LEAD Consultancy and Engineering Services (India) Pvt Ltd

SUSTAINABLE DESIGNS EVERLASTING LEGACY

WHO WE ARE

Established in the year 2008, LEAD is today a Pioneer, Trendsetter and Innovator by virtue of our contributions and achievements over a decade.

SERVICES OFFERED

Complete MEP design and Green Building consultancy services under one roof.

OUR ACHIEVEMENTS

- Building foot print: "240 Million Sq.ft"
- Number of partnering clientele: 300+
- Number of completed projects: 600+
- Clients from: MNC’S, Indian Corporate, Developers, Architects, PMC’S & Government Organization.
- Building Type’s: Commercial offices, IT, Retail, Factories, Residential, Hospitals, Hotels, Data centers, Airports & Metro rail.
- Team Size: 95
- Offices: Bengaluru (Principal Office), Gurugram, Mumbai, Hyderabad, Chennai, Kolkata, Pune & Bangladesh

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VISION

"Become and be the most respected sustainable design consultancy company for our clients and employees. Leave an everlasting legacy through our sustainable design foot prints for generations to come."

MISSION

- Return on Investment (ROI) based approach for all projects to ensure the value based service to all our customers.
- Bring best practices, Create bench mark and implement technologies which exceeds the international standards which benefits the customer
- Take care of all our people by providing continuous growth opportunity and best perks above Industry Standards
- Retain all our clients and make them our Business-partners by our response, quality and timely delivery

VALUE

- Have business dealings conducted with the highest standards of honesty, integrity, competence, and objectivity.
- We will not accept any commissions, remuneration, or other benefits from any third party in connection with the recommendations to our client.
- Respect the individual's responsibility for balancing personal and professional life
- Commit to personal growth within a stable, rewarding & friendly working environment
- Seek opportunities to work for worthy causes within our communities
JOURNEY OF LEAD SINCE ITS INCEPTION IN THE YEAR 2008

LEAD Consultancy And Engineering Services (India) Pvt. Ltd was established in the year 2008. With a client base of Who is Who, spread across the world, and our comprehensive and complete expertise in MEP Design and Green Building consultancy services, LEAD is now providing Smart Building solutions as a Master System Integrator (MSI). As we march forward in our journey to create sustainable designs that leave an everlasting legacy in the world, we at LEAD, promise and dedicate ourselves to deliver the very best possible design solutions for the benefit of the occupants bringing out maximum sustainability, operational efficiency in their built environment for the entire building lifespan.

Building Foot Print:
240 Million sq.ft thus far
MEP DESIGN APPROACH:

“We give life to your building by providing Energy, Water & Safety”

Our MEP design Philosophy is “Lowest Operational Cost (OPEX) through Least Capital Investment and sustenance”.

We understand your business needs and optimize the complete MEP network in the building through proper engineering co ordination under one roof. This reduces the maintenance hassle, optimize your capital investment & Operational expenditure.

We do the MEP system selection through internationally recognised software’s to arrive at the right system sizing and to measure the annual energy impact to make our final recommendation based on Return on Investment analysis (ROI).

HVAC ENGINEERING DESIGN:

“Your weather will follow, wherever you go”

We provide you with the right cooling system design for your space which can save energy and meet your human comfort & safety.

Our expert team can design any type of Heating, Ventilation & Air Conditioning (HVAC) System from very large central plant to smaller VRF system and that includes the systems for Data Center, IT commercial buildings, Retail, Schools, Residential, Hotel, Pharma, factories, Hospital buildings and plan level system development.

Our HVAC team is always aware and on top of the latest developments in the field through active participation in a variety of professional organisation includes ASHRAE/ECBC/ASME/ISHRA/IGBC/USGBC/NBC/NABH. Our team ensures that our design is in compliance with international/local standards, as required for the project.

Preparation of BOQ, Tender specifications and detailed AutoCAD HVAC design drawings that are good for Construction (GFC) level of detail.

Critical HVAC System design for Data Center (Green Data Center Design) of any size and density, Clean / Switch Room Applications in compliance with Tier (Uptime Certification) /ASHRAE/ECBC/NBC/Local Standards.

