

## CV of Eng. J Karunaratne, B Sc Eng., MIE (SL), M Cons E (SL), C Eng.

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Date of Birth : 19<sup>th</sup> October 1951



### Education

- **BSc (Eng) in Electrical Engineering**- University of Ceylon, Katubedda Campus- 1975

### Membership in Professional Societies:

- **MIE** - Corporate Member of the Institution of Engineers, Sri Lanka -since 1982
- **C Eng** – Chartered Engineer -since 1982
- **M Cons E**- Member of the Association of Consulting Engineers, Sri Lanka – Since 2006

### Fields of Competence

- Project Management
- Dispute Adjudication
- Building Services
- Hydro Power

### Key Qualifications

Over 35 years experience in Project Management, Building Services & Hydropower in the capacity of M&E Engineer, Project Engineer, Project Manager, Specialist Engineer, Deputy General Manager, Senior Consultant & Additional General Manager at the Central Engineering Consultancy Bureau and consultant at Urban Engineering (pvt) Ltd.

Certified Dispute Adjudicator in following institutions on successful completion of '**Dispute Board Adjudicator Assessment Workshop**' Conducted by FIDIC Trainers;

- FIDIC (ACESL List)
- IESL
- ACESL

## Papers Presented

- **'Planning, Design & Construction of Healthcare Facilities Safe from Disasters & Easy Accessible to Affected People'** at the 2013 TCDPAP/FIDIC-ASPAC conference held in Bangkok, Thailand
- **'The Green Energy Concepts for Sri Lanka -The Roll of the Consultant & Investors in Promotion of Green Energy Generation & Green Building Construction'** at the 2011 TCDPAP/FIDIC-ASPAC conference held in Kuala Lumpur, Malaysia
- **'New Approaches to EPC Contracts'** at the ACESL seminar on **'Design Built/EPC/Turnkey Contracts'** held in Colombo, Sri Lanka in October 2010
- **'Meeting the Challenges of Consultancy Business by Innovative Approaches'** at the 2010 TCDPAP/FIDIC-ASPAC conference held in Hanoi, Vietnam
- **'Practical Aspects of Building Services'** at the Interactive Lecture series conducted by the (ACESL) held in Colombo, Sri Lanka in June 2009
- **'Make Hospitals Ready for Emergency Situations & Safe from Disasters'** at the **World Health day conference** held In Sri Lanka in April 2009 conducted by the Ministry of Health

## Ranking Positions in Professional Bodies

- Association of Consulting Engineers , Sri Lanka-Vice President (2011 & 2013), Secretary (2009-2010)
- Organization of Professional Associations of Sri Lanka- Vice President (2001/2002), Council Member (1999-2001)
- Association of Franco-Ceylonese Technologists- President (2005-2012), Vice president (2004), Treasurer (1996-2003)
- Engineers Guild of Sri Lanka -President (2001-2003), Vice president (1999-2001), Secretary (1994-1998)
- CECB Engineers' Association- President (83/84, 93/94, 2002)

## Countries of Working Experience

United Kingdom, Libya

## Countries visited for Training/Factory Inspection

United Kingdom, Germany, Sweden, Norway, South Korea, China, France, Thailand, Malaysia, India, Philippine

## Major tasks assigned during last ten years,

Central Engineering Consultancy Bureau

March 2005 to October 2011

### **: Project Manager/Chief M&E Engineer, Improvement/ Rehabilitation of Healthcare Facilities Affected by Tsunami**

Ministry of Health selected CECB as the Principal Consultant to handle this gigantic task & in turn I was appointed as the Project Manager / Chief M & E Engineer to Coordinate with Ministry of Health, World Bank, and Donor agencies such as UNICEF, UNFPA, Red Cross & various other INGOs & NGOs more than 20; led the Team of Architects, Structural, Water Supply & Drainage & Building Services Engineers.

The projects included Teaching Hospitals at Batticaloa, Karapitiya and District General Hospitals at Polonnaruwa, Badulla, Ampara, Kalmunai North, Matara, Hambantota and several other projects in the South and East.

