



Quality
Engineering & Services
Keeping the Standard High

COMPANY PROFILE



www.controlware.com.bd





WHO WE ARE

Controlware was established with a view to carrying on the business of advanced diversified technology based power projects & solutions, focused on improving industrial production and people's life style through meaningful innovation and engineering in the area of medium, high & extra-high voltage power transmission & distribution, substation engineering, substation automation system, solar power generation, compact power solution, industrial control & automation, efficient energy management and smart metering system. The company wants to set a standard in providing its service in medium, high & extra-high voltage substation design, engineering, supply, erection, testing & commissioning, substation maintenance, repair & asset management.

Our Values:

- **Quality:** We provide outstanding and unsurpassed services that together, deliver premium value to our customers.
- **Act with Integrity:** We uphold the highest standards of integrity in all of our actions.
- **Teamwork:** We work together, across boundaries, to meet the needs of our customers and to help our Company win.
- **Employee Health & Safety:** We are relentless in keeping people safe from harm, and we provide a healthy work environment. (Health & Safety Measures)



Mission:

Setting an international standard in substation engineering and practical integration of modern technologies with existing system.

Vision:

We aspire to become a globally recognized EPC company, providing cutting-edge services and solutions in the Electrical, Instrumentation and Automation space. Our goal is to implement sustainable solutions for the new generations.

Slogan:

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Our Business Principle:

1. We comply with laws and ethical standards.
2. We maintain a clean organizational culture.
3. We respect customers, shareholders and employees.
4. We care for the environment, health and safety.
5. We are a socially responsible corporate entity.

Our Experience

More than 15 years of experience in Power Engineering up to 400kV system, Installation, Testing & Commissioning of many AIS & GIS Substations starting from 33kV, 132kV, 230kV & 400kV including special projects like 132kV capacitor bank, 230kV & 400kV Generating Substations and 33kV GIS Substations for various reputed private companies and utility departments like PGCB, BPBD, BREB, WZPDC, DPDC & DESCO



Why we

We are enriched with world class latest brand Test & Installation Equipment facilities like OMICRON, BAUR, MEGGER, DILO, VAISALA, YUNENG, KYORITSU, YOKOGAWA, FLUKE, SOLMETRIC, LUTRON, TOLSEN, LASTON technologies to provide High Quality Engineering Services.



Our Strength

- A well experienced engineering & construction team
- Quality Engineering & Services
- We are well organized, reliable & professional
- Committed to Timely Handover
- We always take care of our Team Members
- Strictly follow EHS Policy as per International Standard
- Proper Documentations
- Stable Financial Capabilities
- Good Connectivity with Utility Departments
- We love to take challenges



Our Businesses:

Substation EPC Project

Engineering, Procurement & Construction of
400kV/230kV/132kV/33kV/11kV AIS/GIS Substation

Engineering Design, Calculation & Approval

400kV/230kV/132kV/33kV/11kV AIS/GIS Substation Engineering Design, Calculation & Approval from the end user

Erection, Testing & Commissioning

Erection, Testing & Commissioning of
400kV/230kV/132kV/33kV/11kV GIS/AIS Substation

EPC of Solar Power Plants

Design, Supply, Installation, Testing & Commissioning of Solar Power Plant along with Civil Construction

Turnkey Solution of Arc Flash Protection System

Design, Supply, Installation, Testing & Commissioning of Arc Flash Protection System

Mesh Earthing Works

Design, Supply & Installation of Substation Mesh Earthing System

Turn-Key Solution of Telecommunication, NMS & SCADA Integration of Substations

Design, Supply, Installation, Testing & Commissioning and Integration of Power Plant/Substation SCADA System with National Load Dispatch Centre

Supply of Substation Equipment

Supply of any sort of Substation Equipment like Transformers, Switchgears, LA, Protective Relays, Control Relay Panels, Battery Charger, Battery Bank, ACDB/DCDB Outdoor MK, GIS/AIS termination kitsetc

Cabling Works

Medium/High/Extra-High Voltage Power Cable Laying, Termination, Testing & Commissioning

