

# VOLTECH<sup>®</sup>

EXCELLENCE IN ENGINEERING PRODUCTS & SERVICES



# Engineering Consultancy Services

EXCELLENCE IN VALUE ENGINEERING



Edition - 2 | April 2022

Design & Engineering



## VISION

To Provide Quality Design and Engineering Consultancy Service.



## MISSION

Customer Satisfaction through Professional Service.



## STRATEGY

Exhibit Excellence in Value Engineering.

## Who We Are

Voltech Group, started in the year 1995, located in Chennai, India, is a well-established state of the art Global Engineering Company in Electrical and Electronics industry with 25 years of rich global domain experience,

We are the manufacturers of Transformers, MV switchgears, Relays, Control & Relay panels, Battery Chargers, Flame proof products, Solar PV Panels and Testing & Commissioning service providers with 5000+ engineering professionals. We are present in about 50 countries across all continents.

The Design and Engineering Consultancy Division of Voltech is an ISO 9001 – 2015 certified Design House, which provides one stop, end to end design and engineering consultancy services to various EPC customers, Industry owners and utilities in the field of Electrical, Instrumentation, Civil and Structural engineering. It is one of the lead engineering and consultancy firm in the field of Power Generation, Transmission, Distribution, Renewables, Oil & Gas , Steel, Cement and other various industries, under one roof.



## MD's Message

### Greetings from Voltech !!!

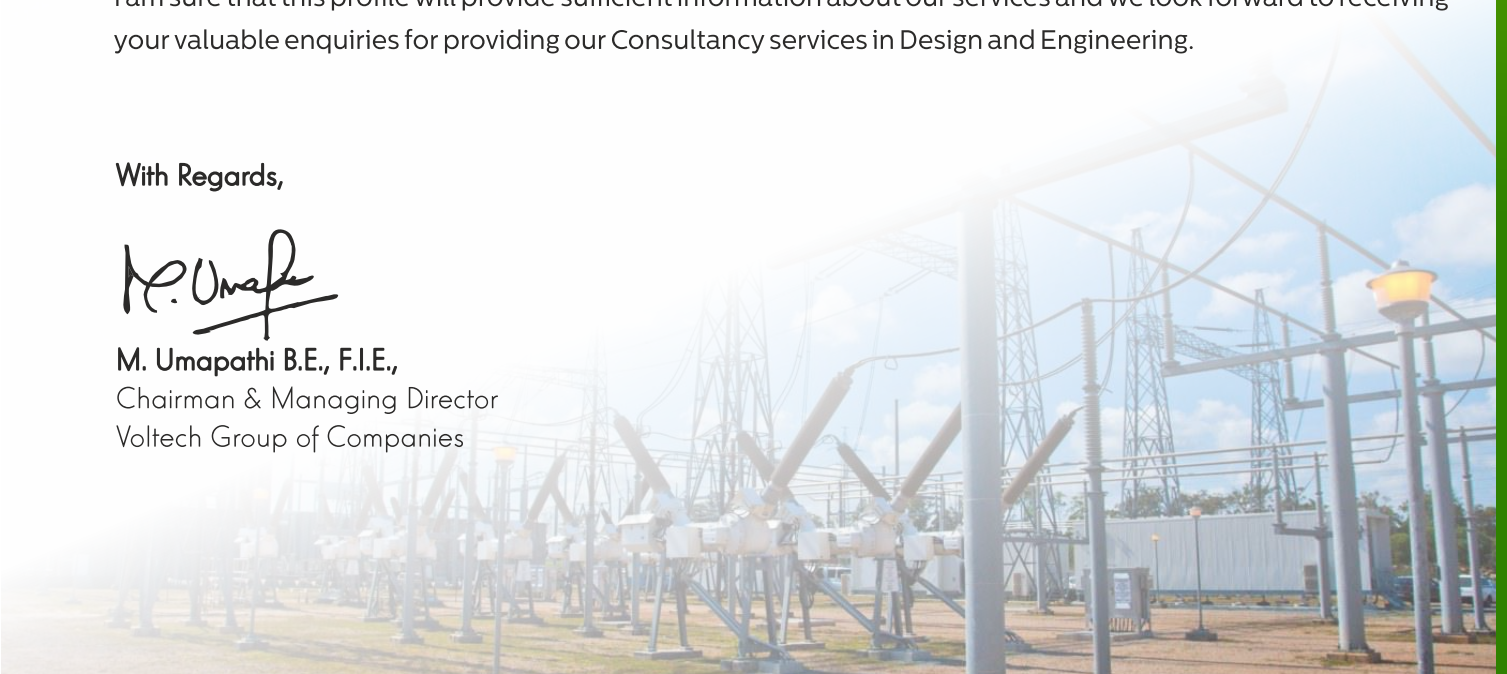
We, Voltech Engineers Pvt. Ltd. an ISO 9001:2015 certified company, are engaged in rendering services and manufacturing products of electrical electronics engineering. We have gained vast experience in the field related to Transmission and Distribution, Power Generation, all types of Industries and other Utilities by way of Engineering, Manufacturing, Testing & Commissioning and Operation & Maintenance.

Our state of the art, ISO 9001-2015 certified, Design and Engineering Consultancy Division is an independent business vertical within the Voltech Group, headed by **Mr. S. Angelson Rajeshkumar**, an electrical design engineer by profession, with 25 years of industry experience. Having gained rich global experience, we are well poised to provide design and engineering consultancy services to all the industry segments.

I am sure that this profile will provide sufficient information about our services and we look forward to receiving your valuable enquiries for providing our Consultancy services in Design and Engineering.

With Regards,

**M. Umaphathi B.E., F.I.E.,**  
Chairman & Managing Director  
Voltech Group of Companies





## Substation Engineering

We undertake complete Design Consultancy services for AIS & GIS, EHV substations upto 765kV. We act either as Project Developer's consultants, Owners or EPC contractor's consultants.

Our gamut of services covers Electrical primary and secondary engineering, Civil & Structural engineering and HVAC & Firefighting engineering which includes Technical Specification preparation, Design & Detailing, Procurement support, Equipment Vendor drawing reviews and FAT services.

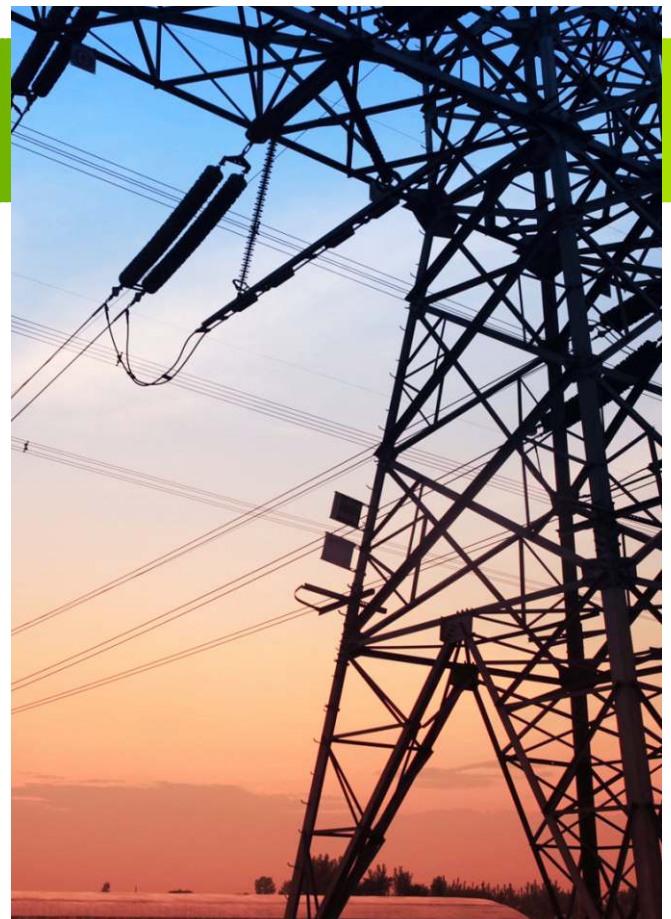
We support EPC contractors during prebid stage providing Specification Review, Cost competitive Layout engineering, Optimum BoQs, Value engineering advice and Vendor selection

## Transmission Line, Civil & Structural Engineering

Civil & Structural engineering services includes substations and transmission lines.

