**RESUME**

**Sivaperumal.M**

**Electrical Engineer (Testing & Commissioning)**

E\_mail**:** **msiva2004@gmail.com**

**Mob: +966 555267933, 550117089**

### PROFESSIONAL EXPERIENCE:

* **8 Years of** Experience in Testing & Commissioning of High Voltage Substations up to 132 kV GIS.
* **Presently working as a Testing and Commissioning Engineer in National Excellence for Construction and Energy at KSA from February 2022 to till date.**
* **Worked as Lead Engineer (Protection and Testing) in TPWODL (A Tata Power and Odisha Government Joint venture) from August 16 2021 to February 2022.**
* **Worked as Senior Testing and Commissioning Engineer in Synergy Power Co. Riyadh, KSA** from **June 2019 to Aug 2020.**
* **Worked as a** **Testing and Commissioning Engineer** in **National Excellence for Construction & Energy Co. KSA from April 2015 to January 2019.**
* **2 Years** of Experience in Electrical Construction.
* Previously worked as **Electrical Team Leader** in **M/S Kumyang Electric Co Ltd in Republic of Iraq from July 2013 to June 2014.**
* As Electrical **Site Engineer** in **M/S SS Engineering, India from Jan 2010 to Oct 2010**

**ACADEMIC PROFILE:**

* **Diploma in EEE 2002-2005, Completed with an Aggregate of 88% at Priyadharshini Polytechnic collage, DOTE, Chennai, Tamilnadu, India.**
* **Bachelor Degree in EEE 2005-2008 completed with an Aggregate of 73% at Veltech Engineering Collage, Anna University, Chennai.**

**EXPERIENCE SUMMARY:**

**Nature of work in Testing and Commissioning of HV Substations**

* Testing of **Power Transformer, Aux Transformer, Shunt Reactor, Grounding Transformer**, Metrosil, Calibration of Temperature Sensors, NGR, Bushing TAN DELTA, Mechanical Protective Device Operational Check, Cooling Fan Control Scheme
* **HiPOT Test** and **PD Measurement on power cables** (medium voltage cables), **High Voltage Test for MV Switchgear.**
* Testing of GIS – Main Bus Bar Contact Resistance, DS/ES Timing, Circuit Breaker Timing, Gas Analyzer (DEW Point), Gas Monitoring gauge Calibration, Earth Switch Leakage Current Measurement, Gas Leakage, LCC Panel Functional Check, LCC Interlock Checking, CT & VT, CT Primary Injection, Bus Bar Stability and Sensitivity.
* Testing Of MCB, MCCB, Aux Relay, Trip Relay, L/O Relays, DC & AC Supervision relay, Trip Coil Supervision Relay, Timer, CT and VT Secondary Injection, L.A TAN DELTA, Energy meter Calibration, Simple Relays.
* Pre-Commissioning and Commissioning Scheme Check for 13.8 & 33 kV Switch Gear, 110 kV & 132kV GIS, Line Protection Panel, Syn check Panel, RTCC, ACCS, ABTS, U/V, U/F, SAS, ACDB, DCDB, Energy Meter Panels, Transformer Protection Panel & Transformer Cooler Control Cabinet

**Projects Involved In KSA:**

* + King Faisal Hospital -110/13.8 kV GIS Sub-Station
	+ New Adham -110/33 kV GIS Sub-Station
	+ New Al-Lith City- 110/13.8 kV GIS Sub-Station
	+ Al Sulayil 132kV/13.8kV GIS Sub-Station
	+ Khobar Integration Facility (KIF), Alstom Factory (FAT TEST).
	+ AL Waha 380/110/13.8 kV GIS Sub-Station.
	+ Shoaibah Water & Electricity Company (**SWEC**) Power Plant **Shutdown Project** (Transformer Testing)
	+ Al Jawad 110/13.8 kV GIS Sub Station
	+ Al Shalal 110/13.8 kV GIS Sub Station
	+ Al Bijadiah 132/33 kV GIS Sub Station
	+ JAH-2, JEC, NAF & Frusyah 110/13.8 kV GIS Sub Station
	+ DHP-1, Abha Housing & Fal 132/13.8 KV GIS Sub Station