Yearly Maintenance

Yearly maintenance of Power Plant & Industrial Substation

List of our Test Equipment



Name of the Equipment	Qty	Brand	Model No	Country of Origin
Primary Current & Voltage Injector	2	OMICRON	CPC-100	Austria
CT Analyzer	1	OMICRON	CT Analyzer	Austria
Sweep Frequency Response Analyzer	1	OMICRON	FRANEO 800	Austria
2000A Current Booster	1	OMICRON	CPCB1	Austria
Relay Testing Set	2	OMICRON	CMC-356	Austria
Tan Delta Test Set	1	OMICRON	CPTD1	Austria
Breaker Analyzer	1	MEGGER	EGIL	UK
Digital Micro Ohm Meter	2	MEGGER	DLRO-600	UK
Digital Earth Tester	1	MEGGER	DET2/2	UK
Digital Earth Tester	1	KYORITSU	KEW 4105A	Thailand
260KV AC/DC High Voltage Test Set	1	BAUR	PGK 260 HB	Austria
Insulation Resistance Tester	5	KYORITSU	3125A	Japan
Primary Current Injector	2	RHE-SHA	RSE-B-500	Bangladesh
Breakdown Voltage Tester	2	YUNENG	YN-HYG-100	China
PPM Tester	1	YUNENG	YN-HYG-809B	China
SF6 Multi-Analyzer	1	DILO	3-038R-R303	Germany
SF6 Leak Spy/Leak Detector	1	DILO	3-033-R200	Germany
Moisture Tester	1	VAISALA	MM70	Finland
Dewpoint Tester	1	VAISALA	DM70	Finland
Mercury Gauge	1	ACE Instruments	AI-MCG-1	India
PV Analyzer	1	Solmetric	PVA-1500	U.S.A
LCR Meter	1	Lutron	LCR-9073A	Taiwan
Digital AVO Meter	16	KYORITSU	1009	Japan
Digital AVO Meter	2	FLUKE	175	USA
Digital Phase Indicator	1	KYORITSU	8031	Japan
Low Range Clamp Meter	5	UNI-T /KYORITSU	UT251C	China
Digital Clamp Meter AC+DC	4	HIOKI	3288/UT251C	Japan
High range Clamp Meter		U-NIT	UT202	China
Variac	1	RHE-SHA	0-220V	Bangladesh
Multimeter	3	U-NIT	UT890D+	China





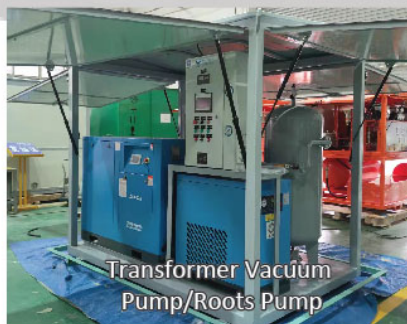
SF6 Gas Handling Device

List of our Installation Tools & Equipment

Name of the Equipment	Qty	Brand	Model No	Country of Origin
SF6 Service Cart/SF6 Gas Handling Device	1	DILO	B057R03	Germany
SF6 Multi-Analyzer	1	DILO	3-038R-R303	Germany
SF6 Leak Spy/Leak Detector	1	DILO	3-033-R200	Germany
33KV GIS Vacuuming Kit	1	Woosung	LOVD 36	Korea
Double Stage Transformer Oil Filtration Machine, 8000LPH	1	YUNENG	ZJA8BY	China
Double Stage Transformer Oil Filtration Machine, 4000LPH	1	YUNENG	ZJA4BY	China
Transformer Vacuum Pump/Roots Pump	1	YUNENG	ZJ1200BY	China
Dry Air Generator	1	YUNENG	GF200BY	China
Breakdown Voltage Tester	2	YUNENG	YN-HYG-100	China
PPM Tester	1	YUNENG	YN-HYG-809B	China
Moisture & Dewpoint Tester	1	Doble Engineering	USS-COMP	USA
Mercury Gauge	1	ACE Instruments	AI-MCG-1	India
Welding Machine	6	Winner/Laston	MC-250	China
Grinding Machine	9	Bosch/Ken	GW6-100S/	China
Magnetic Drill Machine	1	Ken	6028N	China
Iron Drill Machine(Heavy duty)	2	Ulite		
Hammer Drill	5	Bosch /Tosan	GBH- 200	China
Double Chain Block (Heavy duty; 5 tonx5 meter)	1	VITAL		Japan
Chain BLOCK 1500kg 1.5-meter stroke 3 TON	1			China
Chain Pully (3 ton)	1	VITAL		Japan
Hook Type Pully (3.2 ton)	4			China
Lever Hoist (3ton x 3 meter)	1	VITAL		Japan
Hydraulic Pallet Trolley (3 ton)	2	VITAL,		Japan
Punch Machine (Heavy duty) 2 Hole & 3 Hole	2	Kangaro	HDP 3160	
Small Chain pulley 750kg 1.5-meter stroke	2			China
Hydraulic Cable Punch Machine	2	Zupper	FYQ-630	China
Lifting Sling Belt (8 tonx5 meter)	3			China
Spanner Set	3	Tolsen		China
Adjustable Wrench	3	Tolsen		China
Torque Wrench	6	Top Tool/Hans		China
Metal Spirit Level (400mm & 1000mm)	2			China
Round Sling 2Ton 2.5 Meter	6			China
Round Sling 5Ton 1.5 Meter	4			China
Round Sling 2Ton 10Meter	2			China
Round Sling 2Ton 5Meter	2			China
Hydraulic Bottle Jack (10 &20 Ton) Red, China	6			China