HVAC system design includes Sizing the Chiller plant and ancillary equipment through internationally recognized software like HAP, Visual DOE & performing annual energy analysis to arrive suitable RO to select right system sizing and achieve high performance in the installed system. The design scope also includes:

- Large Centralized Combined Cooling & Heating Water Plant (CCHP)
- Passive Air Conditioning system
- Chilled beam/ Radiant cooling system/Radiant panels
- Geothermal/ Renewable Energy cooling system design solution to achieve high performance towards" Net Zero Building" design
ELECTRICAL ENGINEERING DESIGN

“Electrical safety leads to fire safety”

Our expert team can design Electrical system for any size of IT commercial buildings, Residential, Retail, Hotel, Pharma, factories and Hospital buildings in compliance with IESNA / ASHRAE / ECBC / NBC / IGBC / US GBC / Local Standards.

Preparation of BOQ, Tender specifications and detailed AUTO CADD Electrical design drawings that are good for construction.

Critical Electrical System design for Data Center (Green Data Center Design) of any size and density, Clean / Switch Room Applications in compliance with Tier (Uptime Certification) / ASHRAE / ECBC / NBC / Local Standards.

Large Electrical substation system design up to (220kV) includes sizing & selection of electrical equipment such as Power substation system design up to (220kV) & distribution systems like Transformers, RMV, DG Sets, UPS, HT & LT Switchgear. Preparation of load flow, short circuit, Voltage drop analysis. Coordination, discrimination study on the earthing system & lightning protection. The design scope also includes;

- Lighting Design & Simulation through software
- HT / LT Distribution Net work
- EHT Switch Yard & Transformer Substation up 220 KV
- Low Voltage System design includes Telecommunication system & Network, Security & CCTV Surveillance system and Access Control design

PUBLIC HEALTH ENGINEERING DESIGN:

“Save Water to Save Life on Earth”

Our Plumbing Engineers are well aware that Water and Energy are used efficiently to make your building overall sustainable.

Our expert team can design complete Plumbing system for any type of building in compliance with international code/uniform plumbing code (UPC)/ NBC / IGBC / US GBC as applicable and provide the following design:

- Water supply system like storing, treatment and Distribution.
- Sewerage Treatment Plant system like collection, treatment, reuse and disposal
- Effluent Treatment Plant (ETP) like collection, treatment, reuse and disposal
- Rain water harvesting systems – Collect & reuse, recharging and deep recharging etc.
- Solid Waste management systems including all types of composters and Bio Gas plant etc.

Preparation of BOQ, Technical specifications and detailed drawings in Cadd or BIM as per the project requirement.

Designing of Sewage treatment plant sizes from several MLD’s (million litres per day) to 1 KLD (kilo litre per day) for your individual home.
Designing of Water distribution systems by the Hydro-pneumatic system, Gravity System, and Hybrid systems, as per the project requirement with economy and ease of maintenance.

Automation of pumping arrangements to suit to project requirement. Designing of Hot Water generation by using solar, electrical heat pumps, diesel and other fuels.

Water distribution, drainage system and storm water management system for large campuses is designed with centralized treatment plant & pumping stations. Water leak detection & Rodent repellent system for the specific area.

**FIRE DETECTION & LIFE SAFETY DESIGN:**

“Know fire safety, no pain & no fire safety, know pain”

Our expert team can design complete fire protection & detection system design as per local authority regulations, NBC, NFPA & FM global standards, IS code requirements with pumps, sprinklers, flow switches, hydrants (internal & external), fire detection & alarm, public address system. The systems are also designed as per NFPA, UL & FM standards based on project requirement.

The design of pre-action water mist & water curtain system as per NFPA-13, fire/smoke curtains as per NBC, fire detection & alarm system, aspiration detection system for highly sensitive areas as per NFPA & EN codes as applicable. Design & Integration with building management system.

Gas based suppression system using Inergen (50, 200 & 300bar systems), FM-200, Novec-1230 for high-risk areas like large data rooms, server halls as per NFPA 2001. Aerosol suppression system for UPS & battery rooms as per NFPA 2010. Local flooding type gas suppression system for electrical panels. The design of conventional, digital & hybrid public address system with or without background music & general announcements as per IS & EN guidelines.

**BIM / REVIT – 3D MEP DESIGN:**

“The future belongs to the integrators”

We can use Revit MEP to create 3D modelling environment. In this environment, our team can visualize, check the complex systems to avoid conflicts within MEP design and with other building systems.

