

**THANNEERMALAI R.M. SUNDARAM**

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**ELECTRICAL & INSTRUMENTATION**  
**(Expert | Lead | Consultant)**

- ✓ 10 years' extensive experience in electrical and instrumentation engineering within the Oil & Gas, Power Transmission as well as Certification industries.
- ✓ Experienced in design review, EPIC, E&I commissioning as well as project consultancy.
- ✓ Well versed in API, ISA, IEC, ISO, ANSI, ASTM, ASME, NEC and NFPA standards.
- ✓ Strong acumen in diagnosing and assessing the health condition of HV Electrical Equipment of up to 33kV.
- ✓ Demonstrated excellent communication and time management skills coupled with solid multidiscipline versatility.

**Professional Strengths**

Certificate of Conformity  
Asset Integrity  
Design Review  
Electromagnetic Expert

Equipment Safety  
E&I Testing  
Explosion Proof Expert  
Installation & Commissioning

M&E Construction  
Non-conformity Report  
SIL Expert

**Key Contributions**

- ◆ Perform the EMC study AS per IEC 61000 for PETRONAS-RAPID
- ◆ Introduce Ex training in this region client for Bureau Veritas and its key client and Educate the awareness of EX standards

**Working Experience****EXCEL TECH (Brunei) Sdn Bhd**

♦ Jan 2017 – Present

**Electrical & Instrumentation Engineer (Lead Project QC)**

- ◆ Carry out various equipment functions testing covering.
- ◆ Key personnel for client to follow up FAT/SAT exercises.
- ◆ Coordinate, expediting project development while attend technical meetings while liaise with clients in coordinating the execution of projects.
- ◆ Conduct thorough review of design in accordance with client specifications while report any non-conformity.
- ◆ Develop Drawing as built for final documentation.
- ◆ Manage a crew for daily activity of installation and pre commissioning

*Projects Delivered*

**Projects:** Construction, Hook-up and Pre commissioning of BUNGA PAKMA-A (BP-A-REPSOL) Wellhead platform at KKB-OCEAN MIGHT (EPC) fabrication yard.

**BUREAU VERITAS (M) SDN BHD**

♦ Dec 2011 – Dec 2016

**Electrical & Instrumentation Engineer**

- ◆ Carry out various equipment certification functions covering explosion proof and design conformity.
- ◆ Generate quotation for tender bidding while follow up with clients and witness FAT/SAT exercises.
- ◆ Coordinate cross-functional partnership in expediting project development while attend technical meetings while liaise with clients in coordinating the execution of various projects.
- ◆ Conduct thorough review of design in accordance with client specifications while report any non-conformity to client on SIS design.

*Projects Delivered*

- ◆ **Project:** Design Verification of Layang & Helang Platform(Petronas ) – Electrical Instrumentation & Control System.  
**Key Deliverables:** Conducted design review of FEED in line with API & Petronas Technical standards.
- ◆ **Project:** Electromagnetic Compability study for RAPID Pengerang –Petronas  
**Key Deliverables:** EMC Report, Zone Allocation Report , Procurement specification report .
- ◆ **Project:** Design Verification of BLNG Brunei (TOTAL) – Instrumentation & Control System – Maharajalela.  
**Key Deliverables:** Inspection and design review lastly check implementation of design during construction stage .
- ◆ **Project:** Verification of Belum Murphy – Water Mist System for DEG Skid.  
**Key Deliverables:** Carried out design review in accordance to NFPA.
- ◆ **Project:** Design Verification of Sepat Barat(Petronas ) – Electrical Instrumentation & Control System.  
**Key Deliverables:** Delivered design review of FEED in line with API & Petronas Technical standards.
- ◆ **Project:** Asset Verification of Shell North Sabah Oil Field, PMU-DDA LCOT, Barton, St Joseph & South Furious.  
**Key Deliverables:** Verified maintenance philosophy against maintenance records while interviewed Shell personnel for well integrity covering electrical asset health and availability as well as essential power supply.
- ◆ **Project:** Design Certification of Subsea XMT and Wellhead – LIU 19/5 Fabricated By Aker Solutions.  
**Key Deliverables:** Initiated design review at the EPIC stage on subsea electrical and instrumentation in line with API/ISO standards.
- ◆ **Project:** Asset Verification on Electrical & Instrumentation Integrity – Siemens Gas turbine for Pengerang project  
**Key Deliverables:** Conducted in depth review in ensuring electrical installation is carried out as per design and delivering excellent asset condition, availability and efficiency as well as reliability within the API, PTS, and IEC standards.
- ◆ **Project:** Asset Verification of Shell's Sarawak Asset, PMU – IOAIA.  
**Key Deliverables:** Reviewed the technical integrity of the Crude Oil Terminal (BCOT) and control system of the offshore platform as well as maintenance philosophy for SCADA system.
- ◆ **Project:** Design Verification of Instrumentation for Cendor 2-Petronas (FPSO) Topside.  
**Key Deliverables:** Carried out design review for instrumentation and control systems, cable routing, fire and gas system as well as safety critical control system elements in line with IEC, SOLAS & API standards.
- ◆ **Project:** Electrical & instrumentation Design Verification for Some-Zwatika CPP Platform, .  
**Key Deliverables:** Conducted design verification against the respective Single Line Diagram, Electrical Part List and Typical Schematic Drawings (marking, cable marker, component type and cable connection, for the Low Voltage Panels.
- ◆ **Project:** Electrical & Instrumentation Design Certification for Thang Long & Dong Do Field Development, Vietnam.  
**Key Deliverables:** Conducted design review for FEED, DETAIL Design and EPIC stage while issued the COC.
- ◆ **Project:** Electrical & Instrumentation Design Verification for Diamond Development Project, Vietnam.  
**Key Deliverables:** Conducted design review for Detail design and EPIC stage.

