



MUTHUKUMARAN JAYAPAL

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ELECTRICAL ENGINEER – Project Execution / Testing & Commissioning

Highly Perceptive & motivated professional with **over 13 years of experience** in Project Scheduling, Planning, Implementation, Controlling and Delivery, coupled with expertise in testing & commissioning and all aspects of Contract Management, Scope Management, Risk Analysis, and Change Control; capability to coordinate schedule from multiple contractors and incorporate the inputs into the project master schedule.

Domains:

Electrical Construction=**115 kV U/G Cabling Work, MV Cables and substations.**
Switchgear & Electrical Manufacturing
Testing & Commissioning

PROFILE OVERVIEW

Accomplished Project Manager; lead multi-million projects, multi-disciplinary technical coordination and engineering interfaces during Design, Development and Project Execution

Capability to present risk based analysis of most likely completion and expected deviation range

People Engagement skills; coordinate between Functional & Operational teams; Participate in strategic level meetings (schedule review, progress, review meeting and more)

Deft at handling projects lifecycle from providing inputs on the strategy; manage risks & issues; define project charter & budget; technical specifications, supplier identifications, to project delivery

Proactive and highly capable manager with strong planning, monitoring, analytical & reporting skills

Works with cross-functional project teams to identify deviations and bring projects within scheduled and budget.

Efficiently Managed and completed several 132/115 kV U/G Cabling Projects for Saudi Electricity Company.

Managed MV Substation and cable Installation Projects for SEC and ARMACO

Electrical Engineer who possesses an understanding of global cost, schedule, project, and construction standards

Promotes best practices while enriching PM Methodologies for large projects

Technical Skills: SAP-ERP | MS Power Point | MS Excel

WORK EXPERIENCE

Project Manager- Electrical ► Power Engineering Co. LTD

Feb 2018 – Jun 2020

Responsibilities:

Managing 132/115 kV U/G cabling works for Saudi Electricity Company and MV Cable Works upto 66kV for ARAMCO, MV Substation installation works and all electrical Works
Client Liaising, Team Management, Schedule Planning and Management, Budget Control, Resource Planning, Safety Planning, Risk forecasting and taking corrective actions, Scope Validation, Monitoring and control, Supplier Management.

Deliverables

Project Management Excellence

- Provide technical inputs, coordinate project activities, prepare & review method statements and work specific quality control plans and ensuring materials received are in accordance with quality for 132/115 kV U/G cable works for Saudi Electricity Company.
- Prepare & control budget and individual project budgets across all projects as well as develop & maintain project execution manual, and integrate cost, schedule & document control element.
- Created and implemented all project management process driving improved Cost management, creating correct communication channel within departments, enhancing productivity, ensuring proper procurement and resource allocation and increasing customer satisfaction.
- Monitor cost & progress of 33kV to 115 kV U/G Cable, MV substation installation and commissioning projects.
- Develop cost control systems for accurate financial information reporting; deliver corrective actions for deviances.
- Present reports to clients and related assessing bodies.

**Project
Planning &
Execution
Brilliance**

- ▶ Coordinate with stakeholders & clients to achieve desired completion of the project in stipulated timeframe.
- ▶ Manage tenders, process implementation, and project management activities of 115 kV U/G cabling and MV electrical equipment installation, testing & commissioning.
- ▶ Handle procurements for all projects like onboarding suppliers, raising RFQ, and achieving timely delivery.
- ▶ Manage cash flow by raising timely invoice and allocating project budget as per the receivable forecast.
- ▶ Develop work breakdown structure in collaboration with procurement, engineering, and finance departments.

**Liaising &
Coordination
& Team
Management**

- ▶ Coordinate with cross-functional departments for complying provisions of contract documents.
- ▶ Manage and govern pre-contract viz. advising on the conditions of contract for tenders, risk assessment, attending negotiation meetings, finalizing contract documents with the clients.
- ▶ Conduct weekly project review with clients to resolve issues raised by the client as well as the consultant.
- ▶ Update senior management with detailed cost review, change order management, revenue forecasting, and budgeting for projects.
- ▶ Train teams, motivate workforce, and take measures to ensure that all elements are cooperating and coordinating efforts for maximum efficiency and quality throughout the project.

