switchgear.

- > Ammeter (To measure the current)
- > Voltmeter (To measure the voltage of the system)
- > KWH meter. (To measure the used power)
- > Current Transformer.



Fabrication

For fabrication of sheet metal we use our manual shearing and forming machine. After this process we make the necessary bending. After completing the entire fabrication all the sheet metal components undergo for an anti-corrosive 7-tank hot phosphate powder coating process i.e., alkali pickling water rinsing, acid pickling water pickling and phosphate bath in hot condition with a bath temperature of 70 to 80deg c to deposit a layer of phosphate having thickness of 10 to 15 micron and then washed by agitated water and finished by passivation bath. The total finished panels are tested through routine test by calibrated instruments for continuity, high voltage insulation, high voltage break down, primary and secondary injection etc.

AIR CIRCUIT BREAKER (ACB)

Air Circuit Breaker (ACB) is an electrical device used to provide Overcurrent and short-circuit protection for electric circuits over 800 Amps to 10K Amps. These are usually used in low voltage applications below 450V. We can find these systems in Distribution Panels (below 450V). This is sometimes referred to as automatic circuit breaker as it is controlled by microprocessor. Because it is microprocessor based control system, this is sensitive to the true r.m.s. value of the current. This makes this type of breaker very high precision and reliable.

General Features of (ACB)

- Long Maintenance free operation
- fully metal clad design
- Horizontal isolation
- Very High Operating Reliability
- Simple Maintenance and Inspection
- High Dynamic and Thermal Strength
- Special Bottle Arc-chutes
- Current Interruption without visible arcs
- Simple Driving Mechanism



ACB Panel

Technical Specifications:



Rated service voltage U_e	[V] 690 ~
Rated insulation voltage U_i	[V] 1000
Rated impulse withstand voltage U_{imp}	[kV] 12
Test voltage at industrial frequency for 1 minute	[V] 3500 ~
Service temperature	[°C] -25....+70
Storage temperature [	°C] -40....+70
Frequency f [Hz]	

Number of poles	3 - 4
Versions Fixed - Withdrawable	
Rated uninterrupted current (at 40 °C) Iu	[A] 800-1200
Capacity of neutral pole on four-pole circuit-breakers	[%Iu] 100
Rated ultimate short-circuit breaking capacity Icu(kA)	42-50
Rated service short-circuit breaking capacity Ics (kA)	42-50
Rated short-time withstand current Icw (1s) [kA]	36 – 50
Rated short-circuit making capacity (peak value) Icm [kA]	88,2 105
Closing time (max)	[ms] 80
Break time for I<Icw (max) (1)	[ms] 70
Break time for I>Icw (max)	[ms] 30

POWER FACTOR IMPROVEMENT (PFI)

The power factor is the ratio of KW to KVA. The closer the power factor approaches its maximum possible value of 1, the greater the benefit of consumer and supplier.

$$PF = P(KW) / S(KVA)$$

P = active power

S = apparent power

The value of power factor will range from 0 to 1.

A power factor close to 1 means that the reactive energy is small compared to the active energy, while a low value of power factor indicates the opposite condition.



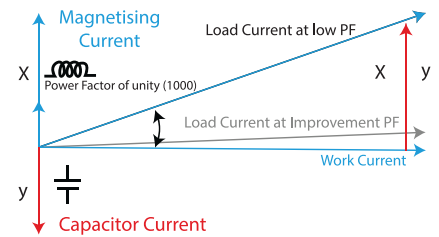
Why we use PFI plant

The reactive current circulating between the utility company's generator and the consumer converts electrical energy into heat in the power distribution system and there is an additional load on generators, transformers, cables and switchgear. Energy losses and voltage drops are incurred. If there is a high proportion of reactive current, the installed conductor cross sections cannot be fully utilized for transmitting useful power or must be appropriately over dimensioned. From the utility company's standpoint, a poor power factor increases the investment and maintenance costs for the power distribution system and these additional costs are passed on to those responsible, i.e. those power consumers with poor power factors. A meter for reactive energy is therefore installed in addition to the one for active energy.

