

Profile

Sub-Station, Testing & Commissioning



System Engineering Ltd.

Always with our customer



since 2000

Introduction

System Engineering Ltd. is one of the most reputed organizations in Bangladesh for different kind of Industrial Automation works, Electro-Mechanical & Electrical Engineering works, Plant Erection & maintenance, Lighting Automation, Energy Management, Power Distribution, Transmission & Man-Machine Customization, etc. Its objective is to help to make maximum return from systems. It has self-supported expertise technical teams with modern tools & technology.

System Engineering Ltd. well organized with testing equipments that confirms the healthiness, efficiency & rated value of your Sub-Station & LV/MV electrical apparatus like; Transformer Test & Diagnostic, Protection Relay & System Test, Cable test & Diagnostics, Circuit Breaker, General electrical Test etc.

System Engineering Ltd. is authorized sole-agent of some world-class manufacturers in Bangladesh. SEL has selected these companies for their high quality products with justified price for Bangladesh. SEL thinks, high quality products & services are the most important factors to our industrial sector for developing our country.

The company enjoys good reputation due to its quality product sales and after sales services, innovation, productivity and customer support. The company is looking forward to provide with efficient customer service, support and better technology to the local market.



Vision

To be a Leader of Implementing latest technology in the industrial sector in Bangladesh

Mission

Always with our customer

Core value

- High Quality
- Reasonable Cost
- Timely Delivery
- Prompt Service



Quality Policy

System Engineering Limited (SEL) has been passionately working hard to manufacture the finest quality of Sub-Station equipment (like Transformer and Switch-gear Panel) through maintaining the standard procedures of inspection and testing. To achieve its goals, SEL is committed to meet or exceed its customers' expectations being focused on continuous improvement of production processes, operational activities and enhancing employees' knowledge, skills and competencies. SEL strives to achieve quality by practicing the following actions:

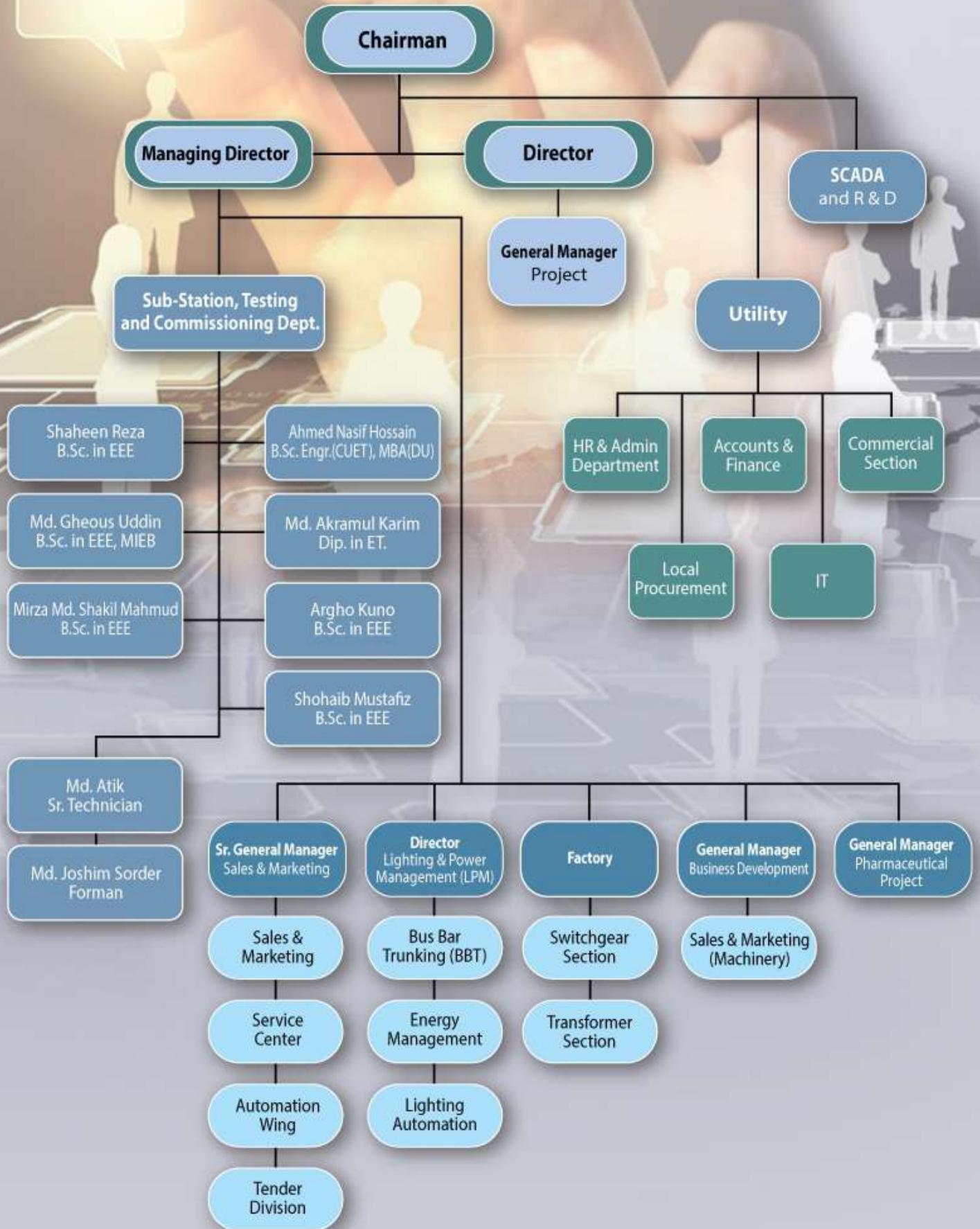
- Providing customers with high quality installations and services which meet requirements and are fit for their purpose.
- Operating the business to the systems required by ISO 9001: 2015.
- Enhancing the skills of management and production staff through review and actively pursuing an on-going training policy, the objective of which is to prepare staff to perform their work more effectively.
- Promoting the quality driven culture and the philosophy of getting things done in a right manner.
- Rigorously controlling the supply, installation and completion to the steps of all processes.
- Promoting the quality management systems and ensuring implementation is achieved by internal auditing and management review and taking corrective and preventive action.
- Engaging everyone responsible for the quality within the company and for maintaining high-standards.
- Sourcing high quality raw materials through maintaining a supplier database



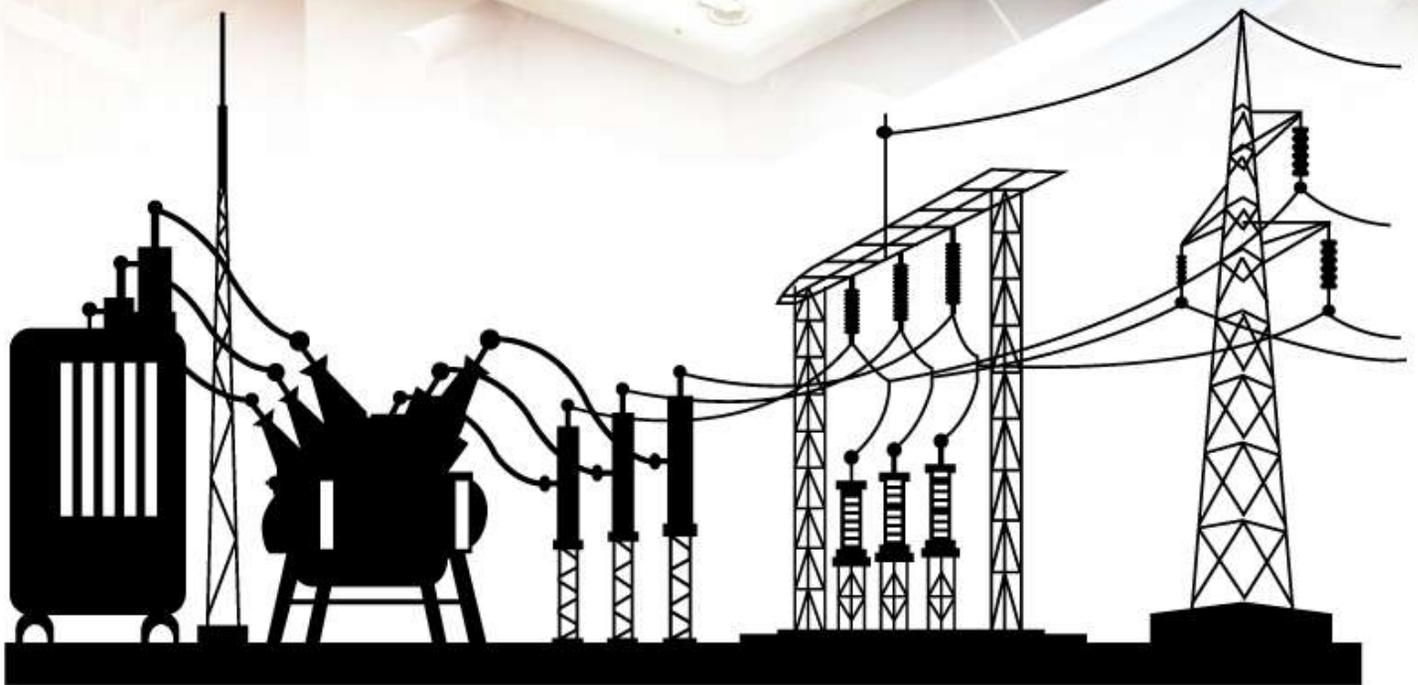
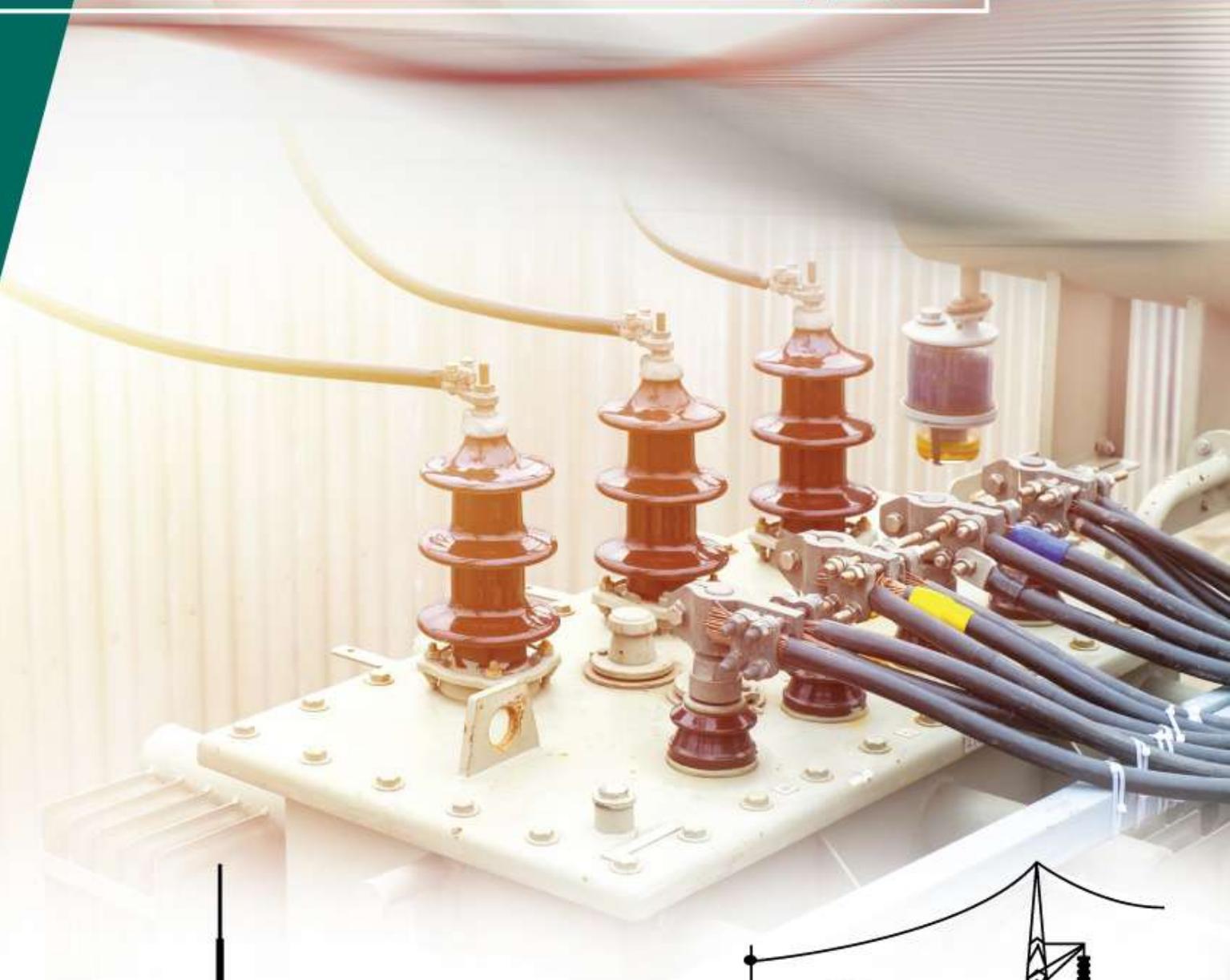
System Engineering Ltd.
Always with our customer



