Mohamed Luthfy
Resume

Personal Information

Name	Mohamed Luthfy. M. R.	
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Education & Training

- 1980 – Bachelor of Engineering Special Honors (Civil) at University of Peradeniya, Sri Lanka.
- 1997 – Successfully Completed Training in "RS Means & Project Management" conducted by the RS Means of United States of America Navy Base in Bahrain.
- 1997 – Successfully completed training in "Total Quality Management" conducted by TQM of European Committee for Standardization, United Kingdom.
- 2002 – Registered Chartered Engineer with the Institution of Engineers Sri Lanka, Sri Lanka.
- 2005 – Successfully completed the course of "Applications of Dynamic Analysis for Seismic Design of Buildings" offered by SEABC (former VSEGS).
- 2006 – Successfully completed the course of "Structural Steel Design" offered by SEABC (former VSEGS).
- 2006 – Successfully completed the course of "National Building Code 2005 Part 4" offered by SEABC (former VSEGS).
- 2006 – Successfully completed the course of "Computer Software Applications in Structural Engineering" offered by SEABC (former VSEGS).
- 2007 – Successfully completed the course of "Seismic Aspects of Reinforced Concrete Design" offered by SEABC (former VSEGS).
- 2007 – Successfully completed the course of "Earthquake Engineering & Seismicity" offered by SEABC (former VSEGS).
- 2007 – Successfully completed the course of "Dynamic Analysis of Structural Systems" offered by SEABC. (former VSEGS).
- 2008 – Successfully completed the course of "Design of Pre-stressed and Post- Tensioned Concrete Structures" offered by SEABC.
- 2008 – Successfully completed the course of "Analytical Methods in Structural Engineering" offered by SEABC.
- 2008 – P. Eng. - Registered Professional Engineer with Association of Professional Engineers & Geoscientist of British Columbia. BC, Canada.
- 2009 – Successfully completed the course of "Geo- Technical Aspects of Foundation Design" offered by SEABC.
- 2010 – Registered Member at SEABC (Strucutral Engineers Association of British Columbia) BC, Canada.

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Employment History

1. Principal – Structural Engineer – TECTONIC DESIGN CONSULTANTS LTD.
Vancouver, BC, Canada.

August 2008 to date.

Overview: Overall Managements of the Company, Structural Design of Residential Housing Units, Site inspections & Certifications.

Duties:

- Designed & developed detailed drawings for City permit application & Construction of the same for several one & two family dwellings within the Metro Vancouver areas.
- Inspected various construction stages of the buildings & issued compliance memos.
- Resolved technical issues related to construction activities.

2. Proprietor – Structural Engineer – ML Design & Services.
Vancouver, BC, Canada.

December 2003 – July 2008.
Overview: Overall Managements of the Company, Structural Design of Residential Housing Units, Site inspections & Certifications.

Duties:

- Designed & prepared detailed drawings for City permit application & Construction of the same for several one & two family dwellings within the Metro Vancouver areas.
- Inspected various construction stages of the buildings & issued compliance memos.
- Resolved technical issues related to construction activities.

3. Consultant Structural Engineer – Ceywater Consultants (PVT) Ltd. 51/1A Vihara Mawatha, Pepiliyana, Boralesgamuwa, Sri lanka.
January 2000 – April 2003.

   Overview: Management of ongoing design works, Preparation of Contract Documents, Tender Documents, Construction Plans & Scheduling using CPM & MS Project 98 & 2000.

Duties:

- Designing & Detailing of various types of Reinforced Concrete Structures & Steel Structures related to Water Supply Projects & related Buildings & Pump Houses.

Projects Completed:

- Designed & Detailed 16000 m^3/day capacity Water Intake Structure & the Pump House on the Banks of River Kaluganga and raw water Transmission main for Export Processing Zone (EPZ) at Horana for the Board of Investments of Sri Lanka (BOI).
- Designed & Detailed 35000 m^3/day combined capacity Pump Houses for the Wijayapura

Improvements to Anuradhapura Water Supply system funded by Asian Development Bank (ADB) in Sri Lanka.

- Preliminary Design works carried out for the proposed Right Bank Water Intake Ambatale Sri Lanka on the River Kelani Ganga with the combined capacity of 300,000 m^3/day.
- Carried out Detail Design works & Developed necessary drawings of the Project for the Reduction of Non Revenue Water (NRW) in greater Colombo Area funded by Japanese International Cooperation Agency (JICA) with an estimated cost of US $ 50.0 million. Under this Project Designed & Detailed the Pump House, Ground Resevoir & related structures for both the Kotikawatte Mullariyawa (Ambatale) Pump House & Sump & the Goththatuwa Ground Reservoir & Pump House.
- Beside the Design works as described above, the following works were carried out for NRW Project with JICA team NIHON SUIDO Consultants Co. Ltd. On a special assignment & the works successfully completed & handed over.
    - Reviewed the progress of detailed design with JICA Study team coordinator for the whole project.
    - Identified missing design details and additional drawings that are required for the completion of the tender documents and successfully completed the same.
    - Coordinated drawing revisions and production of remaining drawings.
    - Coordinated Civil / Structural/ Architectural/ Mechanical/ Electrical drawings.
    - Checked all BOQ's for accuracy and consistency and updated.
    - Coordinated and prepared construction plans & schedules using CPM with MS Project 98 for the whole project.
    - Coordinated and prepared particular specification for the project.