Power Factor Correction System

Power factor correction systems consist of the following components:

- i) Reactive power control relay
- ii) Banks of capacitor switched in and out by contactors or solid-state switches
- iii) Filter reactors, if required
- iv) Audio frequency suppression circuits, if required.
- v) Group over current protection.
- vi) Thermostatically controlled cooling fan, if filter reactor installed.



The components can either be assembled on a mounting plate or, if a modular system capable of being extended at a later date is called for, in a control cabinet. Power factor correction systems are installed in power distribution networks where the reactive power demand fluctuates constantly. The capacitor power rating is divided into several sections that can be switched in and out by an automatic reactive power control relay via contactors or steady-state switches to suit load conditions. A centralized power factor correction system is easy to monitor. State of the art reactive power control relays enable switch status, cost, active current, reactor current and the harmonics present in the network to be monitored continuously. Usually the total capacitor power rating can be less than with single power factor correction since the coincidence factor can be taken into account when designing the complete industrial facility. Optimum use is then made of the installed capacitor power.

CAPACITORS



Capacitors in a PFI Plant produce the necessary leading reactive power to compensate the lagging reactive power. PFI capacitors should be capable of withstanding high inrush currents caused by switching operations (100 IR).

Three key factors are important in the operation of power capacitors in power distribution systems:

- High Overload Capacity
- Long life expectancy
- Safe reaction at overload and during possible breakdowns

PFC RELAY

Modern PFC relays are microprocessor based. The MP analyzes the signal from a current transformer and produces switching command to control the contactors that add or remove capacitor stages. Intelligent control by MP based relay ensures even utilization of capacitor stages, minimum number of switching operations and optimized life cycle of capacitor bank.



CONTACTOR

Magnetic Contactors are electromechanical switching elements used to switch capacitors or reactors.



FUSE



HRC fuse rating should be 1.6 or 1.8 times to nominal capacitor current. HRC fuses should not be used for switching. HRC fuse cannot give protection against over load or short circuit protection.

Fabrication

For fabrication of sheet metal we use our manual shearing and forming machine. After this process we make the necessary bending. After completing the entire fabrication all the sheet metal components undergo for an anti-corrosive 7-tank hot phosphate powder coating process i.e., alkali pickling water rinsing, acid pickling water pickling and phosphate in hot condition with a bath temperature of 70 to 80deg c to deposit a layer of phosphate having thickness of 10 to 15 micron and then washed by agitated water and finished by passivation bath. The total finished panels are tested through routine test by calibrated instruments for continuity, high voltage insulation, high voltage break down, primary and secondary Injection etc.



HT SWITCHGEAR

VACUUM CIRCUIT BREAKER (VCB)

PACIFIC POWERTECH LTD. manufactures 11 KV indoor vacuum switchgear using VD4 fixed vacuum circuit breakers. One of the most effective ways of interrupting an arc circuit is to do so by means of contact in the Vacuum. Vacuum Circuit Breaker (VCB) is used as HT switchgear switching breaker in application from 630A to 3000A panels.



General Features of (VCB).

- Metal clad horizontally withdrawable, dust and vermin proof Extensible, modular construction.
- Ceramic interrupter for better electrical & mechanical properties.
- Optimum mechanical stability and uniform distribution of electromagnetic forces.
- High reliability.
- Stored energy type motor charged, spring closing mechanism.
- Fully interlocked for operational safety.
- Test position of VCB truck within house, door locking possible in this condition.
- High dielectric grade heat shrinkable busbar sleeves.
- Fire retardant high strength grade of insulation sheet is used as insulation barrierst.

Technical specifications :



VCB Panel

Rated Voltage (kV)	12
Frequency (Hz)	50
Rated Insulation level (1 min) kV rms	28/36
1.2/50 micro sec. impulse (kV peak)	75/95
Rated Current A	630/1250/2000
Rated short time current rating (3 Sec)	25/31.5/40
Rated short circuit breaking current (kA)	25/31.5/40
Rated short circuit making current (kA)	63/80/100
Operating Duty	0-3 min-co-3 min-co
Operating time	< 70ms
Operating Cycles	< 2 Cycles

LOAD BREAK SWITCH (LBS)

This protective equipment is used for Low voltage & medium voltage system, its usually used for 11kV system, Load break switch (LBS) mechanism is available for 630A, and over current protection scheme is done through HRC fuse, The panel includes 3 Numbers of CT (Current transformer) and 3 Numbers of PT (Potential transformer) for measuring system current and voltage, The HRC fuse protect overload or any short circuit, The panel also include 3 numbers of Ampere meter & one voltmeter with selector switch for monitoring different.

