

CURRICULUM VITAE



NIRENDHIRA KUMAR (B.E.,)
Electrical Engineering

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JOB OBJECTIVE

To be associated with a progressive organization that gives me the scope to apply my knowledge and skills and involve myself as a part of the team that dynamically works towards the growth of the organization.

CAREER SUMMARY

- Testing and Commissioning of
 - ❖ EHV & HV Protective Equipment's in Substation (GIS, AIS)-**400/220/110/66 kV**
 - ❖ MV, HV Switchgear panel (Indoor & Outdoor)-**66/33/13.8/11/6.6 kV**
 - ❖ PCC& MCC LT panel- **0.415kV.**
 - ❖ DB, LDB, ELDB, HVAC Panel.
- Routine testing of
 - ❖ **Power Transformer** up to **315 MVA.**
 - ❖ **Generator** up to **20 MW.**
 - ❖ **MV Motors** up to **21 MW.**
- Testing and Commissioning of all Control& Relay Panel's (Transformer, Generator, Motor, Feeder & Backup).
- Relay setting and calculation for Upstream and Downstream Panels.
- Special Testing of Protective Equipment & Power Transformer-**SFRA, TAN DELTA** Test.
- VLF and Hi-pot Testing of Cables, Bus bars, and Circuit Breakers.
- Testing of **PV Inverter** panel and **ID Transformer** at Solar Power Plant-**500 MW.**
- **Testing and Commissioning of APFC Panel.**
- Testing and Commissioning of Generator AMF Panel-**2000 KVA.**
- Commissioning of Medium Voltage Diesel, Hydro, Gas Turbine, Steam generator & Excitation Panel.
- Commissioning of **Multiple Battery Charger System (110 VDC & 220 VDC).**

ACADEMIC RECORDS

Bachelor – Electrical Engineering – Anna University, Chennai, India. Year of Passing – 2013

PROFESSIONAL EXPERIENCE - 08 YEARS.

- **ORGANIZATION: M/s ENERGIA MODEL TRADING CO. LLC, SAUDI ARABIA.**
Designation: Senior Testing & Commissioning Engineer.
Period: 21 Aug 2019 to Still now.
- **ORGANIZATION: M/s ENERGY SOLUTIONS, KUWAIT.**
Designation: Senior Testing & Commissioning Engineer.
Period: 14 July 2018 to 17 January 2019.
- **ORGANIZATION: M/s RELTEC ENGINEERS, BANGALORE.**
Designation: Senior Testing & Commissioning Engineer.
Period: 14 Aug 2013 to 26 June 2018.

ROLE & RESPONSIBILITIES

- Testing and commissioning of **Power Transformer, Generator Transformer & Auxiliary Transformer.**
- Online and offline **Transformer oil filtration** and **BDV** test.
- Simulation testing of Transformer **OTI, WTI, BUCHHOLZ RELAY & PRV.**
- Testing of **Protective Relays** for various needs. Experience with relays.
- Coordination of Protective Relays, Calibration of **Digital MFM** and **Analogue Energy Meters.**
- Testing of **PLCC, CT, PT, CVT, LA, ISOLATOR, CB's (SF6, VCB and ACB).**
- Redesign of Protections and Interlocks in Existing Protection Schemes.
- Commissioning of Control & Auxiliary AC/DC System.
- Making Testing & Commissioning Procedure, Scheduled & Protocols.
- Daily, Weekly & Monthly Test Report Submission.
- Leads with Prepare and Solve the Punch list, Trouble Shooting and Root Cause Analysis during Testing & commissioning.
- **Operation and Annual Maintenance** of Power Plant and Sub-station Equipment's.
- Follow the **LOTO and EHS Requirements** in the site to perform Installation, Replacement, Testing and Commissioning & Maintenance Activities.
- Trouble shooting of all Electrical circuits, Control and Protection circuits.
- Co-ordination & Technical Clarification with client in As Built Scheme drawing.
- Follow with International Electrical Standards- **IEC, IEEE, ANSI**

EXPERIENCE IN NUMERICAL & ELECTROMAGNETIC RELAYS

- ABB – RET 670, REL 670, REG 670, REM 610, REF 610, REF615, REF620, SPAJ 140, SPAJ 160C, SPAJ 115C, SPAM 150C.
- SEL-751A.
- SIEMENS – 7SJ64, 7SR12, 7SJ82, 7SJ85.
- ALSTOM-P64-X and P54-X Series (P642, P643, P645, P543, P545 and P546).
- ALSTOM - P12-X Series (P120, P121, P122, P123).
- ALSTOM-P14-X and P24-X Series (P141, P142, P143, P241, P242 and P243).
- SCHNEIDER- VAMP 230, VAMP 51, VAMP 50, SEPAM S40, S60, S80, M20 series.
- Electromagnetic relays (CDG11, CDG 31, CDG61 and CAG14).

