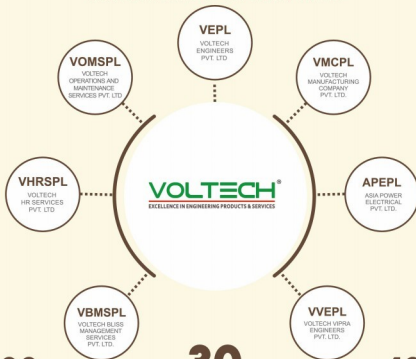




GROUP PROFILE



VOLTECH GROUP OF COMPANIES



6000+
EMPLOYEES

30
YEARS OF EXCELLENCE

40+
COUNTRIES

Corporate Office @

Voltech Eco Tower,
No.2/429, Mount Poonamallee Road,
Ayyapanthangal,
Chennai - 600056



CHAIRMAN'S MESSAGE

Esteemed Client,

We are pleased to introduce ourselves as a comprehensive electrical service provider and end-to-end product manufacturer. Our core proficiencies and specialization in services involves the entire gamut of the power infrastructure in industry ranging from Testing & Commissioning, designing Structural, Civil and Electrical layouts, Correction Schemas for Sub-stations and also preventive and predictive maintenance activities. We have demonstrated expertise and ingenuity in delivering these services over the past two decades.

Our range of products include power and distribution Transformers, Control & Relay panels, Auxiliary Relays and Flameproof Equipment. Our international operations, a division dedicated exclusively to understanding and meeting the demands of international clients, clearly showcases the credibility earned by our company in the global arena.

Voltech is a ubiquitous brand in the field of Electrical Engineering not only in India as well as overseas, with

well-established presence in the Middle-East, Persian Gulf, SAARC Countries, South-East Asia, Far East and the Orient, as well as the continents of Australia and Africa.

Our offices operate exclusively in the following countries: Bahrain, Jordan, Kuwait, Oman, Qatar, Saudi Arabia and UAE in the Gulf region; Iraq and Iran in the Persian region; Cambodia, Indonesia, Laos, Malaysia, Singapore, Thailand and Vietnam in South-East Asia; Algeria, Egypt, Ethiopia, Kenya, Nigeria, Senegal, Sudan, Tanzania, Tunisia, Uganda and Zambia in Africa and Bangladesh, Bhutan, Myanmar, Nepal and Sri Lanka in the SAARC region.

Voltech have opened offices in South Korea and Japan in the Far East and also mark a strong presence in European region with offices at Germany, Spain, Turkey and the UK. We have our business operating out of Australia, and have begun commercial operations in the Americas and Russia as well by 2019.

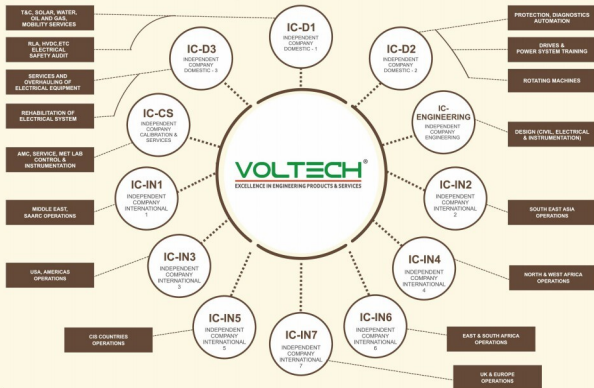
We are truly an international organization of global outlook and reach. We are proud to enclose herewith, our group profile as a ready reckoner for your kind consideration. It is our spirited endeavor to showcase our enterprise to you and offer the best of our products and services for your utmost satisfaction.


M. Umaphi



VOLTECH ENGINEERS PRIVATE LIMITED

ISO 9001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY



IC - D1

SERVICES OFFERED

TESTING AND COMMISSIONING OF

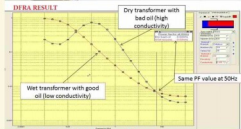
- Substations up to 765 kV class in AIS, GIS and \pm 800 kV HVDC to PGCIL, State utilities, Central utilities, of PAN INDIA basis.
- Power Generation Plant for Government of India enterprises State utilities, Central utilities, and Power Plant of COAL, GAS, NUCLEAR, HYDRO and RENEWABLE.
- Process Plant for Government of India enterprises and Private Sectors of OIL and GAS (ON/OFF SHORE), CEMENTS, STEELS, PETRO CHEMICALS, MINERALS etc....
- Heavy Irrigation plants, Water & Sewage Treatment Plant & Mines.
- Erection Testing and Commissioning supervision services (PMS and SMS services) for All type of Plants and Industries PAN INDIA Basis.
- Data Centre to Perform level 2 to 5
 - Site Acceptance Testing
 - Pre Functional Testing
 - Functional Performance Testing
 - Integrated System Testing

SOLAR PLANT TESTING

- Testing & Commissioning of Solar Power Plants,
- Hot – Spot Inspection with Drone IR Imaging / Thermography Scanning
- I-V Curve Analysis on Solar Modules
- Performance / Efficiency Assessment of Solar Plants
- Design Validation, Load flow analysis of Solar Projects.
- Harmonic Analysis and Mitigation of Solar Plants.

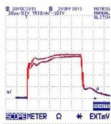


INDEPENDENT COMPANY - DOMESTIC 1





Recurrent Surge Oscillogram Test



ETC

- Erection, Testing and commissioning of Electrical Equipments ranging from 415V to 765kV Class for the various utilities like, Power Plant, Substations, Process industries, Gas Plants and Pumping Stations etc.

DIAGNOSTICS TESTING FOR (STG/HTG/GTG) GENERATORS

- Partial Discharge Measurement by abiding the IEC 60270
- Recurrent Surge Oscilloscope
- Capacitance and Dissipation factor/power factor Measurement by abiding the IEEE C57
- DC High Voltage Test for Stator Windings
- Wedge Tightness Identification using soft Hammer
- Pole drop Test
- Electro Magnetic Core Imperfection Detection

EPC

- Turnkey Solution Provider in Design, Supply, Erection, Testing & Commissioning (EPC) for Utilities, Renewable & Non Renewable Energy Sectors
 - AIS Substations
 - DP yards
 - Internal Transmission Line
 - Water Pump House Projects
 - Industry Internal/External Electrification
 - Solar Projects

IC - D2 | SERVICES OFFERED

PROTECTION

- We do Configuration, Testing & Commissioning of Protection Relays
- Our Engineers are versatile on mapping of Goose Signals on Numerical Relays with IEC 61850
- Wider knowledge to work from Electro Mechanical relays to latest development of IED
- Our Expertise team has strong knowledge to work on various Relays

RELAY MANUFACTURES

- | | |
|--------------|---------------------------|
| • ABB | • Alstom |
| • Siemens | • Schneider Electric |
| • Schweitzer | • Nanjing Nari |
| • Reyrolle | • Beckwith |
| • GE | • Sifang, Woodward |
| • ZIV | • L&T, C&S and JVS Relays |

SOFTWARE PROFICIENCY

- | | |
|---------------------|------------------|
| • PCM600 | • Micom S1 Agile |
| • Digs1 4 & Digs1 5 | • PCS Explorer |
| • Ascelerator | • Zivercom Plus |
| • Reydisp Evolution | • IPScom |
| • Enervista | |
| • SE Easergy Studio | |

- We have expertise team to work on different types of Schemes and Unit Protections
 - Line / Distance Protections
 - Differential Protection
 - Motor & feeder Protection
 - Generator Protection
 - Busbar Protection
 - Pilot – wire Protection
- Factory Acceptance Test (FAT) for CRP.

