

Lion Eng. Amarapathy A.M.D.J

BSc Eng Hons(Peradeniya),CEng, PG Dip(Struct Eng), MIESL,AMSSE

Consultant Structural Engineer

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Educational Qualifications:

- 1992 - 1998 BScEng , University of Peradeniya
- 2006 - 2007 M.Eng.(StructEng), University of Peradeniya.

Professional Qualifications:

- Chartered Engineer by Institution of Engineers Sri Lanka (2009- To date)
- Lecturer for Graduate and Advance Diploma levels for Institute of City & Guilds at Kandy (2012- To date).
- Consultant Structural Engineer (1998- To date)
- Project Manager/Resident Engineer/Construction Inspector.

Carrier Summary:

- 2015 Jun - To date Construction Inspector /Structural Engineer - CEYWater Consultants (Pvt) Ltd.
- 2010 Feb - 2015 May Project Manager – Maga Engineering (Pvt) Ltd.
- 2009 Sep - 2010 Jan Deputy Manager (Dam) - Maeda Nishimatsu Joint Venture.
- 2009 Apr - 2009 Aug Project Manager – Lanka Trading & Construction Company (Pvt) Ltd.
- 2008 Aug - 2009 Mar Manager Engineering / Chief Structural Engineer - Micro Constructions (Pte) Ltd.
- 1998 Sep - 2008 Jul Resident Engineer / Structural Engineer/ Engineer's Representative - Strad Consultants (Pte) Ltd.
- 1998 Jan - 1998 Aug Site Engineer - Thusitha Contractors and Distributors - Kandy.
- 1998 Jan - To date Consultant Structural Engineer – As a Free Lancer.

Memberships:

- Cooperate Member, Institution of Engineers Sri Lanka (M-5390)
- Associate Member, Society of Structural Engineers Sri Lanka (AM-499)
- Member of Lions Club of Kandy Hill Capital (3275791)

Special Awards:

- Award for the Project Manager (Representing Maga Engineering (Pvt) Ltd) for successful and timely completion of Greater Kandy Water Supply Projects 3A/4A at National Construction Performance Awards Ceremony organized by the ICTAD in 2013.
- Award for the Project Manager (Representing Maga Engineering (Pvt) Ltd) for successful and timely completion of Greater Kandy Water Supply Project VO64 in Mahabimani National Construction Performance Awards Ceremony organized by the ICTAD in 2014.

Professional Experience:

2015 June-To date **Construction Inspector/ Structural Engineer - CEYWater Consultants (Pvt) Ltd.**

Responsible for all structural analysis/design reviews and reviews and acceptances of all project related documents submitted by the Design and Build contractor. Monitor of Financial and Physical progresses of the construction related to the Package 1 contractor (M/s) JEF Engineering Cooperation of Japan).

Project scope consists of:

Design and Construction of Sewerage treatment plant of capacity 14000 m3/day, Main Pumping station for peak flow of 35,000m3/day, Laying of DI Force Main line of 600mm Dia for 1 Km, Laying of Effluent Concrete hume pipes line of 1000mm Dia. for 0.8 Kms, Construction of Sludge Drying Bed at Guhagoda and construction of 12 Nos of Staff Quarter buildings in Kandy city and suburb.

Total Project Cost - 21.982 Billion (2015)

Package 1 cost - 6.994 Billion (2015)

2010 Feb - 2015 May **Project Manager – Maga Engineering (Pvt) Ltd.**

Responsible for coordinating the project, Carry out supervision of pipe laying works of UPvc and DI to ensure adherence to proper specifications and details. Further evaluating and monitoring of physical and financial progress of the project, Submit method statements and solve of all project problems encountered in pipe laying.

Projects Involved as the main contractor:

- **Galagedara Mawathagama Water Supply Scheme.**

Scope consists of:

Construction of 02 Service Reservoirs ranging 1000m3 (Inez Type Elevated Tower and 450m3 (Ground Supported);

Supply, laying of transmission and distribution lines of both DI(Ranging 300mm to 250mm ND of 25.5 Km), PE (355 mm ND of 8.5 Km)and UPvc (63mm dia. to 225mm dia of 100 Km), including supply of pipe fittings, specials, accessories and Construction of Access roads to facilitate in Galagedara and mainly in Mawathagama areas.

Total Project Cost - 3.1 Billion (2014)

- **Greater Kandy Water Supply Project Phase I-Stage II (3A) –VO105**

Scope consists of:

Supply, laying of Upvc pipes, Fittings &Valves for Rajapihilla Distribution line (10.3km long) for Medawala. Nugawela & Rajapihilla areas for Water Supply Improvement under Greater Kandy Water Supply Project.