Our Transmission line engineering services can range from Surveys to commissioning upto 400kV. The services include site survey, Transmission Line services, Tower spotting, Tower design and detailing, Tower foundation engineering, Procurement support, Vendor drawings reviews and FAT services

Our Substation engineering covers, Soil investigation review, foundation engineering, Structural design & detailing, Building engineering, and MEP services





# Industrial Plant Engineering & Renewables

We provide Electrical & Instrumentation consultancy services for various industries like, Cement Plants, Water treatment Plants, Power Plants, Steel Plants, Paper Plants, Automobile Plants, Petrochemical Plants and so on.

Our capabilities span from Technical specification preparation, System studies, Equipment sizing calculations, Earthing, Lightning Protection & Cabling, detail engineering and Procurement support to FAT services.

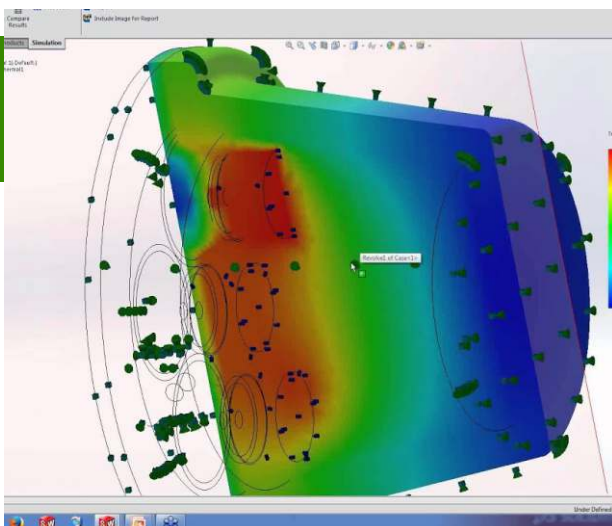
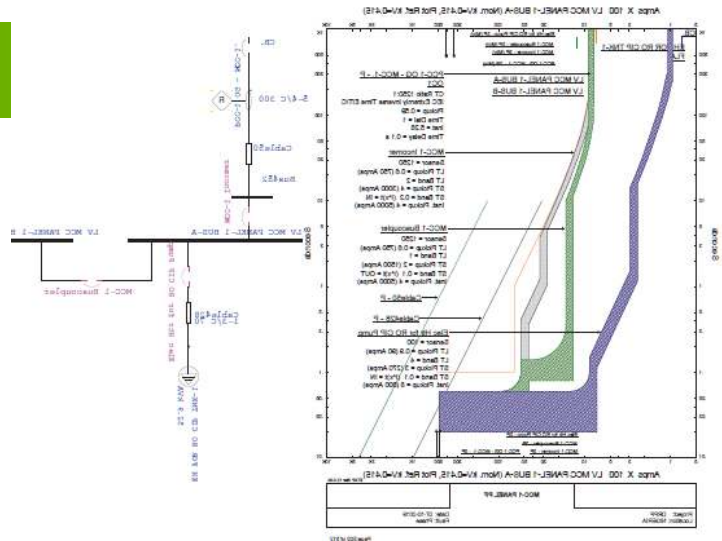
We also offer consultancy services from concept to commissioning of Roof top/ Ground Mount Solar Plants from kW range to Multi Megawatt range, involving Solar Shading Analysis, Power generation studies and preparation of detailed drawings like, array layout, Plot plan, SLD, BoM structural drawings, discom documentations, procurement support & FAT services.

Designing and Engineering of installation of Wind Power Plant and associated works such as evacuation system (lines & substation) from wind power generator up to utility point.

## Power System Studies

We are pioneers in providing various Power System Studies like, Load Flow, Short Circuit Calculation, Relay Co-ordination and Settings, Arc Flash Studies and Harmonic Studies for various industrial plants

We provide transient studies like, Insulation co-ordination, Ferro resonance studies, Transient stability studies Fast bus transfer analysis and Transformer energization. We are experts in network and modelling using ETAP & EMTP softwares.



## Illumination & Building MEP Engineering

We are experts in providing Illumination system design and engineering of various industrial plants, infrastructure projects and various residential and commercial buildings. We also provide Mechanical, Electrical & Plumbing design services to various types of buildings

# Substation Engineering: AIS & GIS

Pre Bid Engineering | Post Bid Engineering | Site Visit Support



## OUR SERVICE

### CIVIL & STRUCTURAL

- Site investigations
- Tower/Equipment Support Structure
- Control Building /GIS Buildings
- Tower/Equipment Foundations
- Cable Trench
- Roads & Drains
- Fence/Boundary Wall

### ELECTRICAL

- Technical Specification
- Design Basis Report
- Conductor Sizing
- SCF & SAG Calculation
- Key SLD /PSLD
- Layout Engineering
- Earthing & Lightning Protection
- Control & Protection
- Cabling Systems
- Aux System (AC/DC) Design
- Procurement Support
- Installation & Commissioning Support
- Vendor Equipment Engineering
- Equipment Inspections (FAT)

## OUR ACHIEVEMENTS

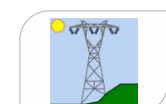
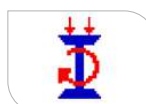
- **765kV SS** - 2 Projects.
- **500/400kV** - 20 Projects.
- **220kV & below** - 100+ Projects.
- **Domestic Projects** - 100+
- **International Projects** - 20+
- **AIS** - 70 Projects.
- **GIS** - 20 Projects.



## DOMAIN

- Utility Substations
- Renewable Substations
- Industry Substations
- Distribution Substations

## SOFTWARES USED



## OUR MAJOR PROJECTS\*

S.No	Project Description	Scope	Customer	End Client	Year of Execution
1	Electrical and Civil Engineering for 400kV GIS extension of 765/400kV GIS Substation at <b>Aligarh, UP, India.</b>	Electrical and Civil Engineering	Hyosung T&D India Pvt Ltd.	Power grid corporation of India Ltd	2021
2	Electrical Engineering (16 Substations) in Development of the electricity transmission network  Equipment programme of the XIIIITH plan classic stations HT (AIS), <b>Tunisia</b>	Electrical Engineering	Kalpataru Power Transmission Ltd, India	Tunisian Electricity and Gas Company (STEG)	2021
3	Electrical Engineering in 220kV switchyard package for Rjasthan Refinery project of HRRL at <b>Rajasthan</b>	Electrical & Vendor Engineering	Hitachi ABB	HPCL Rajasthan Refinery Ltd (HRRL)	2020
4	Electrical and Civil Engineering at 138/90kV AIS substation at <b>Nicaragua, Central America</b>	Electrical & Civil Engineering	Transrail Lighting, India	ENATREL	2020
5	Construction of two 225KV Single Circuit Transmission Line from Nkongsamba Bafoussam, Abong Mbang-Yaounde and Associated Facilities, <b>Cameroon</b>	Electrical & Civil Engineering	Kalpataru Power Transmission Ltd, India	Ministry of Water Resources & Energy Republic Of Cameroon	2019
6	220/132/33KV Grid Substation At <b>Samastipur, Bihar.</b>	Electrical Engineering	Bajaj Electricals	Bihar State Power Transmission Company Ltd	2018
7	400KV / 11KV Tukkapur Substaion In Siddipet Distt. Under Kaleshwaram Lift Irrigation Scheme (Package-12), <b>Telangana, India</b>	Electrical Engineering	Siemens	Transmission Corporation Of Telangana Ltd	2017
8	765/400KV Parli, Warora AIS Substation, <b>Maharashtra</b>	Electrical Engineering	Siemens	Powergrid Parli Transmission Ltd	2016
9	230KV AIS SS At <b>Vyasarpadi In Chennai Region</b>	Electrical Engineering	Alstom T&D India Ltd.	Tamilnadu Transmission Corporation Ltd	2014
10	Alstom Trn Energy 400KV Extn. SS At <b>Raigarh</b>	Electrical Engineering	Trn Energy Ltd.	Power Grid Corporation Of India Ltd.	2013
11	400/220/132KV Kabulpur Substation, <b>Haryana</b>	Electrical Engineering	Jhajjar Kt Transco Pvt. Ltd.	Techno Electric & Engg. Co. Ltd.	2011
12	132KV (New/Extn.) Sub-Station For Transmission System Of <b>Orissa</b> Power Transmission Corporation Ltd. (Pkg.-A)	Electrical Engineering	Orissa Power Transmission Corp. Ltd.	Power Grid Corporation Of India Ltd.	2010