Corporate Organogram



List of Our Testing Equipment



LIST OF OUR TESTING EQUIPMENT

SL No.	Equipment Name	Brand & Country of Origin	Model	Unit	Remarks
01	Transformer & Substation Test System	Megger, Sweden	TRAX 280	Set	Portable
02	Tan Delta, Capacitance & Dissipation Test System	Megger, Sweden	TDX 120	Set	Portable
03	Automatic Switch Box System	Megger, Sweden	TSX 303	Set	Portable
04	Programmable Relay Testing System	Megger, USA	SMRT 410D	Set	Portable
05	Oil Test Cell	Megger, Sweden	670571	Set	Portable
06	Digital Earth Leakage Clamp Meter	Megger, Japan	DCM300E	Set	Portable
07	Digital Earth Tester	KYORITSU, Japan	KEW 4105A	Set	Portable
08	Winding Resistance Tester	Vanguard, USA	WRT-10	Set	Portable
09	Automatic Turn Ratio Tester	Vanguard, USA	ATRT-03	Set	Portable
10	Variable AC Voltage Supplier (600A)	Variable Voltage (0-415V), China			
11	Variable AC Voltage Supplier (200A)	Variable Voltage (0-415V), China		Set	Portable
12	Variable AC Voltage Supplier(25A)	Variable Voltage 0-415V), India		Set	Portable
13	Variable Single Phase Current Injector (0-800A)	India	PIK - 800	Set	Portable
14	AC Hi-pot Tester (0-100kV)	Phenix Technologies, USA	6CP100/50 - 7.5	Set	Portable
15	DC Hi-pot Tester (0-75kV)	Phenix Technologies, USA	475 - 20	Set	Portable
16	Insulation Resistance Tester (10kV)	Metrel D.D. (Slovenia)	MI3200	Set	Portable
17	Power Quality Analyzer	Metrel D.D. (Slovenia)	MI2792	Set	Portable
18	Transformer Oil Test Machine (0-80kV)	Phenix Technologies, USA	LD 75	Set	Portable
19	Transformer Oil Centrifuge Machine (0-3000L/H)	Cando Trading Co. Ltd, China	ZJB3KY	Set	Portable



LIST OF OUR TESTING EQUIPMENT



SL No.	Equipment Name	Brand & Country of Origin	Model	Unit	Remarks
20	High Voltage Test Machine (0 - 100KV)	SHANGHAI JUTER HIGH VOLTAGE ELECTRICAL & EQUIPMENTS CO.LTD. China	JTGN -20kVA/ 100kV	Set	Portable
21	Digital Power Meter	YOKOGAWA, Japan	WT230 (Code -760502)	Set	Portable
22	Insulation Resistance Tester (5 kV)	Metrel D.D (Slovenia)	10-TOhm	Set	Portable
23	Insulation Resistance Tester (1 kV)	Hioki, Japan	4-MOhm	Set	Portable





TRANSFORMER TESTING

Tests done at factory

1. Type tests
2. Routine tests
3. Special tests

Tests done at site

1. Pre-commissioning tests
 2. Periodic/condition monitoring tests
 3. Emergency tests
- 



TRANSFORMER TESTING

Type tests of transformer include:

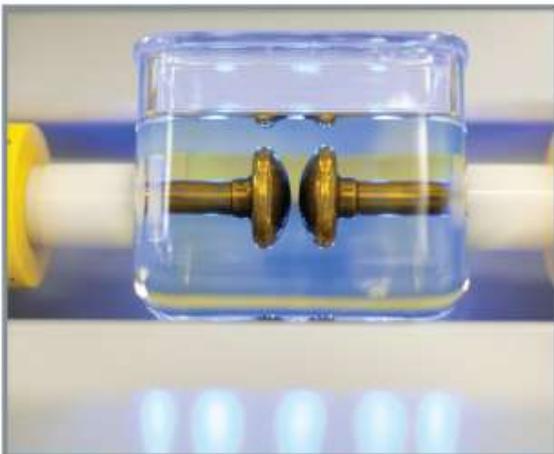
1. Winding resistance test of transformer
2. Transformer ratio test
3. Transformer vector group test
4. Measurement of impedance voltage/short circuit impedance (principal tap) and load loss (Short circuit test)
5. Measurement of no-load loss and current (Open circuit test)
6. Measurement of insulation resistance
7. Dielectric tests of transformer
8. Temperature rises test of transformer
9. Tests on on-load tap-changer
10. Vacuum tests on tank and radiators



TRANSFORMER TESTING

Routine tests of transformer include

1. Winding resistance test of transformer
2. Transformer ratio test
3. Transformer vector group test
4. Measurement of impedance voltage/short circuit impedance (principal tap) and load loss (Short circuit test)
5. Measurement of no-load loss and current (Open circuit test)
6. Measurement of insulation resistance
7. Dielectric tests of transformer.
8. Tests on on-load tap-changer.
9. Oil pressure test on transformer to check against leakages past joints and gaskets



TRANSFORMER TESTING

Special Tests of transformer include

1. Dielectric tests.
2. Measurement of zero-sequence impedance of three-phase transformers
3. Short-circuit test
4. Measurement of acoustic noise level
5. Measurement of the harmonics of the no-load current.
6. Measurement of the power taken by the fans and oil pumps.
7. Tests on bought out components / accessories such as Buchholz relay, temperature indicators, pressure relief devices, oil preservation system etc.



TRANSFORMER TESTING

Pre-commissioning tests of the transformer include

- Operational checking of the protection system
- Insulation resistance (IR) measurement
- Measurement of capacitor bushings
- Measurement of voltage ratio (turns ratio)
- Measurement of vector group or polarity of the transformer
- Measuring of winding resistance
- Measurement of vibration of the transformer
- Test of the magnetic balance of the transformer
- A measure of Frequency Balance Response (FRA) of the transformer
- Measurement of floating neutral point
- The measure of short-circuit impedance and magnetizing current of the transformer
- Operational measurement on OLTC'S
- Measurement of stability of differential, REF of transformer
- Measurement of bushing current transformers (BCT'S)

TRANSFORMER TESTING

Periodic/Condition Monitoring Tests

These tests are used to enhance the performance and check the condition of the transformer periodically. The condition of the transformer is checked periodically whether it meets the customer requirements. These tests are carried out on the site after the operation of the transformer on a regular basis like weekly, monthly and annually. The periodic maintenance plans of the transformers depend on the type of transformer used. These tests help to detect the faults during the early stages by monitoring the performance of the transformer periodically. For example, in the measurement of insulation resistance of the transformer, if the value falls below the normal, it shows that the defect is in the beginning stage.

Emergency Tests

These tests are carried out at the site to check the problems or damages of the transformer during the operation. For example, high-temperature measurement even though the ventilators work efficiently, and also includes measurement of resistance in windings and analysis of oil used in the cooling of the transformer.



LIST OF TOOLS & EQUIPMENT

SL No.	Name of the Equipment
1	SF6 Service Cart/SF6 Gas Handling Device
2	SF6 Multi-Analyzer
3	SF6 Leak Spy/Leak Detector
4	33KV GIS Vacuuming Kit
5	Double Stage Transformer Oil Filtration Machine, 8000LPH
6	Double Stage Transformer Oil Filtration Machine, 4000LPH
7	Transformer Vacuum Pump/Roots Pump
8	Dry Air Generator
9	Breakdown Voltage Tester
10	PPM Tester
11	Moisture & Dewpoint Tester
12	Mercury Gauge
13	Welding Machine
14	Grinding Maching
15	Magnetic Drill Machinr





List Of Tools & Equipment

SL No.	Name of the Equipment
16	Iron Drill Machine (Heavy duty)
17	Hammer Drill
18	Double Chain Block (Heavy duty: 5 ton X 5 meter)
19	Chain BLOCK 1500kg 1.5-meter stroke 3 TON
20	Chain Pully (3 ton)
21	Hook Type Pully (3.2 ton)
22	Lever Hoist (3 ton X 3 Meter)
23	Hydraulic Pallet Trolley (3 ton)
24	Punch Machine (Heavy duty) 2 Hole & 3 Hole
25	Small Chain pulley 750kg 1.5-meter stroke
26	Hydraulic Cable Punch Machine
27	Lifting Sling Belt (8 ton X 5 Meter)
28	Spanner Set
29	Adjustable Wrench
30	Torque Wrench
31	Metal Spirit Level (400mm & 1000mm)
32	Round Sling 2Ton 2.5 Meter
33	Round Sling 5Ton 1.5 Meter
34	Round Sling 2Ton 10Meter
35	Round Sling 2Ton 5Meter
36	Hydraulic Bottle Jack (10 &20 Ton) Red, China

Transformer Division



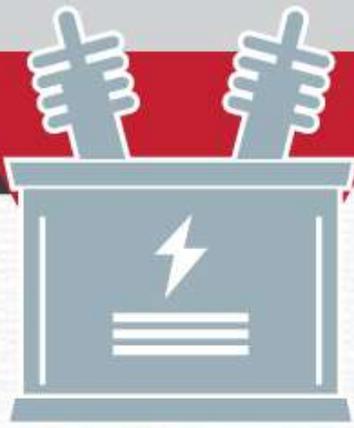
Oil-Immersed Transformer

At SEL, we are constantly striving to introduce new innovations to the transformer industry, bringing you the highest quality, most reliable transformers. SEL Reign transformer emphasizing process improvement in all phase of design, manufacture, and testing.

In order to drive this innovation, we have invested both time and money to satisfy our customers. We put our products into various tests to increase the quality of transformer.

SEL REIGN Transformer adopts a structure that can reduce the loss, and it ensures the electrical stability of the transformer by selecting the high efficiency and optimum insulation structure.





Transformer Division

PROCESS

Winding

Process for manufacturing winding of rectangular & circular shaped high grade imported copper wire (Purity over 99.99%) which flows the current.

The winding is very important & sensitive part of a transformer. The winding machines are separated into vertical & horizontal types. Vertical is used for high voltage (HV) low currents conditions with a small number of conductors and implements a complex winding method. Similarly, horizontal type is used for low voltage (LV) high current type with large number of conductors.



Core Cutting & Assembling

The cores are produced by high grade grain-oriented Silicon Steel Sheets(0.27mm) are stacked to form magnetic circuits that are capable of generating of magnetic flux and SEL ensure a noise less, low no-load losses by maintaining properly stacking method and high-quality materials as well as expert technical hands.



Tank

The Tank and Top-Cover are made of Lamination free, high quality steel sheet, fabricated of rigid bottom. Each tank is tested with 0.5 KG pressure and 100% vacuum to ensure no-leakage and withstand during short circuit of the Transformer. High skilled welder and fabrication persons are equipped with modern tools for making the Transformer tank.



Transformer Division



TAP-Changer

Is to change the turn ratio by adding or reducing the specified turns from the winding circuit to have the required ratio. Based on customer requirement off-load or on-load Tap-changer can be provided as 5, 7, 9, 17 & 21 positions and ranging up to +/- 20% of the rated voltages. Both in-tank and on-tank type tap-changer can be provided as required.

