

KARUNAKARAN RAJASEKARAN

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**In pursuit of technical enhancing job opportunities in the field of:
~ Oil & Gas/Petrochemical Project ~ Power Sector Project ~ Utilities & Buildings Infrastructure Project ~
Telecommunication/Data Center ~ Manufacturing industries.**

PROFESSIONAL SUMMARY

Possessing cumulatively **13+** years of work experience in the field of **Oil & Gas Industrial Projects, Power Transmission & Distribution Substations, Utilities & Buildings Infrastructure Projects and Telecommunication.**

PROJECT MANAGEMENT SKILL:

- ❖ **Scope of excellence entails:**
 - Overall Project Coordination
 - Detail Design Engineering
 - Procurement
 - Client Liaise
 - Project Supervision
 - T&C Coordination (SAT& FAT)
- ❖ Expertise in handling activities pertaining to Project Management i.e Planning, Installations, Testing & Commissioning Coordination of Substation Power Distribution Systems, Industrial Utilities Equipments, Systems up gradation / tie-ins in Oil & Gas field equipments.
- ❖ Comprehensive experience in planning, organizing and managing project electrical construction activities in close coordination with Engineers, Supervisors , Manufacturers , subcontractors & all inter disciplines.
- ❖ Strong relationship management, communication skills with the ability to network with Project Managers / Technical Managers / Consultants / Clients Finance with consummate ease.
- ❖ Attending Daily Progress, Weekly Progress, HSE & Project Kickoff meetings.
- ❖ Reporting to Project Manager, lead electrical & instrumentation discipline related project scope of works starting from engineering up to final handover stage of project.
- ❖ Designing calculations including transformer sizing, battery sizing, earthing calculation, cable sizing, cable tray sizing, lighting calculation, lightning calculation.

ENGINEERING SKILLS:

- ❖ Preparation of Cable Schedule, Plant load list Schedule & Site Survey reports.
- ❖ LV Cables Sizing Calculation, AC & DC UPS System / Batteries Sizing Calculation.
- ❖ Earthing & Building lightning protection Calculation, Indoor & Outdoor lighting Calculation.
- ❖ Preparation of Method statements and Job safety Analysis.
- ❖ Knowledge of IEC ,IEEE and relevant local engineering standards & specifications.
- ❖ Review of Engineering Submittals i.e Project Drawings, Vendor Drawings and Vendor Material Submittals.
- ❖ Coordination and follow up with Client for getting approval of project drawings & documents.

KEY SKILLS:

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|-----------------------|----------------------|----------------------|-----------------------|
| • Project Planning | • Design | • Estimate | • Power System |
| • Load Calculation | • Team lead | • Project Management | • Construction Safety |
| • Leadership | • Communication | • Risk Management | • Cost Management |
| • Feasibility studies | • Strategic Planning | | |

TECHNICAL SKILLS:

- Power flow diagram
- Schematic Diagram
- Lighting Design & Layout
- Calculation
- Developing Technical Specification
- Cable Tray System Design
- AutoCad 2020
- Microsoft Office
- Size of Equipment
- Earthing System Design
- Lighting Lux Level (Dialux)

PROFESSIONAL MEMBERSHIPS:

Institute of Electrical and Electronics Engineers [IEEE] (No-93027284)

Fellow of the American Academy of Project Management (FAAPM)

CERTIFICATION:

MDCP –Master Date Center Professional.

EXPERIENCE SUMMARY

<u>Tenure</u>	<u>Company</u>	<u>Designation</u>
Aug' 2017 – Feb' 2020	Telekom Brunei Berhad, Brunei Darussalam.	Project Manager (MEP/FM).
Nov' 2011 – July' 2017	Baharuddin P.M.S Associates Sdn Bhd, Brunei.	Electrical Design Engineer.
Aug' 2008 – Oct' 2011	Duners Sdn Bhd, Brunei Darussalam.	Electrical Engineer.
Jun' 2007 – Jun' 2008	MM Forgings, Singampunari, TN, India.	Maintenance Engineer.

DETAILED WORK EXPERIENCE

LIST OF PROJECT IN CONTRACTOR

- ❖ 11kv network system Kota Batu to sg.Besar. **Client:** DES (Department of Electrical Services, Brunei Darussalam)
- ❖ Waterfront Phase 1 in Bandar Seri Begawan, Brunei Darussalam. **Client:** JKR (Jabatan Kerja Raya)
- ❖ Relocation of kg. Ayer scheme at kg. lumapas 'A' – Infrastructure, Electrical minor work. **Client:** DES (Department of Electrical Services, Brunei Darussalam)
- ❖ Refurbishment and upgrading works for 4nos.Green house for the variety padi research at the Brunei Agriculture research center kilanas, Negara Brunei Darussalam. **Client:** Agriculture and Agrifood Department.
- ❖ Pembekalam dan pemasangan Elektrik bagi bangunan Baru pejabat perkhidmatan elektrik cawangan labi. **Client:** DES (Department of Electrical Services, Brunei Darussalam)
- ❖ Relocation of kg. Ayer scheme at kg. lumapass 'A' – Infrastructure- supply & install of grating & supply of Spare ports for sewage treatment plant. **Client:** PWD (Public Works Department)

KEY RESPONSIBILITIES:

- ❖ **Engineering, Installations, Testing & Commissioning Coordination, Operations of Utilities Equipments which includes.**
 - Responsible for the overall implement and completion of construction projects within scheduled time, cost and meet client quality requirement & contractual terms.
 - To study of Construction drawings details and coordinate with the consultants and sub-contractors to resolve any technical / site issues.
 - To monitor and coordinate the site activities involving the sub-contractors, supervisors and site workers.
 - To follow safety & health standards, quality standards and relevant governing codes.
 - Managing and preparing project and as built documentation as per customer project schedule.