The Construction is of metal clad type and uses high grade steel of adequate thickness ensuring safety and security, the panel size is 900 mm x 1000 mm x 1800 mm and weight almost 450kGs



LOAD BREAK SWITCH



HT CT



HT PT

General Features of (LBS)

- Long Maintenance free operation
- Fully metal clad design
- Horizontal isolation
- Very High Operating Reliability
- Simple Maintenance and Inspection
- High Dynamic and Thermal Strength
- Special Bottle Arc-chutes
- Current Interruption without visible arcs
- Simple Driving Mechanism



LBS Panel

Technical Specifications:

Rated service voltage U_e	[V] 690 ~
Rated insulation voltage U_i	[V] 1000
Rated impulse withstand voltage U_{imp}	[kV] 12
Test voltage at industrial frequency for 1 minute	[V] 3500 ~
Service temperature	[°C] -25....+70
Storage temperature	[°C] -40....+70
Frequency f	[Hz] 50 - 60
Number of poles	3 - 4
Rated uninterrupted current (at 40 °C) I_u	Versions Fixed - Withdrawable [A] 800-1200
Capacity of neutral pole on four-pole circuit-breakers	[% I_u] 100
Rated ultimate short-circuit breaking capacity I_{cu}	(kA) 42-50
Rated service short-circuit breaking capacity I_{cs}	(kA) 42-50
Rated short-time withstand current I_{cw} (1s)	[kA] 36 – 50
Rated short-circuit making capacity (peak value) I_{cm}	[kA] 88,2 105
Closing time (max)	[ms] 80
Break time for $I < I_{cw}$ (max) (1)	[ms] 70
Break time for $I > I_{cw}$ (max)	[ms] 30

LIGHTING ARRESTOR

Technical Specification	
Rated Voltage (RMS)	: 9 W
Rated System voltage	: 12 kV
Frequency	: 50 Hz
Minimum Spark Over (RMS)	: 14 kV
Maximum Spark Over (RMS)	: 40 kV
Maximum Impulse Spark (Crest)	: 45 kV
Withstand Voltage Wet, 10 sec.	: 24 kV
Dry, 1 min.	: 28 kV
Discharge 33 kV (Crest)	: 5 kA
Impulse Current Withstand	: 55 M



DROPOUT FUSE

Technical Specification	
Rated Voltage (Nominal)	: 11 KV
Rated Maximum Voltage	: 15 KV
Rated Frequency	: 50 Hz
BIL	: 75KV
Rated Current RMS	: 100 A
Interrupting Current RMS	: 10 KA
Withstand Test Voltage Dry. 1 Min.	: 35 KV
Wet, 10 Sec.	: 30 KV



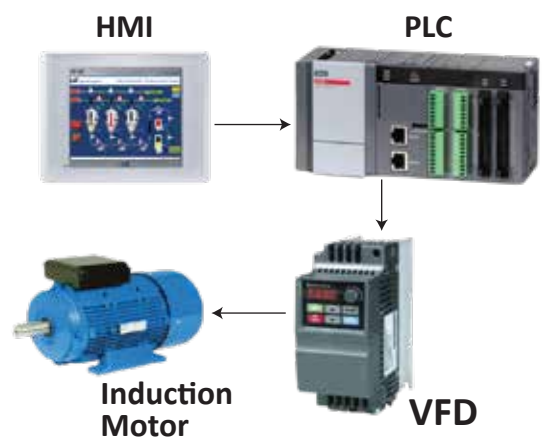
Industrial Automation Solutions

Automation is a process which is used for automatic controlling of a complex electro-mechanical systems. This system inspired by the earlier word automatic (coming from automaton), was not widely used before 1947, when Ford established an automation department. It was during this time that industry was rapidly adopting feedback controllers, which were introduced in the 1930s. It improves productivity by taking over tasks that were performed by humans. Thus it reduces employees. Furthermore it is reliable and it reduces break down time. Nowadays engineers can monitor and control all the machine parameter from a single control room. With this system machine status can be recorded in a remote database and it can deliver a historical report. PLC (Programmable logic controller) is the main component of automation process. PLC Programming can be done using a PC. Most popular brand of PLC, HMI, Servo Drive and inverter are Siemens, Mitsubishi, Yaskawa, Omron etc.