RETROFITTING

We do retrofitting and upgradation of protection system which includes,

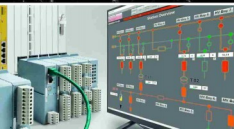
- Design & supply of CRP/Numerical relays
- Modification of protection scheme and panels
- Relay setting recommendation and co-ordination
- Configuration, testing, commissioning and integration of relays with SCADA system

DATA CENTRE

The following services done at various data centre projects for various Private Ltd companies, Public Ltd companies, Tele media services etc

- | | |
|---|---|
| • Testing and Commissioning of Electrical Equipment | • Third party inspection |
| • Relay setting calculations and coordination | • Trouble shooting and maintenance services |
| • Insulation coordination study | |





IC - D2 | SERVICES OFFERED

AUTOMATION

- Our resources are expertized in testing & Commissioning of HMI, SCADA and RTU panels of Substation Automation System (SAS).
- In addition, we are also into retrofitting and upgradation of Substation Automation System (SAS).
- Our experience with SAS tools includes,
 - Building architecture
 - IEC61850 mapping
 - 101 Serial and 104 Parallel communication protocol configuration
 - ICD and SCD mapping and exporting from IED's
 - Gateway, switch and router configuration
 - Server mapping
 - Programming of RTU
 - HMI configuration
 - Remote signal mapping

DIAGNOSTICS

- Condition assessment of electrical equipment's
 - Tandelta
 - SFRA
 - RSO
 - Furan analysis
 - Partial discharge
 - OLTC DCRM
 - DFRA
 - Dissolved Gas Analysis
- Power quality analysis
- Thermography survey
- Circuit breaker analysis up to 765kV voltage level
- Service and maintenance of HT & LT breakers.
- Dew point measurement of SF6 gas
- 3rd harmonics and leakage current measurement of lightning arrestors

Diagnostic testing of Motors

- Motor current signature analysis (MCSA)
- Vibration
- Noise
- Tandelta
- Partial discharge

Diagnostic testing of Generator

- ELCID
- RSO
- wedge mapping
- NFT
- Tandelta
- Partial discharge
- Endoscopy
- Borescopy
- Winding Analysis
- Pole Drop

Overhauling of transformer which includes

- Rewinding
- OLTC servicing
- Oil filtration
- Oil leakage arresting
- Gasket replacement
- Radiator overhauling

IC - D2 | SERVICES OFFERED

TRAINING

- We are providing Comprehensive Training on power system Testing & Commissioning and protection relay's of different manufacturer's.
- Engineering and design training on E-Tap (Load flow analysis, Short circuit analysis, Network modelling, Harmonic study, Power factor improvement, Transient stability, arc flash study and power system study)
- Topics are specially designed to provide a strong foundation on the fundamental principles of Testing and commissioning with control and protection systems.
- Training sessions are handled by experienced trainers containing valuable information & more of a discussion based training.
- Real time integrated testing of CT, PT, CB, HV Testing and Transformer testing.
- Hands on training provided which involves configuration and communication of protection Relays with various manufacturers'.
- Customised training module is also provided based on individual requirements
- Industrial visit's to our manufacturing units (Transformer / Switchgear / CRP & Relays / Battery Chargers / Flame Proof) to enhance the knowledge in design & manufacturing of electrical equipment's.

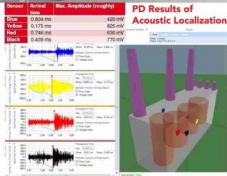
Training Modules for College

- Internship Training
- Student & Faculty development Program / Guest lecture / Seminars
- Center of Excellence
- Workshop Training
- Online design training
- Online T&C training

Training Modules for Industries

- In-House Training - Voltech Techno Park, Chennai
- On-Site Training
- Online design training
- Online T&C training
- Online power system protection training





IC - D3 | SERVICES OFFERED

AUDIT & INSPECTIONS

- Electrical Safety Audit for Various sectors in Process Industries, Power Distribution sectors and Infrastructure sector
- Harmonics Audit
- Performance Guarantee Test (ELECTRICAL) all type of Process Plants.

OVERHAULING/REFURBISHMENT SERVICES

- Complete Electrical refurbishment activities in Process & Power Plants
- Refurbishment & Overhauling Transformers Ranging from 1000 KVA to 250 MVA (400/220KV Class) & Line Reactors Up to 50 MVar.
- MCC & PCC, HT & LT Panels refurbishment
- LT & MV Switchgear refurbishment.
- Overhauling of Power Generators up to 30 MW
- Executing the ELECTRICAL TA - Turnaround Business (O&G and all Process Plants)

CONDITION ASSESSMENT

- Residual Life Assessment of Transformers up to 765KV Class 500MVA
- Dielectric Frequency Response Analyzer
- On-line (AE Technique) & Off-line Partial Discharge Identifications by abiding the IEC 62478 and IEC 60270
- Health Assessment of Electrical equipment ranging from 415V to 765kV Class.

IC - CS

INDEPENDENT COMPANY - CALIBRATION & SERVICES

IC CS – Independent Company for Calibration & Services is the one of the newly conceived Independent company of VOLTECH ENGINEERS PVT LTD, We made this unit to provide world class service specially in the field of calibration & services of Various types of Relays, AMC of Electrical Equipment's, NABL & non NABL Calibration of measuring Instruments, ETC of Control and Instrumentation system.

ANNUAL MAINTENANCE TESTING

- Condition Assessment testing of Electrical switchyard and switchgear equipment's like Generators, Transformers, Motors, CT's, PT's, CVT's, Breakers and Isolators etc.,
- Periodic Maintenance test on Shutdown activities.
- Servicing, Overhauling and Maintenance of Circuit Breakers.
- Repair and Servicing of Relays.
- Retrofitting of Relays, Control & Relay panels and Switchgears.
- Trouble shooting and Gap Analysis.
- Supervision and Support Services for Electrical Maintenance during Major Overhauling.
- Thermography survey.

CONTROL & INSTRUMENTATION

- Erection, Commissioning and Calibration in Various Process Plants.
- Control Valve Stroke checking, Loop checking & Calibration.
- Supervision and Support Services for Erection and Commissioning.
- Shutdown & Turn around Jobs for C&I activities.
- Deputation of C & I Engineers, Technicians & Tube Fitters.
- DCS, PLC, RTU system commissioning activities.
- Retrofitting Activities - Field Instruments & Panels





MET – INSTRUMENTS CALIBRATION CENTRE

LAB ID : C0964

CERTIFICATE NO : CC-3832

ISSUE DATE : 14/02/2024

VALID UNTIL : 13/02/2026

MECHANICAL (LAB & ON-SITE)

Parameters Covered: Pressure, Vacuum, Flow Speed, Weights, Weighing Machines and Volume.

Instruments Covered: Pressure Gauges / Transmitters / Switches & Controllers, Pressure Regulators and recorders, Ultrasonic Flow Meter, Magnetic Flow Meter, I/P and P/I Converter, Vernier, Weighing Scale, Sound level meters, Hygrometers, Lux meter, Ph & Conductivity sensor, Bore depth and dial gauges.

ELECTRO – TECHNICAL (LAB & ON-SITE)

Parameters Covered: AC/DC Current, Voltage, Resistance, Time, Frequency, Capacitance, Inductance, Energy and Power.

Instruments Covered: Online and Offline Energy meters, 3.5 to 6.5 Digital Multi-meter (AC/DC), Clamp meter, leakage current tester (AC/DC), Digital and Analog voltmeter and Ammeter, Insulation tester, High voltage Test Kit, Frequency counter, Tan- delta, Relay testing kit and Other Electrical Testing Instrument.

THERMAL (LAB & ON-SITE)

Parameters Covered: Temperature and Relative Humidity

Instruments Covered: Temperature Gauges / Transmitters / Switches & Controllers, RTD, Hot Air Oven, Incubator, Refrigerator, Muffle Furnace, Thermometers and Temperature baths.

IC - ECS (ENGINEERING CONSULTANCY SERVICES)

DESIGN & ENGINEERING

Voltech is a leading player in providing Design and Engineering Services including owner's Engineer services to major EPC solution providers and Independent Project Builders in the field of Generation, Transmission and various Plants/ Industries requires bulk power.

Services offered for T&D and Industrial Substations

- Primary design and detail engineering of AIS up to 765kV and GIS up to 400kV.
- Secondary design and detail engineering.
- Protection Relay and Control panel engineering.
- SAS Architecture and System requirements.
- Unit Protection Setting Calculation & OC /EF setting coordination.
- Civil & Structural design and detail engineering.
- Pre-bid engineering services.