Double Stage Transformer Oil Filtration Machine,



Transformer Vacuum Pump/Roots Pump



Dry Air Generator



Our Projects & Valued Client

400KV GIS Bay Extension Project

Project	Installation, Testing & Commissioning of 400KV GIS Bay Extension for APSCL 400MW(East)
Year of Completion	December, 2021
EPC Company	China National Technical Import & Export Corporation (CNTIC)
End Customer	Ashuganj Power Station Company Ltd (APSCL)

400KV, 400MW CCPP Electrical Works

Project	Total Electrical System Testing & Commissioning of 400KV, 400MW CCPP, Bibiyana-3 at Hobiganj with L&T Power for Bangladesh Power Development Board
Year of Completion	2018
EPC Company	MARUBENI, L&T Ltd India
End Customer	Bangladesh Power Development Board

230KV, 150MW HFO Power Plant ETC Works

Project	Installation, Testing & Commissioning of 3x85MVA, 230/11KV 150MW HFO Based Midland East Power Plant Substation for Youth Group
Year of Completion	2018
EPC Company	CRRC Ziyang Co Ltd
End Customer	MEPL, Youth Group

230KV, 150MW HFO Power Plant ETC Works

Project	Testing & Commissioning of 230KV, 335MW HFO Based Power Plant Substation at Siddhirganj with SAMSUNG C&T Corporation for EGCB
Year of Completion	2018
EPC Company	SAMSUNG C&T Corporation
End Customer	Electricity Generation Company of Bangladesh Ltd, EGCB

Power Plant & Substation SCADA Integration

Project	Turn-key solution of Telecommunication, NMS & SCADA Integration of 150MW HFO Power Plant with National Load Dispatch Centre for MEPL
Year of Completion	2018
EPC Company	CRRC Ziyang Co Ltd
End Customer	MEPL, Youth Group

Project	Turn-key solution of Telecommunication, NMS & SCADA Integration of 86MW Gas based Power Plant with National Load Dispatch Centre for SPCL as a local EPC Company
Year of Completion	2020
EPC Company	Controlware Power & Automation Engineering Ltd
End Customer	SPCL, Youth Group

132KV GIS ETC Works

Project	Installation of 132KV Outdoor GIS at 132/33KV PGCB Feni Grid Substation for 114MW Feni Lanka Power Plant Bay Extension with LTL Global
Year of Completion	2019
EPC Company	LTL Global Engineering(Pte) Ltd
End Customer	114MW Feni Lanka Power Ltd

Project	Testing & Commissioning of 5 nos 2x120MVA, 132/33/11KV GIS Substation with HYOSUNG Corporation
Year of Completion	2018
EPC Company	HYOSUNG Corporation
End Customer	Dhaka Electric Supply Company Ltd

132KV Bay Extension Project

Project	Design, Approval, Civil Construction, Supply, Installation, Testing & Commissioning of 132KV Bay Extension at 132/33KV PGCB Chowmuhani Grid Substation for 113MW HFO Based Power Plant on Turn-key basis
Year of Completion	2019
EPC Company	Magnus Power Private Ltd
End Customer	113MW HFPL

Project	Design, Approval, Civil Construction, Supply, Installation, Testing & Commissioning of 132KV Bay Extension at 132/33KV PGCB Chowmuhani Grid Substation for 113MW HFO Based Power Plant on Turn-key basis
Year of Completion	2019
EPC Company	Magnus Power Private Ltd
End Customer	113MW HFPL