Total Cost of Variation Order - 88.5 Million (2014)

- **Greater Kandy Water Supply Project Phase I-Stage II (3A) –VO64**

Scope consists of :

Supply, laying of DI pipes, Fittings &Valves for Rajapihilla Transmission line (5km long) for Meadawala for Water Supply Improvement under Greater Kandy Water Supply Project.

Total Cost of Variation Order - 288.4 Million (2012)

- **Greater Kandy Water Supply Project Phase I-Stage II (3A)**

Scope consists of :

Construction of 09 Service Reservoirs ranging 100m³ to 600m³ (Both Elevated and Ground);
Construction of 07 Pump stations including supply and installation,
Supply, laying of transmission and distribution lines of both DI(Ranging 80mm to 800mm ND of 18.5 Km) and UPvc (63mm dia. to 225mm dia of 9.5 Km), including supply of pipe fittings, specials, accessories and Construction of Access roads to facilitate in Greater Kandy area.

Total Project Cost - 1.7 Billion (2009)

- **Greater Kandy Water Supply Project Phase I-Stage II (4A)**

Scope consists of :

Supply, delivery and laying of DI(80mm dia.to 300mm dia. for length of 5.4 km), GI(50 mm dia.for length of 2.0 km) and UPvc (63mm dia. to 225mm dia. for length of 68.8 km), including supply and laying of pipe fittings, specials and accessories both in DI and UPvc. Works were undergone basically within three zones named as Zone1, Zone2 and Zoone3 in Akurana , Harispaththuwa and Ampitiya/HAnthana respectively and at PradeshiyaSaba (PS), Provincial council Road Development Authority (PRDA) and Road Development Authority (RDA) roads.

Total Project Cost - 708 Million (2009)

2009 Sep - 2010 Jan Deputy Manager (Dam) Upper Kothmale Hydropower Project_Lot2- Maeda Nishimatsu Joint Venture.

Responsible for coordinating the Dam section of the project, Carry out supervision of construction to ensure adherence to proper specifications and details. Further evaluating and monitoring of progress of projects, Submit method statements and solve of all structural problems encountered in construction works. Output electricity capacity of the project will be 150 MW.

Project scope consists of:

Construction of 180.0m wide and 35.5m height concrete gravity dam, River diversion works, Sand Flushing way, Intake facility area, initial part of intake tunnel, Retaining walls and Construction of 6m width connecting road etc. All are gravity structures except at Intake facility area where RCC structures are involved.

Total Project Cost - 19 Billion (2006)

Total Sectional cost- 4 Billion (2006)

2009 Apr - 2009 Aug Project Manager – Lanka Trading & Construction Company (Pvt) Ltd.

Responsible for coordinating the project, liaison with architects, Carry out supervision of construction to ensure adherence to proper specifications and details. Further evaluating and monitoring of progress of projects, preparing monthly claims.

Project scope consists of:

Bank and Shopping complex for Sanasa Banak at Kotikawatta of having Six stories. This comprises parking floor, two floors for bank, three commercial floors with a 200 seats auditorium. The structure consisting of R.C.C frames and supported on pile foundations.

Total Project Cost - 135 Million (2009/09)

2008 Aug - 2009 Mar Manager Engineering / Chief Structural Engineer - Micro Constructions (Pte) Ltd.

Responsible for coordinating projects from site investigation to the completion of construction, liaison with architects, identifying suitable structural systems and supervising design teams, providing calculations and detail drawings. Carry out supervision of construction to ensure adherence to proper specifications and details. Further evaluating and monitoring of progress of projects, guiding and instructing of Project Managers.

Projects Involved as the Design And Build contractor:

- **Hemas Hospital complex at Galle of Three Buildings having Three stories in each.**

Scope consists of :

Conducted serious structural rectifications works and successfully completed on B3/B4 buildings. B2 building having three stories. The structure consisting of R.C.C frames and supported on individual pad footings.

Total Project Cost - 135 Million (2007/09)

- **Office Complex for Brandix Active ware at Rathmalana of Three story Building.**

Scope consists of :

Being main nominated sub contractor, completed 80,000 square feet of periphery walls with 3D load bearing panels. The structure consisting of Steel frames and supported on individual pad footings.

