

# ENVIRON

PRIVATE LIMITED

## CORPORATE PROFILE

[www.viron-sl.com](http://www.viron-sl.com)

*“Green is more than just a colour, it is a philosophy”*

At Environ, sustainable engineering and design go beyond reducing carbon footprints. It is about easing the environmental impact of living structures, it is about producing tangible economic and social benefits. It is about pushing boundaries in innovation and across built environments to positively enhance our ecosystem.

It is about sustainability being at the heart of everything we do.

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# ABOUT US

**Environ (Pvt) Ltd.** is the result of a passionate group of interdisciplinary engineers working closely with stakeholders to analyze, plan, design and develop built environments with optimized structural performance, longevity and minimum environmental impact. Headquartered in Sri Lanka, we are progressively expanding and exploring the tremendous opportunity to advance in our proficiency across the South Asian region.

The company's focus since our inception in 2010 has remained on working closely with those who share our vision for sustainable, holistic environments and a greener culture. Our outlook is comprehensive to include ecological, economical and social sustainability that goes beyond reducing maintenance cycles and energy consumption.

We support the rapidly increasing investment in sustainable buildings and communities, creating built environments that promise to enhance occupant comfort and retention, as well as the long-term business success of all stakeholders.



We are adept to guide clients in informed and intelligent decision-making, to align their business vision with internationally recognized sustainability indicators in construction. Merging creativity with technical prowess, we aspire to design spaces and structures that elevate the function and flow of modern living. At Environ, we incorporate energy efficient and sustainable building technologies across all our projects; from daylight and rainwater harvesting to radiant heating and cooling, as well as renewable energy systems.

Our success is attributed to our ability to be highly responsive and adaptable not only to our client needs, but also to regulations, local practices and external challenges, delivering on our promise of a personalized, sustainable solution.

We are committed to providing stakeholders with knowledge, expertise and guidance to make a difference in their homes, offices, across their operations and their industries. Through this commitment, we have delivered many certified and lauded sustainable structures and green buildings with engineering expertise that is second to none.

## PARTNER:



### **CLEF Consultants**

Sri Lanka's foremost progressive engineering consultancy with integrated design expertise.



In order to empower our stakeholders to create greater business value and achieve performance excellence through people, planet and profit, Environ's operational framework is threefold:

## PEOPLE



### **Social Sustainability**

We deliver solutions that provide healthier spaces for people. We drive thought leadership across the industry through the dissemination of knowledge and pragmatic solutions, while seeking to continuously improve engineering expertise across the construction industry and related verticals.

## PLANET



### **Ecological Sustainability**

We develop solutions that improve the overall environmental performance of each project we take on, delivering outcomes that reduce greenhouse gas emissions, energy and water consumption, natural resource depletion, waste and pollution, with the overarching objective of enhancing biodiversity.

## PROFIT



### **Economical Sustainability**

We embed sustainability principles, thoughts and actions into everything we do, ensuring that our projects enable people to enjoy a high quality of life through measurable, short and long-term targets that help achieve optimized resource utilization and savings.

# THE ENVIRON ETHOS

We are guided by our principles to create fully integrated ecosystems that enhance living structures from design through construction. Our work ethic and focus have been formulated with a clear goal to progress rapidly in the direction of achieving our overarching vision and sustainable objectives.

## OUR VISION

To become the leading, truly sustainable engineering and design solutions provider to diverse built environments across the region.

## OUR MISSION

To provide clients with sustainable engineering solutions that produce a perfectly balanced ecosystem of people, planet and profit.

## OUR VALUES

### **Responsible**

We understand the important role we play in our industry, and responsibly adhere to regulatory restrictions, while merging best practices with the latest engineering technologies.

### **Committed**

We integrate sustainable designs, processes and initiatives through value-added engineering, ensuring all plans and designs are within the timeframe and budget agreed upon.

### **Encouraging**

We share our learnings and expertise to challenge conventional assumptions, preconceived ideas, and to endorse and encourage lateral and pragmatic thinking.

### **Supportive**

We create dialogue between all key stakeholders of each project, especially between ourselves and our client to ensure uninterrupted cooperation and understanding.

### **Quality Conscious**

We adhere to the highest, internationally recognized quality benchmarks, continuously monitoring and improving upon our designs and construction.