SHORT CIRCUIT (IMPEDANCE) VOLTAGE

The short circuit impedance voltages are generally

KVA	Minimum Impedance
Up to 630	4%
631 to 1250	5%
1251 to 2500	6%
2501 to 6300	7%
6301 to 25000	8%
25001 to 40000	10%
40001 to 6300000	11%
6300001 to 100000	12.50%
above 100000	>12.5%



Bushings

Three high voltage porcelain bushings for in-door or out-door services. Four low-voltage bushings including Neutral.



Oil-level Gauge on Conservator

Is used to monitor the oil level of a Transformer. It has the maximum and minimum level indicator is to prevent over flow of oil due to heating.



Silica-gel dehydrating breather

Is used to take out the moisture of the air that enters through the conservator when the Transformer is in operation.

ACCESSORIES

Following standard fittings are provided on the transformers

Transformer Division



Buchholz Relay

Is a protection device for monitoring the gas and oil movement in oil immersed Transformers and to detect the faults and minimize the propagation of damages.



Pressure Relief Device

Is used to prevent the rapid build-up of pressure within the Transformer tank that might cause an explosion hazard.



Connector

Made of mixed alloy up to 2500A rating can be provided.



Radiator

Is used to dissipate the heat generated due to the losses of transformer. Transformer bigger than 500 kVA can be provided with detachable radiator along with isolating valve for transport facility.

TESTING



- Ratio Meter, Vanguard USA
- Winding resistance Meter, Vanguard USA
- Power Analyzer, Yokogawa, Japan.
- HV Testing Transformer, Juter, China
- Insulation resistance tester, Metrel, Slovenia
- Instrument transformer (CT, PT), AE, India





QUALITY CONTROL

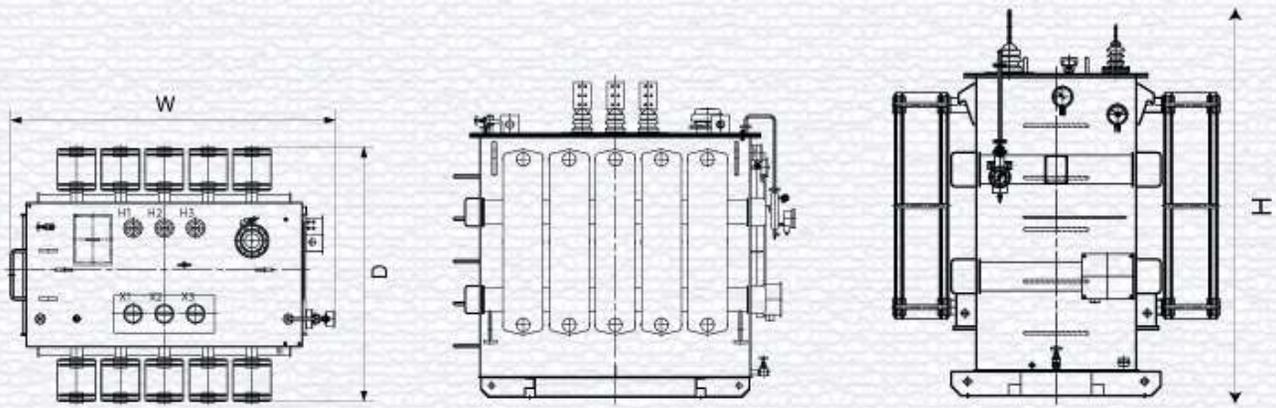


QUALITY CONTROL

Specimen	Check point / Test performed	Tools for Checking
Incoming Inspections		
Core	<ul style="list-style-type: none"> Specific loss Thickness 	AS per SEL Transformer
Copper Conductor	<ul style="list-style-type: none"> Resistivity Dimensions Width & Thickness(Bare) 	Process Manual
Insulating Material	<ul style="list-style-type: none"> Density Shrinkage(for paper) Electric strength Thickness 	
Transformer Oil	<ul style="list-style-type: none"> Appearance Density BDV Tan delta Resistivity at 27 deg.C & 90 deg.C 	
Gaskets	<ul style="list-style-type: none"> Thickness Hardness 	
Raw Material Tank & Conservator	<ul style="list-style-type: none"> Type of material Thickness 	
Tank Assembly	<ul style="list-style-type: none"> Overall dimensions Weld finish & size Welding distances & Alignment Leakage, Pressure & Vacuum test Paint adhesion test Measurement of paint Film thickness 	
Radiator	<ul style="list-style-type: none"> Visual & Dimension Pressure test & leakage test Paint thickness 	
Bushings	<ul style="list-style-type: none"> Mounting Dimensions Electrical Routine Tests as per relevant std. 	
Tap Changing Switch	<ul style="list-style-type: none"> Type / Rating Physical condition Mechanical operation Check Insulation resistance test 	

In Process Checking/ Testing

Assembled Core	<ul style="list-style-type: none"> Visual Stack height H.V.test between Core & clamps 	AS per SEL Transformer Process
Wound coils	<ul style="list-style-type: none"> Visual check Lead disposition 	
Coil & Core assembled	<ul style="list-style-type: none"> 1kV-5KV insulation test (Depend on Transformer) Measurement of Voltage ratio Magnetizing Current & Magnetic balance 	
Assembled Transformer	<ul style="list-style-type: none"> Completeness of the Transformer for all Fittings, finish level etc. 	
Final testing Routine test	<ol style="list-style-type: none"> Measurement of winding resistance Measurement of voltage ratio and check of phase displacement Measurement of short-circuit impedance and load loss Measurement of no-load loss and current Dielectric Routine Tests <ol style="list-style-type: none"> Separate Source Voltage Withstand Test (HV Test) Induced Over Voltage Test (DVDF Test) Tests on on-load tap-changers, where appropriate 	As per IEC-60076 or Other International Standard as customer required
Type test	<ul style="list-style-type: none"> Temperature Rise Test. 	



Dimensions & Specification (11/0.415 KV)

rating [KVA]	losses [W]		V _{cc} V _{cc'} [%]	no-load current [%]	noise [dB] [A]	full load regulation [%]		efficiency [%]					weights [Kg]		overall dimension [mm]					
	no-load	load				[cos φ]		cos φ=1			cos φ = 0,8			oil	total	fig	Lu	La	H	D
						cos φ 1	cos φ 0,8	100%	75%	50%	100%	75%	50%							
100	320	1750	4	2,5	59	1,815	3,575	97,97	98,29	98,51	97,48	97,87	98,14	140	600	1	1150	700	1300	520
150	460	2350	4	2,3	62	1,538	3,429	98,27	98,54	98,71	97,85	98,18	98,39	160	750	1	1300	780	1300	520
200	540	2750	4	2,1	64	1,446	3,378	98,38	98,63	98,79	97,99	98,29	98,49	175	880	1	1350	780	1350	520
250	650	3250	4	2,1	65	1,372	3,335	98,46	98,70	98,84	98,09	98,38	98,56	195	1000	1	1400	830	1350	520
315	770	3850	4	2,0	66	1,295	3,290	98,56	98,77	98,91	98,20	98,47	98,64	225	1160	1	1450	850	1400	670
400	930	4600	4	1,9	68	1,223	3,247	98,64	98,84	98,97	98,30	98,56	98,72	255	1350	1	1500	920	1400	670
500	1100	5500	4	1,9	69	1,174	3,217	98,70	98,89	99,02	98,38	98,62	98,78	290	1580	1	1550	1030	1400	670
630	1300	6500	4	1,8	70	1,106	3,175	98,78	98,96	99,08	98,48	98,71	98,85	360	1850	1	1650	1100	1500	670
800	1400	8300	6	1,7	72	1,212	4,460	98,80	99,00	99,14	98,51	98,75	98,93	430	2250	1	1780	1230	1550	670
1000	1700	10500	6	1,5	73	1,224	4,468	98,79	99,00	99,14	98,50	98,75	98,93	480	2600	1	1750	1250	1600	820
1250	2100	13100	6	1,4	75	1,223	4,467	98,80	99,00	99,15	98,50	98,75	98,94	550	3050	1	1860	1280	1700	820
1600	2600	17000	6	1,3	76	1,237	4,477	98,79	99,00	99,15	98,49	98,75	98,94	660	3700	1	2050	1500	1800	820
2000	3200	22000	6	1,2	79	1,274	4,501	98,76	98,97	99,14	98,45	98,72	98,92	820	4250	1	2150	1600	2150	1070
2500	3800	26500	6	1,1	81	1,234	4,475	98,80	99,01	99,17	98,51	98,77	98,97	940	4900	1	2350	1650	2150	1070
3150	4400	34000	6	1,0	83	1,254	4,488	98,80	99,01	99,19	98,50	98,77	98,99	1050	5800	1	2950	1700	2200	1070

Transformer Rating Chart (33/11KV & 33/0.415KV)

Sl. NO	KVA Rating	Impedance (%)	Voltage Ratio (KV)	Current Rating (A)	Sl. NO	KVA Rating	Impedance (%)	Voltage Ratio (KV)	Current Rating (A)
1	100	4	33/0.415	1.7/139.1	18	5000	8	33/11	87.4/262.4
2	150	4	33/0.415	2.6/209.1	19	7500	8.5	33/11	131.2/393.6
3	200	4	33/0.415	3.4/278.28	20	10000	8.5	33/11	174.9/524.8
4	315	4	33/0.415	5.5/438.2	21	12500	10	33/11	218.6/656.07
5	400	4	33/0.415	6.9/556.48	22	10~12	10	33/11	209.9/629.8
6	1250	7	33/0.415	21.8/1739	23	10~13	10	33/11	227.4/682.3
7	1600	8	33/0.415	27.9/2225.9	24	10~14	10	33/11	244.9/734.8
8	2000	8	33/0.415	34.9/2782.4	25	12~14	10	33/11	244.9/734.8
9	2500	8	33/0.415	43.7/3478.01	26	12~16	10	33/11	279.9/839.7
10	3000	8	33/0.415	52.4/4173.6	27	20000	10	33/11	349.9/1049.7
11	3150	8	33/0.415	55.1/4382.29	28	20~22	10	33/11	131.2/393.6
12	3500	8	33/0.415	61.2/4869.2	29	21500	10	33/11	376.1/1128.4
13	3750	8	33/0.415	65.6/5217	30	22~24	10	33/11	419.8/1259.6
14	3750	8	33/11	65.6/196.8	31	24~30	10	33/11	524.8/1574.5
15	4500	8	33/0.415	78.7/6260.4	32	31500	10	33/11	551.1/1653.3
16	4500	8	33/11	78.7/236.1	33	16~20		33/11	349.9/1049.7
17	5000	8	33/0.415	87.4/6956.02					