Services offered for Renewable Projects

ELECTRICAL

- Solar AC/DC design
- Inverter control room (ICR) design
- Master control room (MCR) design
- Pooling substation design
- Grid integration studies
- Unit substations
- 33kV power collector system

CIVIL & STRUCTURAL

- Module mounting structure (MMS) design
- IDT foundation
- Inverter control room (ICR) design
- Master control room (MCR) design
- Pooling substation design
- Transmission line design
- Plant roads & drains





Solar AC/DC Engineering

- Solar shading analysis
- Array & string layouts
- Plot plan development
- Power generation calculations
- AC/DC SLD development
- Grid connectivity studies

Services offered in Power System Studies and Analysis

- Load Flow/Short Circuit / Motor Starting / Transient Stability Analysis, AC Load Shedding.
- Harmonic Analysis and Mitigations / Arc Flash and Reliability study.
- DC Load Flow and Short circuit & Arc Flash
- Insulation Co-ordination Studies (LJOV, SOV, VFTO, Ferroresonance, TRV)

Services offered in Civil & Structural Engineering

Substation :

- Tower & Equipment Support Structure
- Tower & Equipment foundations
- Control Building
- Drain / Cable Trench
- Auxiliary - System Foundation

Transmission Line :

- Sag / Tension Calculations
- Tower Structural Design / Detailing
- Tower Foundation

Solar Plants :

- MMS Design
- Infrastructure Design
- MCR/ICE Design

Design Tools and Software Used

- | | | | |
|---------------------|-----------------|------------------|------------|
| • Micro Station V8i | • CYMGRID - 6.3 | • STAAD. Pro V8i | • Pvsyst |
| • Auto CAD | • ELECDESK 8.6 | • EMTP (Latest) | • SketchUp |
| • ETAP (Latest) | • DIALUX - 4.13 | • PLS Tower | |

Design Standards

- | | |
|-----------------|---------------|
| • IEEE/IEC | • IS/BS/ EN |
| • ANSI/NEC/NEPA | • AS/ASCE/ANS |

INTERNATIONAL SERVICES

IC - IN1 | MIDDLE EAST & SAARC

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN1 team has undertaken the above activities at the following regions:

SAARC	:	Sri Lanka Bangladesh Nepal Bhutan Maldives Afghanistan
Gulf Countries	:	Oman UAE Qatar Kuwait Bahrain Saudi Arabia Iraq Yemen Jordan Syria
Europe	:	United Kingdom

We have Approved Electrical & Instrumentation Engineers for Utilities, Substations & Power plants from

- | | | |
|-----------------------------|---------------------|---------------------------|
| • CEB, Sri Lanka | • MEW, Kuwait | • NEPCO, Jordan |
| • DEWA, Dubai | • KAHARAMA, Qatar | • MOEE, Yemen |
| • ADWEA & TRANSCO, Abudhabi | • SEC, Saudi Arabia | • BPD8 & BGCB, Bangladesh |
| • FEWA & SEWA, U.A.E | • EWA, Bahrain | |
| • OETC & DCRP, Oman | • MEI, Iraq | |

We have Approved Electrical & Instrumentation Engineers for Oil & Gas, Hydro-carbon Plants from,

- | | | |
|------------------------------|------------------------|----------------------|
| • PDO, Oman | • PETROMASIL, Yemen | • KNPC & KOC, Kuwait |
| • ADNOC & TAKREER, Abu Dhabi | • TATWEER, Bahrain | • BAPCO, Banagas |
| • QP, QG & RASGAS, Qatar | • ARAMCO, Saudi Arabia | |





IC - IN2 | SOUTH EAST ASIA

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN2 team has undertaken the above activities at the following regions:

South Asian Countries : **Singapore | Malaysia | Myanmar | Indonesia | Thailand | Vietnam**
Bruniei | Laos | Cambodia | Philippines | Papua New Guinea

Region of Ocean Countries : **Australia | Fiji | New Zealand.**

We have Approved Electrical & Instrumentation Engineers for Utilities, Substations & Power plants from

- | | |
|------------------|---------------------------|
| • TNB, Malaysia | • NGCP, Philippines |
| • EGAT, Thailand | • AER, Australia |
| • MOEE, Myanmar | • PNGEC, Papua New guinea |
| • EVN, Vietnam | • EDL, Laos |
| • PLN, Indonesia | • EAC, Cambodia |

IC - IN3 | AMERICAS

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN3 team has undertaken the above activities at the following regions:

- | | | | | | |
|----------|----------|---------|-------------|-------------|------------|
| • USA | • Mexico | • Peru | • Colombia | • Panama | • Suriname |
| • Canada | • Brazil | • Chile | • Argentina | • Nicaragua | • Paraguay |

We have Approved Electrical & Instrumentation Engineers for Utilities, Substations & Power plants from

- Electrobras - Brazil • NVEBS - Suriname • Enatrel - Nicaragua • UTE - Uruguay

Credentials

- Electrical & Civil Detailed Engineering, Testing and Commissioning of 138/24.9kV substation for M/s ENATREL through M/s Apollo International Ltd at Nicaragua
- Supply of Battery Charger for M/s. KEC International Limited for their project at Nicaragua.
- Testing and Commissioning of 1X70 MW Rivera B2B HVDC Project through M/s. Alstom at Uruguay.
- Testing and Commissioning of GE D30 Multilin Line distance protection relay configuration and testing at Suriname
- Deputation of our Inspection Engineer for the Inspection of Tempered Glass Disk Insulators for M/s. CIE Paraguay.
- Deputation of Civil and Electrical Engineers to "Tetrattech Canada Inc" for Implementation of Transmission Lines and Substations in JUSNL project at Jharkhand, India
- Installation Supervision and Commissioning of Capacitor Banks at Algihaz projects at Saudi Arabia through "GE Grid Solutions LLC", USA.
- Supply of Control & Relay panel for "ABB Panama Sales, S.A" for their YIL port project at Ecuador.





IC - IN4 | NORTH & WEST AFRICA

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN4 team has undertaken the above activities at the following regions:

North & West African Countries : **Algeria | Senegal | Mali | Ivory Coast | Ghana | Nigeria | Gabon | Morocco | Mauritania | Sierra Leone | Liberia | Guinea | Benin | Niger | Cameroon | Togo**

We have Approved Electrical & Instrumentation Engineers for Utilities, Substations, Power plants, O&G, Hydro-carbon plants from

- | | | |
|---------------------|--|----------------------|
| • EETC, Egypt | • KEC International Ltd in Dapaong at Togo | • EDSA, Sierra Leone |
| • TCN, Nigeria | • ECG, Ghana | • LEC, Liberia |
| • ONEE, Morocco | • EDM, Mali | • ENEO, Cameroon |
| • SENELEC, Senegal | • SOMELEC, Mauritania | • OMUG |
| • SONELGAZ, Algeria | • EDG, Guinea | • SONATRACH, Algeria |
| | | • NIPEX, Nigeria |

IC - IN5 | CIS COUNTRIES

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN5 team has undertaken the above activities at the following regions:

CIS Countries : **Azerbaijan | Armenia | Belarus | Kazakhstan | Kyrgyzstan | Moldova
Russia | Tajikistan | Turkmenistan | Uzbekistan | Ukraine**

East European Countries : **Turkey | Georgia | Finland | Estonia | Lithuania | Hungary
Bulgaria | Serbia | Romania | Poland**

Credentials

- Deputation of Testing Engineers for Testing & Commissioning of Wartsila Gas Engines and 220KV Substation for 240MW CCPP at Uzbekistan Through M/s.Wartsila Smarkand Energy.
- Supply of 1000KVA Servo Stabilizer for Indorama Agro plant at Uzbekistan through M/s.Indorama Agro.
- Deputation for Supervision of Testing & Commissioning Activities for CASA 1000 Project at Tajikistan through M/s.Hitachi Energy, Sweden.
- Deputation of Testing Engineer for Testing & Commissioning of Converter Duty Transformers for CASA 1000 Project at Tajikistan through M/s.Hitachi Energy, Sweden.
- Engineering works for Insulation coordination study, Short circuit report for HV down to MV and LV & Electrical Design Description with Methodology (For Design Criteria) for 220/110/35kV Ozurgeti and Lajanuri Substation Project at Georgia through of M/s.ROK Energy – Turkey.