Total Project Cost - 17.5 Million (2008/09)

1998 Sep - 2008 Jul Resident Engineer / Structural Engineer/ Engineer's Representative - Strad Consultants (Pte) Ltd.

Responsible for coordinating projects from site investigation to the completion of construction, liaison with architects, identifying suitable structural systems and supervising design teams, checking calculations and detail drawings. Carry out supervision of construction to ensure adherence to proper specifications and details.

Major projects Involved in Structural design / Supervision of designs:

- **Proposed apartments complex at Amarasekara Mawatha of Eight story building.**

Scope consists of :

The building having a basement car park and Seven apartment floors has underground water sump with 115,000 liters. The structure consisting of R.C.C frames and shear walls is supported on individual pad footings.

Total Project Cost - 350 Million (1998/99)

- **Shopping complex for Anusha Textile at Kiribathgoda of Eight story building.**

Scope consists of :

The building having a basement with six shopping floors and one office floor. The structure consisting of R.C.C frames and shear walls is supported on a raft foundation. Here scope includes complete consultancy works and construction supervision.

Total Project Cost - 275 Million (1998/99)

- **Proposed Shopping and office complex of Five story building at No.88, Kotugodella Weediya, Kandy.**

Scope consists of :

The building having a basement car park and Four office floors with underground water sump of 100,000 liters. The structure consisting of R.C.C frames and shear walls is supported on individual pad footings.

Total Project Cost - 375 Million (1999/2000)

- **Proposed Shopping and office complex of Nine story building in Kandy for property Finance and Investment (Pvt) Ltd.**

Scope consists of :

The structure comprises R.C.C frames and shear/retaining walls supported on bored cast in situ concrete piles. This land mark building is comprises of 6 Glass roofs, Steel framed jack timber 4 roofs, 300,000 liters main water sump with raw water and sewer treatment plants.

Total Project Cost - 4.8 Billion (1999/2007)

- **Proposed apartments complex at Palmira Avenue, Colombo-03 of Seven story building.**

Scope consists of :

The building having a basement car park and Six apartment floors has underground water sump with 115,000 liters. The structure consisting of R.C.C frames and shear walls is supported on individual combined footings.

Total Project Cost - 400 Million (2000/01)

- **Proposed Shopping mall complex at Dehiwela for Richard Peries Privet limited of Four story building.**

Scope consists of :

The building having an Outdoor car park and four shopping floors has underground water sump with 100,000 liters. The structure consisting of R.C.C frames with two constructions joints and steel roof is supported on individual pad footings.

Total Project Cost - 100 Million (2000/01)

- **Proposed Muiltly story Police station building at Narahenpita of Ten story building.**

Scope consists of :

The building having a Ground floor car park and Balance office floors. The structure consisting of R.C.C frames and shear walls are supported on in situ cast bored piles.

Total Project Cost - 95 Million (2001/02)

- **Proposed Kalugaga Project for Water Supply and Drainage Board.**

Scope consists of :

Structural design works and supervision works of Intake tanks, aeration structures, Filtration tanks, Chlorination tanks, Storage tanks etc., all structures are ground supported and analyzed by using 3D model package SAP 2000

Total Project Cost - 3.5 Billion (2001 /02)

- **Proposed Mini-Hydro Project at Kalawana for Property Finance and Investment (Pvt) Ltd Colombo.**

Scope included all supervision works. Capacity of the project is 7.5 MW. Consist of 1.4 km length open channel, Dam construction, Silting tank, penstock line, Supportive roads etc.

Total Project Cost - 145 Million (2002/04)

- **Proposed apartments complex at Siripa Lane of Seven story building.**

Scope consists of :

The building having a basement car park, Fifteen apartment floors, Two shopping floors with underground water sump of 1,000,000 liters. The structure consisting of R.C.C frames and shear walls is supported on bored cast in situ concrete piles.

Total Project Cost - 1900 Million (2004/05)

- **Proposed Statue of Load Buddha at Sri Jethawanarama Temple, Mahiyanganaya Road, Hunnasgiriya.**

Total Project Cost - 4.5 Million (2004/2005)

- **Proposed extensions of Three Stories and Four stories to existing Gandara Buildings at Colombo-05.**

Scope consists of :

Addition of newly proposed floors were done by strengthen existing floors by steel frame with newly introduced pad foundations.

Total Project Cost - 22.5 Million (2005/2006)

1998 Jan - 1998 Aug **Site Engineer** - Thusitha Contractors and Distributors - Kandy.

Responsible for coordinating projects from site investigation to the completion of construction, liaison with architects, quantity surveying, overall in charge of projects.