33KV GIS Works

Project	Installation, Testing & Commissioning of 11 nos 2x26MVA, 33/11KV GIS Substation with CEC for BPDB Chattogram
Year of Completion	2021
End User	Bangladesh Power Development Board

33KV Bay Extension

Project	Design, Approval, Civil Construction, Supply, Installation, Testing & Commissioning of 33KV Bay Extension at 132/33KV PGCB Sherpur Grid Substation for Sherpur Polli Bidyut Samity
Year of Completion	2018
End User	X-Index Companies Ltd

Retrofitting Works

Project	Loading-Unloading, Transportaion, Installation, Testing & Commissioning of 33/11.5KV, 10/14MVA OLTC Transformer along with supply of Differential Relay, Control Cables, LA, Earthing Materials etc at Thakurgaon Substation for Thakurgaon Polli Bidyut Samity on Turn-key basis
Year of Completion	2020
End User	Thakurgaon PBS

Project	Loading-Unloading, Transportaion, Installation, Testing & Commissioning of 33/11.5KV, 10/14MVA OLTC Transformer along with supply of OC/EF Relay, Control Cables, LA, Earthing Materials etc at Swarupkathi Substation for Pirojpur Polli Bidyut Samity on Turn-key basis
Year of Completion	2019
End User	Pirojpur PBS

Project	Modification and upgradation of 33KV Bus with Twin-Martin along with supply of required materials and PGCB approval at 132/33KV Kewatkhali Grid Substation
Year of Completion	2018
End User	Mymensing Polli Bidyut Samity-2

Project	Maintenance & repair of 2x15MVA, 33/11KV Substation equipment (33KV & 11KV Breaker), Relays along with supply of Battery bank, Charger etc
Year of Completion	2018
End User	Bangladesh Machine Tools Factory Ltd

Project	Loading-unloading, Transportation, Installation, Testing & Commissioning of a 20/26MVA Generating Transformer with required engineering modification along with supply of a protective relay
Customer	Energy Prima Ltd, Bogra
End User	Bangladesh Power Development Board

Project	Substation Grounding Engineering Solution for 337MW Summit Meghnaghat Power Company Ltd
Year of Completion	2018
End Customer	KEPCO, Korea

Solar Power Generation Projects

Project	Testing & Commissioning of 50MWp Solar Power Plant at Sutiakhali, Mymensingh
Year of Completion	2020
EPC	Fujian Yongfu Power engineering Co. Ltd
End Customer	HDFC SinPower Ltd

Project	Testing & Commissioning of 35MWp Solar Power Plant at Manikganj
Year of Completion	2021 January
EPC	Sungrow
End Customer	Spectra Solar Park

Project	Testing & Commissioning of 10MWp Solar Power Plant at Panchagar
Year of Completion	2019
EPC	Risen Energy (Hong Kong)Co. Ltd
End Customer	Symbior Aqua Breeder

Substation Equipment Supply

Project	Supply of Schneider Electric brand Protective Relays 1st & 2nd lot(53 pcs), directly imported from France & UK
Year of Completion	2018
End Customer	Dhaka Electric Supply Company Ltd (DESCO)
Project	Supply of 132KV IVT & LA
Year of Completion	2018
End Customer	86MW Shahjibazar Power Company Ltd
Project	Supply of 33/11KV, 10/14MVA Transformers (07 sets)
Year of Completion	2020
End Customer	Bangladesh Rural Electrification Board
Project	Supply of 33KV GIS Spare Parts made by Schneider Electric, Germany
Year of Completion	2020
End Customer	Dhaka Electric Supply Company Ltd (DESCO)
Project	Supply of 11KV Breaker made by Schneider Electric, India
Year of Completion	2020
End Customer	Dhaka Electric Supply Company Ltd (DESCO)
Project	Supply of 11KV AIS Spare Parts made by Schneider Electric, India
Year of Completion	2020-2021
End Customer	Dhaka Electric Supply Company Ltd (DESCO)

Yearly Maintenance of Power Plant Substation

Project	Yearly Maintenance of 230KV, 56MW Midland Power Plant Substation
Year of Completion	2017
End Customer	Youth Group
Project	Yearly Maintenance of 132KV, 50MW Kumargaon Power Plant Substation along with supply of Protective Relays and modification of Control Circuits
Year of Completion	2017
End Customer	Energyprima Ltd