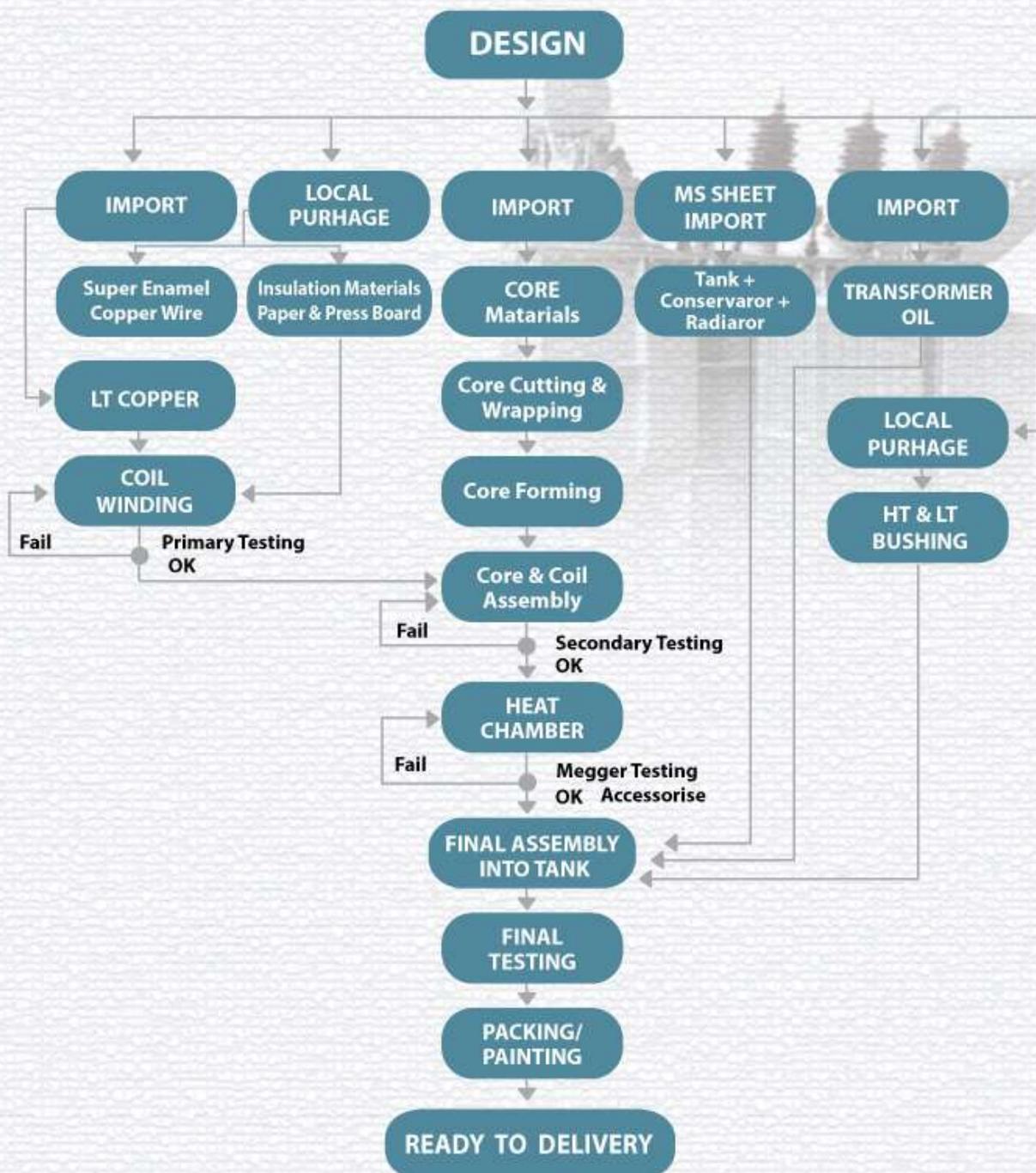
Production Flow System

SEL reign transformers are manufactured in accordance with the quality system as per ISO 9001: 2015.

The quality system is aimed at achieving customer satisfaction in terms of design, quality, service, and adaptation of equipment in line with technology.

The process includes the manufacturing flow chart, internal audit, control non-conforming product, corrective action, quality checking, quality of suppliers and others.

TRANSFORMER PRODUCTION FLOW CHART



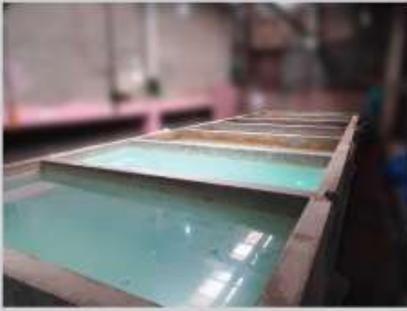
Switchgear Division

System Engineering Ltd. does design of switchgear in accordance with international (IEC-61439) standards and gives an optimal solution to satisfy the customer requirements for switchgear in electrical networks like-

- Power stations
- Industry
- MV/LV substations
- Infrastructure



Switchgear Division



■ **System Engineering Ltd.** is manufacturing switchgear by maintaining IP20, IP42, IP43 & IP53. Now our main focus is to manufacture switchgear in accordance with IP54 and we are working on it.

■ **System Engineering Ltd.** is able to manufacture different form of switchgear panel like form 2a, 2b, 3a, 3b and 4a (Type 1, 2), 4b (Type 3, 4, 5, 6, 7).

■ **SEL switchgear specialty-**

- Standard- IEC 61439,
- ISO Certified (9001:2015)
- Operational reliability
- Available cooling system
- Easy to install
- Maintenance and service friendly

Different type of switchgear panels which are manufactured by System Engineering Ltd. in our own factory are given below-

- **H.T Panel (VCB Panel)**
- **LBS (Load Break Switch) Panel**
- **H.T Metering Panel**
- **33KV Control Panel**
- **RTCC Panel**
- **L.T Panel**
- **P.F.I Plant**
- **ATS Panel**
- **MCC Panel**
- **PMCC Panel**
- **MDB**
- **DB & SDB**

■ **System Engineering Ltd.** has successfully done assemble of type tested panels (L.T, P.F.I, ATS, MDB, DB, SDB) of ABB. But SEL is capable to assemble all types of type tested panel of any brand.

■ **As per IEC 61439, the below mentioned routine tests are done in our SEL factory-**

- Degree of protection IP provided by an assembly enclosure
- Clearances and creepage distances
- Protection against electric shock and integrity of the protection circuits
- Incorporation of built-in components
- Internal electrical circuits and connections
- Terminals for external conductors
- Mechanical operation
- Dielectric properties
- Wiring, operational performance and function.

HT Switchgear



In an electrical power system, switchgear is the combination of electrical disconnecter switches and switchboards. In a HT Switchgear the LBS, VCB, SF6 Circuit Breaker used as a main part or disconnecter into the optimized design switchboards.

We are also providing very high quality smart & economic design "Ring main Unit (RMU) as HT Panel" using in populated & expensive land area for multi feeder In coming & Out Going. Ensuring a smart operation, low cost & sustainable plant.

Basic function

- Controlling or Switching (High Voltage, like: 11KV, 33KV).
- Protection against (Overload, Short Circuit, Earth Fault Or any other Electrical Faults).
- Reading of Electrical Quantity (Like: Current, Voltage, Frequency).

Testing of HT Switchgear

Tested Before Assembly

Main Components Like LBS, VCB, SF6 test.
 HT/PT & HT/CT Test.
 IDMT Relay Test.
 Multifunction, Ampere & KV Meter execution ensuring.
 Insulator, Busbar, Lamp & other accessories testing as required.

Tested After Assembly

Power & Control Wiring Test as per design.
 Continuity Test.
 Insulation Resistance Test.
 Mechanical Fittings, Components Fittings & Position as per design checked.

Final Check & dispatch



Type of HT Switchgear

- Fixed Type.
- Draw-Out Type.

LT Switchgear

Basic function

- Controlling, Switching & smart Distribution the power.
- Protection against Over Load, Short Circuits, Earth Fault & other Electrical Faults.
- Observe or reserve the Electrical Quantity Like, Current, Voltage, Frequency etc.

Construction of Switchgear

Main Components

Like CB, MC, TOR and measuring & controlling device imported (Like LS, ABB, Autonics, etc.)

Frame or Body

By MS Sheet size as required & standard.

Cable

Well reputed Bangladeshi Manufacturer high quality Cable Like BRB, BBS, RR, Eastern etc. maintaining the color & properly control marking.

Busbar

imported & Properly insulated copper Busbar standard size for different rating.

Painting

After a proper chemical treatment, painted (Siemens Gray) at high temperature in a well setup powder coating plant.

Conductor Termination

Suitable for BBT & Cable connection, Bottom in -Top Out or Reverse or Both are designed as customer demand.



LT- Switchgear

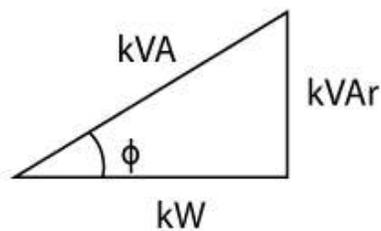


Power Factor Improvement (PFI) Plant



Power Factor

Power factor is the ratio between the 'Real Power' and the 'Apparent Power' of an electrical system.



"Real" power = working power = kW

"Apparent" power = Volts x Amps = kVA

"Reactive" power = magnetizing power = kVAR

What is VAR/KVAR

Electrical equipment like motors and transformers require reactive power create a Magnetic Field and allow work to be performed.

This reactive power is called "volt-amperes-reactive" or VAR's

Reactive power is measured in VAR or KVAR.





Somebody has to pay for capacity and losses



Sources of Low Power Factor

Reactive power is required by many loads to provide magnetizing current for:

- Motors
- Electric arc furnaces
- Power transformers
- Inductors
- Welding machines
- Lighting ballasts



Why Consider PFC

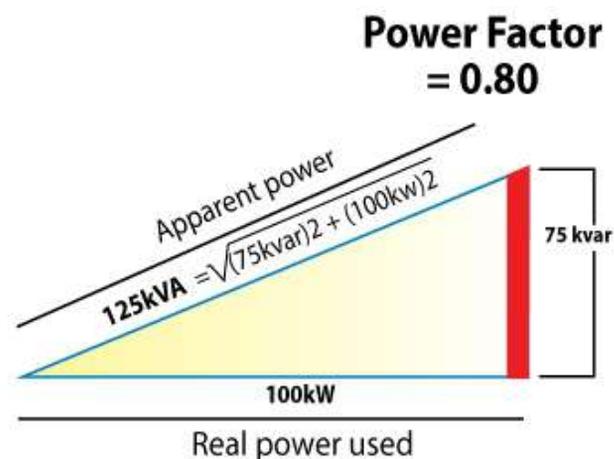
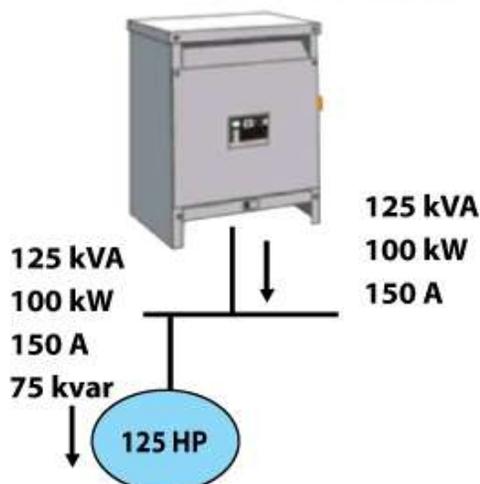
Primary Benefit:

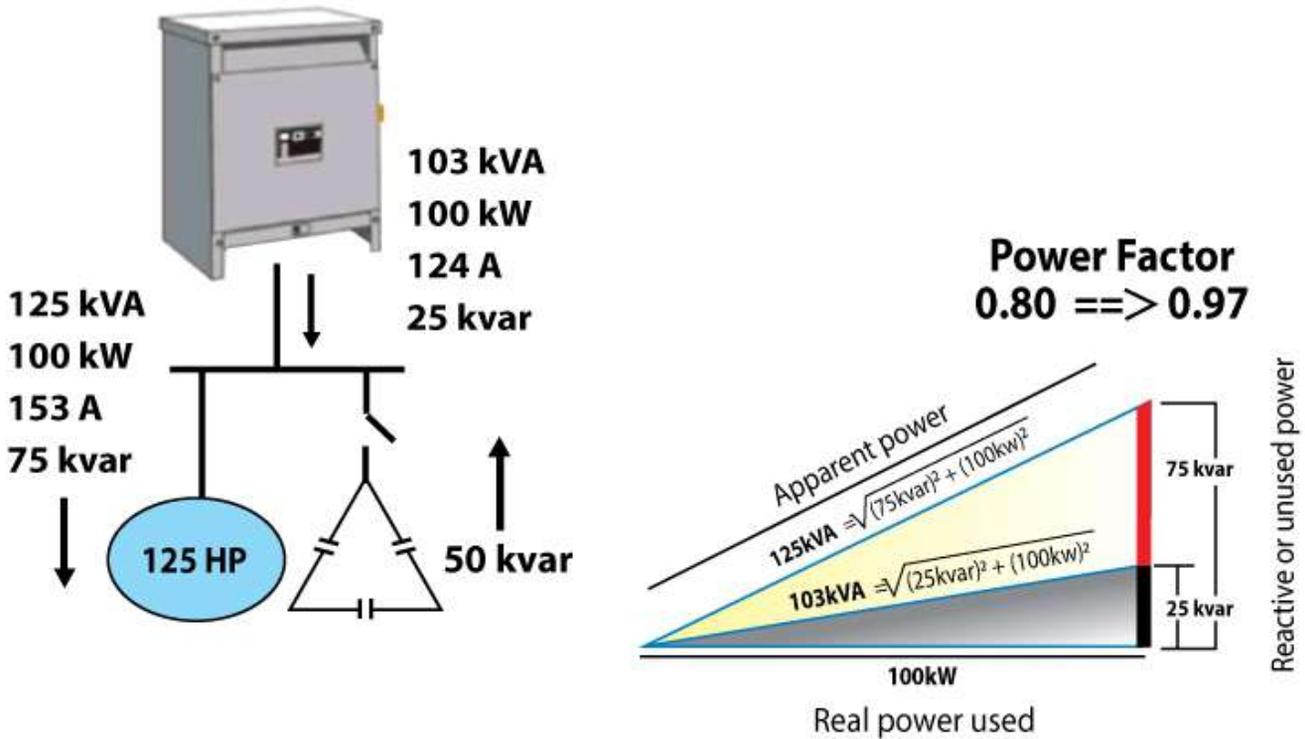
- Reduced electric utility bill if there is a penalty.