IC - IN6 | EAST & SOUTH AFRICA

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, LIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations
- Supply, Erection, Testing & Commissioning of **Voltech Make Products**

IC-IN6 team has undertaken the above activities at the following regions:

East African Countries : **Uganda | Tanzania | Mozambique | Zimbabwe | Zambia | Burundi Botswana | Ethiopia | Central Africa Republic | Malawi | South Sudan | Rwanda | Kenya**

We have Approved Electrical & Instrumentation Engineers for Utilities, Substations, Power plants, O&G, Hydro-carbon plants from

- | | |
|-------------------------|------------------------------------|
| • UMEME, Uganda | • EEPKO, Ethiopia |
| • TANESCO, Tanzania | • REGIDESO, Burundi |
| • EDM, Mozambique | • BPC, Botswana |
| • ZESA, Zimbabwe | • ESCOM, Malawi |
| • ZESCO, Zambia | • ENERCA - Central Africa Republic |
| • KPLC & KETRACO, Kenya | |

IC - IN7 | UK & EUROPE

Services

- Detailed Engineering for Substations and Electrical & Instrumentation Balance of Power Plants
- Pre Commissioning Testing of GIS, AIS, Electrical & Instrumentation Balance of Power Plants, Oil & Gas Plants & L&G Terminals, HVDC & Transmission Lines
- Supply, Erection, Testing & Commissioning of **Any Electrical & Instrumentation Products**
- Operation and Maintenance of all type of Power Plants, Oil & Gas Refinery Units, L&G Terminals and Substations, HVDC & Transmission Lines

IC-IN7 team has undertaken the above activities at the following regions:

UK & Europe Countries **France | Germany | Italy | Sweden | Denmark | United Kingdom**

Poland | Greece | Netherlands

Credentials

- M/s. Mitsubishi Electric UK - Primary Engineering Design and Structural engineering of 400KV Blyth Substation.
- Deputation of Commissioning Engineer for Substation Project of ABB Schweiz AG, Switzerland and 220/66/11 kV System Voltage at Bahrain
- Deputation of Site Supervisor - Testing for Steel Plant Project of Paul Wurth, Italy and 36/70/170 kV System Voltage at Algeria
- Deputation of Commissioning Engineer for Substation Project of Toshiba T&D Europe, Italy and 220/60/30 kV System Voltage at Algeria
- FAT for various protection relays for M/s. Systems Power Ltd, Lancashire through M/s. Siemens in UK.



Our Gears

S.No	Description	Brand	Origin	Qty
1.	1Φ Primary Injection Kit with Booster (up to 2000A)	Omicron CPC 100	Austria	25
2.	3 Phase Secondary Injection test Kit	Omicron CMC 256,356	Austria	30
3.	3 Phase Secondary Injection test Kit	Megger: SMRT-410, Freja 300	UK	06
4.	1Φ Secondary Injection test Kit (100A)	Programma Sverker 750	Sweden	10
5.	High Voltage Test Kit (up to 100kV DC)	Phonix	US	02
6.	Tan Delta Test Kit (up 12kV AC)	Doble/Megger Eltel	USA/UK/India	20
7.	Sweep Frequency Response Analysis (5V, 20Hz to 2MHz)	Doble/Megger	USA / UK	06
8.	Dew Point Meter	Alpha/Vaisala	UK/Finland	20
9.	Thermo Vision Camera (up to 1000°C & BW-7microns)	Fair T420bx	UK/Finland	16
10.	Vibration Measurement Kit	X-Viber	Sweden	10
11.	Noise Measurement Kit	Lutron	Taiwan	10
12.	Power Quality Analyzer	Kyoritsu Fluke	Japan USA	20
13.	Circuit Breaker Analyzer	Scope	India	20
14.	Transformer Winding Resistance Kit-10A	Eitel / Scope	India	15
15.	Contact Resistance Kit (100A)	Eitel / Scope	India	75
16.	Scott Timer - 3 Phase	Scope	India	75
17.	Turns Ratio Test Kit	Eitel/Scope	India	75
18.	ARC Fusion Splicer	Fujikura (FSM - 40 S)	Japan	15
19.	Partial Discharge	Omicron PDL-650	Austria	02

S.No	Description	Make	Origin	Qty
19.	OTDR	Hewlett Packard (HP - 6000B)	USA	15
20.	HT Megger 5kV /10kV	Kyoritsu Megger	Japan	500
21.	Multi Meters	Fluke	China	3000
22.	Clamp Meter (2000A) (100A)	Kyoritsu	Japan	4000
23.	OTI & WTI Calibrator – Oil Type	Interf	India	60
24.	Earth Resistance Tester	CIE/WACO	India	150
25.	Soil Resistivity Tester	Megger	UK	10
26.	Galvanometer	Oxford	India	2000
27.	C.T.Analyzer	Omicron/Vanguard	Austria/UK	06
S.No	Description	Make	Model	Qty
28.	Hart and Foundation Field Bus Universal Communicator	Emerson	475	20
29.	Portable Ultrasonic Flow Meter	GE	PT878	20
30.	Multifunction loop Calibrator	Yokogawa	CA71	20
31.	Oil Lubricated Vacuum Pump	Toshniwal	TMS-015	20
32.	Pneumatic medium Pressure calibrator	GE	Pace-1003	20
33.	Hydraulic high Pressure Calibrator	GE	Pace-1003	20
34.	Low temperature Bath	Sothem Scientific	SSB-CI	20
35.	Medium Temperature Dry Block Bath	Nagman	METCAL 650	20
36.	High Temperature Dry Block Bath	Nagman	MTC 1200	20

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IC-D3

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IC-CS

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IC-IN7 | UK & EUROPE

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VOLTECH O AND M SERVICES PVT. LTD.

Certifications

ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018

VOLTECH O AND M SERVICES PVT. LTD.

ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY

OUR PROFESSION

- Complete Asset Management Service
- Plant Optimization & Solution
- AMC of Electrical, Mechanical and C&I systems

INDUSTRIAL SECTORS

POWER PLANTS

- Thermal Power Plants – Electrical, Mechanical, and Control & Instrumentation Systems of BTG, BOP, ESP, Switchgears and Switchyard, CHP and AHP.
- Nuclear Power Plants – Electrical and Control & Instrumentation Systems of Main Plant, Auxiliary Units like VFD, Motors, Switchgears and Switchyard.
- Diesel Generator Power station – Complete Operation & Maintenance.
- Overhauling of HT & LT Motor.

RENEWABLES

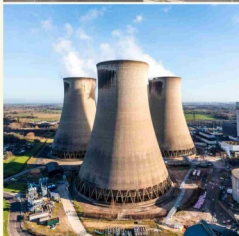
- Wind Energy – WTG Operations and complete BOP O&M services.
- Hydro Power Plants - Maintenance Service solutions.
- Solar Energy – Solar PV Modules & Inverters with Pooling substation along with TL Systems.
- Bio-mass – Complete Plant Operation & Maintenance

OIL & GAS HYDROCARBON PLANTS

- Oil & Gas – Electrical & Instrumentation systems
- Refineries & Petro chemicals – Mechanical, Electrical & Instrumentation systems

TRANSPORT & LOGISTICS

- Metro Rail Transportation - Complete Power systems / OHE – FOCS & ROCS
- Railways - Complete Power systems/ OHE / Non-core activities.
- Airport - Utility Operation & Maintenance Services





PROCESS PLANTS

- Steel Plant – Electrical and Control & Instrumentation systems in Blast furnace areas and other areas Auxiliary systems
- Cement & Sugar Plant – Electrical Systems

SUBSTATION & TRANSMISSION LINE

- Power system Transmission / Distribution Substations – 11 kV to 765 kV
- Data Centre – Utility Maintenance and Substation O&M

VOMS SIGNIFICANT SERVICE SCALE

- Complete turnkey operation models
- Development of defective notification system
- Support preventive maintenance requirements of planning and scheduling
- RCA, FMEA and Identification of risk associated with system failures
- Maintenance strategy development and review and Execution of scheduled outages
- Maintaining a defect free plant for maximum availability.
- One-stop-solution provider for OEM products service
- Maximization of uptime of system installations
- Increased operational performance and efficiency
- Network of service midpoints, which provides support for operation and maintenance activities around the world
- Optimization lifecycle costs and inventory management
- Site Specific Computerized Maintenance Management System - CMMS
- 24x7 services support

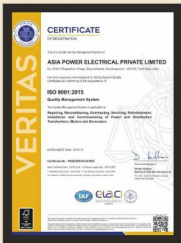
CONTROL MEASURES KEEP UP

- Situation monitoring.
- Periodically Shutdown services without hampering the production.
- Maintaining highly Safety Standards and quality services on time and within budget.
- As part of our continuous improvement initiative, we conduct safety training programmes and audits to our man force.
- Review of safety norms regular basis both at sites and administrative offices as proactive measures.
- Plant Housekeeping.