◆ **Project:** Electrical & Instrumentation Design Verification for **HSD & HST** Unmanned Platform, Vietnam.

**Key Deliverables:** Performed design review for Detail Design and EPIC stage while generated Final Design review report as well as certificate (Independent Design Review Cert-IRC).

◆ **Project:** Witnessed the Uninterruptable Power Supply FAT at **Gutor Electronic for QGC Australia and Bechtel Oil & Gas.**

**Key Deliverables:** Carried out visual inspection against the respective Single Line Diagram, Electrical Part List and Typical Schematic Drawings (marking, cable marker, and component type and cable connection) for the Low Voltage Panels in line with IEC Standards and customer specification.

### ABB (M) SDN BHD

◆ Mar 2011 – Dec 2011

#### Maintenance Engineer

- ◆ Led the electrical crew in commission 11kV switchgears, vacuum and gas circuit breakers, as well as FAT inspections.
- ◆ Liaised with clients' engineers on design, operation, construction, hook-up and commissioning while ensure swift resolution of all issues.
- ◆ Carried out loop checks for various instruments encompassing DCS, fault finding and troubleshooting.
- ◆ Performed 'no-load' and 'load' test for motors prior to commissioning the entire system.
- ◆ Conducted routine test and FAT on LV 400V panels.

#### Projects Delivered

- ◆ 11kV Switchgear.
- ◆ Fused Vacuum Contactors of up to 12Kv.
- ◆ Vacuum Circuit Breakers Spring & Magnetic Actuator
- ◆ SF6 Gas Circuit Breakers
- ◆ LV Switchgear FAT Inspection

### OPTIMAL POWER SOLUTION SDN BHD

◆ Mar 2009 – Feb 2011

#### Electrical Engineer

- ◆ Managed a team and technical staffs in M&E construction encompassing a wide range of electrical equipment.
- ◆ Carried out pre-commissioning work of MCC/Switchboards feeding to 415V motors while worked closely with the electrical team in the commissioning of Inverters.
- ◆ Prepared check sheets for all E&I test performed covering loop checks, no-load & load test, energization of MCC Cubicles and validation on control system.
- ◆ Liaised with consulting company engineers, main contractor engineers and site manager.
- ◆ Led the installation of Low Voltage MCC Switchgears, UPS, DCS, SCADA
- ◆ Prepared the installation and pre-commissioning documentation for instrumentation, and UPS.

#### Projects Delivered

- ◆ Standby Diesel Engine Driven Generator Set – 200kVA/160kW for Sabah Electricity Board.
- ◆ Commissioning on MCC Panel for Solar Energy and Windturbine for TNB Terengganu.
- ◆ The Excessive Solar Energy Export to Grid Project for Gerik TNB.
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### Education & Professional Affiliation

**Degree in Mechatronics**, University of East London  
**Diploma in Mechatronics**, University Technology Malaysia

BEM-Board of Engineers Malaysia (JS1330)  
 IEM –The Institution of Engineers, Malaysia (55846)  
 Certified Functional Safety Engineer (CFSE)  
 IECex 001- Certified Auditor for IEC Explosion proof Based on IEC 60079  
 Lead Auditor ISO 9001-2015

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### **Training & Technologies**

**2014 – 2015:** IEC Explosion Proof – IEC 60079 | Engineering Management | Code of Ethics & Regulation  
| Safety & Health at Work

**2012 – 2013:** Veristar Project Management | Well's Integrity Training | BOSET, H2S | Instrumentation  
Engineering for Oil & Gas Facilities Workshop

MS Word | MS Excel | MS PowerPoint | MS Project | AutoCAD | Mechanical Desktop |  
Solidworks2008 | SAP (IBM-Lotus NOTES) | DIALUX

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### **Expected Salary**

- ◆ To be discussed during interview