There are clear benefits of applying the BIM process into the design such as precise multi-disciplinary coordination, continuous transparency through the design as well as early clash detection. This helps us produce more consistent quality drawings and hugely benefits the construction team by giving more design clarity as a result construction time & money saved.

**CREATION OF DIGITAL TWIN (OPERATIONAL BIM):**

The operational BIM model shall be created using BIM model. The same Model will be used for commissioning on the entire building systems and handing over to the operation team with highest operational efficiency without losing design intent.
1) GREEN FACILITAION FOR USGBC, IGBC, GRIHA, WELL, EDGE, PEER & PARKSMART RATING

Facilitate to obtain a green certification for project under the relevant green rating program. Value additions carried out by proper understanding & analysis of the project design in order to reduce the CAPX & OPEX of the project. Handhold and support the project team throughout the project period to get the appropriate rating for the project.

2. ENERGY AND LIGHTING SIMULATION

Conducting energy simulations as per prescribed standards to meet the mandatory requirements and credits under different rating systems. We also provide support for design decisions by simulating various options, thereby testing the best performing strategy.

3. THIRD PARTY BUILDING COMMISSIONING

- Fundamental building system commissioning to meet LEED norms
- Enhanced commissioning to meet LEED norms
- Comprehensive building system commissioning to enhance building performance
4. GREEN-CO RATING FOR EXISTING FACTORIES

Provide technical assistance to the factory units in the form of training, documentation and co-ordination with council to obtain required level of green rating for the factory unit.

5. CARBON FOOTPRINT STUDY

Help industries to understand the emission, both direct & indirect emission levels and suggest opportunities to reduce carbon footprint.

6. SUSTAINABILITY REPORTING

Sustainability reporting equips companies to consider their impacts of wide range of sustainability issues which includes social and environmental, enabling them to optimize efficiency and use of natural resources.

GREEN RATING SERVICES OFFERED
CG Krishnan,
M.E (Mechanical)
Managing Director
LEED- Accredited Professional
Certified Energy Auditor by Bureau of Energy Efficiency (BEE), India
Member of ASHRAE, USA

Mr. Krishnan’s fascination & passion for technology & entrepreneurship is very well reflected in his pursuit for engineering at an academic & professional level, and his move to the setting up of LEAD, an entrepreneurial venture. He has done his post graduation with specialization in Refrigeration & Air conditioning with a work experience spanning over 27 years in the field of HVAC, Energy and Green Buildings. During this span, he has also worked as an HVAC consultant on several projects for diverse clients from IT sector companies, Residential Buildings, Commercial Complexes, Data centers, Factories, Public Buildings, Hotels, Hospitals, Malls, and educational institutions.

Along with providing Energy Modeling & lighting simulation solutions to various types of commercial & Industrial buildings, he has gained expertise in Energy Modeling & Lighting Simulation after undergoing advanced energy modeling training at Architectural Energy Corporation (AEC), USA, using internationally recognized Software’s like Visual DOE – 4.1 (DOE 2.1 Engine), Ecotect & Radiance software for lighting Simulation. Additionally, Mr. Krishnan is also involved with various green building projects across the country and has written several articles for various international magazines.

“I’ve always felt that the time gap between a technology’s implementation on a global front and its implementation in an Indian context has been huge. It is my desire and endeavor to bridge the time gap and bring the same to our market ASAP. As part of this desire & endeavor, I keep myself updated & equipped through various programs on the latest and best technological advancements in my areas of experience and expertise-HVAC, Green Building Rating program, Energy Modeling, Lighting simulation. After the shift from Stone Age to Industrial Age, we are entering an era wherein knowledge and ideas create a strong foundation. I keep myself streamlined in order to maximize my outcomes in my areas of expertise to make a difference to the world we live in.”

— Krishnan CG
M. Selvarasu
B.E(Electrical), MBA
Managing Director
LEED fellow 2015, IGBC Fellow 2016 & USGBC LEED Faculty

Mr. M.Selvarasu has been honored with LEED Fellowship by the USGBC in the year 2015 and Fellowship by IGBC in the year 2016 for his accomplishments in the field of sustainability over 28 years.

He has facilitated more than 700 projects, achieving green ratings of different levels and currently handling more than 200 projects across the globe for the green rating.