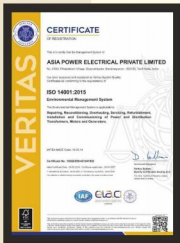
ASIA POWER ELECTRICAL PVT. LTD.

Certifications

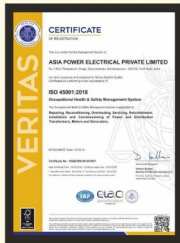
ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018



ASIA POWER ELECTRICAL PVT. LTD.

ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY

- APEPL is supported with group of Engineers and Techno crafts having rich experience in the field of Power Transformers, Motors and Generator for more than two decades.
- APEPL undertakes overhauling Servicing / Repairing / Re-conditioning of Power and Distribution Transformers Upto 230 kV 100MVA Range and Various rating of Motors and Generators.
- APEPL Undertakes servicing of all types of Power Plants right from co-generation Plants to Megha Range Power Plants / State Utilities / Process Industries Like Steel / Cement / Sugar / Metal / Paper / Oil & Gas Plants / Mines & Minerals, Seaports, Airports and Railways.
- APEPL also specialist in Erection Testing & Commissioning of Power Transformers, undertakes oil filtration and Circulation for improving of oil quality and IR value of Transformers with a dedicated filtration machine ranging 12KL/Hr & 4.5KL/Hr
- APEPL maintains a high degree of quality on all of our products and services.
- Repairing of Transformers and Motors at site including Changing of Coils, Assembling, Drying, Heating Process, Vacuum Processing, Site Erection, Testing and Commissioning.

Asia Power Electrical CAN HELP YOU

- To set right design failures in transformers.
- Short circuit failures of Transformers, Motors and Generators
- Replacement of burnt coils with a new one.
- Arresting of oil leakages / Gasket Replacements
- Changing of bushings for Transformers
- Changing of bearings for Motors and Generators
- Refurbishment of faulty transformers / Motors / Generators
- Overhauling / Servicing of Tap changes (OFF Load & ON Load)
- Diverter Switch inspection & Replacement
- Rectification of malfunctioning of control schemes / Trouble Shooting
- Replacement of Transformer Auxiliary Protection Relays Like MOG, Surge, Buchholz, OLTC & WTI etc



Certifications

ISO 9001 : 2015 CERTIFIED COMPANY



www.voltechvipra.com





VOLTECH VIPRA ENGINEERS PVT. LTD.

ISO 9001 : 2015 CERTIFIED COMPANY

Voltech Vipra is a rapidly growing company specializing in Instrumentation and Fire Solutions, offering turnkey services across various industrial sectors, including infrastructure, automotive, and energy. The company has made significant contributions in fields such as oil & gas, metro projects, ports, lithium-ion battery plants, BESS fire protection, and industrial automation. Following are the major activities under Voltech Vipra.

INSTRUMENTATION ENGINEERING

Comprehensive Solutions: Voltech Vipra provides end-to-end instrumentation engineering services, ensuring seamless integration and optimal performance across various Oil & gas both on shore and off shore, chemical, power plants and pulp & paper segment.

INSTRUMENTATION EPCC

(Engineering, Procurement, Construction, and Commissioning):

Turnkey Project Execution: Expertise in delivering complete EPCC services for instrumentation projects, ensuring timely completion and adherence to quality standards.

FIRE FIGHTING SYSTEMS

Customized Fire Protection: Design and implementation of tailored fire fighting systems, including wet and dry sprinkler systems, hydrant systems, wet risers, fire pumps, and foam systems, adhering to international standards like NFPA and Indian Standards.

FIRE ALARM SYSTEMS

Advanced Detection Solutions: Provision of state-of-the-art fire alarm systems designed and executed for early detection and notification, enhancing safety and minimizing potential damage.

GAS SUPPRESSION SYSTEMS

- **Clean Agent Suppression:** Implementation of clean gas suppression systems suitable for protecting sensitive environments such as data centers and DCS Control rooms, ensuring rapid fire suppression without harming equipment.
- **Condensed Aerosol Suppression System** – Implementation of Condensed Aerosol Fire Suppression System for Electrical Panels, Electrical Panel Rooms, DG Room, API Pharma application and Li Ion Battery Application.

AUTOMATION

- **Industrial Automation Services:** Offering automation solutions that enhance operational efficiency and process control across various industries. Voltech Vipra has done various projects in Siemens PLC, HMI and SCADA. Voltech Vipra can offer cost optimized solution with high quality PLC system.
- **IIOT (Industrial Internet of Things)** - At Voltech Vipra we also specialize in IIoT (Industrial Internet of Things), enabling the next level of digital transformation in industries. IIoT integrates smart devices, sensors, and data analytics into traditional industrial systems, facilitating real-time monitoring, predictive maintenance, and enhanced decision-making.

CCTV, ACCESS CONTROL, AND BMS (BUILDING MANAGEMENT SYSTEM)

Integrated Security Solutions: Provision of comprehensive security systems, including CCTV surveillance, access control, and building management systems, to ensure safety and efficient facility management.

PRUDENT ENGINEERING AND FIRE SOLUTIONS PVT. LTD.

Prudent Engineering and Fire Solutions Pvt Ltd – At Prudent, we provide a comprehensive range of fire safety products and HSE solutions tailored to meet the highest standards of protection and compliance.

- Aspiration Smoke Detection System – AVA Prevent, Taiwan
- Fire Alarm System – Kentec, UK
- Wireless Detection System – Kentec UK
- Beam Detectors – The Fire Beam, UK
- Water Mist System – Hydrocore, UK
- Central Battery System – RP Technik, Germany
- HSE - VR Training Modules – Ludus, Spain



BEAM DETECTORS



TAKTIS UL/EN - ADVANCED ANALOGUE
ADDRESSABLE FIRE PANEL



WATER MIST NOZZLE



VIRTUAL REALITY - HSE



CCTV & ACCESS CONTROL
SYSTEM EQUIPMENTS



BEYOND ENGINEERING



VOLTECH HR SERVICES PVT. LTD.

Certifications

ISO 9001 : 2015 | ISO 27001 : 2022 CERTIFIED COMPANY



ISO 9001 : 2015

VOLTECH HR SERVICES PRIVATE LIMITED

ISO 9001 : 2015 | ISO 27001 : 2022 CERTIFIED COMPANY

OUR SERVICES



CERTIFICATIONS



NASSCOM



RECRUITMENT SERVICE

- Our permanent recruitment division can partner with organization of all sizes and could deliver best-fit talent across industries.
- We are a Registered Recruitment Agent under Ministry of External Affairs, Govt. of India for international recruitment.
- We know where to locate the right candidates, how to attract them and how to partner you in managing and controlling an effective, professional recruitment campaign with a range of recruitment possibilities to choose from: *Executive search, Headhunting Search, Confidential Search, Emigration Clearance, Visa Stamping and Recruitment Back Office Services*

BACKGROUND VERIFICATION

At VHRS, we have an eminent panel of adept Background Check experts who have a massive bank of expertise in the Background Check Services industry. We provide both national and international background verification solutions.

Our Background Verification services for Blue collar & White Collar employees includes *Documents / Identity Verification, Employment Screening, Address Verification, Criminal Record Verification, Court Record Verification, Education Verification, Drug tests, Social Media Screening, and more* checks as per our client's (Banks / NBFC's / Corporate) requirements. We are rated one of the best Background Verification Companies in Chennai and throughout India.

