

**JEF**



**Delivering Excellence  
Since 1994**

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# Partner with Asia's Leading Expert in Electrical Engineering

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JEF is an innovative company with Indian roots and an extensive international presence across 23 countries in the ASEAN, Middle Eastern, African and European regions. We have been the preferred vendor for prestigious projects in many countries with 3000+ global customers and an astounding 90% customer retention rate.

With over 30 years in the industry, we have a proven track record of successfully implementing several engineering solutions.

Our services span the entire spectrum of electrical engineering from low, medium to high voltage and extra high voltage.

Over the last couple of decades, JEF has supported organizations across a range of industries to help ensure the safety of their manpower and reliability of their systems.

With us you can always expect a technology-driven approach. We have several innovations, patents, and industry firsts which have made us a preferred partner for customers.





**JEF**

**This Global Recognition,  
Expertise and Growth Have  
Been Hard Earned.**

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**| 30 Years of Experience**

**| 30% Growth Rate**

**| 3000+ Global Customers**

**| 90% Customer Retention Rate**

**| 23 Countries**

**| 250+ Employees**



# Integrating Diverse Specializations for Value Delivery

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Our vast experience, innovative approach and ability to respond to customers' needs across diverse applications have helped build significant knowledge and expertise.

The diverse specializations within our team ensure a multi-dimensional approach to problem solving, thereby positioning us as a competent and reliable full service vendor partner in the electrical engineering space.

## Seamlessly combining the best of:

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- Grid Code Compliance Studies
- Power System Studies
- Switching and Transient Studies
- EMI/EMC Studies
- Earthing / Grounding Studies
- Lightning Protection Studies
- Power Quality & Root Cause Analysis
- Insulation Coordination Studies
- IECEX Compliance Audit
- Design and Detailed Engineering
- Instrumentation Earthing Studies
- Harmonics Measurement and Studies

## Building a Legacy for an Exciting Future

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**Striving for  
Excellence in All We Do  
Has Been Our Guiding Motto**



Not often you hear about organizations wanting to build a Legacy.

Passion, Commitment, Values, Leadership, Excellence, Consistency and a lot more go into building one.

With three decades of handling challenging assignments across geographies and varied industry segments, has helped us build a unique archive of designs, drawings, technical papers, customized tools and programs to help solve complex present-day electrical engineering problems.

Our multi locational teams frequently leverage these to embrace the challenges and opportunities thrown at us everyday.

We are poised and ready for an exciting future.

## The JEF Non-negotiables

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### Integrity

Defines us as an organization for our customers and team members.

### Dependable

You can count on us to get the job done.

### Transparency

Offering a very transparent approach that you would expect from a partner of choice.

### Innovation

We design and implement innovative and cutting-edge solutions.

### Customer-Centered Service

We work together with customers to understand problems, needs and challenges to deliver best-suited solutions.

## Delivering Excellence across 23 Countries



### Project locations across

#### 📍 Asia

Singapore  
South Korea  
Vietnam  
Nepal  
Bangladesh  
Afghanistan  
Bhutan

#### 📍 MENA

Saudi Arabia  
Kuwait  
Bahrain  
Qatar  
UAE  
Iraq  
Jordan  
Egypt  
Oman

#### 📍 Africa

Tanzania  
Algeria  
Nigeria  
Mauritius

#### 📍 Europe

United Kingdom  
Austria





# Earthing & LPS Products

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We have a comprehensive range of Earthing and LPS products, as well as the resources, scale, and agility to deliver your projects efficiently at the best value. Our channel partner network and strategically located offices provide us unparalleled reach across India. We have been a trusted partner for a diverse range of customers across industries - Renewable Energy, Commercial, Residential buildings, Data Centres, Oil and Gas, Railways and more.

Our customer-centered approach with a thorough knowledge of the nuances of various applications helps us to provide the best solutions for your requirements which are cost optimum, technically superior and compliant with relevant regulations.