\* For detailed Project list, Kindly Contact Us

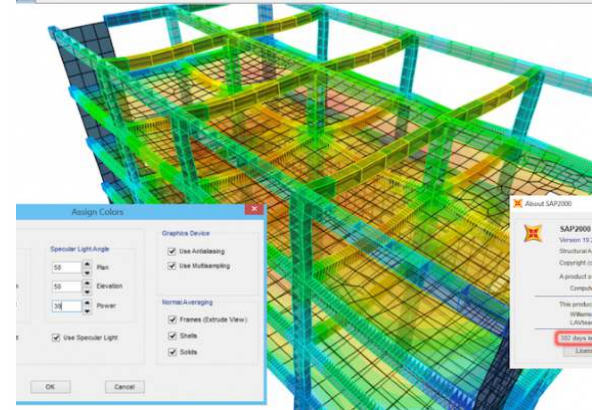
## MAJOR CLIENTS



# Transmission Line, Civil & Structural Engineering

## TRANSMISSION LINE ENGINEERING

- Site Survey Support
- Design Basis and Specification
- Sag Tension Calculations, Tower Spotting and Profile preparation
- Wind load calculations
- Tower Design in STAAD pro / PLS Tower
- Tower Fabrication and Shop drawings
- Tower Foundation Design
- Complete BoM of Electrical, Civil & Structural
- Sag Tension Stringing Chart
- Type test support



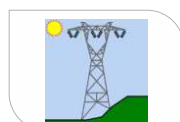
## OUR TESTED TRANSMISSION LINE PROJECT

Voltech designed the towers of the 132kV , DC transmission line for power evacuation from Likhu-1,2&A HEP to New Khimti of Numbur Himalaya Hydropower . The EPC contractor is Apollo Ltd, New Delhi. The designed DCS type tower was tested successfully at Transrail Testing Facility at Wardha, Maharashtra, India

Transrail Testing Centre		
TOWER TEST REPORT		
W.D. No.	Type of Tower	Specification No. / Test Report No.
07648	DCS BTB +3m B.E. +3m L.E.	STP/2020-21
Report on the Design Test carried out on a Black Photo Type 'DCS' BTB +3m B.E. +3m L.E. For 132 KV DC Transmission Line For Power Evacuation From Likhu 1, 2&A HEP to New Khimti of Numbur Himalaya Hydropower . The EPC contractor is Apollo Ltd, New Delhi.		
PROJECT : 132 KV DC TRANSMISSION LINE FOR POWER EVACUATION FROM LIKHU 1, 2&A HEP TO NEW KHIMTI		
END USER / PURCHASER : NUMBUR HIMALAYA HYDROPOWER PVT. LTD. (NHPL) NEPAL		
CONTRACTOR : APOLLO INTERNATIONAL LTD. GURGAON INDIA.		
DESIGNER : VOLTECH ENGINEERS PVT LTD		
DESIGNER REVIEWER : ENERGY INFOTECH PVT LTD		
MANUFACTURER : BANA STRUCTURALS PVT LTD		
TOWER TESTED BY : TRANSRAIL TESTING CENTRE (TTC)		
CUSTOMER OF TTC : TRANSRAIL TESTING LIMITED, MUMBAI		
PLACE OF TESTING : TRANSRAIL TESTING CENTRE, DEOUL WARDHA		
DURATION OF TESTING : 20P TO 23P FEBRUARY 2020		
TESTING WITNESSED BY		
Mr. Mohan Neupane	Number Himalaya Hydropower Pvt. Ltd. Nepal	
Mr. S.P. Choudhary	BNL, Noida	
Mr. Shrip Dutt	BNL, Noida	
Mr. Anand Sharma	Apollo International Ltd. Gurgaon, India	
Mr. Balu	Voltech Engineers Pvt. Ltd.	
Mr. J. K. Sait	Transrail Testing Centre, Wardha	
Mr. Prasad Kulkarni	Transrail Testing Centre, Wardha	
The tower testing was performed as per approved test data sheet and procedure GTEM/TDS-1 (Rev-A) SNo. 19.02.2020 at 'Transrail Testing Center' Wardha, on a prototype tower type 'DCS' BTB +3m B.E. +3m L.E. Tower tested in line with IS-802 Part II: The horizontal & vertical assembly of test prototype was inspected and the tower was erected on the test bed according to the structural drawings as specified in test data & rigging arrangement.		
Transrail Testing Limited B-1/7L, MIDC, Deol, Wardha - 430202 (Maharashtra) Phone: +91 728-2944620 www.transrailtesting.com		
Page 2 of 3		



## SOFTWARES USED





## OUR MAJOR PROJECTS\*

S.No	Project Description	Scope	Customer	End Client	Year of Execution
1	Dhalkebar Loharpatti 132kv Transmission Line Project- at <b>Nepal-20Km</b>	Civil & Structural	Jakson	Nepal electricity authority	2021
2	Construction of a bulk supply point (bsp) at elubo with 33kv interconnecting Circuits- at <b>Ghana-167Km</b>	Civil & Structural	Alpha TND limited,	Electricity Company Of Ghana Ltd	2021
3	Substations (225kv/30kv at Saint Louis East and Extension of the Existing Substations at Tobene , 225kv) <b>St.Louis, Tobene, Senegal, West Africa</b>	Civil & Structure	KPITL	National Electricity Company of Senegal	2020
4	132 kv Hydro Power Project Likhu-A,Likhu-1,Likhu-2 Transmission line tower at <b>Nepal-31Km</b>	Civil & Structural	Apollo	MV Dugar	2019
5	Structure Designing of 17 Substation in JUSNL Package-1 & Package-2 at <b>Jharkhand</b>	Civil & Structural	Siemens	Jharkhand Urja Sancharan Nigam Ltd	2018
6	220KV AIS Bay Extension & 132KV GIS Substation 60MVA 220/132KV Power Transformer at <b>West Bengal</b>	Civil & Structure	India Power Corporation Limited.	Gupta Power Infrastructure Limited, Bhubaneswar, Odisha	2017
7	(i) 400/ 220KV Samba S/S (ii) 400/ 220KV Jalandhar S/S And (iii) 400/ 220KV Panchkula S/S	Civil & Structure	Toshiba Transmission & Distribution Systems (India) Pvt.Ltd	Power Grid Corporation of India Limited	2015
8	Construction of (2x160 + 2x50 )Mva, 220 / 132 / 33KV Grid Sub-Station Sonenagar (New) with SAS & 02 Nos. 132kv Bays extension at Remote End at <b>Sonenagar, Bihar</b>	Civil & Structure	Techno Electric & Engineering Co. Ltd.	Bihar State Power Transmission Co. Ltd.	2014
9	132/33kv Mbarara North 2, Fort Portal, Nkenda, Opuyo, Tororo & Liya Substation Extension at <b>Uganda</b>	Civil & Structure	HIFAB OY WITH SUNSHINE Projects Ltd.	Uganda Electricity Transmission Company Limited	2013
10	Up Boot Package - 1 765/400kv AIS At Mainpuri & Associated Scheme / Works At <b>Gonda, Mainpuri, Uttar Pradesh</b>	Civil & Structure	C&C Constructions Ltd., Isolax Corsan India	ABB Ltd	2013

\* For detailed Project list, Kindly Contact Us

## MAJOR CLIENTS



# Power System Studies

Data Collection | Detailed Studies | Mitigations

## INDUSTRIAL POWER SYSTEM STUDIES

- Load Flow Solutions
- Short Circuit Analysis
- Transient Stability Analysis
- Protection Co-ordination
- Unit Protection Settings
- Motor Acceleration Study
- Harmonic Study
- Arc Flash Study
- Fast Bus transfer Study
- Transformer energization Study
- Power Quality Analysis