STAFFING | COMPLIANCE | PAYROLL

- We Provide both Professional and Technical Resources and also support short-term, seasonal, high- volume and niche contract requirements.
- We also provide contract-to-hire, talent for project based support with option to hire our contractors as permanent employees, or find the permanent top talent for your company needs today.
- Our trained personnel spread across 15+ locations in India along with our use of cutting-edge technology will equip your business with cost-effective temp staffing solutions that maximize efficiency, improve productivity and maintain compliance across multiple skill sets.

EVENT MANAGEMENT SERVICE

- We offer an extensive variety of unique, inventive and sophisticated event solutions for corporate clients.
- We dedicate ourselves to help you rise to the occasion of planning, organizing, & managing a successful event professionally execute your events in flawless way and make it a life time memorable one.
- We are expert helping you organize Corporate Events, Annual Days, Family Days, Team Outing, Inauguration, Product Launch, Rewards & Recognition, Branding activity, Road Show, Exhibition and more.

ATTESTATION SERVICE

Comprehensive Attestation Solutions – We provide end-to-end document attestation services for educational, personal & commercial documents, ensuring hassle-free authentication for international use.

Government & Embassy Approvals – Our services include verification from Notary, HRD, MEA, and respective embassies, ensuring compliance with legal and regulatory requirements.

Fast & Reliable Processing - With our expertise and strong network, we ensure quick turnaround times & secure handling of your important documents.

VOLTECH BLISS MANAGEMENT SERVICES PVT. LTD.

Certifications

ISO 9001 : 2015, ISO 27001 : 2022 CERTIFIED, PSARA NO. TN: 1794/2023, PUDUCHERRY: PSA/L/12/PY/2023/FEB/5/64, KARNATAKA - PSAL/L/96/KA/2025/JAN/3/964



ISO 9001 : 2015



PSARA - TAMILNADU



PSARA -
PONDICHERRY



PSARA - KARNATAKA



VOLTECH BLISS MANAGEMENT SERVICES PVT. LTD.

ISO 9001 : 2015, ISO 27001 : 2022 CERTIFIED, PSARA NO. TN: 1794/2023, PUDUCHERRY: PSA/L/12/PY/2023/FEB/5/64, KARNATAKA - PSAL/L/96/KA/2025/JAN/3/964

TECHNICAL SERVICES

- Electrical works Mechanical & Plumbing
- ETP, WTP & STP Services
- HVAC Systems
- Fire Fighting & Fire Alarm
- Repair & Maintenance of Lift / Elevators / Cranes
- Repair & AMC of Diesel Generators

IT SERVICES

- Repair and Maintenance of Software and Hardware in Computer Networks
- AMC, Servicing of Network / Desktops / Laptops / Printers
- Application Management
- Operation & Maintenance of **Data Centre**.

CASH MANAGEMENT SERVICES

- Cash Management Services
- ATM Managed Services
- ATM's all round Auditing
- Door Step Banking / PDC Management

CASH VALUABLE SERVICES

- Bullion Movements / Cash vans along with Cash Custodian, Armed Guards & GPS / Wireless communication systems.

SOFT SERVICES

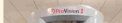
- Cleaning Services , upkeeping & Sanitary works
- Waste Disposal Management
- Pest Control Services
- Landscaping & Horticulture
- Plumbing & Drainage Services
- Swimming Pool Operations
- Façade Cleaning

SECURITY SERVICES

- Security Guards / Armed Guards
- Automated gates & access control systems
- Security Audit
- Intruder Alarm System and Infra-Red Motion Detection
- Close Circuit Television Cameras - CCTV

SECURITY TRAINING ACADEMY

- We has Implemented an integrated HRD Program
- We have Certified Trainer and Training Academy
- Health and Safety Training
- First aid / Fire awereness Training
- Staff Development Training
- Security / Disaster Mitigation Training



SECURITY SCREENING SYSTEM - SALES & SERVICES

- Field Servicing of Multiple OEM's XRAY Baggage scanners, DFMD's, Trace Products – Original Equipment Manufacturer – Sales, Installations, Commissioning & Services Support including spare parts and accessories.
- CAMC – Comprehensive Annual Maintenance Contracts & NON CAMC - NON-Comprehensive Annual Maintenance Contracts of all security screening systems
- Operations & Maintenance contracts
- Project Management for security screening solutions
- Operator Training's for security screening professionals
- Technical Training's for Technical support – Engineering team
- Computer Based Training (CBT) system – Screening Professionals across AVIATION and Security domain.
- Service Partner for Service Delivery Execution - Manpower Supply
- Service Partner for Service Delivery Execution - Complete Package
- We are the OEM of Electrical Distribution Panel & Interface Panel for all types of Scanning machines



CONTACT US

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VVEPL

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OUR MANUFACTURING UNIT



VOLTECH MANUFACTURING CO. PVT. LTD.

Certifications

ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY



ISO 9001 : 2015



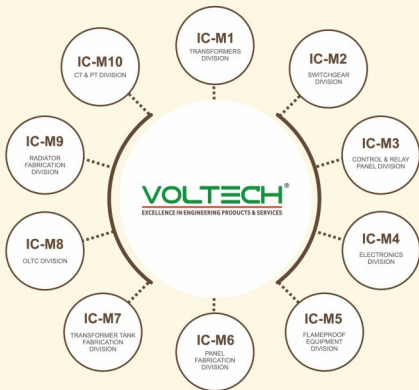
ISO 14001 : 2015



ISO 45001 : 2018

VOLTECH MANUFACTURING COMPANY PRIVATE LIMITED

ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 & ISO 27001 : 2022 CERTIFIED COMPANY



IC - M1 | TRANSFORMERS DIVISION

Our Range of Transformers

OIL COOLED TYPE

- Power Transformers (upto 25MVA up to 132kV Class)
- Distribution Transformers as per IS 1180 & IS 2026 (upto 2.5MVA, 33kV Class)
- Distribution Transformers as per IEC 60076 & IS 2026 (upto 4MVA, 33kV Class)
- Hermetically Sealed Transformer (upto 7.5MVA, 33KV Class)
- Earthing Transformer (up to 500Amps, 33KV Class)
- Furnace Duty (up to 10MVA, 11&33KV Class)
- Generator Duty Transformer (upto 5MVA, 33KV Class)
- Auto Transformer (upto 25MVA, 132KV Class)
- Lighting Transformer (upto 3MVA, 433V/433V)
- Auxiliary Transformer (upto 500KVA, 433V)
- Converter Duty Transformer (up to 15 MVA, 33KV Class)
- Scott-T Connected Transformer (upto 1MVA, 33KV Class)
- Inverter Duty / Solar Duty Transformer (upto 10MVA, 5 Winding, up to 33KV Class)
- Wind Energy Transformer (4MVA upto 33KV Class)

DRY TYPE TRANSFORMERS

- LT - 10KVA to 2000KVA up to 1000V
- HT - 25KVA to 2500KVA up to 11KV class with / without OLTC (VPI - Vacuum Pressure Impregnation)



500KVA, 11KV/433V DISTRIBUTION TRANSFORMER OCTC, EEL 2,
MAHINDRA WORLD CITY CORPORATION, CHENGALPATTU



LT DRY TYPE
TRANSFORMER



HT DRY TYPE
TRANSFORMER

5.25MVA/220KV/800V INVERTOR DUTY TRANSFORMER -
AVAADA, KUSUM, MAHARASHTRA PROJECT



11 KV OUTDOOR RMG PANEL -
RKM ELECTRICALS, CHENNAI100AMP LT PANEL
TWAD

LDB OUTDOOR LT PANEL



E-House

IC - M2 | SWITCHGEAR DIVISION

Voltech's MV switchgears are designed for Primary Distribution networks and are suitable for Indoor as well as outdoor applications. These are equipped with our Mu Series of indigenously developed MV Vacuum circuit breakers. These are compartmentalized designs suitable for LSC-2B, PM ensuring safety of the working personals and Internal Arc Classified for 1 Sec.

OUR RANGE OF PRODUCTS

Medium Voltage

Range

- 3.3kV to 33kV
- Upto 4000A
- Upto 40kA/3 sec.