The works included,

- Preparation of master plans for 29 hospitals including 2 Teaching Hospitals & 10 District General Hospitals
- To develop type plans for
  - Gramodaya Health Centers
  - Office of The Medical Officer of Health
  - Regional Medical Supply Division
  - Quarters for different grades of staff (consultant quarters, doctors , interns, nurses, minor staff etc)
  - Hospital wards for Surgical, medical, obstetrics and Gynecology, Pediatrics and other specialized wards depending on the type or level of hospital (Teaching, General, Base Hospitals etc)  
Hospital laboratories, intensive care units, radiology department and other specialized departments depending on the type or level of hospital (Teaching, General, Base hospitals
- Detailed designs of above buildings & preparation of BOQ for the use of various Donors to carry out constructions accordingly.
- Detailed designs & BOQ for UNICEF funded projects.
- Review of designs submitted by various Donors for the higher grades of Hospitals.

- **Chief M&E Engineer for following services**
  - **Lighting & Small Power**
  - **Standby & Emergency Supplies**
  - **Fire Protection & Detection Systems**
  - **Elevators (Passenger & Bed Lifts)**
  - **Air Conditioning (especially for Operating Theatre A/C Systems)**
  - **Medical Gas Systems**

The total construction carried out under this programme exceeded US \$ 150 million.

### **Urban Engineering (pvt) Ltd**

#### **2011 November to date**

**: Team Leader/Building Services Engineer for design team of ongoing Building Projects handled by Isuru Engineering (PVT) Ltd.**

- 12 storied Housing complex to accommodate 2000 low income families
- 4 Storied Commercial Building at Kasturiar Road Jaffna
- 3 Storied Commercial Building at Wellawatte
- 2 Storied Office Building at Colombo 3.

#### **2001 November to date**

**: Project Manager/ Chief M&E Engineer, Small Scale & Mini Hydropower Projects**

Pre-feasibility & Feasibility studies for following small scale Hydropower projects

- Getambe Hydropower Project (10 MW)
- Atabage Hydropower Project (3 MW)
- Rajjammaana Hydropower Project (4 MW)
- Branford Hydropower Project (2.5 MW)

## **Employment Record:**

### **November 2001- to date- Urban Engineering (Pvt) Ltd**

1. **Director**

### **February 1978 to April 2012 – Central Engineering Consultancy Bureau**

1. **September 2008- October 2011- Additional General Manager (Building Services)**
2. **February 2006 to– September 2008- Senior Consultant (Electro Mechanical)**
3. **August 1998 to February 2006 - Deputy General Manager (Technical Services)**
4. **March 1997 to August 1998 - Specialist Engineer (Electrical Services)**
5. **July 1987 to December 1991 & January 1993 to March 1997- Senior Project Engineer (Electro-Mechanical)**
6. **January 1992 to December 1992- Electrical Engineer- Misurata Port Project- National Consultancy Bureau- Libya (on leave from CECB)**
7. **September 1984 to July 1987- Section Engineer (Electro-Mechanical) –Kotmale Hydropower Project Site**
8. **August 1981 to September 1982 & March 1983 to September 1984 –Project Engineer (Kotmale Hydropower Project)**
9. **September 1982 to March 1983-Design Engineer(Victoria Hydropower Project) at Preece Cardew & Rider Office in Brighton, UK**
10. **Sept 1978 to August 1981- Site Engineer/ Senior Resident Engineer (Bowatenna Hydropower Project)**
11. **February 1978 to September 1978 – Electrical Engineer (Electro-Mechanical Designs Office)**