Other Benefits:

- Increased system capacity (generators, cables, transformers)
- Reduced losses in transformers and cables
- Improved voltage regulation
- Greening the power system

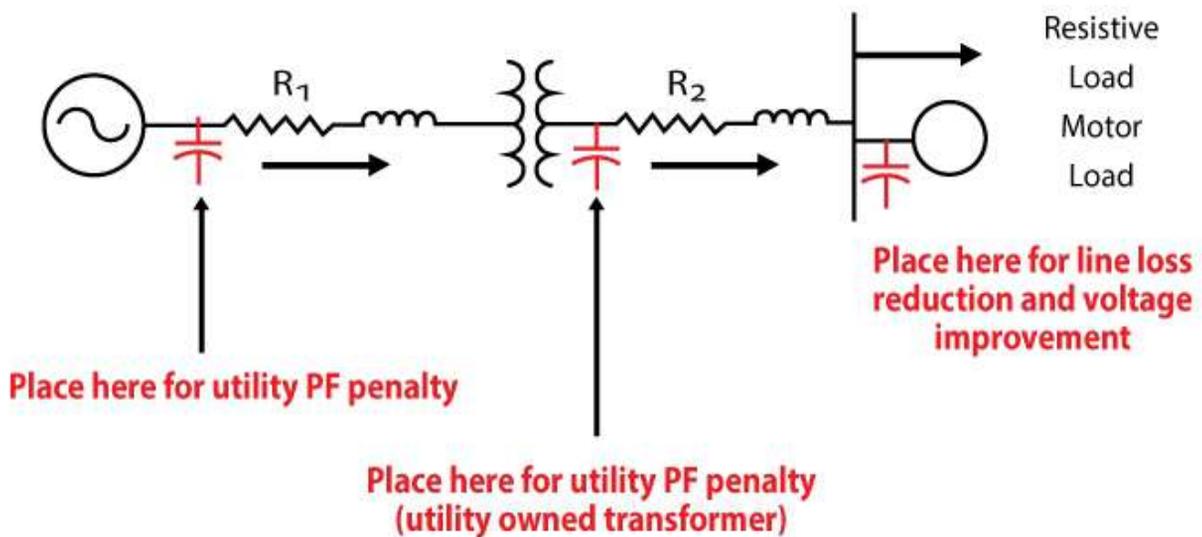
An Example: Improving PF





Correcting poor Power Factor can Significantly reduce the load on Transformers & Conductors and allow for facility expansion.

Effect of Location

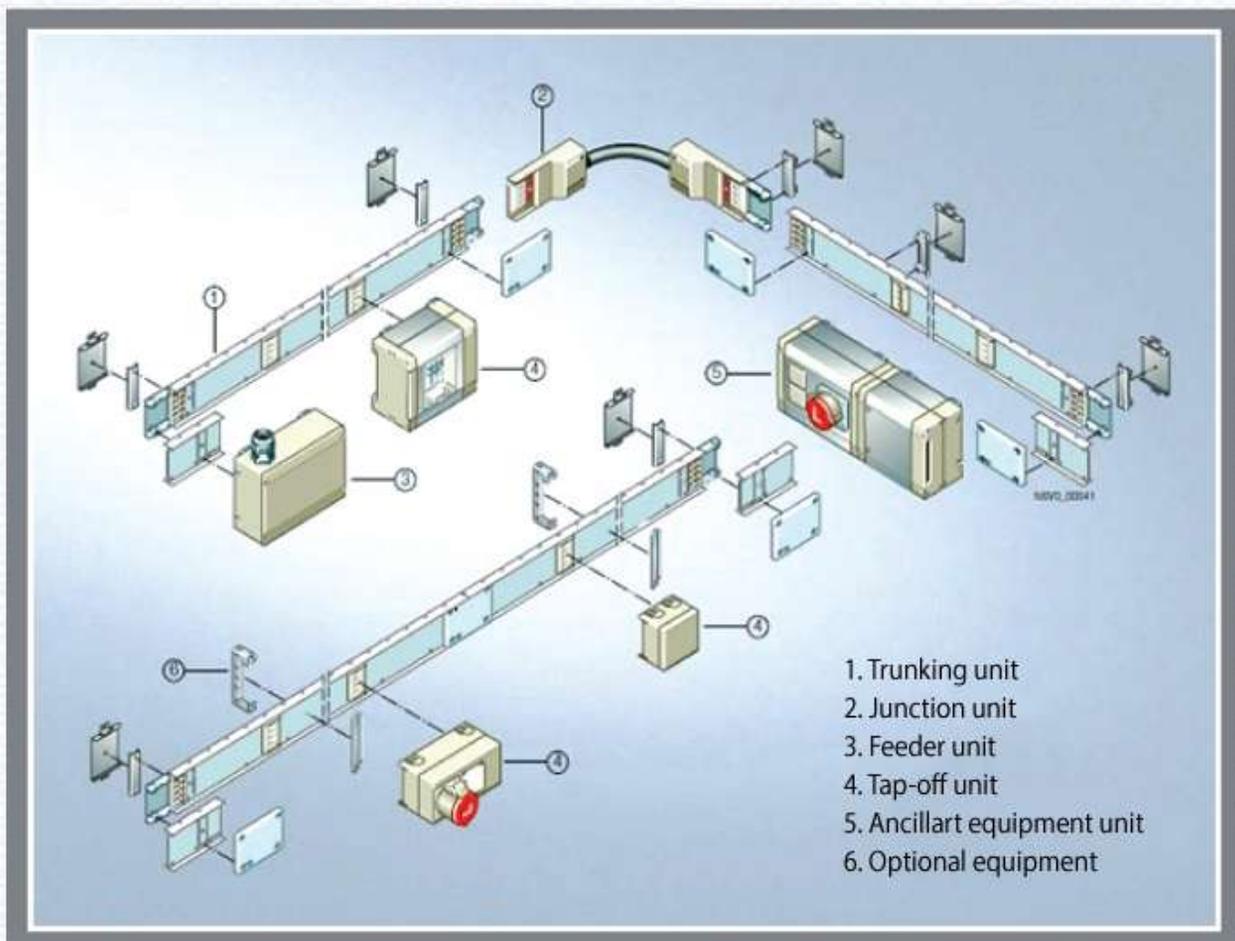


BBT (Busbar Trunking System)

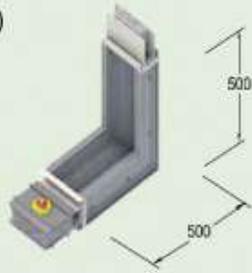
Busbar Trunking System in compact design is the most efficient, safe and ideal system for electricity supply to industrial installation and high-rise structure, offering a wide range from 20A to 6300A.

Why Busbar Trunking System

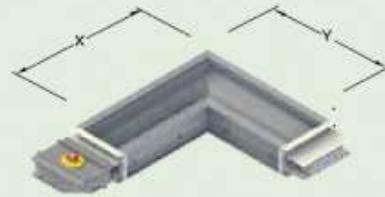
- Long Service life
- High Short circuit Strength
- Low Fire Hazard
- Low Voltage drops
- Low space requirement
- Easy installation
- Easy distribution of load
- Easy retrofitting in case of change of location and consumer loads.



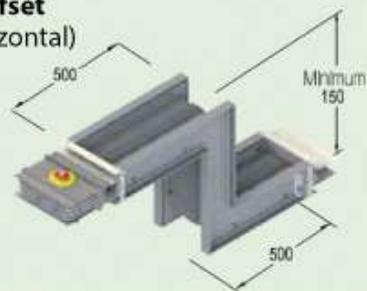
Elbow
(Horizontal)



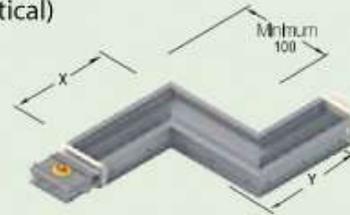
(Vertical)



Offset
(Horizontal)



(Vertical)



Product Specifications

Busbar trunking System (BBT) consist of insulated copper or aluminum Busbar enclosed in a Trunking. The low impedance prefabricated horizontal & vertical Busbar Trunking system shall be type tested assembly (TTA) conforming to IEC 61439-6.

Rated current	25A to 6300A
Live Conductor	4W+PE, and 5w
Neutral%	100%
Rated insulation voltage	1000V Ac
Class of insulation	Class B, F, H
Insulation materials	Epoxy, Pet, Air insulation & Mica
Busbar materials	Aluminum/ Copper
Maximum Ambient temperature	55 Deg. C
Degree of protection	IP 54, IP 55, IP 65, IP 66, IP 68



Our Projects & Valued Client



33/11/0.415 KV Sub-Station Client List

Project Capacity	120MVA (132/33KV)
Work Type	Testing Commissioning & Installation.
Client Name	Shah Cement Industries Limited (Abul Khair Group).
Project Address	Munshigonj, Bangladesh.
Project Capacity	10/14 MVA (33/11KV) Complete outdoor Sub-Station. Including Indoor(11/0.415) KV Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, Keranigonj, Dhaka.
Project Capacity	10/14 MVA (33/11KV) Complete Indoor Sub-Station. Including Indoor(11/0.415) KV Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bashundhara Paper Mill Industries Ltd.(Unit-1)
Project Address	Meghnaghat, Narayangonj.
Project Capacity	5MVA (33/11KV) Complete Outdoor Sub-Station. Including Indoor(11/0.415) KV Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Base Paper Limited.
Project Address	Sreerampur, Kalampur, Dhamrai, Dhaka.





Our Projects & Valued Client

33/11/0.415 KV Sub-Station Client List

Project Capacity	5MVA (33/11KV) Complete Outdoor Sub-Station. Including Indoor(11/0.415) KV Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Minister Hi-Tech Industrial Park.
Project Address	Narayanpur, Kashigonj, Trishal, Mymenshing.
Project Capacity	7.5MVA (33/11KV) Complete Outdoor Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Transcom Beverage Limited.
Project Address	Mouchak Kaliakoire, Gazipur.
Project Capacity	5MVA (33/11KV) Outdoor Transformer.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, Keranigonj, Dhaka.
Project Capacity	3MVA (33/11KV) Complete Outdoor Sub-Station. Including Indoor(11/0.415) KV Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Sun Yad Poly Vinyl Ind. Limited.
Project Address	(Dhaka Mymenshing Hwy), North Salna, Gazipur.
Project Capacity	4MVA (33/11KV) Complete Outdoor Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bangladesh Diesel Plant Limited.
Project Address	Gazipur Cantonment, Shimultoly Road, Gazipur.

