



MEP DESIGN AND CONSULTANCY SERVICES.

COMPANY PROFILE



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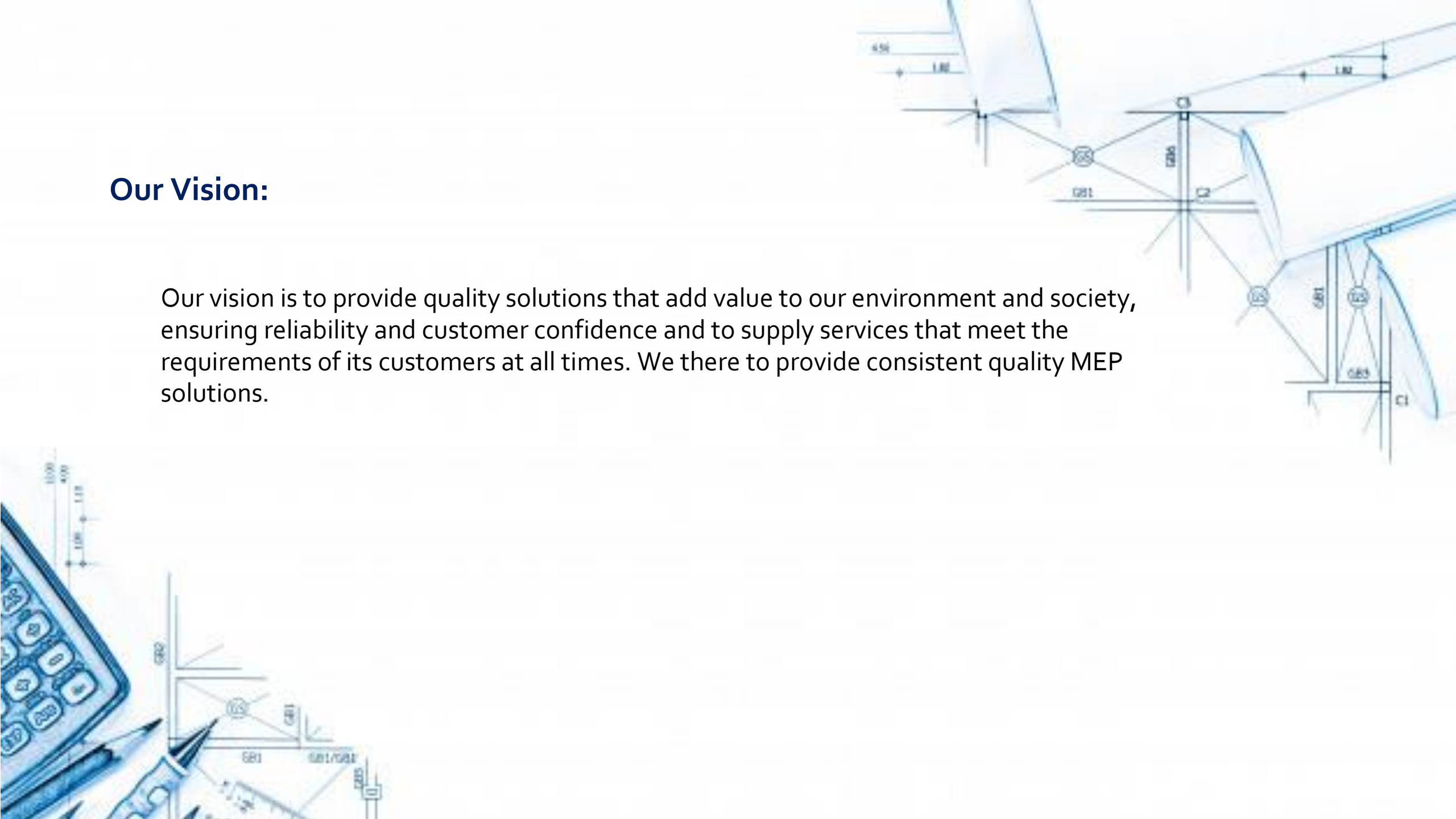
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Our Vision:

Our vision is to provide quality solutions that add value to our environment and society, ensuring reliability and customer confidence and to supply services that meet the requirements of its customers at all times. We there to provide consistent quality MEP solutions.