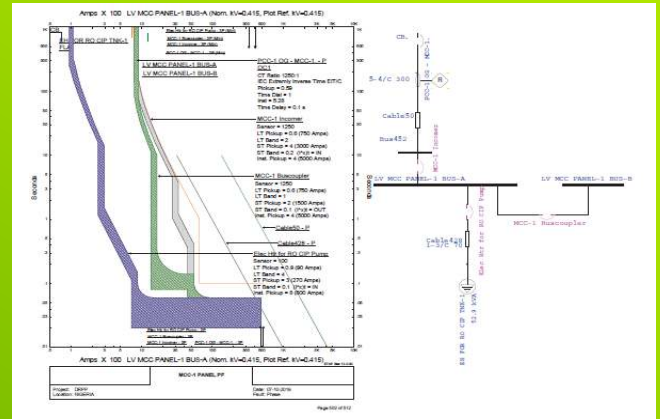
## UTILITY POWER SYSTEM STUDIES

- Insulation Co-ordination Study
- Protection Coordination and Unit Protection
- EMI Study
- Noise Study

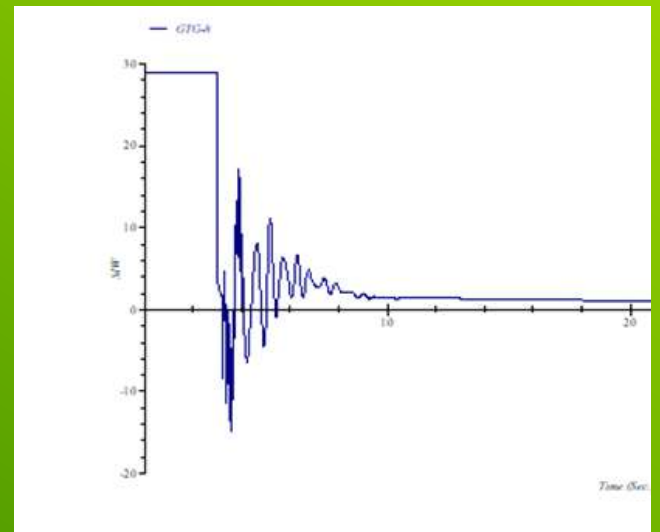
## OUR POWER SYSTEM EXPERIENCE

- Relay coordination Study - 400+
- Load flow and Short Circuit Analysis - 100+
- Motor Starting Study - 25+
- Harmonic Analysis - 7+
- Insulation Coordination Study - 10+
- Transient Stability Analysis - 5+
- Load shedding - 1
- Arc flash study - 10+

## SOFTWARES USED



Relay Co-ordination Study



Transient study

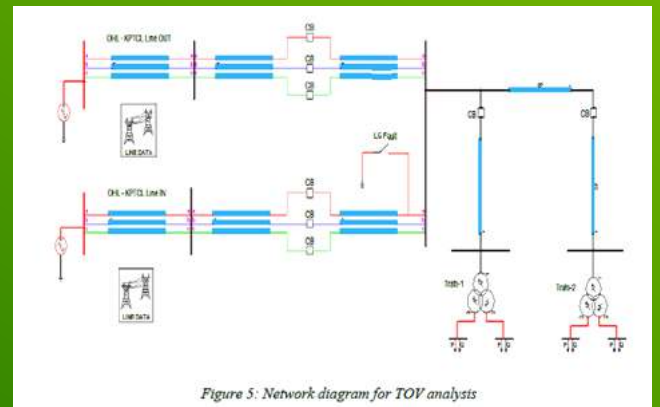


Figure 5: Network diagram for TOV analysis

TOV Analysis

**⚠ DANGER**

**Arc Flash and Shock Hazard**

Flash Protection Boundary	1.5 ft
Incident Energy	1.2 cal/cm <sup>2</sup>
Working Distance	18 in
Required PPE Level	0
Shock Hazard Voltage	480 VAC
Limited Approach	10.0 ft
Restricted Approach	1 ft
Prohibited Approach	0.1 ft

Equipment BP1

Arc Flash study

# OUR MAJOR PROJECTS\*

S.No	Project	Scope	Customer	End Client	Year
<b>Commercial Building</b>					
I	King Abdullah Financial district (KAFD) Project, <b>Saudi Arabia</b>	Load flow, Short Circuit, Motor starting, Harmonics, Arc flash study	Shapoorji Pallonji	KAFD, Saudi Arabia	2021
<b>Mine</b>					
II	UG Mine Substation in HZL at <b>Rajasthan</b>	Short circuit & Relay co-ordination study and Arc Flash study	ABB India Ltd, Bengaluru	HZL	2020
<b>Steel Plant</b>					
III	1.2 MTPA Mini Mill in Moon Iron & steel co at sohar, <b>Oman</b>	Relay setting calculation	ABB India Ltd, Bengaluru	MMMIS	2020
<b>Cement Plant</b>					
IV	Power System Study at Mombasa Cements, <b>Kenya</b>	Load flow, Short circuit & Relay co-ordination study	ABB India Ltd, Bengaluru	Mombasa Cement	2019
<b>Water Treatment Plant</b>					
V	RODM &, ETP & RWTP Package at Dangote Refinery at <b>Africa</b>	Load Flow, Short circuit , Motor Starting & Relay setting calculation	Wabag	Dangote Refinery	2020
<b>Power Plant</b>					
VI	220MW on Natural GAS/212MW on HSD Combined Cycle Plant, <b>Bhola, Bangladesh</b>	Load Flow, Short circuit, Motor Starting & Relay setting calculation	Siemens	Shapoorji Pallonji	2019
<b>Solar Plant</b>					
VII	300MW Solar PV Power Project at <b>Rajasthan</b>	Relay Setting Calculation	Hitachi ABB	Renew Power	2021
<b>Gas separation Plant</b>					
VIII	Compressed Air & Cryogenic Nitrogen plant package for <b>HPCL Rajasthan</b>	Load flow, Short Circuit, Motor starting and Harmonics study	Linde	HPCL	2021
<b>Refinery and Petro Chemical Plant</b>					
IX	Load shedding Study analysis at Dangote Refinery and Petrochemical Plant at <b>Africa</b>	Load shedding study	ABB India Ltd, Bengaluru	Dangote Refinery	2019
<b>Data Centre</b>					
X	MAA20 Chennai DC3 project at <b>Ambattur, Chennai.</b>	Relay setting Calculation and Coordination	STT	STT	2021
<b>Substations</b>					
XI	Construction of 400 KV GIS substation at JSW Vijaynagar Plant, <b>Karnataka</b>	Insulation Coordination study	Hitachi ABB	JSW	2021

\* For detailed Project list, Kindly Contact Us

## MAJOR CLIENTS



# Industrial Plant Engineering & Renewables

Pre-Bid Engineering | Basic Engineering | Detailed Engineering



## ELECTRICAL

- Load List and SLD development
- Load Flow, Short circuit , Transient Stability Studies
- Switchgear & Equipment Layouts
- Transformer & Switchgear Sizing
- Cabling System Engineering
- Earthing & Lightning Protection
- Illumination Design
- Protection Co-ordination and Settings
- Procurement Support
- Equipment Inspection (FAT) Support

## INSTRUMENTATION

- P&ID Review -Instrument List
- Hook Up Diagram
- Cable Engineering
- Earthing Engineering
- Procurement Support
- Installation Support



## RENEWABLES – SOLAR & WIND

- Solar Shading Analysis
- Power Generation Calculations
- Array & String Layouts
- SLD (AC& DC) Development
- Plot Plan Development
- Structural Design and Detailing
- Power Output Substations
- Safety Plans
- Discom Documentation Work