### **January 1976 to January 1978- Polytechnic Institute of Galle, Department of Education**

1. **Lecturer**

### **August 1975 to December 1975- Department of Electrical Engineering, University of Ceylon, Katubedda Campus**

1. **Temporary Instructor**

## Training/Conferences attended:

1. Participated in the Conference on '**Climate Chang Challenge- sustainable Infrastructure Development, Disaster Prevention & Mitigation**' held in Bangkok, Thailand in March 2013, conducted by the Technical Corporation Development Programme Asia pacific (TCDPAP) and the International Federation of Consultant Engineers(FIDIC) & presented a paper on '**Planning, Design & Construction of Healthcare Facilities Safe from Disasters & Easy Accessible to Affected People**'
2. Successfully completed the '**Dispute Board Adjudicator Assessment Workshop**' held in Manila, Philippines in November 2012, conducted by the FIDIC & funded by Japan International Cooperation Agency (JAICA)
3. Successfully completed the '**Dispute Board Adjudicator Training Workshop**' held in Manila, Philippines in October/November 2012, conducted by the FIDIC & funded by Japan International Cooperation Agency (JAICA)
4. Successfully completed the training course on '**Practical Use of the FIDIC Contract (Module 1) and Management of Claim and the Resolution of Dispute (Module 2)**' at the FIDIC Contracts Training Workshop held in Manila, Philippines in August 2012, conducted by the FIDIC & funded by Japan International Cooperation Agency (JAICA) & Asian development Bank (ADB)
5. Chairman, Conference Committee in International conference on '**Technology & Knowledge Transfer and Collaboration among Consultants in the Asia Pacific Region**' held in Colombo, Sri Lanka in March 2012, conducted by the Technical Corporation Development Programme Asia pacific (TCDPAP), Association of Consulting Engineers, Sri Lanka (ACEL) and the International Federation of Consultant Engineers(FIDIC)
6. Participated in the '**Dispute Board Seminar**' held in Colombo, Sri Lanka in January 2012 conducted by the Japan International Cooperation Agency (JAICA)
7. Participated in the Conference on '**Sustainability in the Globalized World**' held in Kuala Lumpur, Malaysia in April 2011, conducted by the Technical Corporation Development Programme Asia pacific (TCDPAP) and the International Federation of Consultant Engineers(FIDIC) & presented a paper on '**The Green Energy Concepts for Sri Lanka -The Roll of the Consultant & Investors in Promotion of Green Energy Generation & Green Building Construction**'
8. Participated in seminar on '**Design Built/EPC/Turnkey Contracts**' held in Colombo, Sri Lanka in October 2010, conducted by the Association of Consulting Engineers, Sri Lanka (ACESL) & presented a paper on '**New Approaches to EPC Contracts**'
9. Participated in seminar on '**New Approaches and Solutions for Consultancy Business Innovation**' held in Hanoi, Vietnam in April 2010, conducted by the Technical Corporation Development Programme Asia pacific (TCDPAP) and the International Federation of Consultant Engineers(FIDIC) & presented a paper on '**Meeting the Challenges of Consultancy Business by Innovative Approaches**'

10. Participated as the **Engineering Resource Person** at the programmes of the '**Healthcare Facility Assessment in Northern Province Hospitals**', '**Proposed Healthcare Changes in Restoring the Healthcare System in the North**' & '**Re-categorization of Hospitals in Sri Lanka**' in January to March 2010 conducted by Ministry of Health.
11. Participated as a resource person in Interactive Lecture series conducted by the Association of Consulting Engineers, Sri Lanka (ACESL) held in Colombo, Sri Lanka in June 2009, & presented a paper on '**Practical Aspects of Building Services**'
12. Participated in the course on "**The Responsibilities and Management of Disputes Adjudication and Disputes Boards under the FIDIC 1999 Contract Conditions and the MDB Harmonized Construction Contract 2006**" conducted by the Association of Consulting Engineers, Sri Lanka and the International Federation of Consultant Engineer(FIDIC) in May 2008.
13. Participated in the course on '**Management of Claims and the Resolution of Disputes & Adjudication under the new FIDIC Conditions of Contracts (2005 Edition)**' conducted by the Association of Consulting Engineers, Sri Lanka and the International Federation of Consultant Engineer(FIDIC) in January 2007.
14. Participated in the **World Health day conference** held In Sri Lanka in April 2009 conducted by the Ministry of Health & Presented a paper on '**Make Hospitals Ready for Emergency Situations & Safe from Disasters**'
15. Chief Organizer for Seminar on '**GIS Project SIRRIM & Flood Control of Kelani Ganga Basin**' held Sri Lanka in November 2008 Conducted by the Association of Franco-Ceylonese Technologists (AFCT)
16. Chief Organizer for Seminar on '**Dam Safety & Reservoir Conservation for sustainable Management of existing water resources**' held Sri Lanka in April 2007 Conducted by the Association of Franco-Ceylonese Technologists (AFCT)
17. Chief Organizer for seminar on '**Post Tsunami Reconstruction & Disaster Management**' held Sri Lanka in November 2006 Conducted by the Association of Franco-Ceylonese Technologists (AFCT)
18. Participated in **International conference of UBIFRANCE Clubs**, held in Sydney & Melbourne, Australia in December 2006, conducted by UBIFRANCE
19. Participated in **International conference of UBIFRANCE Clubs**, held in Mumbai, India in November 2005, conducted by UBIFRANCE
20. Followed a training course on "**Hydropower Development**" in June 2002, conducted by the International Centre for Hydro Power, Trondheim, Norway
21. Participated in the seminar on '**Quality Management and ISO9000:2000 Standards**' held in Colombo, Sri Lanka in September 2001, Conducted by Sri Lanka Standards Institution
22. Participated in the '**Second Workshop on Lightning Protection**' Held in Colombo, Sri Lanka in November 2001, conducted by Institute of Physics, Sri Lanka