# OUR PROJECTS

All projects taken on by Environ are approached by the potential impact that we can make together with our stakeholders across their operational and functional ecosystem. We express our ideas and share our expertise in order to create a highly collaborative environment that result in the best sustainable engineering solution for each project. The below portfolio is testament to the fact that our reputation is built on this foundation of transparent client servicing and unmatched technical prowess.



## BRANDIX APPAREL LIMITED

**LEED® Platinum Certified for New Construction**

**Location:** Batticaloa, Sri Lanka

**Manufacturing Facility**

The facility scored full points in the areas of water and energy efficiency, and was also highly commended for alternative transportation options, optimized energy performance, recycled content and innovative design.



# NANOTECHNOLOGY CENTRE OF EXCELLENCE

**LEED® Platinum certified for New Construction**

**Location:** Homagama, Sri Lanka

## **Testing Laboratory**

This modern Sri Lankan research institute was designed to complement its specialized field of nanotechnology, all the while co-existing within a 50-acre park of lush, tranquil land, the ideal space that promotes creative and innovative thinking to researchers and academics.



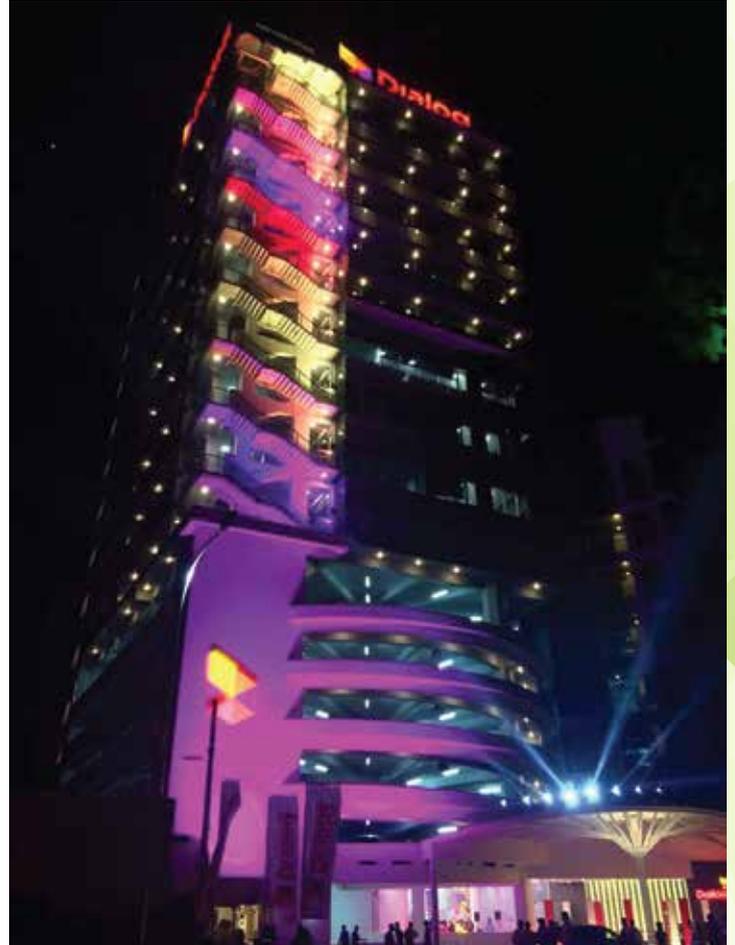
# **DIALOG AXIATA PLC CORPORATE HEAD OFFICE**

**LEED® Gold certified for New Construction**

**Location:** Colombo, Sri Lanka

**Head Office Complex**

The office complex for Sri Lanka's leading telecommunications services provider was built to align with the client's energy efficiency practices, functioning as a sustainable, green building inclusive of a cutting-edge solar system.



# WORLD BANK OFFICES

Platinum Rating for Green Mark  
Healthier Workplaces 2018 -  
Envisaged

Location: Colombo, Sri Lanka  
Regional Bank Branch Office



# HATTION NATIONAL BANK PLC - REGIONAL HEAD OFFICE

**LEED® Gold certified for New Construction**

**Location:** Jaffna, Sri Lanka

**Regional Head Office Complex**

A breakthrough project in sustainable engineering and design, this was the first green building to be built in Jaffna. We completely integrated not only the surrounding environment, but along with it the patterns, the lighting, the ambiance as well as the culture of the region.