- Designed & detailed all the Structural components of the Greater Galle Water Supply Project costing US $ 30.0 million funded by the Economic Development Cooperation Fund of the Republic of Korea. This project is a Turn Key project undertaken by KOLON SAMSUNG CONSORTIUM of Korea. Projects components are:
    - Intake Structure for 100,000 m^3/ day.
    - Salinity Barrier across river Gin Ganga at 400m downstream of the Intake to arrest the salt intrusion into the intake area of the river.
    - Water Treatment Plant with initial capacity of 32,000 m^3/day.
    - Hapugala Ground Reservoir & pump house – 12,000 m^3.
    - Mahagoda Ground Reservoir – 3000 m^3.
    - Kowlhena Ground Reservoir & Pump House – 7000 m^3.
    - Hallolugoda Ground Reservoir – 7000 m^3.
    - Clear water well & Pump house at Treatment Plant – 3000 m^3.
    - Transmission Mains & Distribution mains for the entire Greater Galle Area.

  My responsibilities are the Structural Design & Detailing of Salinity Barrier, All the Ground Reservoirs & the Pump Houses. All the construction drawings that include the General Arrangements Drawings, Structural Drawings, Setting out Drawings, Earth works drawings, Landscape drawings & Yard Piping drawings completed & issued for construction.

4. Senior Directorate Engineer (January 1995 to December 1999)
   Directorate Engineer (January 1991 to December 1994)
   Civil Engineer (March 1987 to December 1990)

   Ministry of Justice & Islamic Affairs – Sunni Waqf Directorate – Kingdom of Bahrain.

   Overview: Overall Project Planning & management works. Structural Design Works.

   Duties:
   Preparing feasibility reports, Initial estimates & projected returns for various projects initiated by the Directorate. Preparing Monthly reports of all ongoing projects & presented to the Directorate Council meetings. Preparing Tender Documents & Specifications for all new Projects Designed & Executed by the Directorate. Preparing Tender Evaluation report all the new projects & assisting the Board in deciding the Successful Bidder. Managing the Design office & providing necessary support for the team of Architects & Draftsman in preparing working drawings. Serving as the Deputy to the Manager of Engineering during his Vacations. High level supervision of Contractor's activities during the execution stage, Holding progress meetings with the Contractors, Services Consultants & the Directorate Engineers to monitor regular progress of the projects to achieve timely completion.

   PROJECTS COMPLETED:

   During the 13 years of stay in the office, I have Designed, Detailed, Managed Executed many Commercial Buildings of Large scale comprising of Multi Storey Buildings, Shopping Complexes, Large Span Structures & Mosques in various locations of Bahrain. These Structures are either Reinforced Concrete or Steel depending on the type & nature of the buildings.

   To describe a few important Projects as follows:

   1. Completely Designed, Detailed, Executed & Managed the Project Al Hidaya Shopping Complex at Manama City which is a Two Storey RC Structure comprising 82 show rooms, two prayer halls, visitors rest area and a centre Atrium of 25.0m x 20.0m free span. Project successfully completed on time.
   2. Completely Designed, Detailed, Executed & Managed the Project 12 Storey Al Rabia Luxury apartment building in Manama with Roof top Swimming pool & Gymnasium facilities. The building is RC framed structure supported on Pile foundations. Project successfully completed on time.
   3. Completely Designed, Detailed, Executed & Managed the Project 12 Storey Arab Financial Head Quarters building in Manama. Building is RC framed supporting flat slabs & resting on piled foundation. Project successfully completed on time.
   4. Completely Designed, Detailed, Executed & Managed Al Hidd Grand Mosque. Main superstructure is RC frames on isolated foundation with roof structure is steel trusses spanning 22.0m. Height of Minaret is 36.0m. Main prayer hall capacity 2000 persons.
   5. Completely Designed, Detailed, Executed & Managed HE the Prime Minister's Grand Mosque at Jasrah. Superstructure is RC frames on isolated foundation with roof slab is Pre-

stressed pre-cast slab. Main prayer hall capacity 1200 persons.