Testing & Commissioning

Project	Testing & Commissioning of 12 nos 230KV High Ampere CT at Ghorashal 360MW Power Plant for CNTIC
Year of Completion	2017
End Customer	CNTIC

Project	Testing & Commissioning of 33/11KV, 7.5MVA new Substation at Rugganj ASU Plant for Linde BD
Year of Completion	2017
End Customer	Linde Bangladesh Ltd

Project	Testing & Commissioning of 17 number of 33/11KV, 3x28MVA GIS Substation for Siemens Bangladesh Ltd
Year of Completion	2019 & 2020
End Customer	Dhaka Electric Supply Company Ltd, DESCO

Our Movement in Industries

Project	Yearly Maintenance of KSRM 132/33/11KV, 2x45MVA Substation
Year of Completion	2019

Project	Yearly Maintenance of 350KV,6MVA Substation
Year of Completion	2018

Project	Yearly Maintenance of 33/11KV Substation of Meghna Cement Mills Ltd
Year of Completion	2019

Project	Installation, Testing & Commissioning of 132KV IVT at Bashundhara Industrial Complex, Madanganj
Year of Completion	2018

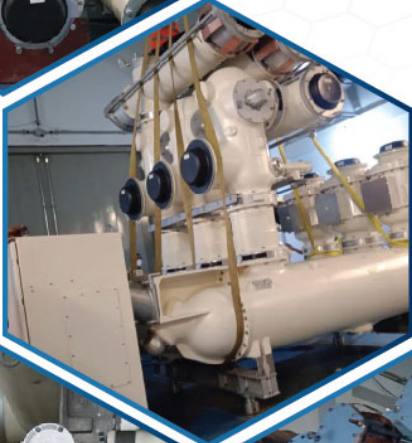
Project	Power Cable Hi-pot & Relay testing at Heidelberg Cement, Kanchpur
Year of Completion	2019

Project	33KV GIS Installation, Jointing of 33KV Power Cable, Earthing solutions etc at Casiopea Fashion Ltd
Year of Completion	2020

Project	Installation, Testing & Commissioning of 33/6.6KV, 2x25MA Substation at Muktarpur for Premier Cement Mills Ltd
Year of Completion	2021

Project	Installation, Testing & Commissioning of 33/6.6KV, 1x25MA Substation at Chattogram for National Cement Mills Ltd
Year of Completion	2021

400KV GIS PROJECT AT APSCCL





**230KV Outdoor
SF6 Breaker
Retrofitting Project**

132KV OUTDOOR GIS WORKS





**132KV
AIS Bay
Extension
Project**

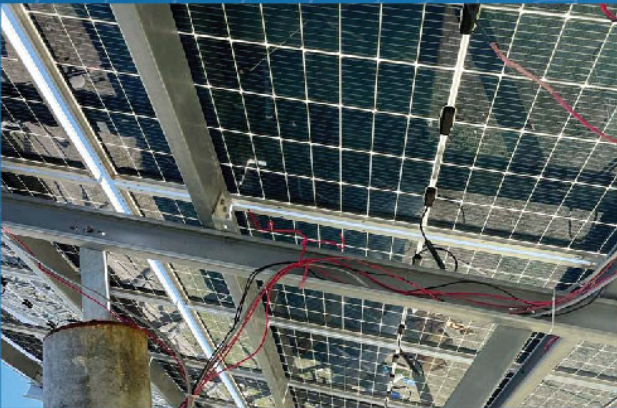
33KV GIS BPDB PROJECT



33KV SUBSTATION EPC PROJECT WITH BREB



Solar Power Plant Projects



Our Pre-commissioning Test Activities at Site



Our Valued Partners

SIEMENS

Schneider
Electric

ABB



Megger



PFISTERER

Raychem RPG

Landis
Gyr+
manage energy better

SECURE

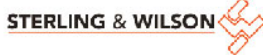
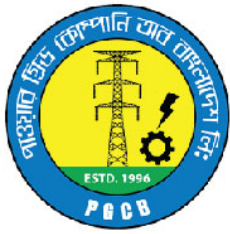


HBL
HBL Power Systems Limited.

S&S
POWER



Our Valued Clients





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