Our Mission:

MEP Design Engineers mission is to provide comprehensive outstanding mechanical, electrical & plumbing services, for the Sri Lanka market, the region and internationally. We strive to offer innovative solutions that are technically sound and environmentally correct.

We believe that our success is measured by how our project is experienced by communities whether it is major transportation artery, a simple family house or a major infrastructure project.

We know that our work ultimately touches people.



Our Services:

We perform MEP studies ,designs ,workshop drawings, Revit modulation, design review and validation, value engineering, engineering calculations, equipment selection, method of statements , material submittals, planning and coordination, as-built drawings , supervision of construction for projects ranging in complexity and magnitude from a single family house to infrastructure , roads, urban development projects and basically any project that has to do with the built environment .

We have realized our appropriate quality objective, which is continuously reviewed for appropriateness, applicability, and measured for its effectiveness and efficiency. We are committed to undertake all works in accordance.



MEP Design Engineers Objectives:

MEP Design Engineers objectives are:

1. Reduce the gap between consultants' output and contractors.
2. Deliver our services at best quality and as per agreed deliverables.
3. The effective response and handling of the customer complaint.
4. Enhance staff qualifications and capability to match with the high level of standards requirements.
5. Opening new markets and expanding our work regionally and internationally.
6. To professionally provide advanced designs that are modern and are distinguished with excellence for the different sectors.
7. Improving customer service and increase confidence in MEP Design.



MEP Design Engineers policy:

We are responsible for the quality of work carried out on services.

We have the authority to ensure that quality requirements are met in full. Therefore, we provide all the necessary resources, training, to develop employees, performance for continuous improvements.

We ensure that all personnel at all levels are aware of this policy and its principles are fully implemented.

Who We Serve?

- We serve owners, developers, governments, contractors.
- We serve architects and interior designers



Completed & Ongoing Projects:

- Apartment Building, Nugegoda – DF Associates (Pvt) Ltd.
- Apartment Building, Park Road, Colombo 05 – K2 Consultant.
- Office and Shower room – DJ Trading Batapola.
- Luxury House, Kinsley Road, Colombo 7 – Dr Dinusha Winniarachchi.
- Banquest Hall, Makevita – Ar. Rajith Jayawardana.
- Apartment Building, Laurie's Road, Colombo 4 – N&A Property Developers (Pvt) Ltd.
- Boutique Villa, Habaraduwa – Euan Kilpatrick & Chris Kelso.
- Boutique Bungalow, Godallawela, Tangalle – Sharafi Lanka (Pvt) Ltd.
- Nano Homes, Pangiriwatta Road, Nugegoda – Landmark Developers.
- Boutique Villa at Kathaluwa – By Cocoon Co Living.
- Holiday Home at Tangalle – Chanika & Dirk.
- Garment Factory, Koggala – Polytex Garment Ltd.
- Seylan Bank, Deal Place, Colombo 4 – Rukshan Widyalkankara (Pvt) Ltd.
- NDB Bank, Nawam Mawatha, Colombo 2 – Rukshan Widyalkankara.
- Ninewells hospital, Narahenpita – Access Project (Pvt) Ltd.
- Holiday Bungalow, Moragahakanda – Ar G P Mapitigama.

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- Masjid Complex, Colombo 4 – Ar G P Mapitigama.
 - Shangiri La, Shopping mall, Colombo 1 – Landmark Developers.
Shops: Chatham Watches, English cakery, Mobitel, Linen & I,
Ekko, Christel cutting, Vision care, Ramzi & Co, Hameedias.
 - Lanka Hospitals Corporation Plc – Diran Damith Associates.
 - Boutique Resort, Mirissa – Ar Manjula Kalhara De Silva.
 - Nemra Apartments, Three Projects: – Nemra Property Developers (Pvt) Ltd.
 - Multi-Functional Hall, Buthgamuwa – Ar Mutiara Tegal.
 - The Plantation Luxury Villas, Habaraduwa – Ar Manjula Kalhara De Silva.
 - Villa Dalawella, Unawatuna – SunDown project by Ar Manjula Kalhara De Silva.
 - Rush Apartments: Sumangala project & Watarappla project – RUSH Homes (Pvt) Ltd.
 - Luxury House in Alivis Terrace, Colombo – PWA Architect.
 - Luxury House in Dharamapala Mw, Colombo – PWA Architect.
 - Colombo Club – PWA Architect
 - City Hotel, St Kildas lane, Colombo 3 – Tectonic Architect.
 - Finlays tea factory, Welisara – Finlays Colombo Ltd.
 - Institution Building, Matara – Mr Chandana Dahanayake.
 - Boutique Villa Induruwa – Ar Palinda Kanangara.