## SOFTWARES USED



DIALux



MicroStation



SES CDEGS

EMTP

Gräbert

## OUR MAJOR PROJECTS

Sl No	Project	Scope	Customer	End Client	Year
<b>I Cement Plant</b>					
1	3000 TPD Ramco Cements,	Cable, Earthing, & Lighting, Engineering	FLSmidth	Ramco Cements	2021
2	5500 TPD Ramco Cements, <b>Kunool, Andhra Pradesh</b>	Cable, Earthing, & Lighting, Engineering	FLSmidth	Ramco Cements	2020
3	Xuan Thanh-3 in <b>Vietnem</b>	Cable Engineering	FLSmidth Pvt.Ltd	Xuan Thanh	2019
<b>II Water Treatment Plant</b>					
1	Duong River Surface Water Treatment Plant Project In <b>Hanoi City, Vietnem</b>	E & I Engineering	Va Tech Wabag Ltd	Duong River Surface Water Plant JSC, Hanoi City, Vietnam	2020
2	30MLD SWRO Desalination Plant at <b>Mangalore</b> refinery and Petrochemicals Limited.	E & I Engineering	Va Tech Wabag Ltd	Mangalore Refinery and petrochemicals Limited	2019
3	Design of Al Madina Al Shamaliya Sewage Treatment Plant and Long Sea Outfall Line Contract No. SP/04/2013	E & I Engineering	Va Tech Wabag Ltd	Ministry of housing, kingdom of Bahrain	2016
4	Raw Water Treatment Plant For Dangote Fertilizer Project	E & I Engineering	Va Tech Wabag Ltd	Dangote Fertilizer Limited, Nigeria.	2016
5	Grounding for water Treatment System	E & I Engineering	Evoqua Water Technologies India Pvt Ltd	Duke Energy	2022
<b>III Oil &amp; Gas Plant</b>					
1	Instrumentation and Control System Upgrade of SITRA Storage & Export Facility, <b>Bahrain</b>	E & I Engineering	Almoayyed Electrical and Instrumentation Systems	Bahrain National Gas Company B.S.C	2021
2	220 MW on natural (GAS) / 212 MW on (HSD) Net Combined Cycle Power Project at <b>Bhola, Bangladesh.</b>	Basic Design Engineering of EBOP	Global Infra FZCO	Nutan Bidyut (Bangladesh) Ltd.	2018
<b>IV Power Plant</b>					
1	2 x 7.5 MWe Cogeneration Power Plant	E & I Engineering	Euroasiatic Machinery (s) PTE Ltd,	PT. Surya Borneo Industry,	2017

## MAJOR CLIENTS



# Illumination & Building MEP Engineering

## OUR MAJOR PROJECTS

### POWER PLANTS

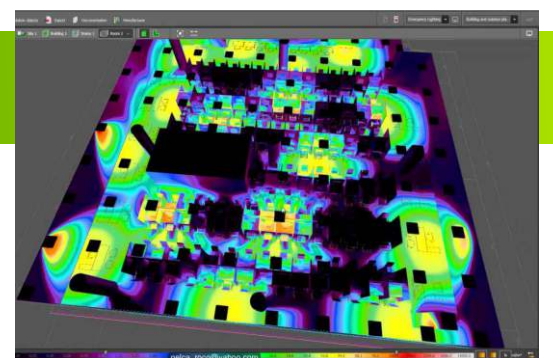
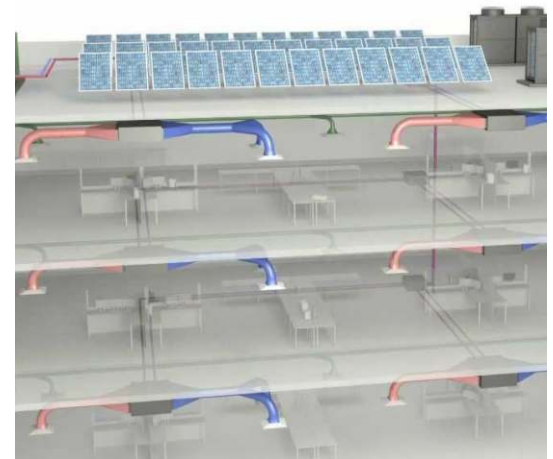
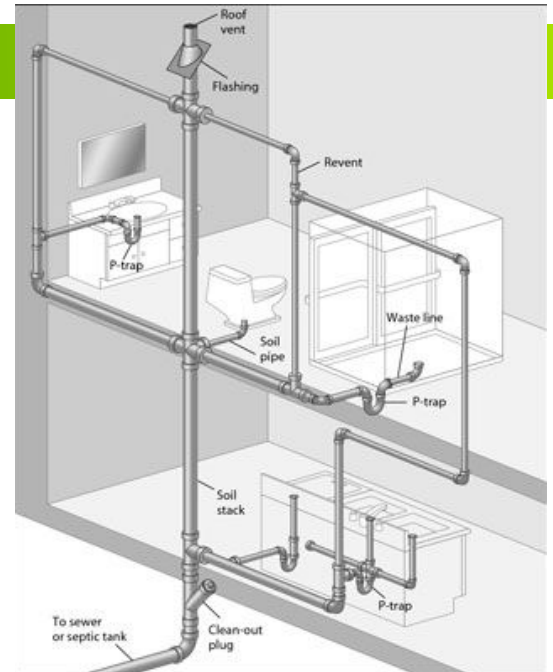
- Complete Illumination engineering of 2x600MW Buxar Super Critical Thermal Power plant of at Chausa at Bihar for Larsen & Toubro Limited.
- Illumination engineering of 2 X 685 MW Coal Based Thermal Power Plant at Raipur, Chhattisgarh, for Siemens Limited
- 50MW (AC) Solar PV Project of NLC limited at Ettankulam Village, Mannur Taluk, Tirunelveli District for GE India Ltd.

### WATER TREATMENT PLANTS

- 30MLD SWRO Desalination plant for MRPL at Thannirbhavi beach, Mangaluru Karnataka for VATEch Wabag Limited, India
- Illumination Engineering of Raw Water Treatment Plant, ETP RODM of Dangote Refinery and Petrochemical Project (DRPP), for VATEch Wabag Limited, India.

### CEMENT PLANTS

- Illumination Package of 1800 TPD Clinker & 2000 TPD Cement Plant Expansion project, line-2, Chandraudaipur, Siraha, Nepal of Maruthi Cements for FLSmidth, India.
- Illumination engineering of 5000 TPD Line-II Mombasa Clinkerization plant of Mombasa Cements, Kenya for ABB india Ltd.



## INDUSTRIAL ILLUMINATION ENGINEERING

- Lux Design Calculation
- Light Fixture Selection
- Lighting Power Distribution

## BUILDING MEP DESIGN

- HVAC design and Detailing
- Electrical power distribution
- Plumbing design and Detailing

## SOFTWARES USED



# Major PO

**SIEMENS**

**Purchase order**

Voltech Engineers Pvt. Ltd.  
No. 2/429, Mount Poonamallee Rd.  
Ayyappanhangal  
600056 Chennai  
India  
STATE CODE: 33  
State Name: Tamil Nadu  
GSTN: 33AACCV0108M1ZK  
PAN: AACCV0108M

Attn: M UMAPATHI  
PHONE: +91 44-4362576

This Purchase Order ("PO") is subject to the agreed terms and conditions. All goods or services shall be delivered in accordance with regulations, wherever applicable, every invoice shall state related ECEN or AL number for the goods(s) or product(s) supplied.

Please deliver to  
Siemens Ltd.  
2nd Floor, 3002, Ram Kumars Arcade  
Chattribari, Kamrup Metropolitan  
Guwahati - 781001  
India, POS: 18

Incoterms  
Mode of Dispatch  
Recipient  
Part del  
Delivery  
Payment

Our Vendor No. with us: 50066554  
Your reference: Directors Interest

Order No: 4510639117  
Date: 09.06.2021

References: Our Org-ID: A1202696  
GBK: Contact: Arun Sharma, IN-RC-IN SE GPT SO SCM-MAL  
Phone +91 (124) 6246665  
E-mail arunsharma@siemens.com

Invoice Address  
Siemens Ltd.  
Siemens Ltd - Assam Off  
2nd Floor, 3002, Ram Kumars Arcade  
Guwahati - 781001  
Bill To GSTN: 18AAAC50764L125 Place of Supply: 18

Note: Domestic suppliers must directly send duly signed E-invoices to generic email address: [apindia@invoicesscanning.in@siemens.com](mailto:apindia@invoicesscanning.in@siemens.com)

Remarks: Project: AEGCL, Package-B Project.

