



ARAVINTH PRABAKARAN

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SUMMARY

Design, Procure, Testing & Commissioning Professional dedicated to developing and implementing the commissioning process within the building industry, Create, implement and Coordinate Commissioning plans, Conducting the test as per Site acceptance test procedures and integrated system test procedure as per methods statement, Conduct on-site quality inspections using documents create for site specific requirements work with owner, contractor, ensure the customer project requirements are met and the customer's expectations are exceeded.

SKILLS

Site management, Testing of Electrical equipment, Commissioning substation, Ms office, Protection relays, AutoCAD, Site maintenance, Designing Substation, Reviewing Technical specification & Vendor drawing, Coordinate the project's procurement, Quality, Erection, Consultants activities.

EDUCATION

Bachelor of Electrical and Electronics Engineering

Adhiparasakthi Engineering College (2012 – 2015) www.adhiparasakthi.in

6.79 CGPA out of 10

Diploma in Electrical and Electronics Engineering

Adhiparasakthi Polytechnic college (2009 -2012) www.aptcmmr.com

89.21 % Out of 100 %

EXPERIENCE

Electrical Testing and commissioning engineer.

TESTCOM ENGINEERS, CHENNAI, INDIA *Jun 2015 – Jun 2016*

Senior Commissioning Engineer

Voltech Engineers Private Limited, CHENNAI, INDIA *Jul 2016 – Jan 2020*

Lead Supporting Commissioning Engineer

Arab Gulf Voltech Engineers LLC, DUBAI, UAE *Feb 2020 – Aug 2020*

Lead Commissioning Engineer

Voltech Engineers Private Limited, CHENNAI, INDIA *Sep 2020 – May 2021*

Lead Testing and Commissioning Engineer

Voltech Product and Services Tanzania limited, DAR ES SALAAM, TANZANIA *Jun 2021-Dec 2021*

Lead Testing and Commissioning Engineer

Voltech Engineers Private Limited, CHITTAGOAN, BANGLADESH *–Mar 2022- Apr 2022*

KIT HANDLED

CT Analyzer, CPC 100 Universal test Kit, Meggar Tan-delta Kit, scope CRM, Scope Transformer winding resistance measurement, SF6 Multi analyser, Scope timer kit, Motwane winding resistance kit, CMC 356 universal relay testing.

SOFTWARE & PROFESSIONAL SKILLS

- AUTOCAD
- ETAP
- DIALUX
- MS OFFICE
- SMART GRID

ROLES & RESPONSIBILITY

- **Sizing and Rating calculation** of Substations equipments like lighting/surge arrestor, Current & Voltage transformers, Isolators & Earth switch, Circuit breakers, Bus bar, Earthing, DSLP.
- Review & Preparation of technical specification, GTP, Method statement, vendor drawing.
- Coordinating and supporting the estimation engineer by reviewing all the technical specification of project and prepare clarification sheet if required and evaluating the BOQ during tender stage.
- Vendor drawings, technical data sheet & TTR review for substation equipments like power transformer, AUX transformer, Circuit breaker, Isolators, CT/PT.
- Providing direction and guidance to designer.
- Testing and Commissioning of protection & control schemes on various substation projects.
- Having technical sound knowledge in **Testing, commissioning, Operation & Maintenance of GIS, Switchgear, Switchyard, Traction substation.**
- Having experience in **SF6 gas analysis, CB analysers, CT analyser.**
- Having knowledge in QA, QC Quality management, Electrical as well as HSE general safety, total protective maintenance.
- Creating work plans, **managing implementation** of the **commissioning plan** and working with business function to maximize effectiveness.
- Identifying and proposing new engineering solution to meet business and customer needs, interaction with customers, providers for approval of SAT acceptance criteria, resolving open issues and performance tests.
- Assisting projects and contract manager in issuing claims.
- Conducting risk and opportunity management.
- Ability to build a team quickly and work with that team drive the project to completion in effective way.

LAYOUTS:

- Preparation of Substation layouts for up to 400 KV voltage level.
- Plan and section layouts.
- DSLP Layout.
- Structure layout.
- Earthing layout.
- Cable trench & section layout.
- Illumination layout.
- Erection key diagram plan & section drawings, BOQ.

DESIGN CALCULATION:

- Earthing calculation.
- Bus Bar sizing calculation
- Short circuit force calculation
- DSLP calculation.
- Battery & charger sizing calculation.
- Cable sizing calculation.

PROJECT ACCOMPLISHED

OVERSEAS PROJECTS

- **132/33 KV GIS GRID STATION, SEIF DEIRA, DUBAI-ABB** *(FEB- 2020 to May 2020)*
Lead Supporting and coordinate the entire Installation, Testing, commissioning activists, Preparation and follow up entire Documentation as per **DEWA norms**.
- **400/132 KV GIS DWC SUBSTATION, JANOUR, DUBAI-SIEMENS** *(JUN-2020 to AUG 2020)*
Lead Supporting and coordinate the entire Installation, Testing, commissioning activists, preparation and follow up entire Documentation as per **DEWA norms**.
- **DESIGN & BUILT 220/2X27.5 KV TRACTION PROJECT FOR THE STANDARD GAUGE RAILWAY (SGR) LINE FROM DAR ES SALAAM TO MOROGORO, TANZANIA-ABB.**
(JUN-2020 to DEC 2020)
Coordinate and supervise Installation, Testing, Commissioning activists of Switch yard equipment, Control panel, System earthing, Testing of Traction Transformers in **TPS**, Auto transformers in **ATS, DATS**.