## Design

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The in-house developed revolutionary software “JEF Shield” which is available to registered users, provides comprehensive risk assessment report, optimized design, BOQ, indicative 2D and 3D drawings as per IEC 62305 for most applications in <99 seconds. Detailed drawings can also be provided on request.

Grounding designs for most applications are carried out through CDEGS software with level II certified professionals.

## Products

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With a range of over 600+ products tested as per the stringent requirements of IEC 62561 (62305) and other relevant standards, we have the range to address the needs of diverse applications.

## Surge Protection Devices

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We offer a vast range of products for the protection of all your sensitive electronic equipment. The range includes low voltage electrical and instrumentation and SPDs with Ex certifications.

## Installation

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Our in-house installation team is fully trained, certified and strategically spread out throughout India and ME. This helps us deliver your projects cost efficiently and in time.



## 600+ Certified Products for Reliable Lightning Protection and Grounding Systems

JEF Shield is a web-based risk assessment tool to determine the risk level as per IS/ IEC62305-2. The tool gives a comprehensive risk assessment report, optimized design, BOQ, indicative 2D & 3D drawings as per IEC 62305 for most applications in <99 seconds.



JEF E-Build is an automated tool to guide and monitor LPS site installation. The tool can be used by unskilled or semi-skilled workers as well during the LPS site installation under the supervision of back-end experts, who validate the process in real-time and certify the installation, remotely.

Complete range of type-tested LPS components as per IEC 62561(62305). Sequentially type tested for aging, (10/350 $\mu$ s) 100kA lightning impulse, mechanical test.



JEF Eco Safe Set

Compound type tested as per IEC-62561-7, IS3043-2018, BS-7430 and IEEE 80.

**Resistivity <math><0.12 \Omega m</math>**

Tested  
as per



IEEE



Certified  
By

**LCOE**  
LABORATORIO CENTRAL OFICIAL  
DE ELECTROTECNIA



## Technical & Engineering Services

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Electrical systems are required to remain safe and reliable to ensure critical processes in industries, run without interruptions.

Yet they invariably experience outages due to tripping and equipment failures. The importance of proper design, periodic health analysis of equipment, study of the interplay between various equipment in the system under varied operating conditions are necessary to ensure safe and reliable system operation.

Our highly trained, skilled and experienced team delivers all services related to the electrical system to proactively ensure system reliability, find the root cause and suggest corrective action.

“

Safety of personnel...  
Reliability of your system.

”





## Consistently Delivering Quality Across our Spectrum of Offerings

### Grounding Studies

**181** Projects  
GCC: 52 Projects

### Power System Studies

**74** Projects  
GCC: 34 Projects

### EMI Studies

**106** Projects  
GCC: 36 Projects

### Lightning Protection Studies

**233** Projects  
GCC: 26 Projects

### Insulation Co-ordination Studies

**145** Projects  
GCC: 95 Projects

### Power Quality & Root Cause Analysis

**66** Projects  
GCC: 39 Projects

### Instrumentation Earthing

**32** Projects  
GCC: 09 Projects

### Design and Detailed Engineering

Substations and  
Transmission Lines up to 765 kV

Solar PV Projects and Wind  
Farms up to 180 MW

**116** Projects | GCC: 44 Projects

**44** Projects | GCC: 20 Projects



## Grounding

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Most grounding systems are permanently buried and not visible/accessible for maintenance.

### **How can we know the health of the buried system?**

Our team of experts perform specialized tests such as riser and grid integrity test which offer a comprehensive view of the grounding system both above and below the ground.

We also design grounding system for high soil resistivity areas and special applications using CDEGS.

### **Application Areas**

**Power Plants | AIS | GIS | Process Plants | Oil & Gas & many more**

## Lightning Protection System

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Failure of electronics and risk to personnel during lightning is commonly experienced by industry. We offer comprehensive study of existing LPS system for its adequacy and suggest augmentation measures as a retrofit to ensure compliance and safety. The study covers safety of structures, people and equipment. We also design LPS systems for new facilities.