LIST OF PROJECT IN CONSULTANT

- ❖ Modernization of Brunei International Airport Terminal, Bandar Seri Begawan. **Client:** BEDB (Brunei Economic Development Board)
- ❖ Hospital Baru Perempuandan Kanak-Kanak, Kg. Kiulap, Bandar Seri Begawan. **Client:** MOH (Ministry Of Health)
- ❖ Proposed to Build 1500 Houses Within 18 Months in Tutong. **Client:** BEDB (Brunei Economic Development Board)
- ❖ Maktab Teknik Sultan Saiful Rijal (Fasa 1). **Client:** MOE (Ministry Of Education, Brunei Darussalam).
- ❖ Masjid Kampong Madang / Manggis. **Client:** Ministry of Religious Affairs (Brunei).
- ❖ Proposed new location of blast proof window's admin Building. **Client:** Brunei Methanol Company (BMC)
- ❖ Sekolah Persediaan Arab Ugama, Daerah Belait. **Client:** Ministry of Religious Affairs (Brunei).
- ❖ District Under the National Housing Scheme of Brunei Darussalam. **Client:** BEDB (Brunei Economic Development Board)

KEY RESPONSIBILITIES:

- ❖ **To provide preliminary design, detail design (HV, MV, LV & ELV), load calculation, BoQ, BoM, technical specification, Client & vendor coordination, site supervision and Testing & Commissioning Coordination.**
 - To Carry out electrical design for tier I, II, III & IV data center based on International Standards.
 - To provide high voltage, medium voltage, Low voltage and extra low voltage design expertise to the design team, creating project drawings, block diagrams, line diagrams and component specifications.
 - Liaising with representatives include tendering evaluation and attending design workshops with architects and other design team members.
 - To load sizing, Load estimation, transformer sizing, Over load calculation, Fault analysis, System Study.
 - To Estimation of engineering man hours and technical pre-bid engineering support to tendering department.
 - Preparing of data sheet & specification for all equipment used in industries like transformer, medium voltage switchgear, low voltage, switchgear, battery/ UPS system, variable frequency drive, cable, cable tray, earthing & lightning, communication equipment's, switchyard equipment's.
 - Review and approved vendor submission.
 - Cost analysis includes development of initial budgets and evaluating tenders and project cost monitoring.
 - Attend SAT (Site Acceptance Tests) & FAT (Factory Acceptance Tests) for Major M&E Products. (Transformer, Genset and HVAC).

LIST OF PROJECT IN CLIENT

- ❖ Consultancy Services for Telephone House & Tungku Cable Station Network Facility Review and upgrade at Telephone Exchanges in Brunei Darussalam.
- ❖ Data Centre Modernization programmer, Phase 1 at Telephone Exchanges in Brunei Darussalam.
- ❖ Proposed Business Support System (BSS) IT-Data Center at Telisai Earth Station.
- ❖ Upgrading of Tungku Cable Station. (Data Centre Modernization)

KEY RESPONSIBILITIES:

- ❖ **To provide Technical Support, planning, design, cost estimate, technical specification, scope of work, technical evaluation, implementation schedule, maintenance schedule etc.**
 - Communicating with upper management to develop strategic program and to exert strategic influence to align project's with business's goals

- To lead the project team allocated to the project, defining main guidelines, allocating project tasks, and motivating and monitoring internal and external resources to accomplish all tasks and milestones and providing performance feedback regarding allocated resources working on projects.
- To provide project scope, objectives, project budget, schedule, technical specification and technical requirements from strategic plans.
- Responsible for the smooth running of projects by tracking progress and updating management on status, budgets, irregularities and risks timely
- Monitoring and controlling project progress and efficient resource utilization, project financials, overseeing project invoicing status, cost, expenses and cash flow and identifying, qualifying, quantifying and managing project risks, and ensuring that all opportunities are identified and pursued.
- Defining jointly with the Project Controls department, all project plan documents, including scope and financial plans, schedule and risk management plans.
- Creation of designs which meet or exceed our quality requirements and fall within the budgetary requirements.

EDUCATIONAL BACKGROUND

2004 to 2007 Electrical & Electronics Engineering (EEE).
[Board of Technical Education, Tamil Nadu, India]

PERSONAL INFORMATION & CONTACT DETAILS

Date of Birth : 12th Jun, 1988

Address : (2/55A), 2/65 Ariyanenthal Po, Paramakudi Tk, Ramanathapuram Dt, 623707, TN,
 : India.

Languages : English, Tamil, Malay (To Read, Write & Speak)

Marital Status : Married / Two children

Driving License : India & Brunei Darussalam.

Passport Details : Passport No – Z5430317
 : Place of Issue – Brunei Darussalam
 : Date of Expiry – 03/12/2028