What We Do:

- Preparing tender documents (drawings, specifications, preambles, bill of quantities BOQ'S, pricing and technical reports).
- Workshop drawings, Revit modulation, design review and validation, value engineering calculations, equipment selection, method of statements, material submittals, planning and coordination, as-built drawings.



Specialties:

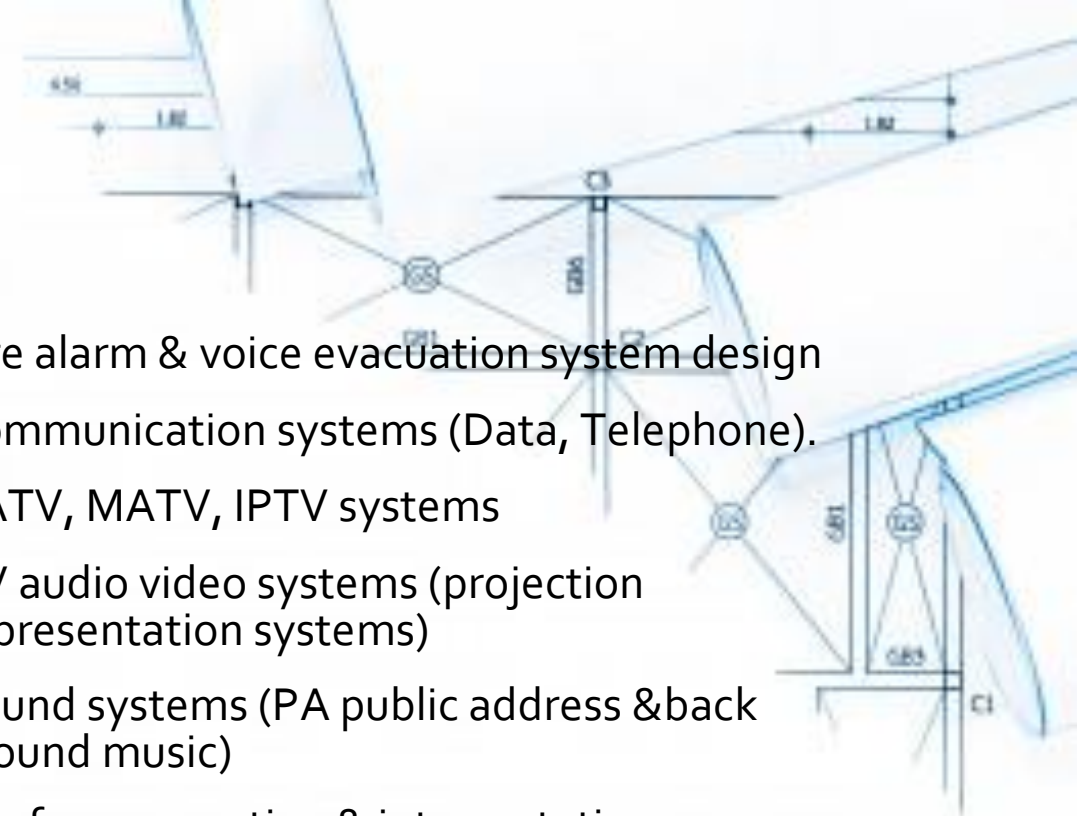
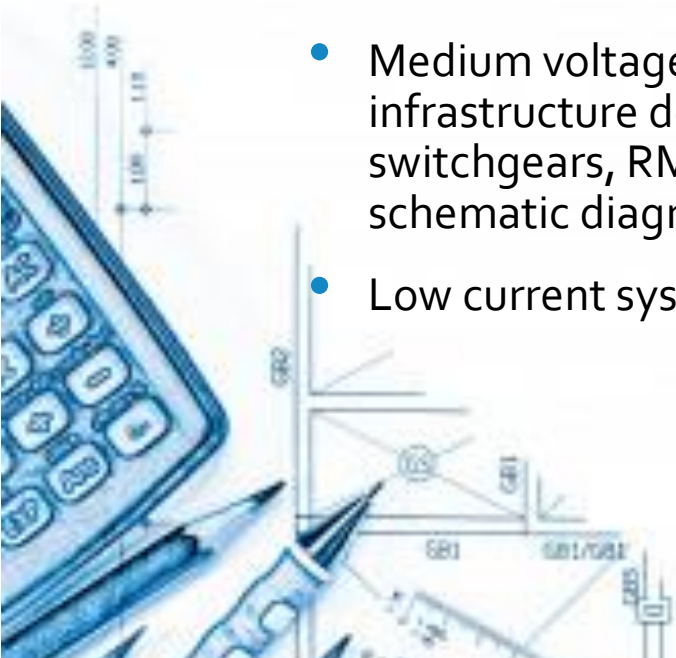
MECHANICAL, PLUMBING, FIRE, LPG:

- HVAC system design (hydronic chilled-hot water system), CAV & VAV Air handling systems, central packaged and split units' systems, pools heating systems, data centre's cooling systems, STP's odour control systems, health care special HVAC systems, pharmaceutical plants clean rooms and dust collection systems.
- Plumbing systems design (water supply, sanitary drainage, rain water drainage and harvesters, gray water treatment plants, sewage treatment plants, LPG systems, compressed air, steam systems, medical gases).
- Firefighting systems design (sprinklers systems, clean gent automatic systems, foam systems & deluge systems).



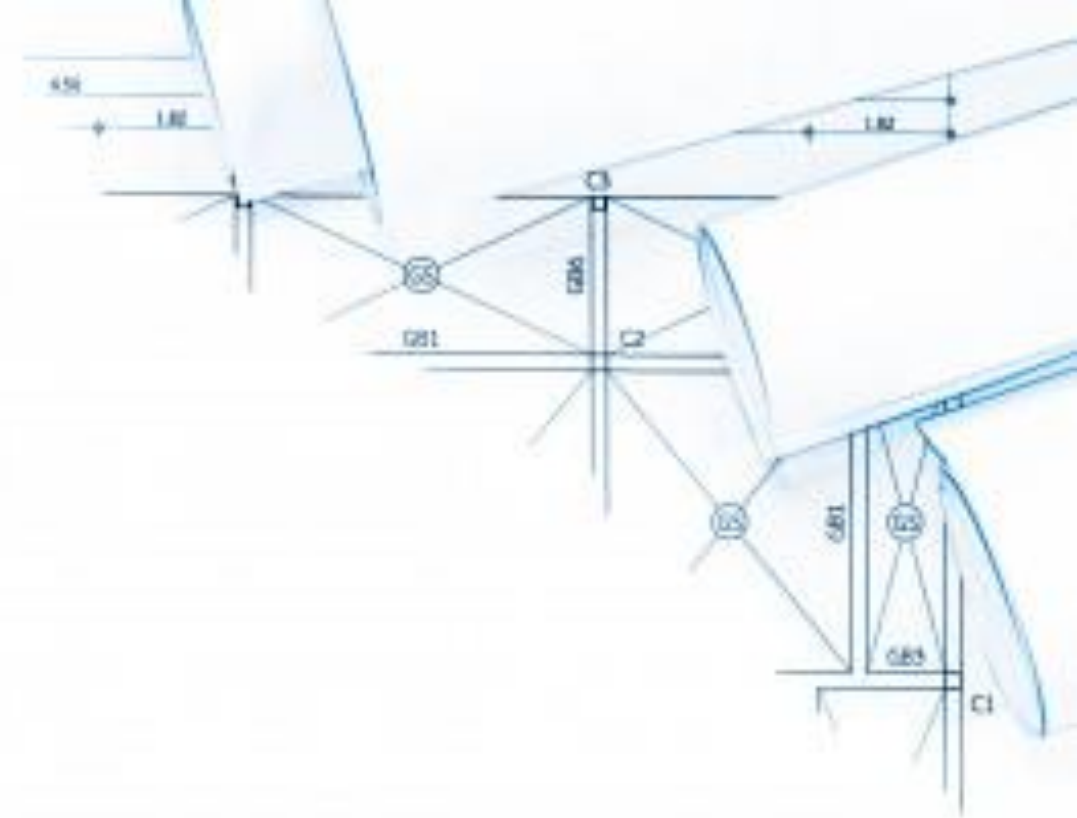
ELECTRICAL, ELV & LPS:

- Lighting systems design (internal, external, façade & land scape).
- Lighting control system
- Power systems design (LV power distribution & power for mechanical).
- Earthing & lightning system design.
- Medium voltage network design (MV) & infrastructure design including substations, switchgears, RMUs, cables, preparing schematic diagrams.
- Low current systems (LC) design including:
 - Fire alarm & voice evacuation system design
 - Communication systems (Data, Telephone).
 - CATV, MATV, IPTV systems
 - AV audio video systems (projection & presentation systems)
 - Sound systems (PA public address & back ground music)
 - Conference, voting & interpretation.
 - Nurses call system NC.
 - Closed circuit TV security system (CCTV)
 - Access door system security system (ACS)
 - Intrusion detection system/ security system.
 - Parking management system
 - Queuing system
 - Clock system



Green Building Certification:

- Green Building Certification requirement implementation in both design and construction stages.
- Energy modeling studies & analysis.
- GBCSL requirements.



Design & Analysis Software:

- Carrier HAP (Hourly Analysis Profile).
- AutoCAD MEP.
- AutoCAD.
- Revit.
- Multiple Excel sheets for the calculations
- Mcquay DuctSizer.
- Mcquay PipeSizer.
- Mcquay Psychrometries.
- Dialux for lighting calculations.
- Etab for Voltage drop and short circuit calculations



Codes & Standards:

The following codes are the reference for our designs, for any contradictions between US and UK based standards we refer to the project's local codes basis.

- Local Sri Lankan buildings codes
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).
- ASHRAE Handbook - Fundamentals
- ASHRAE Handbook - HVAC Applications
- ASHRAE Handbook - HVAC Systems & Equipment.
- ASHRAE Handbook - Refrigeration.
- ASHRAE 62 - Ventilation for Acceptable Indoor Air Quality.
- National Fire Protection Agency (NFPA).
- NFPA 10 - Standard for the Installation of Portable Fire Extinguishers.
- NFPA 13 - Standard for the Installation of Sprinkler Systems.
- NFPA 14 - Standard for the Installation of Standpipe and Hose Systems.
- NFPA 20 - Standard for the Installation of Stationary Pumps.
- NFPA 101 - Safety to Life from Fire in Building and structures
- NFPA 90A - Installation of Air Conditioning and Ventilating Systems.
- NFPA 92A - Smoke Control Systems. A
- BS EN 12101-6:2005-Smoke Control Systems



- DW144 - Specification for Sheet Metal Ductwork.
- SMACNA - Standards for Ductworks.
- International Building Codes.
- International Gas Codes.
- Uniform Plumbing Code.
- Plumbing Engineering Services Design Guide.
- IET - Regulations for Electrical Equipment in Buildings.
- NFPA 70 National Electric Code.
- NFPA 99 Healthcare Facilities.
- NFPA 101 Life Safety Codes.
- National Electrical Code (NEC).
- International Electro - technical Commission (IEC).
- British Standards (B.S.).
- ASHRAE HVAC design guide for hospitals.
- The Buildings Lighting Guides issued by the Chartered Institution of Building Services Engineers

- CIBSE - (UK).
- (IET-17th edition) issued by the Institution of Electrical Engineers/ UK. The Regulations for the Electrical Installations of Buildings.
- BS7671: 2008 Requirements for Electrical
- Installations by the Institute of Electrical Engineers, latest edition and its Amendments (IET Wiring Regulations).
- Recommendations of other relevant BS and EU standards; recommendations of IEC, CENELEC, ISO& UL, as referred.
- EIA / TIA Telecommunications Standards
- NFPA 72 (National Fire Protection
- Authority regulations. for Fire Detection and Alarm systems.