Applications

- Indoor/Outdoor panel
- Single/Line-up
- Outdoor Porcelain type
- Compact/Unitized Substation
- Ring Main Gears/Units

Fault Interrupting

- Vacuum Circuit Breakers
- Load Break Switches
- Vacuum Contactors
- Earth Switches

Low Voltage

Range

- 220 to 800V
- Upto 6300A
- STC upto 80kA

Applications

- Power control Centers
- Motor Control Centers,
- Automatic P.F Controller panels
- Distribution Boards & Junction boxes.
- VFD's/Soft starter Panels
- Busduct (Indoor & Outdoor)

ABOUT E-HOUSE

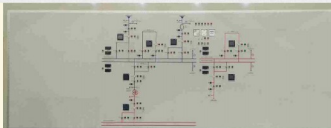
Electrical buildings "E-houses" or "electrical houses", are prefabricated walk-in enclosures that contain sensitive electrical and mechanical equipment that requires protection.

IC - M3

CONTROL AND RELAY PANEL DIVISION

OUR PRODUCT RANGE

- We design, manufacture, test and supply the control & relay panels to the following power system components ranging from LV, MV, HV, EHV voltage levels.
- The Panels are designed either simplex/duplex/mosaic type according to the customer requirements.
 - Transmission line
 - Power transformer
 - Generator
 - Motors
 - Bus bar
 - RTCC Panel
 - Synchronizing panels and Trolleys
 - Metering, Mimic and Annunciation Panels
 - Control Desks
 - Marshalling Kiosks (Indoor and Outdoor)
 - Mosaic - Control Panels for Special Applications.
 - SCA - Panels
- We provide system up gradation solution to the existing system having conventional type protection relays by retrofitting them with numerical relays.
- Our products are successfully type tested at **CPRI, Bangalore.**



220KV/90KV MOSAIC MIMIC PANELS FOR KALPATARU
POWER TRANSMISSION LIMITED – CAMEROON.



KERALA STATE ELECTRICITY BOARD (KSEB) -
33KV FEEDER CONTROL & RELAY PANEL, KERALA.

Directional Over Current and Earth Fault Relay



Trip Relays



Trip Circuit Supervision Relay



Motor Protection Relay



RELAYS

OUR PRODUCT RANGE

Non-Directional Over Current & Earth Fault Relay

- Simple and reliable construction
- Microprocessor based numerical design
- User Friendly
- Current time graded over current & Earth Fault protection
- RS 232 Serial Port for Program Loading

Directional Over Current & Earth Fault Relay Features (VN200R)

- Simple and reliable construction
- Micro-processor based numerical design
- Communication Protocol 61850 for SCADA (RS 485) & USB Port for Program Loading

Motor Protection Relay Features (VN500R)

- Simple and reliable construction
- Micro-processor based numerical design
- Readily interfaces to SCADA using standard communication protocols.

Auxiliary Relay (Type-V80RS/V80RH)

- Simple and reliable construction
- Electro mechanical design
- Self or hand reset contacts

Tripping Relay (Type - V86RH)

- High speed operation
- Electro mechanical design
- Hand reset contacts
- Hand reset mechanical flag

Trip Circuit Supervision Relay (Type-V95RS3)

- Simple and reliable construction
- Electromechanical design

ON/OFF Delay Timer (Type-V562R)

- Micro-Controller based economical design.
- Time settings easily selected by means of Selected switches
- Output relay freely configurable for desired relay operation such as Pick-Up/Drop-Off
- Both AC & DC auxiliary supply available.
- Compact Robust construction

We got Vendor Approval from Hubli Electricity Supply Company Limited, Hubli for the Manufacturing and Supply of Auxiliary & Protective Relays

IC - M4 | ELECTRONICS DIVISION

OUR PRODUCT RANGE

BATTERY CHARGER

- We manufacture Battery Chargers which ranges from 12V to 220V & 10A to 300A.
- Our Panels are successfully Type Tested.

TECHNOLOGY

- SCR based Microcontroller Battery charger
- Battery charger with HMI interface
- Micro Processor based Battery Charger

TYPES :

- Float Cum Boost Charger
- Float Charger And Boost Charger
- Dual Float Cum Boost Charger
- Float And Float Cum Boost Charger

SERVO STABILIZER

We manufacture Servo Stabilizer which ranges from Power 3KVA to 150 KVA (for Air Cooled); 20KVA - 3500 KVA (for Oil Cooled) (3 ϕ and 1 ϕ)

Type: Digital-Micro controller based Servo Stabilizer

POWER SUPPLY

- DC- DC Converter upto 2KW
- SMPS Power Supply up to 2KW



Micro Processor based
Battery Charger



Servo Stabilizer



Power Pack with
Battery Backup



SMPS



110/60A FCBC- GVPR,
YETTINAHOLE PROJECT,
KARNATAKA



30V/60A 1 PHASE FCBC WITH
INTERNAL BATTERY,
AALCO, QATAR



**FLP/WP
PUSH BUTTON STATION**
Cat. No : VMC/1010 & VMC/175



**FLP/WP
PLUG & SOCKET**
Cat. No : VMC/1010



**FLP/WP
WELL GLASS FITTING**
Cat. No : VMC/127



**FLP/WP LIMIT SWITCH
(ROLLER/LEVER TYPE)**
Cat. No : VMC/105



**FLP/WP LED
REACTOR VESSEL LAMP FITTING**
Cat. No : VMC/1285



**FLP/WP
CLEAN ROOM LED FITTING**
Cat. No : VMC/184 C8F

IC - M5

FLAMEPROOF EQUIPMENT DIVISION

Certified by **CIMFR** (Central Institute of Mining and Fuel Research), Dhanbad, with ISI marking and approved by **PESO** (Petroleum & Explosives Safety Organization), India under the purview of Petroleum Rules, 2002.

PRODUCTS

Light Fittings

Clean Room LED Fitting
Well Glass Fitting / Tube Light Fitting
Bulk Head Fitting / Flood Light Fitting
Reactor Vessel Lamp Fitting

Control Station & Switch Gears

Push Button Station, Limit switches
Interlocked Plug & Sockets, Fire Alarm Station
Motor Control Centres, Starters and Distribution Boards

- Motor Starters & Isolators, Junction Boxes, Cable Gland & Accessories etc.
- Weather Proof Junction Box/Push Button Station/Interlocked Switch Socket Unit.
- Camera Housing



**FLP/WP
INSTRUMENT ENCLOSURE**
Cat. No : VMC/186



**FLP/WP
FLOOD LIGHT FITTING**
Cat. No : VMC/151



**FLP/WP DOUBLE COMPRESSION
CABLE GLAND & DUMMY PLUG**
Cat. No : VMC/209G & VMC/209F



**FLP/WP
REACTOR VESSEL LAMP**
Cat. No : VMC/128



**FLP/WP
JUNCTION BOX**
Cat. No : VMC/105



**FLP/WP
CAMERA ENCLOSURE**
Cat. No : VMC/127CA

IC - M6 | PANEL FABRICATION DIVISION

Voltech Manufacturing Company Private Limited is the Metal Fabrication business designs and manufactures enclosures, panels, sub-assemblies and customized parts for customers in Power Controls, Solar & Wind, Metro Transportation, Engineering and Utilities.

We combine our vast knowledge and expertise with state-of-the-art equipment to manufacture superior quality products efficiently and at competitive prices.

OUR RANGE OF PRODUCTS

- Power and Energy Distribution Cabinets(Switchgear, Busducts, Control Relay Panel, Batter charger Panel, Transformer Enclosure and
- Transformer Control panel/Battery Rack/Trays/Cable trays)
- Standard Cabinets/ Enclosures
- Telecom & Networking Racks
- STORAGE Cabinets Solutions
- Automobile Components

PLANT INFRASTRUCTURES

Machine/Line : Turret Punch Press

Capacity : 20T, Max. sheet size :1250 X 2500mm, Max. sheet Thickness: MS 3mm /Aluminum 3mm/SS 2mm

Description : A turret punch or turret press is a type of punch press used for metal forming by punching.