# CINNAMON BEY RESORT

**LEED® Gold certified for New Construction**

**Location:** Beruwala, Sri Lanka

**Five-Star Resort Hotel**

A resort project located on Sri Lanka's much-loved southern coastline, the consultancy enhanced vast open spaces to complement the bordering Indian Ocean, the turquoise waters and the sun-kissed sandy beach.



A strategic business unit of Soorty Enterprises Pvt. Ltd., Pakistan's largest vertically integrated denim manufacturer. The building was designed to minimise passive heat gain, with individually controlled thermal comfort systems and design features to ensure the highest comfort levels for employees.





**LEED® Gold certified for New Construction**

**Location:** Gazipur, Bangladesh

**Manufacturing Facility**

The facility was highly commended for alternative transportation access and parking, as well as site habitat restoration and water efficiency.



# SANJEEWAKA AYURVEDIC PRODUCTS PVT. LTD.

LEED® Gold certified for New Construction

Location: Veyangoda, Sri Lanka

Manufacturing Facility

The new factory premises of one of the leading ayurvedic cosmetic brands in Sri Lanka. The facility optimized natural lighting, and was built to exemplify energy and most significantly, water efficiency.



# SOORTY GREEN FACTORY - UNIT 13

**LEED® Platinum certified for New Construction**

**Location:** Nooriabad, Pakistan

## **Manufacturing Facility**

As Pakistan's largest vertically integrated denim manufacturer, Soorty Enterprises Pvt. Ltd. set a benchmark for the country's manufacturing industry by investing in the sustainable, highly energy and water efficient construction of the Soorty Green Factory - Unit 13 as part of their 'Green Future' initiative. The facility also scored full points for innovation in design.





## **GREEN HORIZON ENTERPRISES**

**BREEAM® Pass certified for  
New Construction**

**Location: Mulleriyawa, Sri Lanka  
Stores and Office Complex**

Green Horizon's new stores and office complex reflects the company's position as one of Sri Lanka's leading suppliers of the finest quality Ceylon Tea, scoring well through excellent construction management, responsible sourcing, good consideration of energy use and management, as well as employee health and wellbeing.



## **RCM TECHNOLOGY CENTRE**

**LEED® Platinum certified for New Construction**

**Location: Ja-Ela, Sri Lanka  
Manufacturing Laboratory**

The RCM (Reliability-Centered Maintenance) building for the Central Engineering Division of Camso Loadstar (Pvt) Ltd was optimized for energy and other alternative efficiencies when constructed.



 **EPYLLION KNITWEARS LIMITED - HW UNIT**

**LEED® Gold for New Construction - Envisaged**

**Location:** Narayanganj, Bangladesh

**Manufacturing Facility**



 **VENTURE TEA PVT. LTD.**

**LEED® Platinum for New Construction - Envisaged**

**BREEAM® Gold for International**

**New Construction - Envisaged**

**Location:** Angoda, Sri Lanka

**Warehouse and Office Complex**





## DENIMKIND SOORTY SUSTAINABLE FACTORY

LEED® Platinum for New Construction - Certified

Location: Karachi, Pakistan  
Manufacturing Facility



## BANK OF CEYLON - GALEWELA BRANCH

GREEN<sup>SL</sup>® Gold for Government Constructions  
under Green Building Rating System - Envisaged

Location: Galewela, Sri Lanka  
Bank Branch Office



For a comprehensive list of projects carried out by **Environ**, please visit [www.environ-sl.com](http://www.environ-sl.com) or email [info@environ-sl.com](mailto:info@environ-sl.com)

# OUR TEAM

We are led by a team of experts with decades of collective industry knowledge, global exposure and extensive experience in implementing international green building rating systems.

Our team shares a vision for a highly advanced and sustainable future, and has come together for one common purpose; to engineer a greener construction ecosystem.



## **Eng. Keerthi Ratnayake – Chartered Engineer**

Managing Director / Sustainability Consultant

BSc(Eng)Hons, MEng, CEng, MIE(SL), MSSE(SL), MASHRAE, LEED AP(BD+C), BREEAM Licensed Assessor, GREEN<sup>SL</sup>® AccP(GBCSL)

A leading consulting engineer in Sri Lanka, Keerthi is the Managing Director of Environ, and the visionary of our leadership team. With a Civil Engineering degree from the University of Moratuwa, Sri Lanka in 1997, Keerthi went on to acquire Chartered status in Engineering (CEng) in 2004, followed by his Master of Engineering degree in 2009.