23. Participated in **14<sup>th</sup> Annual Sessions** of the Organization of Professional associations of Sri Lanka (OPA), on the Theme '**Whither Good Governance**' held in Colombo Sri Lanka in June 2001
24. Participated in **13<sup>th</sup> Annual Sessions** of the Organization of Professional associations of Sri Lanka (OPA), on the Theme '**Defining a Socio-Economic Development Programme for Sri Lanka**, Emphasizing the methodology for its implementation' held in Colombo Sri Lanka in May 2000
25. Participated in the '**National Fire Safety Seminar**' held in Colombo, Sri Lanka in May 2000 conducted by the Sri Lanka Branch of the Institution of Fire Engineers (UK)
26. Followed a training course on "**Technical Evaluation of Tenders**" held in Sri Lanka in October 1999, conducted by the Institute of Government Accounts and Finance of Ministry of Finance & Planning
27. Followed a training course on "**Micro Hydropower Development**" held in Sri Lanka in October 1989, conducted by the Intermediate technology Development Group & Ceylon Electricity Board
28. Followed the training course on "**Management Development for Engineers**" held in Sri Lanka in October 1988, conducted by the Institution of Engineers, Sri Lanka (IESL).



## Detailed Employment Record:

### November 2001- to date- Urban Engineering (Pvt) Ltd

#### 1. November 2001- to date- Director

- Consultant to the Engineering Consultancy Division.

### February 1978 to April 2012 – Central Engineering Consultancy Bureau

#### 1. September 2008- October 2011- Additional General Manager (Building Services)

- Head of Building Services for all M & E Works.
- Project Manager for 'Improvement/Rehabilitation of Healthcare Facilities affected by Tsunami" Project

#### 2. February 2006 to– September 2008- Senior Consultant (Electro Mechanical)

- In-charge of the Building Services Section of the Projects unit. Responsible for design, preparation of specifications, project management of building services of the projects such as Power supply, lighting & small power, Standby power supplies, Fire protection & detection systems, Telecommunication & computer systems, lifts, air conditioning etc.
- Project Manager/Chief M&E Engineer for 'Rehabilitation/Reconstruction of Healthcare Facilities affected by Tsunami" Project.

#### 3. August 1998 to February 2006 - Deputy General Manager (Technical Services)

- In-charge of support services (i.e.) Maintenance of premises, Transport, Stores & Supplies, Library etc. Main task was to re-organize the supporting services to suit new millennium including computerizing of services such as Supplies & Stores, attendance etc.
- In-charge of selected turn-key projects & Projects worth more than 70 million was carried out during this period.
- Project Management of electromechanical aspects of selected consultancy projects.