DOMESTIC PROJECTS

- **132/11 KV SUBSTATION, TNEB, PERUNGALATHUR, TN, INDIA** *(JUN-2015 to JUN-2016)*
Supporting of Testing activities of **CT, VT, ISOLATORS, CIRCUIT BREAKERS, LA, 30 MVA POWER TRANSFORMER, 11KV SWITCHGEAR, ELECTROMAGNETIC RELAYS, SIEMENS SIPROTEC 7SJ62, 7SJ80**, Commissioning of Control and Relay panels, Carried out operational and Maintenance activities after commissioning.
- **400/220/33 KV WBSETCL SUBSTATION, GOKARNA, WB, INDIA** *(JUL-2016 to SEP-2016)*
Testing of **CT, CVT, PT, ISOLATORS, CIRCUIT BREAKERS, LA, 315 MVA AUTO TRANSFORMER, 160 MVAR SHUNT REACTOR, MASTER TRIP ELECTROMAGNETIC RELAY, 415V LVAC PANELS**, Commissioning of Control and Relay panels schematic.
- **FARAKKA NTPC THERMAL POWER PLANT 400 KV EXTENSION PROJECT, WB, INDIA** *(OCT-2016 to JAN-2017)*
Testing of **CVT, CT, ISOLATORS, CB, 80 MVAR SHUNT REACTOR**, Commissioning of Control and relay panels as per schematic, Stimulate the Remote signals with SCADA engineer.
- **220/132/33 KV WBSETCL GRID STATION AIS-ABB at SADAIPUR, WB, INDIA** *(FEB-2017 to JUN-2017)*
Testing of **CT, CVT, ISOLATOR, CB, 50 MVA POWER TRANSFORMER, 160 MVA AUTO TRANSFORMER, 33 KV ABB-UNIGEAR ZS1 SWITCH GEAR**, Commissioning Control and Relays panels as per schematic, Coordinate with SCADA Engineer Stimulate remote signals.
- **132/33/11 KV WBSEDCL RHP-ABB SUBSTATION STAGE-II RAMMAM-DARJEELING, WB, INDIA** *(JUL-2017 to JAN-2018)*
Testing of **50 MVA POWER TRANSFORMER, 33-KV GIS-ABB, 11 KV CGL-SWITCHGEAR**, Commissioning of Control panels as per schematic, Coordinate with RTU Engineer stimulate signals and operation of entire substation, Operational and maintenance activities after commissioning of substation.

- **400 KV GIS-ABB PGCIL-GRID STATION, SILCHAR, ASSAM, INDIA** *(FEB-2018 to APR-2018)*
Supporting with Entire GIS equipment testing with ABB Engineer, Commissioning of all LCC panels, Control & Relay panels as per schematic, Coordinate with SCADA Engineer to check Remote signals.
- **400 KV GIS-ABB PGCIL-GRID STATION, VELUGURI, NAGOAN, ASSAM, INDIA** *(MAY-2018 to AUG-2018)*
Supporting with Entire GIS equipment testing with ABB Engineer, Commissioning of all LCC panels, Control & Relay panels as per schematic, Coordinate with SCADA Engineer to check Remote signals.
- **132/2X27.5 KV EDFC PROJECT TRACTION SUBSTATION, UP, INDIA** *(SEP-2018 to JUL-2019)*
Control and coordinate activities of Testing of CT, PT, CB, ISOLATORS, LA, 6.3/3.15/3.15 MVA TRACTION TRANSFORMER of TSS, SSP, SP and Commissioning of Control and Relay panels as per schematic.
- **33/6.6 KV GIS- SCHNEIDER MRPL ONGC BS VI PROJECT, MANGALORE, KARNATAKA, INDIA** *(AUG-2019 to JAN-2020)*
Lead and coordinate activities of Testing of 33 & 6.6 KV GIS Panel consist of CT, VT, ISOLATOR, CB & SEPOM RELAYS, MICOM RELAYS.
- **232/11 KV SUBSTATION AKS STEEL PLANT , CHITTAGOAN, BANGLADESH** *(MAR-2022 to APR-2022)*

CERTIFICATION

- **AUTOCAD** at **MAC TECHNOLOGY, CHENNAI** *(JUL-2013)*
- **BEC COUNCIL OF EUROPE LEVEL A2** at **CAMBRIDGE ENGLISH, CHENNAI** *(OCT-2014)*
ENGLISH Speaking level certificate in ESOL International (ENTRY 2 Business)
- **BASICS of PLC CONTROL LOGIC** at **CONTROL LOGIX, CHENNAI** *(APR-2012)*
- **ELECTRICAL SUBSTATION TESTING AND COMMISSIONING** at **EEETC, CHENNAI** *(JUL-2015)*
- **NUMERICAL RELAY PROTECTION TRAINING** at **VEQUAL IR, CHENNAI** *(AUG-2020)*
- **ELECTRICAL SYSTEM DESIGN COURSE** at **IETP , PUNE**