A LEED® Accredited Professional, a BREEAM® Licensed Assessor (International Scheme) and a GBCSL Accredited Professional, Keerthi followed several courses and studies in civil, environment and energy engineering across the globe.



## **Eng. Dr. Rahula Attalage - Chartered Engineer**

Director / Green Philosopher / Energy Specialist

PhD, DEA, MEng, BSc(Eng)Hons, CEng, MIE(SL), MASHRAE, Professor of Mechanical Engineering

Drawing from over 35 years of global experience in the discipline of mechanical engineering, Rahula is our in-house energy and MEP expert for sustainable projects. Having passed out from the University of Moratuwa, Sri Lanka in 1982 with a BSc in mechanical engineering, he went on to read for his Masters in Engineering at the Asian Institute of Technology, Thailand, followed by a DEA and PhD from Ecole des Mines de Paris, France in 1988 and 1992 respectively.

Gaining experience from global engineering super centres such as France and Japan, Rahula returned to Sri Lanka to explore the engineering potential of the local industry landscape, while offering his services as a Professor in mechanical engineering at the University of Moratuwa. He went on to hold strategic and advisory positions on private and national boards and councils; taking on the roles of Chairman of the National Institute of Fisheries and Nautical Engineering from 2004 – 2005, Commissioner at the Public Utilities Commission of Sri Lanka since 2009, Board Member of the Sri Lanka Energy Managers Association and Executive Committee Member of Lanka Association of Building Services Engineers.

Rahula was involved in the design and implementation of the globally acclaimed green construction project carried out by Sri Lanka's leading apparel and textile manufacturer MAS Holdings, the iconic 'Thurulie' eco-manufacturing facility in Thulhiriya, Sri Lanka. The project went on to win the coveted Globe Award for Sustainability Innovation at the Globe Awards 2010 in Stockholm, Sweden.



## **Eng. Melanie Thilakaratne**

Civil / Environmental Manager

BSc(Eng)Hons, AMIE(SL), LEED AP(BD+C), GREEN<sup>SL</sup>® AccP(GBCSL), AMSSE(SL)

A graduate of the University of Moratuwa in Engineering, Melanie draws from almost a decade of experience in the local engineering industry. Having developed a passion for eco-friendly construction practices from the start of her career, Melanie began her specialized journey in environmental and sustainable engineering when she joined Environ Sustainability Globe as one of the company's founding team in 2010.

An Associate Professional of the Green Building Council of Sri Lanka, Melanie has been part of numerous LEED® Platinum and Gold certified projects during her tenure at Environ. She continues her research on the latest and most pragmatic global trends in sustainable engineering, applying her skill and knowledge to integrate favourable practices into all Environ projects.



## **Eng. Akila Manathunga**

Energy Specialist

BSc(Eng)Hons, AMIE(SL), AMSSE(SL)

A graduate in Engineering from the University of Moratuwa, Akila gained exposure in his area of expertise as part of several iconic projects including the LEED® Platinum Certified Brandix Apparel Limited Building, and the LEED® Platinum Certified Denimkid Soorty Sustainable Factory Building.

Akila in his capacity as an Energy Specialist at Environ is involved in energy modelling for LEED® and BREEAM® certifications.

## **Civil / Environmental Engineers**

Eng. Janaka Dayaratne BSc(Eng)Hons, AMIE(SL), AMSSE(SL)

Eng. Sumedha Chandrasiri BSc(Eng)Hons, AMIE(SL), AMSSE(SL)

## **Asst. Civil / Environmental Engineer**

Nathali Chandrasekara BEng (Hons)

## **Asst. Electrical Engineers**

Poorna Akalanka BSc(Eng)Hons

Samidu Perera BSc(Eng)Hons

## **Technical Officer / Draughtsman**

Manosha Kadupitige NCT(Civil)

## **Executives - Accounts & Administration**

Bashini Makavita (AAT)

Neloufer Fernando

Sasindu Ratnayake

## **MEP Engineers**

Eng. Viraj Nimarshana BSc(Eng)Hons, MSc

Eng. Rasika Gamage (Consultant) BSc(Eng)Hons, Chartered Engineer, MIE(SL), MBA (in MOT), MSLEMA

Eng. Priyantha Balapitiya (Consultant) BSc(Eng)Hons, PG Dip(Building Services Eng), Chartered Mechanical Engineer

Eng. Kapila Epa BSc (Eng) Hons, Chartered Mechanical Engineer, MIE(SL), MSLEMA

# OUR CONSULTING SERVICES

## **LEED® Certification - U.S. Green Building Council (USGBC)**

Environ has extensive experience in implementing LEED® (Leadership in Energy and Environmental Design), the most widely accepted green building rating system in the world. LEED® provides a framework to create highly efficient and cost-saving green buildings, and is a globally recognized symbol of sustainability achievement developed by the USGBC, of which Environ is a proud member of.