Project Manager / Orders Processing Specialist ▶ Schneider electric ETO Plants KSA

Sep 2012 – Jan 2018

Growth Path: Project manager (Sep 2012 – Apr 2017) → Order Processing Specialist (May 2017 – Jan 2018)

Deliverables:

- Handled resource planning & deployment for timely project executions of standard and customized MV equipment in compliance with cost, time over-runs, quality & EHS.
- Planned milestones from base design submittal, design approval from customer, initial to final CTP & BOM and FAT delivery of standard 13.8 kV RMU, 33 KV FLUSARC MRMU, and 13.8 KV MRMU as well as Transformers up to 3500 KVA 13.8 / 0.48 kV.
- Evaluated project constraints prior to implementing contracts and cost control to maximize the operational efficiency.
- Liaised with internal & external stakeholders for project updates, timely delivery, and customer satisfaction.
- Adhered to company's internal process as well as client agreements by collaborating with internal and external teams.
- Managed weekly project reviews to monitor deviances in schedule, scope, and cost; took corrective actions like claiming variations, change order, budget, and change request etc.
- Conducted schedule review meetings with clients & suppliers to raise critical issues and resolve issues timely
- Handled Revenue Forecast, Budget change Requests, invoicing, payment collections, and monthly receivables review.
- Coordinated with supplier to get the outsourced materials on time to achieve on-time delivery of final product to client
- Fostered a collaborative approach for coordinating installation, testing and commissioning, and project handover to after sales team with issuing warranty certificate.

Testing & Commissioning Engineer ▶ For Schneider electric KSA Through TACES INDIA PVT Ltd

Apr 2011 – July 2012

Highlight: Worked as Subcontractor Testing & Commissioning engineer for Schneider Electric.

Deliverables:

- Testing and Commissioning of MV Switchgears (13.8 kV MC7, 33 kV F400, 13.8kV SM6, 33 kV Flusarc), LV Panel Boards (ACDB/DCDB), RCP.
- Testing and Commissioning of Dry Type Distribution transformers (Up to 350kVA), CT, VT, ATS.
- Testing & commissioning of 13.8KV Package SUBSTATIONS, Protection Scheme checking, testing of Protective relays, Motorpact and Masterpact Panels.

Electrical Engineer ▶ MRR Embedded Systems Pvt. Ltd

May 2009 – Mar 2011

Highlight: Worked as Embedded cum Testing Engineer for Wind-Mill Panel Installation Works in Nagercoil, Tamilnadu.

Deliverables:

- Testing and Commissioning of LV Distribution Boards.
- Testing and Commissioning of Secondary Distribution transformers.
- Testing & commissioning of Embedded Controllers for SCADA communication Manufactured by MRR Embedded Systems.
- Maintenance of all the Electrical Equipment and Embedded Boards in Orient green Power.

Highlight: Worked as Testing & Commissioning engineer

Deliverables:

- Testing of HV/MV/LV Switchgears, CT, VT, Protection logic checking , Power transformers, Distribution transformers, Capacitor Banks, Electro-Mechanical Relays, Digital relays and commissioning of Substations.

Key Projects:

- Protection logic checking of 220/132KV substations in GUJARAT ELECTRICITY BOARD
- Testing & commissioning of 220kV/132kV/33KV Substation, Control & Protection Scheme checking, testing of protective relays, & functional checks for Indira Gandhi atomic research center at Kalpakkam through M SQUARE ENTERPRISES.
- Testing & commissioning of 11 KV switchgears (HT, LT Motors, and HT & LT panels, Distribution transformers) Control & Protection Scheme checking, testing of protective relays, Preparation of cable schedule & functional checks etc. for Aditya Birla Cements in Kotputli, Rajasthan through M/s. ABB Ltd.

EDUCATION

2010 M.Tech (Embedded System) ► SASTRA University

2006 Bachelors (Electrical and Electronics Engineering) ► Mailam Engineering College

Courses: Associate Project Management Professional | Basic Safety | PMP Training

REFERENCE

Power Engineering Co. Ltd	- Mr.Manaf Khan, Operations Manager Mob: 00966 55 382 5936 Email: manafmohseenkhan@gmail.com
Schneider Electric KSA	- Mr. Syed Diwan, Projects Department Manager Mob: 00966 56 038 3823 Email: syed.diwan@se.com
TACES (Schneider Electric)	- Mr.Lakshmana Perumal, T&C Manager (Ex-Schneider) Mob: 00966 58 339 7005 Email: gperumal143@gmail.com