Benefits:

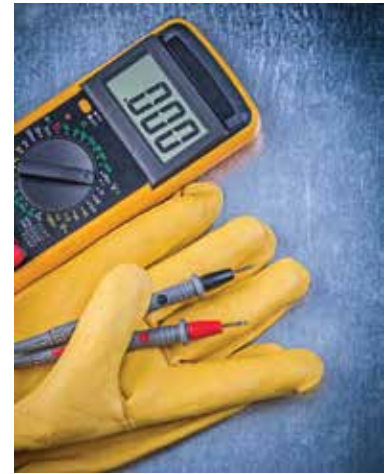
1. Increase of productivity
2. Monitoring and controlling the machinaries from remote stations.
3. Historical record of machine status.
4. Minimizing installation and commissioning time.
5. Minimizing break down time.
6. Easy troubleshooting and maintenance.
7. Reduces costs
8. Improves quality
9. Improves efficiency
10. Make manufacturing better

In a short term it entails the use of technology and control systems to replace human mental and physical labor in the engineering and manufacturing sector.



Services

- Programmable Logic Controller (PLC) Programming
- SCADA System Design.
- Instrumentation And control Hardware Selection .
- Control Panel design and assembling.
- Servo drive control.
- Instruments Field Installation, Wiring & containment system.
- System Commissioning, Startup & Documentation.
- Annual Maintenance Contract (AMC).
- Electrical Load Sanction from DESCO, DPDC, BPDB, REB etc.



Products

Electrical & Control Panel Design and Assembly Our in-house capability to design and build electrical power and control panels enables us to be the single source for all of your Electrical, Instrumentation, and Controls needs. Our team of electrical engineers and assembly technicians are capable of the design and assembly of various types of low voltage panels adhering to the project specifications and the local Utilities rules and regulations complementing our automation solutions and facilitating the seamless integration of the automation and the electrical systems. Our production capabilities including the design and assembly of:

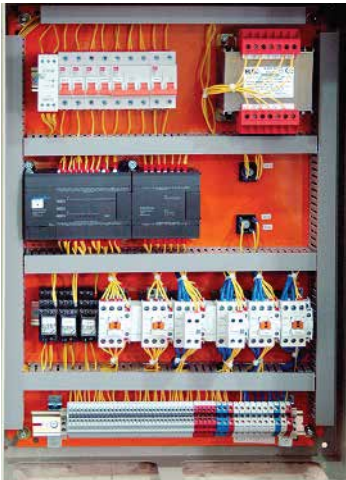


PLC-HMI-SCADA Panel



Motor Control Center (MCC)

- PLC and I/O Control Panels
- RTU Pane
- Low Voltage Motor Control Centers (LV MCC)
- Variable Frequency Drives (VFD) Panels
- SERVO Drive Controlling Panel
- DOL and Star-Delta Starters
- Distribution Boards (DB)
- Automatic Transfer Switch (ATS)



PLC Control Panel



Distribution Board



Elevator Control Panel

Industry Expertise

UTILITIES:

- Water Distribution & Pumping Station Automation
- Substation Automation
- Water & Waste Water Treatment Automation
- Boiler & Combustion Management Automation
- Hospital
- Tourism

MANUFACTURING

- Textile and Apparel
- Jute and Spinning
- Cement
- Leather
- Auto Rice mill
- Food & Beverage
- Pharmaceutical
- Plastic & Molding





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AT AFFORTABLE PRICE.
- ◆ DACADES OF EXPERIENCE IN ENGINEERING
AT YOUR SERVICE.



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