## **BREEAM® Certification - Building Research Establishment (BRE)**

BREEAM® (Building Research Establishment Environmental Assessment Method), first published by BRE in 1990, is the world's longest established method of assessing, rating and certifying the sustainability of individual buildings, communities and infrastructure projects. Environ is a BRE Global Licensed Organization with extensive experience in implementing and consulting for BREEAM® Certifications.

## **GBCSL Certification - Green Building Council of Sri Lanka (GBCSL)**

GBCSL is the sole representative member of the World Green Building Council in the country committed to developing Sri Lanka's sustainable property industry by encouraging the adoption of green building practices. Of the GBCSL's spectrum of services, Environ offers consultation services to clients in obtaining the highly recognized and valued GREENSL® Rating of Buildings for constructions in Sri Lanka.

## **Blue Green Sri Lanka Certification - Urban Development Authority (UDA) of Sri Lanka**

Issued by UDA, this green building rating is a mandatory certification for all government and semi government buildings constructed in Sri Lanka, and may also be implemented for private sector buildings in the future. The certification validates buildings as being more efficient in terms of energy consumption and sustainability.

## **BCA Green Mark - Building and Construction Authority (BCA) of Singapore**

The BCA Green Mark Scheme is an internationally recognized certification designed by the BCA of Singapore to evaluate a building's environmental impact and performance, and promote sustainable design and best practices in construction and operations for both new and existing buildings.

## **Engineering Design**

We take an innovative yet pragmatic approach to sustainable engineering design, based on a comprehensive view of a project's mechanical, civil and structural engineering aspects thanks to our expert team engineers. This is followed by providing conceptual advice, design reviews, sustainable guidelines, building assessments, post-occupancy services and project-specific cost analysis, all carried out on a highly transparent and open platform.

## **Energy Audits**

Environ promotes energy efficiency across the entire energy infrastructure of your project, during planning and construction, to lifetime energy consumption. Backed by our qualified and experienced energy auditors and consultants, we provide walk-through to detailed energy audits, outlining a range of energy improvement measures and carbon reductions, proposing energy saving practices, and reducing the overall energy consumption of your project.

### **Building Commissioning**

We provide both new and existing building commissioning, ensuring the owner's project requirements are understood and met within time constraints and budget. Our perfected commissioning process accomplishes higher energy efficiency, improves occupant health and safety, with lower operational and maintenance costs. During commissioning, we formalize the review of the overall project from planning to occupancy through inspections and functional performance testing.

### **Renewable Energy Consultancy**

Environ provides strategic support and expert technical advice for renewable energy projects across a spectrum of zero carbon technologies, with strong emphasis on mini-hydro and solar, as well as energy storage. Ranging from utility-scale to domestic, we undertake feasibility studies and risk analysis, assessing and identifying the long-term benefits of moving forward with investment in renewable energy sources.

### **Energy & Daylight Simulation**

The expert team at Environ evaluates alternative energy-saving solutions for sustainable construction of new and existing buildings, taking into account the complex interaction of building components and natural elements. We use the latest energy analysis software to create energy models, while integrating innovative techniques of daylighting into buildings to reduce energy consumption and enhance and elevate the visual built environment.

### **Our service offerings cover a range of sectors:**

- Industrial
- Commercial
- Hospitality
- Residential
- Religious
- Healthcare
- Institutional
- Civic, Communal & Public Utility



# GREEN CERTIFICATION CONSULTANCY

Environ is proud to have extensive experience implementing LEED®, GBCSL, BREEAM®, Blue Green Sri Lanka and BCA Green Mark green building rating systems. Our team will guide you to successfully and most effectively score from these locally and internationally acclaimed rating systems through specialized LEED®, GBCSL and BREEAM® consultations and project management.

## LEED®, GBCSL, BREEAM®, Blue Green Sri Lanka and BCA Green Mark certification services offered by Environ include:

### Strategic Planning

Environ identifies measurable goals and processes to realize a sustainable vision for client organizations. Clear objectives and design strategies will guide this building process.