**110 kV GIS Hyundai, 132 kV GIS ABB, 33 kV SIEMENS & ABB, 13.8 kV ALFANAR & ABB, L&T and Schneider.**

**Nature of work in Testing and commissioning of MV Substations in Riyadh Metro Project:**

 **Project : Riyadh Metro Package (Line 4, 5 & 6)**

 **Client : ALSTOM Transport.**

 **End Client: Riyadh Advanced Metro Project Execution and Delivery (RAMPED)**

* Testing of Current Transformer, Voltage Transformer, Auxiliary Transformer, and Traction Transformer.
* Testing of medium voltage and low voltage cables.
* Contact resistance measurement for Busbar joints.
* Scheme check for Lighting Power Station, Traction Power Station and Passage Post.
* Testing of Converter panels, Traction protection board and Negative cubicle.
* Testing and commissioning of Sub Low Voltage Distribution Board.
* Testing and commissioning of Secured Auxiliary Battery Charger Cubicle.
* Visual Inspection on Equipment layout and Earthing Layout.
* Punch list and Report preparation.

**Lighting Power Station: 33kV Gas Insulated Switchgear-Schneider**

**Traction Power Station: 33kV Switchgear-L&T**

**Passage Post: 33kV Gas Insulated Switchgear-Siemens**

**Nature of work in TPWODL:**

 **TPWODL a Tata Power and Odisha Government joint venture dealing with 11KV/420V distribution.**

* Maintenance of 33/11KV switch gear/yard and 11KV Distribution Line (Like tree trimming, AB switch maintenance, DTR maintenance etc.)
* Pole replacement/changing, energy meter replacement, insulator replacement etc.

**Nature of work in Construction:**

Construction of 400/110,220 KV SS in Sunguvarchatram, Tamil nadu,

* Cable laying such as power cable and Control cable
* Erection and operation of HCB Isolator, CT, VT, Circuit Breaker, CVT etc.
* Preparation of various records such as safety documents and method of statements, daily log sheets, registers etc.
* Supervising all ongoing work for the substations.
* Trouble shooting etc.

LUK OIL WEST QUARNA-2 PROJECT (OIL PLANT CONSTRUCTION-IRAQ)

* Cable laying such as power cable (MV and LV), Control cable, telecommunication cable, Fire alarm cables,
* Loud speaker installation, CCTV camera installation.
* Installation of Substation Electrical accessories.,
* Street light pole erection,
* Glanding and Termination etc.

**PROTECTION RELAY HANDLED:**

* Alstom: MiCOM P142, P143, P543, P546, P841, P842
* MR TAPCON

**PROTECTION SOFTWARE HANDLED:**

* MICOM S1 AGILE
* ABB PCM600
* MR Suite
* SEL AcSELerator QuickSet.

**TESTING KIT HANDLED:**

* CT Analyzer, OMICRON CPC100, FREJA, SVERKER, MEGGER MOM, TAN DELTA 4010 &4310, TTR330, MTO330, ODEN, BROMAN & Megger CB Timing Test Kit, Earth Resistance Test Kit, Transformer Ohmmeter, Oil Tester DPA

**PERSONAL PROFILE:**

* Father’s Name : Mr. Manickam
* Date of Birth : 25.05.1987
* Passport No : R9819975
* Date of issue : 07-04-2018
* Date of Expiry : 06-04-2028
* Place of issue : Chennai ( India )
* Gender : Male
* Languages Known : English, Hindi and Tamil.
* Nationality : Indian
* Address : Karathalan vattam(vill), Kathari(po),

 Natrampalli (via),

 Tirupattur(Tk), Vellore Dist

 Tamil Nadu –635852

**PERSONAL TRAIT:**

I am a hard-working and creative person. I have good team spirit and can be great team player to achieve and set goal.

 I hereby declare that the details furnished above are true to the best of my knowledge.

 

 **SIVAPERUMAL.M**

**Place:**

**Date:**