Item	Description of Goods / Service	Quant
00010	Purchase Order for Civil Engineering Design for AEGCL, Package-B Project. This has reference to the following correspondences & various discussions we had with you for the Civil & Structural Design: Ø Your offer via E-mail dated 22-04-21 & 27-05-2021. Ø Sub Civil Engrn For 220/33KV Nagaan SS Ø E, Integrated G&T 18.00 %	

Kind Attn.: Angelson Rajeshkumar, Sr.Vice President & Head, Engineering Consultancy Services.  
Subject: Electrical Engineering Design Services for Seven (7) substations under SS029 Project, Tunisia.  
Ref: M/s Voltech's Offer: DT-21213-R6  
Dear Sir,  
We refer to above and we KALPATARU POWER TRANSMISSION LTD.(herein referred to as "KPTL") are pleased to place Service Order on M/s VOLTECH ENGINEERS PVT. LTD (herein referred to as "VOLTECH").

**ABB**

**Purchase Order Service**

Vendor No. 1100004279  
Vendor Ref. Page 1 of 14

PO Number 3791174452  
PO Date 2020.10.27  
Currency INR

Bill To (Invoice To): ABB Power Products and Systems India Ltd.  
204-205, 2nd Floor, Kalash Tower, Lal Kothi, Tonak Road, Near Gandhi Maid, Jaipur 302015  
GST NO.: 08AARCA9513E1Z3H

Ship To (Deliver To): HPCIL Rajasthan Refinery Limited (HRRL)  
Bamer 344032  
Rajasthan  
India

Vendor: VOLTECH ENGINEERS PRIVATE LIMITED  
Ayyappanhangal,  
No. 2/429, Mount Poonamallee Road,  
CHENNAI  
TAMIL NADU - 600056  
India

Buyers Name: IN-Anant Torne  
Telephone: 080-22946329  
Fax:  
Email: anantkumar.torne@in.abb.com  
Plant code for reference: IN1T

Kind Attention:  
Telephone: 9845519259  
Fax: 044-42867746  
Email: ramesh.an@voltechgroup.com

Terms of Delivery: EXW/Ex-works basis  
Terms of Payment: EOM 45

Item	Material Code/Description	Quantity	Order Unit	Unit Rate	Discount	Net Value
00001	998335-Design Consultancy					

Material PO text

for HRRL Project

dates:  
Deliv. Date  
Day 31.12.2021

18%

ature is required. This Purchase Order has been electronically

**TS AND SYSTEMS INDIA LIMITED**

limited  
Phone : + 91 80 22041800  
Fax :  
Website : www.abb.com/in  
CIN:U31904KA2019PLC121597

**KALPA-TARU**

M/s. VOLTECH ENGINEERS PVT LTD  
VOLTECH ENGINEERS PVT LTD  
2/429 MOUNT POONAMALLEE ROAD  
2/429 MOUNT POONAMALLEE ROAD  
AYYAPPANTHANGAL  
CHENNAI -600056  
CHENNAI

KALPATARU POWER TRANSMISSION LIMITED  
PLOTNO -101, Part-III  
GIDC ENGG ESTATE,  
SECTOR-26,  
GANDHINAGAR 382028  
Telephone No :

Order Number : 2500093784 Date : 11.05.2021  
Fax No :  
Quotation Ref. No. & Date :  
Email :  
Project Reference :  
GST : 33AACCV0108M1ZK  
GST NO. 24AAACK83B7R1ZP

**SERVICE ORDER / WORKORDER**

Kind Attn.: Angelson Rajeshkumar, Sr.Vice President & Head, Engineering Consultancy Services.  
Subject: Electrical Engineering Design Services for Seven (7) substations under SS029 Project, Tunisia.  
Ref: M/s Voltech's Offer: DT-21213-R6  
Dear Sir,  
We refer to above and we KALPATARU POWER TRANSMISSION LTD.(herein referred to as "KPTL") are pleased to place Service Order on M/s VOLTECH ENGINEERS PVT. LTD (herein referred to as "VOLTECH").

**ORK ORDER**

DATE: 29.11.2021

procurement  
General Electrical Head Gurubabu  
Padmanabhan

**SUPPLIER**  
**VOLTECH ENGINEERS P LTD**  
Voltech Eco Tower, No. 2/429  
Mount Poonamallee Road,  
Ayyappanhangal  
Chennai 600 056

Contact: Mr S. Angelson Rajesh Kumar  
Tel: +91 - 9444399037  
Email: angelson@voltechgroup.com  
com

**JAKSON**

**SERVICE-ORDER**

**JAKSON LIMITED**  
A 626, 6TH FLOOR, DLF TOWER-A, JASOLA New  
Phone:011-65457615 Fax:011-25753427 Email:contact@jakson.com  
CIN : U74999DL1997FLC088806; PAN: AAACJ5347C, GS  
Head Office: A-43, Phase II Extension, Opp. NSEZ, NOIDA-2013

To:  
Vendor Code 10003544  
Voltech Engineers P Ltd (Cont.)  
2/429,Mount Poonamallee Road Chennai India-600056  
GSTIN:33AACCV0108M1ZK Phone:-903061600  
Email:geopaper@voltechgroup.com  
Kind Attn :  
PAN : AACCV0108M  
FSC : BARBOMADOOVE Account No: 21690500000047

Order No  
Date  
Quotation  
Segment

Bill To:  
JAKSON LIMITED  
A 626, 6TH FLOOR, DLF TOWER-A, JASOLA New Delhi-110076,  
Delhi, Phone 011-65457615, Fax:011-25753427, GSTN  
No-07AAACJ5347C1ZV

Ship To:  
JAKSON  
A 626, 6TH  
Delhi, Ph

Sr No	Code	Description	Qty.	UOM	Rate	Value
10		<b>ELECTRICAL DESIGN &amp; ENGINEERING</b>				
		225/33KV Skhira SS SAC Code :				
		225/33KV Zafraha SS SAC Code :				
		225/33KV Bir Chaabene SS SAC Code :				
		225/90KV Sanhaja SS SAC Code :				
		150/33KV Noyal SS SAC Code :				
		150/ 33KV Akouza SS SAC Code :				
		90/ 33KV Gasfour SS SAC Code :				
		Activity Sub Total				
		Total of Price				
		Total Taxes				
		Grand Total				

1. Scope of Works:  
Electrical Engineering Design Services as per agreed MDL and agreed schedule.

2. Payment terms:  
1. Final Submission & KPTL acceptance/approval - 70%  
2. End Customer/Consultant Approval - 20%  
3. Final As-built Submission - 10%

3. Prices:  
Prices will remain FIRM till the execution of Order.

**ORK ORDER**

DATE: 29.11.2021

procurement  
General Electrical Head Gurubabu  
Padmanabhan

**SUPPLIER**  
**VOLTECH ENGINEERS P LTD**  
Voltech Eco Tower, No. 2/429  
Mount Poonamallee Road,  
Ayyappanhangal  
Chennai 600 056

Contact: Mr S. Angelson Rajesh Kumar  
Tel: +91 - 9444399037  
Email: angelson@voltechgroup.com  
com

Sr. Please supply the following item subject to terms and conditions mentioned below. Also mention above Purchase Order No. in your Challan Bill / Invoice Document and submit document in duplicate for each supply giving full details.

S No	Description	SAC Code	Tracking	Quantity	UOM	Rate (Rs)	Delivery on Before	Amount Rupees
1.	Design and Engineering Services Network-0000400566/Nepal 132 KV SS work Loharpati WBS : C.09-NEPSS1-1	N/A						
1.1	Specialty design services -Interior etc	998391						
1.2	Specialty design services -Interior etc	998391						
1.3	Specialty design services -Interior etc	998391						
1.4	Specialty design services -Interior etc	998391						
<b>Total taxable amount</b>								
<b>IGST</b>								
<b>Total Amount</b>								
<b>Grand Total</b>								

Header Text :  
Prepared By : Gyanendra Kumar / 30.03.2021  
Approved By : Rohit Sharma / 30.03.2021  
Received & Accepted By :  
Registered office:- A-626, 6th FLOOR, DLF TOWER-A, JASOLA New Delhi-110025 Phone:011-65457617

Madam or Sir,

Kindly Register this WO for "Offloading of FEED Services for 220 kV Switchyard for ongoing Projects".  
 This WO - Amendment No. Covers Services of

Currency	Work Order Amount	Amount of this Amendment	Total Work Order Amount
INR			

Amount in words: Price  Not subject to escalation  Subject to escalation

DELIVERY TIME: Six months

This W.O. shall be governed by the attached documents, which form part of this W.O. and which cancel and supersede any condition mentioned in your quotation.