### Eco-charrette Facilitation

Charettes are facilitated by environ to create a collaborative brainstorming session among all stakeholders of the project, to understand and aspire to reach each potential certification credit, as well as to define and scope design strategies, benefits, challenges and budgeting.

These comprehensive and intensive planning meetings mostly result in agreed upon project goals as well as a project-specific vision and/or mission statement. These goals are documented as a detailed list of credits, along with the design strategies and team responsibilities to bring them into fruition.

### Information and Task Management System

An all-inclusive report is generated by the ESGITMS (Environ Sustainability Global Information and Task Management System). It includes information on credit design strategies, submission requirements, team member tasks, critical path and cost analysis.

### Construction Documents

Regulatory requirements are seamlessly incorporated into your project cycle, drawings and specifications by Environ through continued collaboration, discussion and information exchanging with relevant project stakeholders such as architects, design teams and engineers.

### LEED® Rating



LEED® is the most widely used green building rating system in the world, with a framework to create healthy, highly efficient and cost-saving green buildings.

Environ is a proud member of the USGBC.

### GBCSL Rating



The GBCSL, the sole representative member of the World Green Building Council in the country, is a consensus-based non-profit organization committed to developing the sustainable property industry of Sri Lanka.

### BREEAM® Rating



BREEAM®, first published in 1990, is the world's longest established method of assessing, rating and certifying the sustainability of buildings. Environ is a BRE Global

Licensed Assessor Company.

### Blue Green Sri Lanka Certification Rating

Mandatory certification for all government and semi government buildings constructed in Sri Lanka, with potential to be implemented for private sector buildings in the future.

### BCA Green Mark



An internationally recognized certification from Singapore to evaluate the environmental impact and performance of, and promote sustainable design and best practices for, both new and existing buildings.

### **Documentation, Submittal and Review**

The comprehensive documentation required by the certification agency or authoritative body for credits and rating can be handled completely by Environ's expert team of consultants, organizing and delivering the submittal documents as per regulatory requirements.

### **Energy Modeling and Commissioning**

Environ's baseline energy model ascertains and defines opportunities for energy efficiency of the building according to Lighting and HVAC guidelines, automated building control systems as well as renewable energy sources.

### **Cost-Benefit Analysis**

Environ utilizes a cost analysis tool to display a full breakdown of the certification costs sorted by priority, certification target or expense.



### **Auxiliary Services**

Environ also offers services and solutions that helps clients envision and implement sustainable design beyond LEED®, GBCSL and BREEAM® defined requirements, such as:

- Zero-net energy
- Carbon neutrality
- Recycling

# CORPORATE SOCIAL RESPONSIBILITY

While the focus at Environ remains anchored in creating a sustainable future, as a corporate entity we are also bound by our responsibility to our people, our clients, the projects and the communities we work in.

Our corporate social responsibility (CSR) strategy is simple; to ensure that everyone who works with us benefits from our sustainable expertise.

We have a responsibility through the work we do, from the way we engineer a building to the way it looks, from the ecological to the social impact it makes. We actively seek out community projects that we can contribute towards, allowing us to grow as an inclusive business. We empower our clients by providing innovative and economical solutions that reduce operating expenses through resource optimization, delivering improved efficiencies to ensure corporate as well as financial returns on investment.

Internally too, we create opportunities for our team to enhance their knowledge and careers, and explore their truest potential, keeping pace with a rapidly progressing society.

We are also focused on a future where renewable energy and water systems are advanced and affordable, and communities and businesses can thrive in a connected, nurturing ecosystem. We are persistently working towards realizing this vision by building upon common goals and a culture of sustainability.

## Listed as Training Center by the Institution of Engineers, Sri Lanka



Recognized by the Institution of Engineers, Sri Lanka (IESL) – the main and most prestigious engineering body in the country – as a professionally qualified training center for graduate engineers and associate members to obtain their charter.

## **PARTNER:**

### **CLEF Consultants Pvt. Ltd.**



Sri Lanka's foremost progressive engineering consultancy with integrated design expertise, powered by a collective of civil and structural engineers, consultants, project managers and technical specialists, working towards revolutionizing all aspects of today's built environment.

# CONNECT WITH US

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# ENVIRON



Member of the  
U.S. Green Building  
Council



Licensed  
Organization of  
BRE Global



Member of the  
International Federation of  
Consulting Engineers