Our Projects & Valued Client



33/11/0.415 KV Sub-Station Client List

Project Capacity	2x5MVA (33/11KV) Complete Outdoor Sub-Station.
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bangladesh Ordnance Factories (BOF).
Project Address	Gazipur Cantonment, Shimultoly Road, Gazipur.
Project Capacity	2x 20/28MVA (33/11KV) Complete Outdoor Sub-Station. Including All (11/0.415KV) Indoor Sub-Station)
Work Type	Design, Supply, Installatin, Testing & Commissioning (Only Transformer: by LS Electric-Korea.)
Client Name	Opsonin Pharma Limited.
Project Address	Bagura Road, Barishal, Bangladesh.
Project Capacity	5MVA (33/11KV) Complete Outdoor Sub-Station Including Indoor (11/0.415) KV Sub-Station. Installation on going...
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bashundhara Industrial Complex Ltd. (BAG-Factory).
Project Address	Pangaon, Konda, Keranigonj, Dhaka.
Project Capacity	3x 4MVA (11/0.415KV) Complete Indoor Sub-Station. Installation on going....
Work Type	Design, Supply, Installatin, Testing & Commissioning
Client Name	Bashundhara Multi Food Products Ltd. (Seed Crushing Plant).
Project Address	Meghnaghat, Narayangonj.





Our Projects & Valued Client

11/0.415 KV Sub-Station Client List

Project Capacity	Complete 1500 KVA,11/0.415 KV Sub-Station
Client Name	SK+F Pharmaceutical Ltd.
Project Address	Chirag Ali, Tongi, Gazipur.
Project Capacity	Complete 1500 KVA,11/0.415 KV Sub-Station
Client Name	Nassa Seing Thread Ltd.
Project Address	Katchpur, Narayangonj.
Project Capacity	Complete 315 KVA, 11/0.415 KV Sub-Station
Client Name	Camarina Composites Ltd.
Project Address	BSCIC, Damari, Dhaka.
Project Capacity	Complete 315 KVA, 11/0.415 KV Sub-Station
Client Name	Prime pet Industries.
Project Address	Keranigonj, Dhaka.
Project Capacity	Complete 315 KVA,11/0.415 KV Sub-Station
Client Name	Rupnagar real Estate Ltd.
Project Address	Uttara, Dhaka.
Project Capacity	Complete 630 KVA, 11/0.415 KV Sub-Station
Client Name	N.Amin Textile Ltd.
Project Address	BSCIC, Tongi, Gazipur.
Project Capacity	Complete 400 KVA,11/0.415 KV Sub-Station
Client Name	Nahar Poultry & Fish Feed.
Project Address	Kishoregonj, Dhaka.

Our Projects & Valued Client



11/0.415 KV Sub-Station Client List

Project Capacity	Complete 100 KVA, 11/0.415 KV Sub-Station
Client Name	Priyanka City -1
Project Address	Uttara, Dhaka.
Project Capacity	Complete 100 KVA, 11/0.415 KV Sub-Station
Client Name	Priyanka City -2
Project Address	Uttara, Dhaka.
Project Capacity	Complete 100 KVA, 11/0.415 KV Sub-Station
Client Name	Priyanka City -3
Project Address	Bashundhara, Dhaka.
Project Capacity	Complete 100 KVA, 11/0.415 KV Sub-Station
Client Name	Dash Developers Ltd.
Project Address	Kalabagan, Dhaka.
Project Capacity	Complete 200 KVA , 11/0.415 KV Sub-Station
Client Name	Rupnagar real Estate Ltd.
Project Address	Khilkhet, Dhaka.





Our Projects & Valued Client

11/0.415 KV Sub-Station Client List

Project Capacity	Complete 315 KVA, 11/0.415 KV Sub-Station
Client Name	Size Developers Ltd.
Project Address	Kolatoli, Coxbazar
Project Capacity	Complete 100 KVA,11/0.415 KV Sub-Station
Client Name	Bhuyan Auto Rice Mills
Project Address	Kishoregonj, Dhaka.
Project Capacity	Complete 500 KVA,11/0.415 KV Sub-Station
Client Name	Matrix Engineering & Technology
Project Address	Rampura, Dhaka.
Project Capacity	Complete 400 KVA, 11/0.415 KV Sub-Station
Client Name	Matrix Engineering & Technology
Project Address	Rampura, Dhaka.
Project Capacity	Complete 400 KVA, 11/0.415 KV Sub-Station
Client Name	Rupnagar real Estate Ltd.
Project Address	Uttara, Dhaka.
Project Capacity	Complete 750 KVA, 11/0.415 KV Sub-Station
Client Name	Yasin Flower Mills
Project Address	Demra, Dhaka.
Project Capacity	Complete 500 KVA, 11/0.415 KV Sub-Station
Client Name	BKSP
Project Address	Saver, Dhaka.

Our Projects & Valued Client



11/0.415 KV Sub-Station Client List

Project Capacity	Complete 800 KVA, 11/0.415 KV Sub-Station
Client Name	Nassa spinners Ltd.
Project Address	Mawna, Gazipur.
Project Capacity	Complete 630 KVA , 11/0.415 KV Sub-Station
Client Name	Nassa Taipei Spinners Ltd.
Project Address	Katchpur, Narayangonj.
Project Capacity	Complete 630 KVA, 11/0.415 KV Sub-Station
Client Name	Build trade Foils Ltd.
Project Address	Katchpur, Narayangonj.
Project Capacity	Complete 1000 KVA, 11/0.415 KV Sub-Station
Client Name	Nassa Sewing Thread Ltd.
Project Address	Katchpur, Narayangonj.
Project Capacity	Complete 630 KVA, 11/0.415 KV Sub-Station
Client Name	IBN Sina Medical Hospital
Project Address	Jessore.



Our Projects & Valued Client

Sub-Station & Transformer Client List

Project Capacity	Complete 250 KVA, 11/0.415 KV Sub-Station
Client Name	A To Z Engineering
Project Address	Tongi, Gazipur.
Project Capacity	Complete 250 KVA, 11/0.415 KV Sub-Station
Client Name	A.R Real Estate
Project Address	Khilgaon, Dhaka.
Project Capacity	1000KVA Transformer
Client Name	Acs Textile Ltd.
Project Address	Vulta, Rupshi, Narayangong
Project Capacity	Complete 1500 KVA, 11/0.415 KV Sub-Station & Cast Resin Transformer
Client Name	Bashundhara Group, AMD House
Project Address	Bashundhara R/A Dhaka.
Project Capacity	Complete 3000 KVA, 11/0.415 KV Sub-Station & Cast Resin Transformer(2 Set)
Client Name	Opsonin Pharma.
Project Address	Barisal.
Project Capacity	Complete 2500 KVA, 11/0.415 KV Sub-Station & Cast Resin Transformer(2 Set)
Client Name	Opsonin Pharma.
Project Address	Barisal.
Project Capacity	Complete 2000 KVA, 11/0.415 KV Sub-Station & Cast Resin Transformer(2 Set)
Client Name	Opsonin Pharma.
Project Address	Barisal.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 400 KVA, 11/0.415 KV Sub-Station
Client Name	Three Dots Ltd.
Project Address	Mawna,Gazipur.
Project Capacity	Complete 250 KVA, 11/0.415 KV Sub-Station
Client Name	A.R Real Estate
Project Address	Pabna.
Project Capacity	Complete 400 KVA,11/0.415 KV Sub-Station
Client Name	MA Hasem res.
Project Address	Gulshan, Dhaka.
Project Capacity	Complete 315 KVA, 11/0.415 KV Sub-Station
Client Name	Shah Dying, MD House.
Project Address	Dhaka.
Project Capacity	Complete 250 KVA, 11/0.415 KV Sub-Station
Client Name	Rupnagar real Estate Ltd.
Project Address	Airport,Dhaka.
Project Capacity	Complete 250 KVA, 11/0.415 KV Sub-Station
Client Name	Royal Housing Ltd.
Project Address	Mirpur, Dhaka.
Project Capacity	630 KVA, 11/0.415 KV Transformer
Client Name	Vicar Concrete
Project Address	Tangail



Our Projects & Valued Client

Sub-Station & Transformer Client List

Project Capacity	500 KVA, 11/0.415 KV Transformer
Client Name	Bengal Electric
Project Address	Dhaka.
Project Capacity	2500 KVA, 11/0.415 KV Transformer
Client Name	Renata Ltd.
Project Address	Valuka, Mymensingh.
Project Capacity	630 KVA, 11/0.415 KV Transformer
Client Name	Ever first technology
Project Address	Sylhet.
Project Capacity	Complete 1000 KVA with OLTC, 11/0.415 KV Sub-Station
Client Name	Mazim Argo Industries Ltd.
Project Address	Mawna, Gazipur.
Project Capacity	3000KVA, 6.6 / 0.415 KV Transformer
Client Name	Shah Dying
Project Address	Shimrail, Narayanganj.
Project Capacity	Complete 5000 KVA Sub-Station (33/.415)KV,
Client Name	Bashundhara Paper Mill Industries (Unit -1)
Project Address	Meghnaghat, Narayanganj.
Project Capacity	Complete 5000 KVA Sub-Station (33/.415)KV,
Client Name	Bashundhara Paper Mill Industries (Unit -1)
Project Address	Meghnaghat, Narayanganj.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 2 X2000 KVA Sub-Station (33/.690)KV,
Client Name	Bashundhara Paper Mill Industries (Unit -1)
Project Address	Meghnaghat, Narayanganj.
Project Capacity	2000KVA Transformer With OLTC,
Client Name	Novartis Bangladesh Ltd.
Project Address	Charag Ali, Tongi, Gazipur.
Project Capacity	1250KVA Transformer,
Client Name	Cross World Power Ltd.
Project Address	Project: Eastern University
Project Capacity	3000 KVA Transformer (11/0.415)KV,
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, South Keranigonj, Dhaka.
Project Capacity	2500 KVA Transformer (11/0.415)KV,
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, South Keranigonj, Dhaka.
Project Capacity	2000 KVA Transformer-3 nos (11/0.415)KV,
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, South Keranigonj, Dhaka.
Project Capacity	1250 KVA Rectifier Transformer (11/0.415)KV,
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	Pangaon, Konda, South Keranigonj, Dhaka.



Our Projects & Valued Client

Sub-Station & Transformer Client List

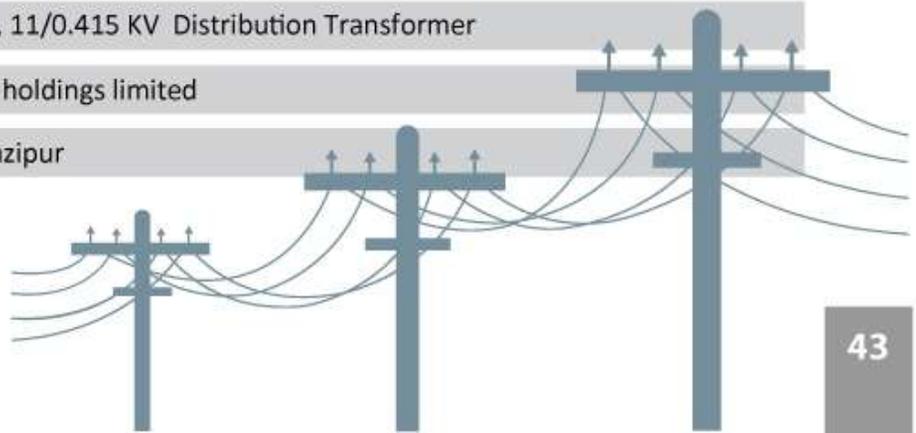
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station
Client Name	Horizon Construction & Developments Ltd
Project Address	Project : LA-Allieanza, Plot -71, Road -17/A , Block -E, Banni , Dhaka.
Project Capacity	200 KVA Station Transformer (33/0.415KV)
Client Name	Everfirst Technology
Project Address	Sylhet Railway
Project Capacity	3500 KVA, 11/0.415 KV Distribution Transformer
Client Name	Tua-HA Textile Ltd.
Project Address	KABIRPUR,SAVAR, BANGLADESH., DHAKA
Project Capacity	Complete 1000 KVA ,11/0.415 KV Sub-Station
Client Name	Laurelle fashion Ltd / TJ Sweater Ltd.
Project Address	154, 330, F D Tower ,Kunia , Gazipur
Project Capacity	Complete 1500 KVA,11/0.415 KV Sub-Station
Client Name	SK+F Pharmaceutical Ltd.
Project Address	Vulta, Narayangonj.
Project Capacity	Complete 250 KVA,11/0.415 KV Sub-Station
Client Name	Winston one
Project Address	Nolvog, Horirampur, Turag, Dhaka,
Project Capacity	Complete 315 KVA,11/0.415 KV Sub-Station
Client Name	Concord Real Estate
Project Address	Project : Concord Naeem, Bannai, Dhaka.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 2500 KVA with OLTC, 11/0.415 KV Sub-Station
Client Name	Premiaflex Plastics Limited.
Project Address	Dhormogonj, Fotulla, Narayangonj.
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station
Client Name	Mega Builders
Project Address	PC Culture Road, Mohammadpur, Dhaka.
Project Capacity	Complete 200 KVA,11/0.415 KV Sub-Station
Client Name	M. L THREAD &ACGESSORIES
Project Address	Jamur, Rishipara, Hemyatpur, Dhaka.
Project Capacity	3000 KVA with OLTC, 11/ 0.415 KV Distribution Transformer
Client Name	Square Textile Ltd.
Project Address	Sardaganj, Kashimpur Gazipur, Bangladesh
Project Capacity	Complete 250 KVA,11/0.415 KV Sub-Station
Client Name	Rokeya Begum
Project Address	Nilambor Shaha Road, New Market, Hazaribag, Dhaka.
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station
Client Name	Tampaco foils ltd
Project Address	Tongi, Gazipur
Project Capacity	1000 KVA, 11/0.415 KV Distribution Transformer
Client Name	Transsion holdings limited
Project Address	Vogra , Gazipur