Our Experience:

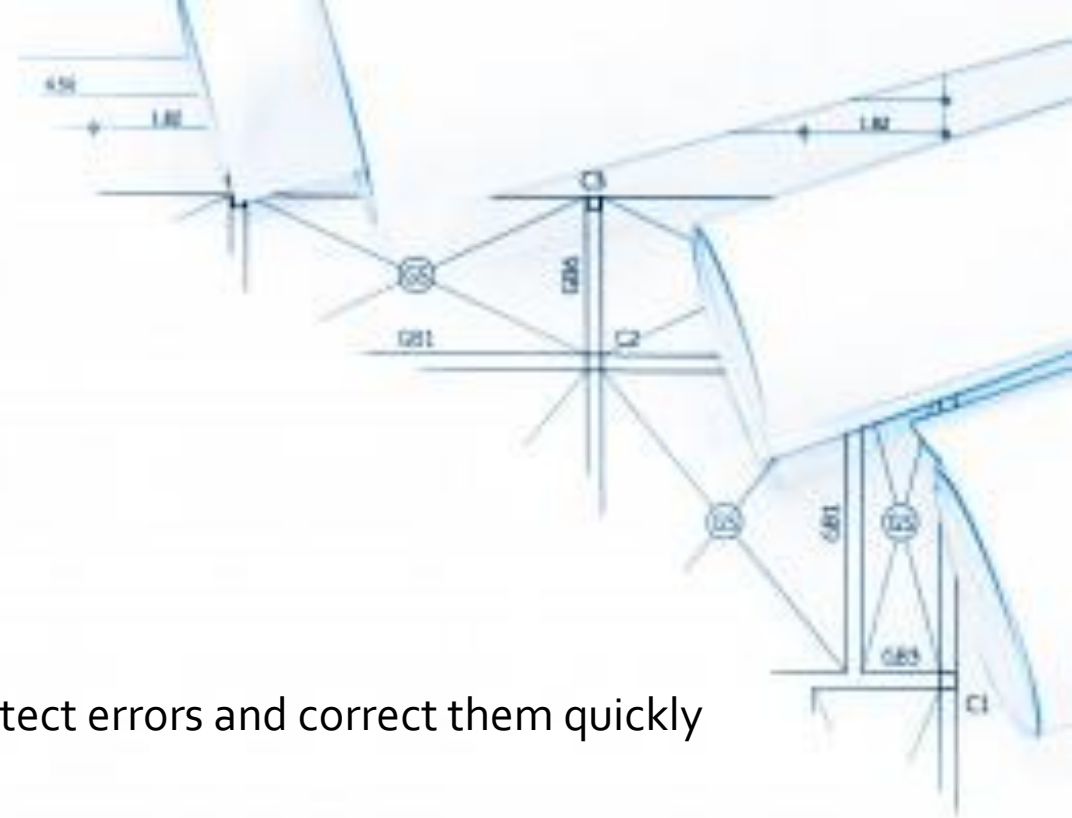
- Office buildings
- Educational buildings.
- Transportation buildings such as airports and Stations.
- Health Care facilities.

- Hotels and Villas.
- Residential buildings.
- Commercial buildings.
- Industrial buildings.



Quality Control Process (QC):

The main objective of the quality control (QC) process is to detect errors and correct them quickly and efficiently as possible.



Key persons:

Chaminda G Pathirana (MSc, BEng, MIET, MASHRAE, Green AP)

Sr MEP Engineer/Manager

- 18+ Years of construction experience professional with practical and design experience, and solid understanding of MEP application.
- Demonstrated calibre ability of MEP Engineering and awareness of latest construction standards and codes.
- High calibre presentation, self-motivated negotiation and closing skills, decision making.

Mohan Manjula (BEng, MIET)

Sr Electrical Engineer

- Works as a senior electrical engineer, Trainer and as a green building specialist and during my 15 years of experience I developed a vast knowledge in sustainable building, projects management, electrical engineering design, processes and systems controlling the assist of maintenance and up-dating electrical specifications.

General Information:

- MEP Design and Consultancy Services is register in Sri Lanka business registration Act under No. (WA 208876)

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