6. Completely Designed, Detailed, Executed & Managed Sheikh Ahamed Bin Salman Grand Mosque at East Riffa. Main superstructure is RC frames on isolated foundation with roof structure is steel trusses spanning 18.0m. Height of Minaret is 32.0m. Main prayer hall capacity 1800 persons.
7. Completely Designed, Detailed, Executed & Managed the Ebrahim Khalil Kanoo Grand Mosque at Manama. Main superstructure is RC frames on isolated foundation with roof structure having a centre dome 8.0m in diameter rising to 10.0m above roof level. Two minarets with Height of 42.0m each. Main prayer hall capacity 1800 persons.
8. Completely Designed, Detailed, Executed & Managed the two storey luxury guest house at Juffair for the existing Al Fateh Grand mosque & Islamic Center. This facility is similar to a five star hotel with all luxury features.
9. Completely Designed, Detailed, Executed & Managed the two storey villa complex comprising of 55 villas in a compound in Riffa.
10. Completely Designed & Detailed the Luxury Function hall for the Ruling Family of Barhain. This special Project consisting of two large halls having sizes of 60.0m x 60.0m free span & 45.0m x 90.0m free span. RC framed structure resting on isolated foundation with steel roof trusses. Steel trusses spanning 60.0m & 45.0m.
11. Completely Designed, Detailed, Executed & Managed the Project 12 Storey Al Rabia 2 Luxury apartment building in Manama with Roof top Swimming pool & Gymnasium facilities. The building is RC framed structure supported on Pile foundations.
12. Completely involved in the design works of Al Hidaya Twin tower of 12 storey each. This project construction supervised by a private consulting firm.

PART TIME WORKS:

During the time I worked in the Ministry of Justice & Islamic Affairs, I have been working for the United States of America Navy Base in Bahrain as the Quality Control Manager from 1997 to 1999.

Duties & Responsibilities as Quality Control Manager:

1. Developed a Quality Control Plan & a Manual based on ISO 9002 for the NAVY's projects. This plan is being used in the NAVY's Job Order Contract. All the jobs subjected to implementation of Preparatory phase, Initial Phase & Follow up Phase procedures & meetings from the beginning till end of the projects.

5. Manager Engineering. Thawadi Trading & Contracting Company, Manama, Bahrain, February 1986 to February 1987.

   Duties & Responsibilities:

   Supervision of Tender Documents preparation & Submission for bidding.
   Prepare Construction Programs.
   Organizing materials & manpower for construction projects.
   General Management of all the construction works. Many Villas & Commercial building completed.

6. Project Engineer – SAMACON LTD. 31A, 10th Lane, Off Schoffield Place, Colombo 3, SRILANKA. - January 1985 to February 1986.

   Duties & Responsibilities:

   Designing various projects undertaken by the company as Turn Key projects. Management of various construction projects that include water intake structures, treatment plants, overhead storage tanks, water transmission mains & pump houses.

   Projects Completed:

   1. 150,000 gallons capacity conical water tower having 24.0m diameter at top supported on a cylindrical shaft of 18.0m height constructed in the North Central Province of Sri Lanka. Slip form techniques used in constructing the cylindrical to achieve faster progress.
   2. Four numbers water supply schemes completed in the Eastern Province of Sri Lanka. Each of these projects comprising of over head water towers, pumping mains & water intake structures from nearby Lakes, filter beds & water purification systems.
   3. Gunasinha Pura Housing Complex in Colombo Sri Lanka consisting of 325 houses in 3 storey blocks for Ministry of Housing Sri Lanka.

7. Resident Engineer – Technical Projects Contracting Company Ltd. P.O. Box 5467, Jeddah, Kingdom of Saudi Arabia. – December 1981 to December 1984.

   Duties & Responsibilities:

   Completely responsible for the Construction & Management of one of nine Hospitals Project undertaken by the Company from the Ministry of Health of Saudi Arabia.

   Project consisting of Main Hospital Building, Family units for Doctors, Bachelor units for other staff, Power Station with 2 nos 600KVA generators, Landscaping works, Water supply & Sanitary networks, Electrical networks & a Large compound walls.

   Project successfully completed & handed over.

   Civil Engineer – Design Office – Central Engineering Consultancy Bureau in Collaboration with William Halcrow and Partners of UK. – September 1980 to December 1981.

   Duties & Responsibilities:

   Worked as one of the Design team Engineers for the Design of Kotmale Hydro power Project in Sri Lanka.

   This is one of the five major Hydro power Projects under the Government of Sri Lanka for Developing Power to the National Grid. Project consisting of a Rock Fill Dam of about 120.0m

height, about 1000.0m length at the crest and about 800.0m base width. A Hydro Power Station with a capacity to develop 240MW of Electricity constructed underground at a depth of 300.0m which takes water through 5.5 km long underground tunnel. Cofferdams & two diversion tunnels constructed to facilitate the construction of the main dam. Total cost of the project is USD 1100.0 million.

Designed & Detailed the complete construction drawings for the Two Diversion Tunnels outfall Structure & the Dam Plinth of the Concrete Membrane face.

Also analyzed various possibilities of the location of the 800.0m long chute spillways and finally prepared stripping & excavation drawings for the selected location of the spill way.

Technical Skills

- Microsoft Office Word, Excel, and Power point.
- Auto Cadd, SAP 2000, Revit. Wood Design Software.
- MS Project.

Hobbies & Interests

- Gardening & Farming.
- Bird feeding & watching.
- Charity works.

References

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