No. of Machines/Lines : 1



ARCELOMITTAL LIBERIA LIMITED, LIBERIA
SUPPLY OF APFC PANEL, ARCELOMITTAL



TANTRANSO & PWD - 11KV 800A
OUTDOOR RMG PANEL, CHENNAI



PURE HYGINE INTERNATIONAL LIMITED
33KV, 630A, 26.3KA/3SEC OUTDOOR
SINGLE VCB PANEL, NIGERIA



LINDE INDIA LIMITED 415V, 160A
PDB PANEL, PED TELEGANA, HYDERABAD

PANEL FABRICATION DIVISION PLANT INFRASTRUCTURES

Machine/Line : Shearing Machine

Capacity : 60T, Max. length :3100mm, Max. sheet Thickness: MS 6mm/Aluminum 6 mm/SS 3mm

Description : A forming press, commonly shortened to press, is a machine tool that changes the shape of a work piece by application of pressure.

No. of Machines/Lines : 1

Machine/Line : Fabrication Line

Capacity : 2.5 MT/Hour

Description : Welding is the main focus of steel fabrication. The formed and machined parts are assembled and tack welded into place then re-checked for accuracy. A fixture may be used to locate parts for welding if multiple weldments have been ordered.

No. of Machines/Lines : 5

Machine/Line : Powder Coating

Capacity : 3.0 MT/Day

Description : Powder coating is a type of coating that is applied as a free-flowing dry powder. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin".

No. of Machines/Lines : 2

Machine/Line : Press Brake

Capacity : 135T, Max. length :3100mm, Max. sheet Thickness: MS 6mm/Aluminum 6 mm/SS 3mm

Description : A press brake is a machine pressing tool for bending sheet and plate material, most commonly sheet metal. It forms predetermined bends by clamping the work piece between a matching punch and die.

No. of Machines/Lines : 2

Machine/Line : Pre-treatment Line

Capacity : 3.0 MT/Day

Description : Removal of oil, dirt, lubrication greases, metal oxides, welding scale etc. Is essential prior to the powder coating process. It can be done with a variety of chemicals.

No. of Machines/Lines : 1

Machine/Line : Final Assembly

Capacity : 5.0 MT/Day

Description : Assembly is the process of assembling all the painted sub-parts as per customer drawings by adding bus bars, hardware, rubber gaskets & locks etc.

No. of Machines/Lines : 4

IC - M7 | TRANSFORMER TANK FABRICATION DIVISION

Voltech Manufacturing Company Private Limited (VMCPL) established the Transformer Tank Fabrication Division (IC M7) in the year 2021 and is experienced in the Design and Manufacturing of Transformer Tanks as per IS 1180, Central Board of Irrigation and Power (CBIP) Manual, and IEC 60076 Standards.

We fabricate Transformer Tanks for different types of transformers (mentioned below) from 16 KVA to 50 MVA with the Voltage class upto 132 kV.

- Distribution Transformer Tanks
- Power Transformer Tanks
- Inverter Duty Transformer Tanks
- Earthing Transformer Tanks
- Hermetically Sealed Transformer Tanks

Production quality is maintained using the following methods & certifications

- Procurement of Mild Steel (Hot Rolled & Cold Rolled of different grades) conform to IS 2062, IS 2041 & IS 513 standards & Filler Materials conform to IS 6419 standard
- Welding Procedure Specification (WPS) & Procedure Qualification Records (PQR)
- Welder Performance Qualifications (WPQ) for Welders as per American Society of Mechanical Engineers (ASME) Standards

We offer the following as per customer requirements

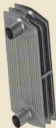
- Shot Blasting process as per ISO 8501 to the minimum Standards of "SA2.5" and the Blast profile prior to the painting of the tank
- Paint application type and thickness, conforming to ISO 12944 standard, is decided with the site pollution level
- Pressure Test, Vacuum Test & Dye Penetrant Test



10 MVA, 110 KV/22-11 KV TANK
FABRICATION IN SK METALS



5 MVA, 33 KV/11 KV TANK FABRICATION IN TATA POWER
SOUTHERN ODISHA DISTRIBUTION LIMITED (TPSODL)

**SILVER & RED- DIRECT WELDED RADIATORS****BLUE- FLANGE TYPE RADIATOR****WHITE- SWAN NECK RADIATOR**

IC - M9 | RADIATOR FABRICATION DIVISION

VMCPL is involved in the manufacturing of Transformer Radiators. Radiators are used in the heat exchange process of the oil cooling system of transformers.

The radiator fabrication plant covers an area of 10000 sq. ft. and includes adequate machines to support both the internal requirements and the demands of external customers.

The radiator fins are made from CRCA Sheets ranging from 1mm to 1.25mm in thickness. The total width of the radiators can be in the range of 220mm to 520mm, with a pitch distance of 50mm. The total number of fins in the radiators can range from 3 to 30 numbers.

The length of the fins will not be constrained by production limits and the requirement can be fulfilled as per the customer design. Radiators can also be manufactured with higher number of sections against specific requirements.

LIST OF MACHINERIES

- Rolling Machine
- Pipe Punching
- Slitting
- Corner Cutting
- Slitting & Trimming
- Single Seam
- Single Spot.
- Grit Blasting system.
- Painting system.

IC - M10 | CT/PT Division

VMCPL established the CT/PT division independently in 2024 and is experienced in the design & manufacturing of Instrument Transformers as per the standards IS16227, IEC /BSEN 61869, IEC 60060, IEC 60071-1, IEC 60270, ANSI IEEE C57.13, AS(IEC) 60044. Instrument transformers are used to monitor parameters such as Current & Voltage in measuring equipment, and to use the said parameters to activate protection schemes in protective equipment.

Our Product range includes Control Transformers from 10VA to 100kVA, 415V & 11kV up to 10 kVA, with & w/o Enclosure, as per IEC 60076. We also manufacture indoor & outdoor Instrument Transformers (LV & MV) with system voltage ranging from 0.44kV to 33kV, and current up to 10kA, for the following applications.

- Metering, Protection, & Special Protection – Single & Multi core and ratio type products
- Ring, Rectangle, Window, Bar Primary, Wound Primary type products
- PVC tape insulated Epoxy Resin, oil immersed varnish impregnated type products
- Earthed & Unearthed, Single & Three Phase, 3 Phase 3 Limb & 5 Limb (RVT) type products
- Special CT- Core Balance, Summation, Split Core, Busing, Interposing & Loop types

Product quality is maintained by conducting the following tests as per the relevant standards, at our own lab or at a NABL accredited lab. Tests can also be conducted as per the customer requirement.

- Routine Tests such as Incoming, In-process, Inspection & Final testing are conducted for each product.
- Type tests such as Temperature rise test, Short time current test, Lighting & Switching Impulse tests, Wet withstand test for outdoor transformers and HV Power test can be conducted for a specific product type.
- Special tests such as Chopped Lighting test, Multiple Chopped Impulse test on Primary winding, Internal Arc test, Measurement of Capacitance & Dissipation factor, Measurement of Transmitted Over voltages, Radio Interference Voltage (RIV) measurement, Temperature coefficient test, Thermal stability test and Mechanical tests can also be conducted for the products as per the customer requirement.



LV CURRENT TRANSFORMER



MV INDOOR RESIN CAST CURRENT TRANSFORMER



3 PHASE VOLTAGE TRANSFORMER



LV INDOOR VOLTAGE TRANSFORMER



RECTANGULAR TYPE RESIN CAST LV CURRENT TRANSFORMERS



MV INDOOR RESIN CAST VOLTAGE TRANSFORMER

Test Certificates

Central Power Research Institute (CPRI), Bangalore

TEST REPORT NO. CPRI/TEST/2024/001

DATE: 14 Jan 2024

1. Customer Name & Address: M/s. VOLTECH MANUFACTURING COMPANY PVT. LTD., No. 10, 11th Main Road, Electronic City, Bangalore 560 075, Karnataka, India.

2. Nature of sample: 1000mAh 3.7V Li-ion battery.

3. Quantity: 1000mAh 3.7V Li-ion battery.

4. Date of completion of testing: 14 Jan 2024.

5. Report Type: Test Report.

6. Remarks: The sample tested complies with the requirements of IS: 15650-1:2014 for test conditions.

Page 1 of 10

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT

TEST REPORT NO. CPRI/TEST/2024/001

DATE: 14 Jan 2024

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CENTRAL POWER RESEARCH INSTITUTE

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Thiruvannamalai District. Tamilnadu**



Sheet Metal Fabrication Plant



Tank Metal Fabrication Plant

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