During the 30 years of work experience in the area of Energy Management and Green buildings, Mr. Selvarasu was instrumental in facilitating several green buildings across the globe. He has played a key role in indigenizing the LEED rating system of USGBC (United States Green Building Council) to suit the Indian context and has formed LEED India rating system under IGBC (Indian Green Building Council). During his association with IGBC, he was actively involved in various initiatives of WGBC (World Green Building Council).

Apart from being a recipient of various National level Awards for his contribution to Green Industry, he has also written articles in several international magazines and presented papers in various international conferences across the globe.

“Make this world a little better because we came into it.”

A small sentence with few words but an enormous impact on my mind, body and intellect. In fact, after a long stint in the corporate and institutional world, there was a deep urge to me to be part of a movement that would make a world of difference to the world that we live in. And what better movement can it be than the one for a greener world? With this clarity and vision, I have chosen to be part of the Green movement that would make this world a better place to live, for us and for our future generations.

-M. Selvarasu
PARTIAL MEP DESIGN PROJECTS

NEW CONSTRUCTION

- Dr APJ Kalam Science Museum - Patna - Museum - 3,33,000 Sft
- Indian Institute of Science phase 1 - Bengaluru - Institute - 1, 50,000 Sft
- IIIT D&M - Chennai - Institute - 16, 00,000 Sft
- Mariapps Smart City - Kochi - Office - 1,88,000 Sft
- Centre for Sports Excellence - Bangalore - Sports Academy - 1,50,000 Sft

CORE AND SHELL

- PS Unipon Garment Park - Kolkata - 17, 35,000 Sft
- Mahaveer Group - Hyderabad - Office - 13, 11,000 Sft
- Karle - Hub 05 - Bengaluru - Office - 18, 92,000 Sft
- Ascendas - MTB-3 - Bangalore - IT Commercial - 8,00,000 Sft
- Brigade Tech Garden - Bangalore - IT Commercial + Master Plan - 50,00,000 Sft

HOTEL

- Taj - Phase 2 - Bengaluru - Hotel - 1, 50,000 Sft - 220 keys
- Pearl Tower (Intercontinental) - Sri Lanka - Hotel - 4, 80,000 Sft - 307 keys
- Brigade Novotel - Bengaluru - Hotel - 2,00,000 Sft (159 keys)
- Howard Johnson Bhubaneswar - Bhubaneshwar - Hotel + Retail 2,50,000 Sft (87 Keys)
- IHG Holiday Inn Express - Gurugram - Hotel - 1,25,000 Sft (275 Keys)

HOSPITAL

- Columbia Asia - Pune - Hospital - 2, 85,000 Sft
- Bharat Vikas Parishad Hospital & Research Centre - Kota, Rajasthan - Hospital & Academic - 6,75,000 Sft
- APOH - Tirupati - Hospital - 2,40,000 Sft
- OMEGA - Hyderabad - Hospital - 40,000 Sft
- NOVA IVF - Surat - Hospital - 10,000 SFT
PARTIAL MEP DESIGN PROJECTS

INTERIOR FITOUT
- Google – GOGO – Gurugram – Office – 13, 15,700 sft
- SAP – Bengaluru – office – 2, 12,000 sft
- KPMG – Bengaluru – office – 2, 00,000 sft
- EMC – Pune – IT Office – 1,40,000 Sft
- Shell – Bangalore - IT Office – 2,80,000 Sft

RESIDENTIAL
- Casagrand – Chennai – Residential – 20, 00,000 sft
- Sumadhura – Bengaluru – Residential – 9, 47,000 sft
- Signature Estate – Guwahati – Residential – 5,00,000 Sft
- Brigade Buena vista – Bangalore – Residential – 12,25,000 Sft
- Prestige Sunrise – Bangalore - Residential – 35,00,000 Sft
  Emprasa – Bangalore - Residential – 6,35,000 Sft

FACTORIES
- Laguna – Ranchi – Factory – 1, 50,000 sft
- ABB Robotics – Bengaluru – Factory – 70,000 sft
- ITC, ICML – Trichy – Factory – 7,00,000 Sft
- Next Accessories – Bangladesh – Factory – 1,30,000 Sft
- Jay Jay Mills – Perundurai – Factory – 2,78,000 – Sft