#### 4. March 1997 to August 1998 - Specialist Engineer (Electrical Services)

- Specialist engineer for building services of the building & infrastructure development projects such as Lighting & Small Power, Standby power, Air Conditioning, Fire Detection & Protection, Lifts, Telecommunication systems, Power Distribution.
- Project Manager for selected Electro-Mechanical projects.

#### 5. July 1987 to December 1991 & January 1993 to March 1997- Senior Project Engineer (Electro-Mechanical)

- Project Engineer in-charge of Electro-Mechanical Projects such as
  1. Refurbishment of Electrical System of Inland Revenue Building
  2. Refurbishment & Electrification of the Spillway Gates of the Nachchaduwa Irrigation Tank
  3. Air Conditioning of Stamp vault of the Inland Revenue Building
  4. Air Conditioning of the Auditorium & Chemistry lab of CISIR (ITI)
- Design & monitoring of electro-Mechanical aspects of building & infrastructure development projects
- Design & monitoring of Electro-Mechanical aspects of Nilambe mini Hydropower project
- Design & Construction Management of Electro-Mechanical Aspects of the following Turn-key Projects
  1. Complete refurbishment of Electrical System of the Fire Damaged BOI Head

Office Building.

2. Wiring & power supply to new constructions of Navy Camp at Boossa

6. **January 1992 to December 1992- Electrical Engineer- Misurata Port Project- National Consultancy Bureau- Libya (on leave from CECB)**
  - Electrical Engineer in-charge of Construction of Misurata Port Project, which has following electrical works,
    1. 6 Nos. 5,000 KVA substations
    2. HV & LV power distribution system
    3. Area & road lighting for 22 berth port with container yards
    4. power & Telephone connection arrangements to docked ships
    5. Electrification of buildings
    6. Dock lift to raise & store ships up to 5,000 MT
7. **September 1984 to July 1987- Section Engineer (Electro-Mechanical) –Kotmale Hydropower Project Site**
  - Team Leader of the local Electro-Mechanical team to the M/s Kennedy & Donkin Consultant for the Electro-Mechanical aspects of the project. Responsible for construction supervision, witness testing & Commissioning.
  - Clients' Representative for the Electro-Mechanical aspects of the project. Responsible to Mahaweli Authority of Sri Lanka (MASL) for taking over of the works on behalf of the MASL & handing over to the CEB & HAOM unit for operation & maintenance. Further I was responsible for Maintenance of project area since 1985 September.
8. **August 1981 to September 1982 & March 1983 to September 1984 –Project Engineer (Kotmale Hydropower Project)**
  - Responsible for monitoring of progress & co-ordination with consultants & contractors on behalf of the Client
  - Design Engineer to the Electro-Mechanical consultant M/s Kennedy & Donkin of UK. Responsible for scrutinizing of contractors designs for approval & co-ordination with civil consultant M/s Sir William Halcrow & Partners for finalizing civil designs
9. **September 1982 to March 1983-Design Engineer(Victoria Hydropower Project) at Preece Cardew & Rider Office in Brighton, UK**
  - Design Engineer to the Electro-Mechanical consultant M/s Preece Cardew & Rider of UK. Responsible for scrutinizing of contractors designs for approval & co-ordination with civil consultant M/s Sir Alexander Gibbs & Partners for finalizing civil designs
10. **Sept 1978 to August 1981- Site Engineer/ Senior Resident Engineer (Bowatenna Hydropower Project)**
  - Responsible for construction supervision, witness testing & commissioning of Electro-Mechanical aspects of the project
11. **February 1978 to September 1978 – Electrical Engineer (Electro-Mechanical Designs Office)**
  - Assisted the senior design engineers in the planning and designs of electromechanical works associated with the Bowatenna Hydropower project.
12. **January 1976 to January 1978- Lecturer (Polytechnical Institute of Galle, Department of Education)**
  - Lecturer in Electrical Engineering for students following 'National Certificate of Technology' courses
13. **August 1975 to December 1975- Temporary Instructor (Department of Electrical Engineering, University of Ceylon, Katubedda Campus)**
  - Conducted lab practical classes for engineering undergraduates