Major projects Involved as a Site Engineer:

- **Renovation of Bogambara Sports complex at Kandy.**

Handled successfully the renovation of VIP Pavilion, with construction of play ground,400 m running track to the international standards of Bogambara Sports complex at Kandy.

Total Project Cost - 20 Million (1998)

- **Construction of Blast wall for B.I.A at Katunayake**

Overall responsibility of handling labor works, billing, project planning etc., of Construction of Blast wall for B.I.A at Katunayake from initial stage to the completion of the project.

Total Project Cost - 3.5 Million (1998)

Major Freelance Consultancy Assignments:

1. Design of **Four stories** Commercial Complex (Steel Structure) for M/S Hofewell Tea Factory (Pvt) Ltd @ Balangoda in **2009**.
2. Design of **Four story** Co-operative Building for Pilimathalawa Co-operative Society @ Pilimathalawa in **2010**.
3. Design of **Three story** Hall complex for Sri Selvinayagar Temple @ Katukele, Kandy in **2010**.
4. Design of **Three story** 1000 seats School Auditorium for Sri Chandrananda Buddhist College @ Asgiriya, Kandy in **2010**.
5. Design of Balance **Four story** of Asgiriya Maha Viharaya for Most venerable Asgiriya Maha thero @ Asgiriya in **2011**.
6. Design of **Four story** Commercial Building with roof terrace (10,000 Sq.ft) for Mr. Mr.Mohomad Hussain Mohamed Faris @ Gampola in **2012**.
7. Design of Extension to the Wel Bodi Maluwa of Pathvini Dewalaya for Dalada Maligawa @ Kandy in **2012**.
8. Design of **Five story** Furniture show room complex for Mr.W.G.P Lasantha Fernando @ No.2098/B, De soyza Road, Moratumulla Moratuwa in **2012**
9. Design of **Six story** Commercial Complex with roof terrace for M/s Seetha Holdings (Pvt) Ltd, Kandy @ Kurunegala in **2012**.
10. Design of **Five Story** Hotel Complex for M/s Randiya Hotels, Anuradhapura @ Muditha Mawatha, Anuradhapura in **2013**.
11. Design of **Three story** Residence for Mr.I.T Hewage @ Boralugoda Road, Athurugiriya in **2013**.
12. **Structural Consultant** for the Jaffna-Kilinochchi Water and Sanitation Project (JKWSSP) @ Jaffna in **2013**.
13. Design of **Three story** Residence for Dr.K.D Duminda @ 112/4, Ethul Kotte, Colombo in **2013**.
14. **Structural consultant** to the Resort complex for M/s Yuani Resorts @ Dambulla in **2013**.
15. Design of **Five story** Commercial Complex for M/s Elcardo Industries (Pvt) Ltd.@ No.25, Willium Gopallawa Mw, Kandy in **2013**.
16. Design of **Six story** Pradeshiya Saba Building for Harispaththuwa Pradeshiya Sabawa @ Harispaththuwa,Kandy in **2014**.

Note: 196 structural design assignments ranging from Low Rise, Intermediate Rise up to Medium Rise levels were completed as at the end of November 2015 as a Freelance Structural Engineer excluding Projects completed as an employee with different organizations.

Teaching Areas :

- Concrete Technology
- Structural Analysis
- Computer Analysis of Structures
- Design of Structural Elements
- Design of Concrete/Steel structures

Feasibility Reports :

1. Check the feasibility of existing commercial building (Deutsche Bank AG - DBAG) located at No86, Galle Road, Colombo 03, Sri Lanka is safer to endure loads of Fire Resistance Filling Compactors (FRFCs) in 2010.
2. Check the feasibility of existing commercial building (Gamini Furniture Palace) situated at No.617, Maradana Road, Colombo 10, Sri Lanka to develop as a Medical channelling consultation place in 2009.
3. Check the Structural feasibility of partially completed Two story residence building for Mr.&Mrs Nihal Shaheed @ Galaha, Kandy due to improper workmanships and recommend remedial measures to overcome issues arisen in 2010.
4. Assessment report to highlight reasons for appeared cracks on walls of the two story building of Mrs.Rukmani Beligammana at Usaviya Road, Mawanella, Sri Lanka in 2010
5. Assessment report to highlight reasons for appeared cracks on walls of Peter De Abrew Memorial Auditorium of Musaeus College, Colombo 07 due to the construction works at adjoin premises in 2015.
6. Structural assessment for separation of existing monolithically constructed two story RCC building for Mr.Naween Gunarathna at No 42 , Dickman's Road , Colombo 05 in 2015.