EXPERIENCE IN PROTECTION SCHEME

- Different Types of Bus bar Schemes.
- Transformer Differential Stability & Sensitivity, REF Protection, SEF Protection.
- Generator, Bus bar & Motor Differential Stability & Sensitivity.
- Feeder & Backup protection and synchronizing scheme.
- Generator Synchronizing scheme (AMF) with grids.
- Scheme / Functional / Interlock verifications for Breakers, Earth switches.

EXPERIENCE IN OPERATION & MAINTENANCE

- Preventive Maintenance of Substations Equipment's up to 220/110/66 kV.
- Operation & Annual Maintenance of HV, MV Switchgear & LV MCC & PMCC panels.
- Preventive Maintenance of Power Transformers, Auxiliary Transformers.
- Change over the feeder with Existing feeder during Maintenance.
- Installation of new equipment's and Replacing for defective Equipment's.
- Annual Testing of all kind of Protective Relays.
- Annual Maintenance of
 - ❖ Protective Equipment, Isolator & Lightning Arrester.
 - ❖ Power Transformer.
 - ❖ MV Generator.
- Operation of Isolation & de-isolation of Live Parts of Substation.

PROJECTS HANDLED & COMPLETED IN GULF

1. Project: 44 MW Power Distribution Diesel Power Plant.

Client: SAUDI ARAMCO, Saudi Arabia.

Scope: Testing and Commissioning of 13.8 kV Switchgear, 6.3 MVA TFR, RMU, Protection relays.

2. Project: 40 MW Diesel Power Plant, Najran, Saudi Arabia.

Client: Saudi Electricity Company, Saudi Arabia.

Scope: Testing of 6.3 MVA Package Transformer and GIS Switchgear (33 kV), Testing of Protective Relays.

3. Project: 7 MW Power Distribution for Chillers, Al Kharj, Saudi Arabia.

Client: Almarai-Project Section, Saudi Arabia.

Scope: Testing & Commissioning of 8.0 MVA Transformer, Switchgears (33 kV), Protection Relays.

4. Project: 24 MW Diesel Power Plant, Farasan Island, Saudi Arabia.

Client: Saudi Electricity Company, Saudi Arabia.

Scope: Commissioning & Maintenance of 2.2 MW Diesel Generator, MV Switchgears & Protection Relays.

5. Project: 750 MW Sabiya-03 CCGT Power Plant, Kuwait

Client: Al Ghanim International Gen. Trading & Contracting Co. WLL, Kuwait.

Scope: Testing and Commissioning of 315 MVA GT, 30/60 MVA UAT Transformers, 11/6.6/0.415 kV Panels Including CT, PT, Circuit Breakers and Protection Relays.

PROJECTS HANDLED & COMPLETED IN INDIA

1. Project: 2*20 MW Co-generation Plant, Nanjangude, Karnataka.

Client: M/S.Bannai Amman Sugars Pvt Ltd.

Scope: Testing of 33 kV Switch Gears, Protection Relay and Control Panel & Calibration of Analogue, Digital MFM and Energy Meters.

2. Project: 10*50 MW Solar Power Plant, Kurnool, Andhra Pradesh

Client: M/S.Greenko Energy Pvt Ltd.

Scope: Testing and commissioning of 0.415 kV/11 kV Transformers, testing of Transformer Control Relay Panel, Overall testing of 11 kV switchgears and LV Panels.

3. Project: 04 *25 MW Steam Power Plant, Bhilai Steel Plant, Chhattisgarh

Client: M/S. Triveni Turbines Pvt Ltd.

Scope: Testing of 30 MVA TFR & 11kV switchgear including CT, PT and Protection relays (REF 620).

FAMILIAR WITH TESTING KIT:

- **Omicron-CPC 100** (Universal Primary Injection Test Set)
- **Omicron-CT Analyser**
- **Omicron-FRANEO 800** (SFRA Kit)
- **Omicron-CMC 256,356** (3Phase Secondary Injection Kit)
- **Megger -SMRT36** (3Phase Secondary Injection Kit)
- **Megger-DELTA 4000** (Tan Delta Kit)
- **Megger-MOM 200A** (Contact Resistance Meter)
- **Megger-EGIL** (Time Interval Meter)
- **Megger-HPG70-K**-Hi-pot test kit
- **Megger-OTS80PB**-BDV Tester
- **Megger, Metrel & Motwane** (Insulation resistance Tester)
- **PonovoPW400** (3Phase Secondary Injection Kit)
- **Isa T-1000 Plus** (Single Phase Secondary Injection Kit)
- **KryKard** (Energy Analyser)

EXPERIENCE WITH DESIGN SOFTWARE & SOFT SKILL:

- **AUTO-CADD**
- **MS OFFICE**
- **EXCEL**

PERSONAL DETAILS

Name	:	Nirendhira kumar
Date of birth	:	14 May 1991
Nationality	:	Indian
Passport No	:	P1378902
Passport Expiry	:	24 Nov 2026
Languages Known	:	Tamil, English, Hindi and Kannada

DECLARATION

I, hereby declare that the information and facts stated above are true and correct to the best of my knowledge.

Signature
NIRENDHIRA KUMAR