Our Projects & Valued Client

Sub-Station & Transformer Client List

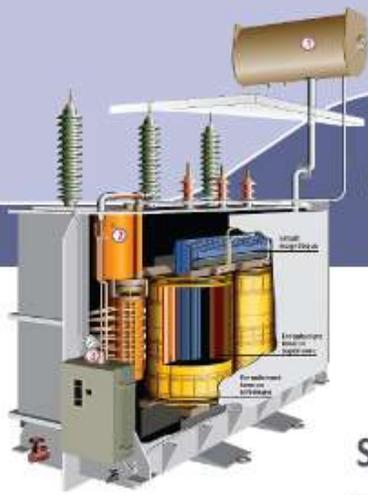
Project Capacity	630 KVA, 11/0.415 KV Distribution Transformer
Client Name	System Power Energy (Project Name : LISHA TEX (PVT.) LTD
Project Address	Holding # 497/1, North Khaikur, National University, Gazipur Sadar.
Project Capacity	Complete 250 KVA,11/0.415 KV Sub-Station
Client Name	Centre For Engineering & Technical Assistance (CETA)
Project Address	Joina Bazar, Gazipur.
Project Capacity	3000KVA, 6.6 / 0.415 KV Transformer
Client Name	Shah Cement Industris Ltd.
Project Address	Mukterpur, Munshigonj.
Project Capacity	800KVA, 11/0.415KV Transformer With OLTC
Client Name	CROSS WORLD POWER LTD. Project Name :-RFS Fashion
Project Address	Tongi , Gazipur.
Project Capacity	800KVA, 11/0.415KV Transformer With OLTC
Client Name	CROSS WORLD POWER LTD. Project Name :-Premier Printing Press
Project Address	Badsha Mia Road, Shantibag, Paradogar-1362, Demra, Dhaka.
Project Capacity	1000 KVA, 11/0.415 KV Distribution Transformer
Client Name	GPH Ispat Ltd.
Project Address	Chittagong.
Project Capacity	4500 KVA, 11/0.415 KV Distribution Transformer (Repiar)
Client Name	Abul Khair Steel Melting Ltd (Melting)
Project Address	Chittagong.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 1250 KVA,11/0.415 KV with OLTC Sub-Station
Client Name	Impress Newtex Composite Textile Ltd
Project Address	Mirzapur , Tangail
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station
Client Name	Mazim Agro Ltd.
Project Address	Bogra.
Project Capacity	Complete 2000 KVA,11/0.415 KV Sub-Station
Client Name	SKF Bangladesh Ltd.
Project Address	Salna, Gazipur.
Project Capacity	Complete 630 KVA,11/0.415 KV Sub-Station
Client Name	Roto Pack Global Ltd.
Project Address	Dakshinkhan, Uttara ,
Project Capacity	150KVA 11/0.415KV Distribution Transformer
Client Name	Md.Istiaque Mahmud
Project Address	Mohammadpur Housing Estate,Dhaka.
Project Capacity	315 KVA 11/0.415KV Distribution Transformer
Client Name	Bangladesh Gas Field Company Ltd.
Project Address	Birashar, Brahmanbaria
Project Capacity	500 KVA 11/0.415KV Distribution Transformer
Client Name	Bangladesh Gas Field Company Ltd.
Project Address	Birashar, Brahmanbaria



Our Projects & Valued Client

Sub-Station & Transformer Client List

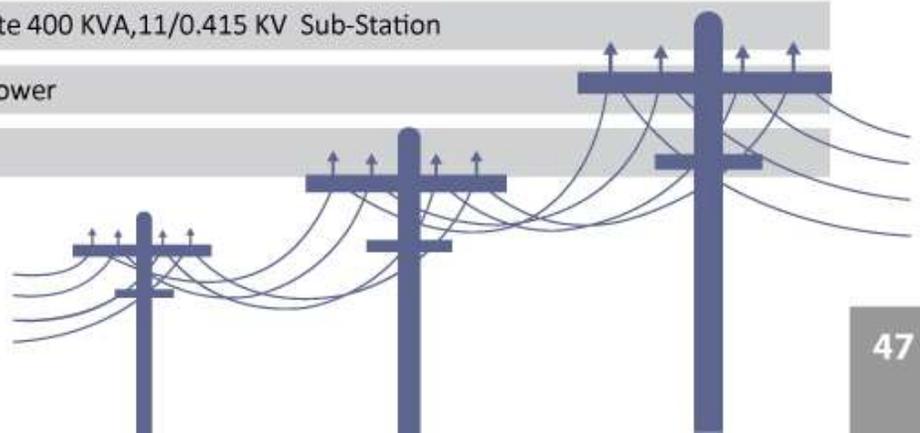
Project Capacity	3150KVA 0.415/11KV Setp Up Transformer
Client Name	Everfirst Engineering Ltd
Project Address	-----
Project Capacity	2000 KVA 11/0.415 KV (OLTC fitting)
Client Name	Square Textiles Ltd.
Project Address	Sardaganj, Kashimpur, Gazipur.
Project Capacity	100KVA 11/0.415 KV Transformer
Client Name	Powermech Engineering Ltd.
Project Address	-----
Project Capacity	400KVA 11/0.415 KV Transformer
Client Name	Advance Automation Engineering
Project Address	Neha Enterprise, uttarkhan, Bepari para, Helal market, Dhaka.
Project Capacity	Complete 3000 KVA,11/0.415 KV Sub-Station
Client Name	A R Specialized Auto Rice Mills (Pvt.) Ltd,
Project Address	BSCIC industrial Area, Pabna.
Project Capacity	Complete 1250 KVA,11/0.415 KV Sub-Station With OLTC
Client Name	Impress Newtex Composite Textiles Ltd.
Project Address	Chittagong.
Project Capacity	Complete 630 KVA,11/0.415 KV Sub-Station
Client Name	Splash Works Water Park Ltd.
Project Address	Baushila, Gazaria , Munshigang.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	750KVA , 11/ 0.415 KVA Transformer
Client Name	Fuli Industrial Ltd
Project Address	Dhaka , EPZ
Project Capacity	100 kva ,11/.415 v transformer
Client Name	unique power plant
Project Address	Bhuta, Narayengong
Project Capacity	Complete 400 KVA,11/0.415 KV Sub-Station
Client Name	M.M Poultry Feed & Medicine
Project Address	Mirer bazar , Gazipur
Project Capacity	500 kva 11/.415 v On Load Transformer
Client Name	Ispahani agro Ltd.
Project Address	Sadar, Rangpur
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station
Client Name	Maa & Nani Villa
Project Address	Badda
Project Capacity	4500 Kva,0.415/11 kv Step up transformer (Repair)
Client Name	Kodomtoly Steel Mills
Project Address	Shempur , Dhaka
Project Capacity	Complete 400 KVA,11/0.415 KV Sub-Station
Client Name	Sabur Tower
Project Address	Pabna





Our Projects & Valued Client

Sub-Station & Transformer Client List

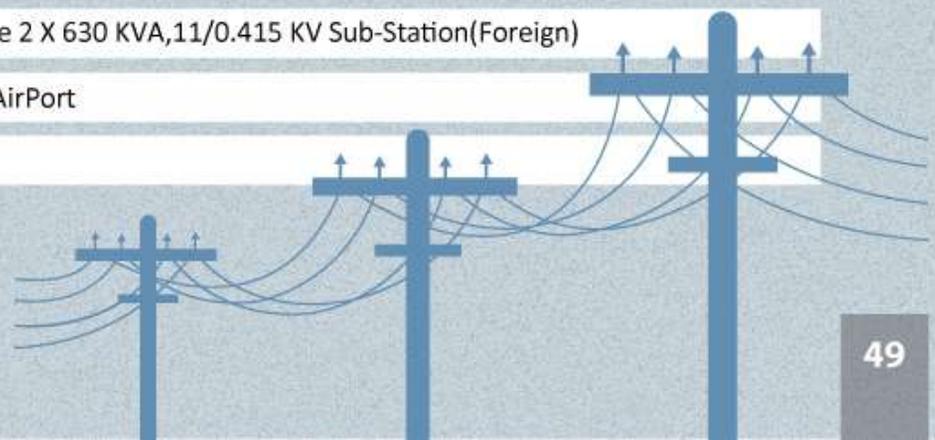
Project Capacity	5000 kva Ractifier transformer 11/.415 (Repair)
Client Name	R.B Steel mills
Project Address	Shempur, Dhaka.
Project Capacity	30 Kva,415/415v transformer
Client Name	GPH Ispat Ltd.
Project Address	Chittagong.
Project Capacity	10 Kva, 415/415 v Transformer
Client Name	GPH Ispat Ltd.
Project Address	Chittagong.
Project Capacity	5 kva, 415/415 v Transformer
Client Name	GPH Ispat Ltd.
Project Address	Chittagong.
Project Capacity	315 KVA 11/0.415KV Distribution Transformer (Repair)
Client Name	Head office (System Engg)
Project Address	Uttara, Dhaka.
Project Capacity	250 Kva ,11/.415 v Transformer
Client Name	Cosmic Leather & Jhute Mills
Project Address	Mirer baz.ar, Gazipur.
Project Capacity	100 kva, 11/.415 v transformer
Client Name	Systech Electtic Company
Project Address	Jalampur.

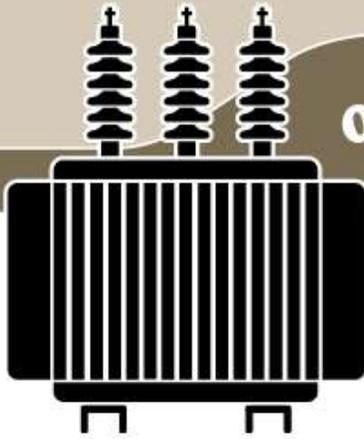
Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	100 kva ,11/.415 v transformer
Client Name	Systech Electtic Company
Project Address	Jamalpur.
Project Capacity	100 kva ,11/.415 v transformer
Client Name	Systech Electtic Company
Project Address	Jamalpur.
Project Capacity	100 kva ,11/.415 v transformer
Client Name	Systech Electtic Company
Project Address	Jamalpur.
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station
Client Name	Bashundhara Food & Beverage Industries Ltd.(Flour Mill)
Project Address	Meghnaghat, Narayanganj.
Project Capacity	Complete 2000 KVA,11/0.415 KV Sub-Station
Client Name	Bashundhara Food & Beverage Industries Ltd.(BFBIL - Dal Unit)
Project Address	Pangaon, Konda, South Keranigonj, Dhaka.
Project Capacity	Complete 315 KVA,11/0.415 KV Sub-Station
Client Name	Arbab Abason Prokolpo.
Project Address	New Town Residential Area, Sarulia' Demra' Dhaka.
Project Capacity	Complete 2 X 630 KVA,11/0.415 KV Sub-Station(Foreign)
Client Name	Jessore AirPort
Project Address	Jessore.