### **Application Areas**

**Warehouses | Pharmaceuticals | Airports | Stadiums | Railways & Metros | Heritage & Commercial Buildings & many more**

## EMI/EMC

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Our approach involves conducting a detailed assessment to identify EMC issues at the design stage. This allows for economical mitigation, helping to overcome nuisance tripping problems and prevent unnecessary plant downtimes and production losses. This adds unparalleled value to system reliability.

This study is also carried out by our experts in brown field facilities where system reliability is critical.

### **Application Areas**

**Process Plants | Power Plants | Substations | Offshore & many more**

## Power System Studies

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Power system studies are essential for ensuring reliable and efficient electrical distribution. These studies analyze various aspects of the power grid, including load flow, short-circuit analysis, and protection coordination. By simulating different scenarios, such as faults and contingencies, engineers can optimize system performance, identify weaknesses, and enhance reliability.

Our experts, with vast experience across varied applications, recommend the most optimum configuration and design for your electrical system to help ensure safe and reliable operations using reputed tools like PSS/E, PSCAD, DigSILENT, ETAP, EMTP-RV, CDEGS, and more. Our unique value proposition of measure-simulate-validate offers a 360-degree perspective and a foolproof solution under actual operating conditions.

### Application Areas

**Wind & Solar Farms | Substations | Hydro Power Stations | Gas Power Stations | Data Centers & many more**

## Root Cause Analysis and Power Quality

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Electrical systems often suffer from tripping or failures disrupting critical processes and causing significant losses. Quality of power as seen by the equipment is generally the culprit. Sags, swells, surges and harmonics can damage your critical equipment and systems or cause them to malfunction.

Our highly knowledgeable and experienced professionals measure, analyse and decipher the cause of the problem and provide the right solutions to your problems using precise analyzers and sophisticated software. Our track record of solving complex problems in varied industry segments is testimony to our prowess.

### Application Areas

**Power Plants | Substations | Energy Complexes | Onshore Facilities & many more**

## HV & EHV Services

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High Voltage and Extra High Voltage are the backbone of electricity transmission.

Our experts from varied teams offer:

- a) Design and Detailed Engineering including Civil and Electrical
- b) Seismic and Integrated Analysis using ANSI (for GIS)
- c) Insulation Co-ordination and Transient Stability Studies (EMTP/PSCAD)
- d) Dynamic Stability and Grid Interconnection Studies

### Application Areas

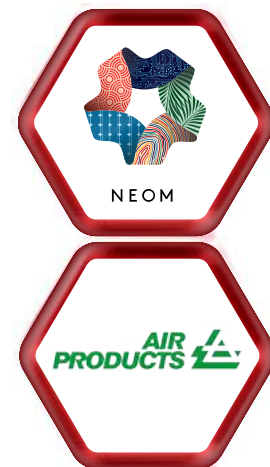
**Solar | Wind | Transmission Lines | Substations | Power Plants & many more**

## Key Projects Delivered for Utilities

### Power Utility



### Commercial Projects



### Power Utility EPCs





## Key Projects Delivered for Oil & Gas

### Oil & Gas Utility



### Oil & Gas EPCs





## Our Locations

+971 552447290    jefme@jeftechno.com

### Middle East Regional Office:

JEF Engineering Services Middle East Limited  
Ground Floor, Accelerator Building,  
Masdar City, Abu Dhabi, UAE

### UAE Office:

JEF Techno Solutions Private Limited - Abu Dhabi  
Office No. 16, 11<sup>th</sup> Floor, Mayzad Offices Tower 2,  
MBZ City, Abu Dhabi, UAE

### Saudi Arabia Office:

Dammam

### Global Head Office:

No. 1073, 15<sup>th</sup> Cross, 30<sup>th</sup> Main,  
Banashankari 2<sup>nd</sup> Stage,  
Bengaluru, India - 560070

### Design & Engineering Offices:

Chennai, Coimbatore

### Manufacturing Facility:

Hosur, Tamil Nadu



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