ANNEXURE - A  
 Enquiry Proposal VEPL/ICE/ DT-22231-R2/21 dated 15th Nov 2021  
 General Terms and Conditions Ref: TPIND-GTC-IP\_Rev.0

**FOR TECHNP INDIA LIMITED**

Ananth Joseph  
2021.11.29 13:35:11  
Approved By: 10530'

Ramanakumar Bodempudi V  
2021.11.29 14:30:53 +05'30'

**ANANTH JOSEPH** **B V RAMANAKUMAR**  
DIRECTOR - CHENNAI OPERATING CENTER

**HEAD PROCUREMENT - CHENNAI**

THE ORIGINAL TEND COPY OF THIS ORDER MUST BE BASED ON THE FRONT PAGE AND PASTED ON ALL OTHER PAGES BY A VENDOR DULY AUTHORIZED REPRESENTATIVE FOR ACCEPTANCE AND MUST BE RETURNED FAILING WHICH THE ORDER MAY BE CANCELLED.

ACCEPTED BY VENDOR, DATE SIGNATURE AND STAMP

VENDOR REFERENCE

# Performance Certificates

**SIEMENS energy**

Siemens Limited, RC-IN SE GP T SO OPS PE ER, 43, Shanti Park, Raasthahar, Bypass Connector, Kolkata 700042, India

To,  
Mr. Sankar T. DGM - Engineering Consultancy Service,  
VOLTECH ENGINEERS PVT. LTD.  
INDIA

Name: Chiranjib Sarkar  
Department: RC-IN SE GP T SO OPS PE ER

Telephone: +91 (33) 30939456  
Mobile: +91 9086102314  
Email: chiranjib.sarkar@siemens.com

Your letter of Our reference Date: 4508674177, dated on: 31st Oct 2018, January 18, 2021

**Work Completion Certificate.**

**PO Details :- 4508674177, dated on: 31<sup>st</sup> Oct 2018.**

**Name of Work:-** Site Survey, Design, Engineering, for removal of deficiency and up-gradation of protection system for JUSNL transmission system in Jharkhand state under PSDF scheme.

**Name of Contractor :-** VOLTECH ENGINEERS PVT. LTD.

As per PO General Terms & Conditions relating to the Survey, Design, Engineering for up-gradation of protection system for JUSNL transmission system in Jharkhand state under PSDF scheme of 17x 132/33 KV Grid Sub-Station, we hereby informed you that the Scope of Work were satisfactorily attained as specified below.

**Site Visit:**

- Visit to various sites of JUSNL under pkg-1 & 2 and checking the physical condition and dimension of the existing relay and control panel. Collection of data from field.
- Outdoor Testing support during live panel checking with required tools during site survey.

**Engineering for Panel Augmentation:**

- According to the actual data of various sites, drawings have to be prepared for relay retrofitting.
- Submission of drawings to the customer for approval, incorporation of customer comments, discussion and resubmits for final approval.
- Preparation of detailed BOQ, wiring schedule and cable schedule based on final approval of drawings.
- For new panel cable routing and schedule must be prepared and get it approved from customer.
- Cable Schedule with Manufacturing Drum Schedule.

Siemens Limited Management: Sunit Malhotra 43, Shanti Park, Raasthahar, Bypass Connector Kolkata 700042 India Tel: +91 (33) 2444 9000

Registered Office: 8/16A, Level 21, Plot No. 1000, Dr. Amle Bhasani Road, Worli, Mumbai - 400020. Corporate Identity Number: L29520MH1957PLC010602. Tel: +91 (22) 3987 7000. Fax: +91 22 2438 2434. Contact / Email: www.siemens.co.in/contact, Website: www.siemens.co.in

Sales Offices: Ahmedabad, Bangalore, Bhopal, Bhubaneswar, Chandigarh, Chennai, Coimbatore, Gurgaon, Hyderabad, Jaipur, Jamshedpur, Kharigar, Kolkata, Lucknow, Kochi, Mumbai, Nagpur, Navi Mumbai, New Delhi, Putucherry, Pune, Vadodra, Visakhapatnam, SCF 06/2020 V25.10

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**NCC**

**NCC Limited**  
**Project: Airport - Agartala**

06<sup>th</sup> Dec 2021

**TO WHOM SOEVER IT MAY CONCERN**

**Project :** Engineering Consultancy work for HT Relay Setting calculation & coordination for Proposed NITB Project at Agartala Airport, Tripura.

**Customer :** Airport Authority of India, Agartala, Tripura.

**PO No :** NCC/AAI-AGT/HIRE/WO/043/2021-22, Dt on: 11<sup>th</sup> Oct 2021.

This is to certify **M/s. Voltech Engineers Private Limited** have Completed the Proposed NITB Project at Agartala, Tripura for the following activities successfully.

- Relay Setting Calculation and Co-ordination

Their Performance in this project with respect to preparation of documents and drawing for submission/approval was as satisfactory.

  
Mohamed Sabeek. B  
Junior Engineer - Electrical  
NCC Limited  
Airport - Agartala Project.

**NCC Limited**  
(Formerly Nagarjuna Construction Co. Ltd)  
C/o Civil Engineers Enterprises Pvt. Ltd., New Hospital Project, Near Sabji Mandi Housing, Lower Sichey, ocheygaon Gangtok, Sikkim - 737101. Email ID: bldgs.ssgangtok@ncc Ltd.in

**FLSMIDTH** Service Provider Performance Assessment Form

Frequency: - Period: 2020-2021

S.No	Name of the Service Provider	Service(s) Provided	Projects supported	Quality of deliverable (A)	Timeliness of delivery (B)	Remarks
1	Voltech Engineers Pvt. Ltd., Chennai	Power System Studies - Relay Setting & Coordination	Barmer Lignite Mines Company Limited (BLMCL)	4	4	Experienced & Suitable for Specialized tasks. Experienced team who can handle complex jobs with minimum guidance. Quality of work is very good.

**Description of Rating**

5	Excellent	Above 90%
4	Very Good	81 - 90 %
3	Good	71 - 80 %
2	Below Average	70 - 40 %
1	Poor	Less than 60 %

- Minimum acceptable rating: 3  
- If the score is below 3, Improvement actions to be initiated

Note: First Time through (FTT) can be considered for deliverable Quality


FLS/GE-01 | Version 01 | 01-July-18

Prepared by: SSB/IN  
Date: 10-AUG-21



# Customer Satisfaction Report

**Voltech Engineers Pvt Ltd**  
**ICE-Design & Engineering Division**  
**CUSTOMER SATISFACTION SURVEY**



Dear Customer,

Please rate our performance on the following parameters with respect to the project  
**Project Name:** Grounding for water Treatment System

4 - Excellent
3 - Good
2 - Fair
1 - Poor

**1. DELIVERY PERFORMANCE**  
 How do you rate us Delivery Performance :

FACTORS	RATING
On Time Delivery (OTD)	4

**2. QUALITY**  
 How do you rate our Drawing & Document Quality ?

FACTORS	RATING
Conformity to Requirements & Presentation of Technical Information	4

**3. RESPONSIVENESS**  
 Promptness in responding to your queries / requests regarding

FACTORS	RATING
Enquiry stage Queries/ Requests	4
Technical Clarifications on the project	4

**4. SUGGESTIONS**  
 Please also provide your suggestions for improvements

NIL  
 (The team is really very strong and we see no area wherein we can give an input.)