Our Projects & Valued Client

Sub-Station & Transformer Client List

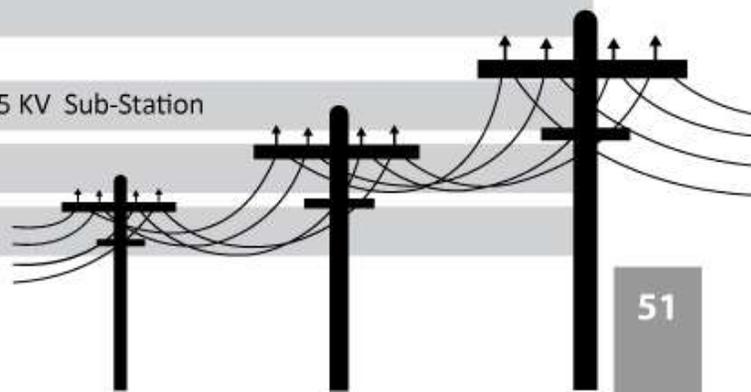
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Karnaphuli Polyester Product Co. Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Karnaphuli Polyester Product Co. Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Sungnam Apparel (BD) Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Sungnam Apparel (BD) Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Sungnam Apparel (BD) Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 1000 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Daegu PDCL
Project Address	Korean EPZ - Chattogram

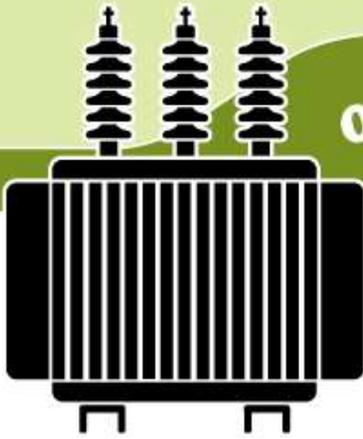
Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 1250 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Evertop PDCL
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 800 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Gaya PDCL
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 1000 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Workers Dormitory
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 1250 KVA,11/0.415 KV Sub-Station
Client Name	S.S. Printing Ltd.
Project Address	Tongi, Gazipur.
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (QTY - 6 SET)
Client Name	Bashundhara Food & Beverage Ltd.
Project Address	Meghnaghat Narayanganj.
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea)
Client Name	Karnaphuli Polystar Industries Ltd.
Project Address	Korean EPZ - Chattogram
Project Capacity	Complete 500 KVA,11/0.415 KV Sub-Station
Client Name	Bashundhara Kutu Bari.
Project Address	Rbashundhara R/A , Dhaka.





Our Projects & Valued Client

Sub-Station & Transformer Client List

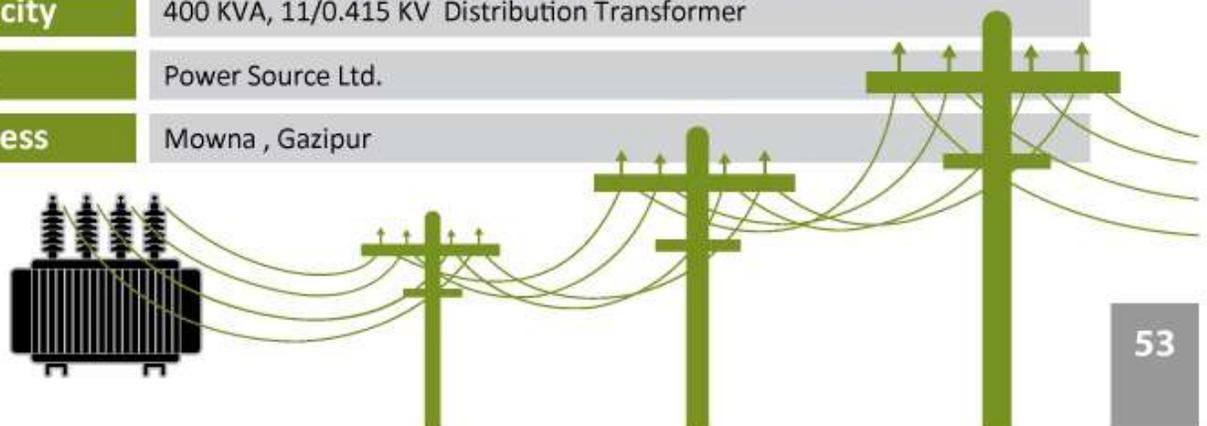
Project Capacity	Complete 500 KVA,11/0.415 KV Sub-Station
Client Name	Bashundhara Kuti Bari
Project Address	Bashundhara R/A , Dhaka.
Project Capacity	Complete 1000 KVA,11/0.415 KV Sub-Station
Client Name	Bangladesh milk producers cooperative union ltd. (Baghabari Plant)
Project Address	Baghabari, Sirajganj
Project Capacity	Complete 1000 KVA,11/0.415 KV Sub-Station
Client Name	Bangladesh milk producers cooperative union ltd. (Dhaka Plant)
Project Address	Mirpur , Dhaka
Project Capacity	Complete 400 KVA,11/0.415 KV Sub-Station
Client Name	TIC Industries Ltd.
Project Address	Meghna Economic Industrial Zone
Project Capacity	Complete 315 KVA,11/0.415 KV Sub-Station
Client Name	Himel Hawa
Project Address	Matikata, Manikdi, Dhaka.
Project Capacity	Complete 500 KVA,11/0.415 KV Sub-Station
Client Name	Cameo Plastic Ltd.
Project Address	Malaypur, joy pabbtipur, Joypurhat.
Project Capacity	Complete 200 KVA,11/0.415 KV Sub-Station
Client Name	Mr. Rabiul Amin
Project Address	House # 52, Jashim Uddin Avenue, Sector # 3, Uttara.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	1000 KVA, 11/0.415 KV Distribution Transformer
Client Name	Gao. Guilin, Chairman, Kaiqi international (BD) co. Ltd.
Project Address	Bashati, Nandail, Mymensingh.
Project Capacity	200 KVA, 11/0.415 KV Distribution Transformer
Client Name	Advance Automation Engineering
Project Address	Dhaka
Project Capacity	400 KVA, 11/0.415 KV Distribution Transformer
Client Name	Rafi Tex mode
Project Address	Gazipur
Project Capacity	Complete 150 KVA, 11/0.415 KV Sub-Station
Client Name	Winstone -3
Project Address	Diyabari Uttara , Dhaka
Project Capacity	1000 KVA, 11/0.415 KV Distribution Transformer
Client Name	Siemens Industrial Ltd.
Project Address	H# 09, R # 55/56, Gulshan #2, Dhaka
Project Capacity	1000 KVA, 11/0.415 KV Distribution Transformer
Client Name	A One Automation System
Project Address	plot# 08, Road# 96, Gulshan-2, Dhaka-1212
Project Capacity	400 KVA, 11/0.415 KV Distribution Transformer
Client Name	Power Source Ltd.
Project Address	Mowna , Gazipur





Our Projects & Valued Client

Sub-Station & Transformer Client List

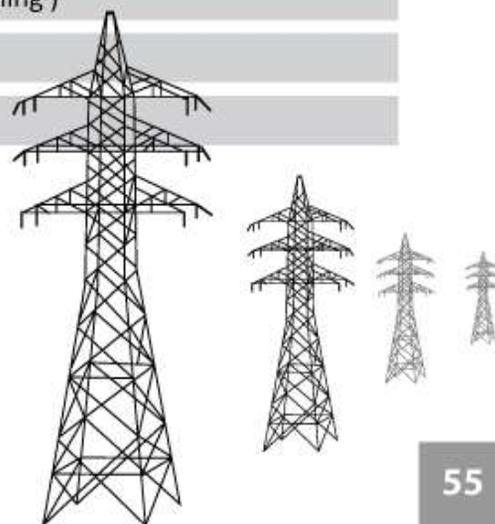
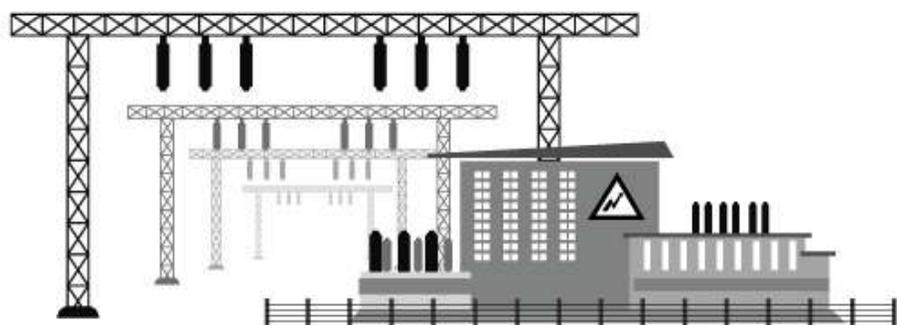
Project Capacity	Complete 2000 KVA,11/0.415 KV Sub-Station
Client Name	Subornogram Resort & Amusement Park Limited
Project Address	Bhulta, Narayangonj.
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station
Client Name	Winstone -4
Project Address	Sector # 15, Uttara , Dhaka.
Project Capacity	3750 KVA,11/0.415 KV Transformer with OLTC
Client Name	Uiverse Synthetic Fibre Ltd.
Project Address	Mawna, Gazipur.
Project Capacity	Complete 3150 KVA,11/0.415 KV Transformer and HT Switchgear
Client Name	Hams Garments
Project Address	Shreepur, Gazipur.
Project Capacity	150 KVA,11/0.415 KV Transformer
Client Name	Efficient power
Project Address	Narsingdi
Project Capacity	150 KVA,11/0.415 KV Transformer
Client Name	Apple Properties Ltd.
Project Address	Sector # 3, Uttara, Dhaka.
Project Capacity	630 KVA,11/0.415 KV Transformer
Client Name	Bangladesh Machine Tools Ltd.
Project Address	Gazipur cantroment , Gazipur.

Our Projects & Valued Client



Sub-Station & Transformer Client List

Project Capacity	Complete 630 KVA,11/0.415 KV Sub-Station (Ruuning)
Client Name	Haier Bangladesh Ltd.
Project Address	Joydebpur, Gazipur
Project Capacity	Complete 150 KVA,11/0.415 KV Sub-Station (Ruuning)
Client Name	Mr. Bahar Uddin Babul
Project Address	House # 61, Ishandi Sarkar road, alam Market, Dattapara, Tongi Gazipur
Project Capacity	Complete 750 KVA,11/0.415 KV Sub-Station (Ruuning)
Client Name	ML Thread & Accessories
Project Address	Hemayetpur, Savar
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea) (Ruuning)
Client Name	Karnaphuli Polystar Industries Ltd.
Project Address	Plot no.31, Korean Export Processing ZoneAnowara, Chittagong-4371
Project Capacity	Complete (3 X 4000KVA, 1 X 3150KVA, 1 x 2500 KVA, 11/0.415 KV Sub-Station (Ruuning)
Client Name	Bashundhara Multi Food Products Ltd.
Project Address	BMF- Seed Crushing Plant, Meghnaghat
Project Capacity	Complete 2500 KVA,11/0.415 KV Sub-Station (Cast resin Transformer by LS, Korea) (Ruuning)
Client Name	TEKVISION (BD) Limited
Project Address	Korean EPZ - Chattogram



Certified by



BUET



DUET



Corporate Office

House # 7/1, Road # 02, Block-A,
Diabari, Nishatnagar, Turag,
Uttara, Dhaka.
Tel : +88-02-48950051, 8931497
Fax : +88-02-8931494
E-mail : sel@selbn.com

Project Office

House # 35, Sonargaon Janapath
Road, Block-D, Diabari, Nishatnagar,
Turag, Uttara, Dhaka.
Cell : 01711452268
E-mail : munna@selbn.com

Factory

Karamtola, Harbaied,
Gazipur Sadar, Gazipur.
Cell : 01713081995
01708459474
E-mail : factory@selbn.com

Bogura Branch

3,4, Soraf Uddin Plaza,
M.A. Khan Lane,
Satmatha, Bogura - 5800.
Cell : +880 1729230681
E-mail : bogura@selbn.com