DATA CENTER
- Net Magic Solutions – Bangalore – Data Centre – 1,00,000 Sft
- TCDC – Pune & Mumbai – Data Centre – Retrofit
- Emerson – Bidadi – Data Centre – 87,000 Sft

MASTER PLAN DEVELOPMENT
- Century Sankya – Bengaluru – Mater Plan development – 21, 78,000 sft
- ABB – Bengaluru - Mater Plan development – 3, 11,000 sft
- Chennai One World – Chennai – Mater Plan development – 10,50,000 Sft
- Shristinagar – Guwahati - Mater Plan development – 11,00,000 Sft
PARTIAL GREEN PROJECTS

LEED NEW CONSTRUCTION
- Hera Sweaters – Dhaka – Factory – 80,000 sft - Gold
- ITC Green Centre – Guntur – Office – 1, 50,000 sft – Platinum
- TCS-IT SEZ garmia park - Gandhinagar - IT Office 18,00,000 Sft - gold
- Anna Centenary -chennai -library - 3,80,000 Sft - gold
- Infosys SDB-7 – Mysore – Office – 3,22,000 sft – Platinum

LEED COMMERCIAL INTERIORS
- Apple – Hyderabad – Office – 1, 60,000 sft – Platinum
- BOLT, Barclays Capital
- KPMG Global Services Pvt Ltd
- Adobe Systems Noida 25A
- HCCB - 'LETS MAKE IT HAPPY' – Bengaluru – Office – 1, 10,000 sft – Platinum

LEED CORE AND SHELL
- Risk Technology – Hexaware – Pune – Office – 2, 11,000 sft – Platinum
- VR Chennai Shopping Centre – Chennai – Retail – 18, 18,000 sft – Gold
- Mindspace- Building No 12C – Madhapur – Office – 13, 83,000 sft – Gold
- Brigade Nalapad Centre – Bengaluru – Office – 7, 38,000 sft – Gold
- Meenakshi Pride Rock – Hyderabad – Office – 10, 23,000 sft – Gold

LEED & IGBC EXISTING BUILDING O&M
- Infosys Campus – Mysuru – Mixed Use Development – 28, 55,000 sft – Platinum
- Infosys Campus – Chennai – Mixed Use Development – 23, 47,000 sft – Platinum
- Google Hyderabad Office -3, 10,000 Sft - Gold
- HPCL - Hindustan Bhavan – Mumbai – office – 50,000 sft – Gold
- Explorer,Inventor,Navigator @ITPB - Bangalore - Office -11,98,000 Sft - IGBC Gold
PARTIAL GREEN PROJECTS

IGBC GREEN FACTORY
- Triveni Turbine Limited – Bengaluru – Factory – 2, 16,000 sft – Platinum
- Kongovi Private Limited – Bengaluru – Factory – 2, 02,000 sft – Gold
- Schindler Escalator – Pune – Factory – 1, 33,000 sft – Gold
- Surya Nepal Pvt Ltd. (SNPL), Pokhra – Nepal – Factory – 1,65,000 sft – Gold
- ITC-CGMF – Mysuru – Factory – 3, 08,000 sft – Gold

IGBC GREEN HOMES
- Renaissance Nature Walk - Phase 1 – Bangalore – Residential – 1,70,000 Sft – Gold
- Purvankra-Purva Atriya Platina – Bangalore – Residential – 1,40,000 Sft – Gold
- August Ventures-August Park – Bangalore – Residential – 4,10,000 Sft – Gold
- K Raheja-Residential-Madhapur – Hyderabad – Residential – 2,80,000 Sft – Gold
- Mahindra Resorts-Resort-Thungu – Pune - Residential – 2,00,000 Sft – Silver

IGBC GREEN CAMPUS, DATA CENTRE, LANDSCAPE & MRTS
- Mahindra Research Valley (MRV) – Chennai - Research & Development – IGBC Campus – 54,55,000 sft – Platinum
- Mindtree Kalinga Campus – Bhubaneswar - IGBC Green Campus – 5, 90,000 sft – Platinum
- ICICI Bank Data Center, Gopanpally – Hyderabad - IGBC Green Data center – 16,000 Sft – Platinum
- International Tech Park Pune (ITPP), CEDAR & JUNIPER –
- Pune - IGBC Green Landscape – 1,14,000 Sft - Platinum
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