Signature of Customer's representative : SIGNED

Name : Pradesh Janardhanan

Designation : Assistant Manager - Electricals

Name of the Company : Evoqua Water Technologies India Private Limited

**Voltech Engineers Pvt Ltd**  
**ICE-Design & Engineering Division**  
**CUSTOMER SATISFACTION SURVEY**



Dear Customer,

Please rate our performance on the following parameters with respect to the project  
**Project Name:** EXTENSION OF 400KV PADGHE GIS SUBSTATION

4 - Excellent
3 - Good
2 - Fair
1 - Poor

**1. DELIVERY PERFORMANCE**  
 How do you rate us Delivery Performance :

FACTORS	RATING
On Time Delivery (OTD)	4

**2. QUALITY**  
 How do you rate our Drawing & Document Quality ?

FACTORS	RATING
Conformity to Requirements	4

**3. RESPONSIVENESS**  
 Promptness in responding to your queries / requests regarding

FACTORS	RATING
Enquiry stage queries/ requests	3
Technical clarifications on the project	4

**4. SUGGESTIONS**  
 Please also provide your suggestions for improvements

Internal checks has to be done before submitting the drawings

Signature of Customer's representative :

Name : Blessing Easter Raj

Designation : Assistant Manager-Project Engineer-Civil

Name of the Company : Hyosung T&D India Private Limited

# ISO Certification



# Leadership Team

## S. Angelson Rajeshkumar

Vice President & Business Head of Engineering

✉ [angelson@voltechgroup.com](mailto:angelson@voltechgroup.com) ☎ +91 9444399037



Angelson Rajeshkumar, is an electrical engineer by profession with 25 years of design experience in designing substations, transmission lines and other industrial power systems. He worked in Larsen & Toubro limited, India for more than 20 years and in ABB, India, before joining Voltech as Design Business head. He has vast experience in designing substations up to 765kV in various Indian utilities and ASEAN utilities and Nuclear Power plants in India. He has presented Technical papers in various forums. His area of interest is Substation Engineering & Power system Studies.

## G Subramanian

Principal Consultant – Power System

✉ [subramanian.g@voltechgroup.com](mailto:subramanian.g@voltechgroup.com) ☎ +91 9444626174



Subramanian G is an Electrical Engineer by Profession having 36+ years of experience in design & engineering of various Thermal power plants, Solar PV plants, Desal plants, Industrial & Commercial Power systems, EHV Substations and Transmission lines. He is conversant with various electrical calculations, Specifications, Schemes, layouts, Electrical power system studies, Protection coordination studies. He has worked with NTPC, Crompton Greaves and Fichtner Consulting Engineers. He is with Voltech Group as a Principal Consultant, guiding Engineers and resolving various technical issues in design & engineering of Power systems.

## R. Muthukumar

Principal Consultant

Transmission lines and Civil & Structural Engineering

✉ [r.muthukumar@voltechgroup.com](mailto:r.muthukumar@voltechgroup.com) ☎ +91 7904291151



Muthukumar.R is a civil Engineer by profession having 37+ years of experience in design and engineering of civil & structural works for various power plants, Solar PV plants, Water Treatment plant, chemical & industrial plants, sub stations and infra structural works. He is conversant various codes, design calculations and engineering / construction practices. He has worked Fichtner Consulting Engineers, Technip- Abudhabi and Best & Crompton Engineering limited before joining Voltech as Principle Consultant, guiding Engineers and resolving various technical issues related to civil & structural works





## K. Sankar

Design head – Substation engineering

✉ [sankar.k@voltechgroup.com](mailto:sankar.k@voltechgroup.com) ☎ +91 94430 83861

Sankar K, is an electrical engineer by profession with 23 years of design experience in illumination design and engineering for substations, HVDC station, power plants and Industrial process plants. He worked in GEC Alstom India Ltd., Al-Waha Technologies India Pvt. Ltd and Saad Group of Companies for more than 10 years before joining Voltech as an engineering team lead. He has vast experience in substation engineering, illumination engineering providing best lighting support for projects and providing excellent consultancy to our customers.



## S. Babukumar

Design Head – Transmission Line and Civil & Structural Engineering

✉ [s.babukumar@voltechgroup.in](mailto:s.babukumar@voltechgroup.in) ☎ +91 79040 67184

Babukumar is a Civil engineer by profession with 10+ years experience in Transmission lines and substation Civil & Structural Engineering, industrial plants. He started his carrier with Voltech in 2014. Presently, he is heading the Transmission line , Civil & Structural Engineering business unit. He worked in simplex infrastructures limited & Powertech engineering pvt. Ltd, before joining Voltech. He has vast experience in Substation Design, Power Plant Design & Detailing. His Area of Interest is Transmission Lines & Industrial Building Design.



## D. Anbarasu

Design Head – Power System Studies

✉ [anbarasu.d@voltechgroup.com](mailto:anbarasu.d@voltechgroup.com) ☎ +91 95000 98378

Anbarasu is an electrical engineer by profession with 12 years of experience joined Voltech in the year 2009. He worked in Testing and commissioning, Control & Relay Panel engineering of substations within Voltech group before taking up Design assignment. Presently, he is heading power system studies business unit. He worked in Schneider Electric (KSA) for a brief period. He has vast experience in Control & Relay panel engineering, Protection systems and power system studies. His area of interest is Protection Engineering & Power system studies.

# Leadership Team



## M Padmanabhan

Design Head – Industrial Plant Engineering & Renewables

✉ [padmanabhan.m@voltechgroup.com](mailto:padmanabhan.m@voltechgroup.com) ☎ +91 9600093771

Padmanabhan is an electrical engineer by profession with more than 8 years of design experience having sound knowledge in designing Electrical balance of plant (EBOP) Namely power plants, Oil & Gas Plant, Water treatment plants, Cement and Mining Plants Material handling plants.. Prior to joining Voltech, he had worked in Vijay Electricals Ltd and ABB as a Site Engineer for EHV Air Insulated substation (132/220/400kV Substation) for 4 years. He has immense EBOP design experience in 250 MLD water treatment plants and 12500 TPD Cement plants, 142 MW combined cycle Power plants in Bangladesh, and so on. His area of interest is Cable Engineering, Earthing, and Lightning protection Engineering.



## G. Sathya

Head- Quality & Training

✉ [sathya.g@voltechgroup.com](mailto:sathya.g@voltechgroup.com) ☎ +91 9790917636

Sathya G is an electrical engineer by profession. She has about 10+ years of domain experience in Substation Design and Industrial Design. She is a certified quality auditor. She was instrumental in getting ISO 9001-2015 for the design unit. She is also the internal technical skill development program manager.



# Global Presence



## International Locations :

**ASEAN :** Cambodia | Indonesia | Laos | Myanmar | Malaysia | Singapore | Thailand | Vietnam

**SAARC :** Bangladesh | Nepal | Sri Lanka

**Middle East Countries :** Bahrain | Iraq | Jordan | Kuwait | Oman | Qatar | Saudi Arabia | U.A.E

**Africa :** Algeria | Egypt | Ivory Coast | Kenya | Mali | Nigeria | Senegal | Tunisia  
Tanzania | Uganda | Ghana

**Europe :** Germany | Spain | Turkey | United Kingdom

**CIS Countries :** Russia, Uzbekistan

**Americas :** USA, Brazil, Chile

**Australia | Japan | South Korea**

## India Locations:

**Bangalore | Bhubaneswar | Bilaspur | Chennai | Guwahati | Hyderabad  
Kochi | Kolkata | Mumbai | New Delhi | Raipur | Vadodara | Vijayawada**

# **Our Infrastructure**

---



**5000 Sq.Ft**  
DESIGN OFFICE FLOOR SPACE

**90+** ENGINEERS    **125+** WORKSTATIONS

**1000+** Books  
TECHNICAL LIBRARY

**ECS  
HIGH-  
LIGHTS**



Executive Cabin



Employees Workspace



Library



Board Room



Aadukalam (Recreation Room)



Cafeteria



Reception Area



Met Lab



Conference Hall



FOR DIGITAL COPY, SCAN HERE

**Corporate Office**

Voltech Eco Tower, No.2/429, Mount Poonamallee Road,  
Ayyapanthangal, Chennai - 600 056  
Ph : +91-44-43978000 | Fax : +91-44-42867746  
Email : engineering@voltechgroup.com