



KEL

KERALA ELECTRICAL & ALLIED ENGG. CO. LTD.
A Government of Kerala Undertaking



WE ARE KEL. THE PRIDE OF KERALA

A Multi-Product Engineering Company with 50 plus years of experience and expertise in Engineering Industry, and now proudly serving an envious client base including Defence, Irrigation and Power Projects, Space Research Organizations, State Electricity Boards, Indian Railways and the General Public both in India and abroad. The Company which is a Public Sector Undertaking fully owned by Govt. of Kerala has four state-of-the-art manufacturing units spread across Kerala and has a pan India presence with its Sales and Service unit in all major metros and selected cities.



OUR STRATEGIC BUSINESS UNITS

TRANSFORMER DIVISION

- Distribution Transformers upto and including 2500kVA, 33 KV Class
- Medium Power transformers upto 8000 kVA, 33 KV Class
- Corrugation Transformers upto 1000kVA, 33 KV Class
- Solar Transformers
- Amorphous and wound core Transformers
- Special Application Transformers such as EMU, LOCO Transformers for Railway application.
- Dynamic Reactive Power Compensation and Furnace Transformers
- A new Plant for the Production of Power Transformers up to 25MVA, 132KV class, is nearing its completion

STRUCTURAL ENGINEERING DIVISION

- Design, Fabrication, Supply Execution and Commissioning of Automatic Tilting Gates, Hydraulic Gates, Penstocks, Draft Tube Gates etc. on Turnkey basis for Irrigation/power projects
- Design, Fabrication of Bogie Frames, Bogie Bolster and Headstocks for Railways.
- Design and Construction of different types of Bridges with Steel column, Single /Double concrete column
- Design and Construction of Industrial and Commercial Buildings
- Construction of Roads and other Civil Works..
- Renovation/Development of Tourism Centers
- Interior Furnishing works
- Supply Erection And Commissioning Of Solar Power Plant System

TRAIN LIGHTING ALTERNATOR DIVISION

- Inductor type brushless alternator for train lighting and Air-Conditioning -2.5 kW to 25 kW with RRU/ERRU
- High frequency alternator - 400 Hz; upto 100 kVA capacity
- Ground power units for starting Avro and Dornier aircrafts and for powering Boeing aircrafts
- Ground Support units with dual voltage system for starting fighter aircrafts
- DC, AC power frequency and high frequency power pack for missile firing auxiliary power support
- Supply and Installation of High Mast lighting system
- General Purpose Diesel Generator Sets

LT SWITCHGEAR DIVISION

- Fuse Switches
- Changeover Switches
- Porcelain Fuse Units and Cutouts
- Distribution fuse boards and industrial type switch boards
- Distribution Boards (SPN & TPN 2 to 16 ways)

CAST RESIN TRANSFORMER DIVISION

- Cast Resin Transformer (CRT) up to 1600 kVA
- Vacuum Pressure Impregnated Transformer (VPI) upto 1000 kVA

OIL IMMERSED TRANSFORMERS

Established in 1969 at Mamala, about 15 km from Kochi on a plot area of 52000 sq.m with a shop floor area of approximately 2700 sq.m. This unit was initiated with technical assistance from 'BHEL' to manufacture Distribution Transformers. Now it is one of the major players in the Transformer Industry with a rolling out capacity of 1500 MVA per annum.

This division boasts of a long sustained list of extremely satisfied clients, many of whom who have stood by KEL for decades. Over these years KEL has managed to make a brand name of its own in the transformer industry with its Highly Durable, Reliable and Energy Efficient Transformers. Relying on the unmatched quality of KEL transformers, electricity boards across India perfectly maintain a healthy power distribution supply system. Manufacturing custom-built transformers, for specific requirements, is yet another speciality of KEL.

This unit is one of the first transformer industries in Kerala to avail BIS Certification for Distribution Transformers and first few in India to get ISO 9001 Certification. With lakhs of transformers working safely in Transmission and Distribution network, and thousands in production line this unit of KEL stands tall with pride.

DISTRIBUTION TRANSFORMER - OIL IMMERSED

- 25 kVA to 3000 kVA upto 33 kV class as per is 1180 energy efficiency levels
- First in Kerala to avail BIS certification for transformers
- 2700m² plant area in 13 acres of land at Kochi fully dedicated to manufacturing of oil immersed distribution transformers
- Annual rolling out capacity of 1500 MVA
- ISO 9001-2015 accredited
- Awarded 4g exemption under KTPP act in Karnataka to supply transformers directly to ESCOMs without any tendering process
- 35 % purchase preference and 15 % price preference from KSEBL

MEDIUM POWER TRANSFORMER

- Capacity to manufacture upto 8 MVA 33 kV class
- New plant to manufacture 25 MVA 132 kV transformer is nearing its completion at Kochi
- Successfully type tested and supplied 5 MVA transformer to KSEB and other private customers
- Type testing of 8 MVA transformer for KSEB is under progress

CORRUGATION TRANSFORMER

- Manufactured upto 1000 kVA 22 KV class
- Compact design
- Hermetically sealed type
- Supplied as package substation

SPECIAL TRANSFORMERS

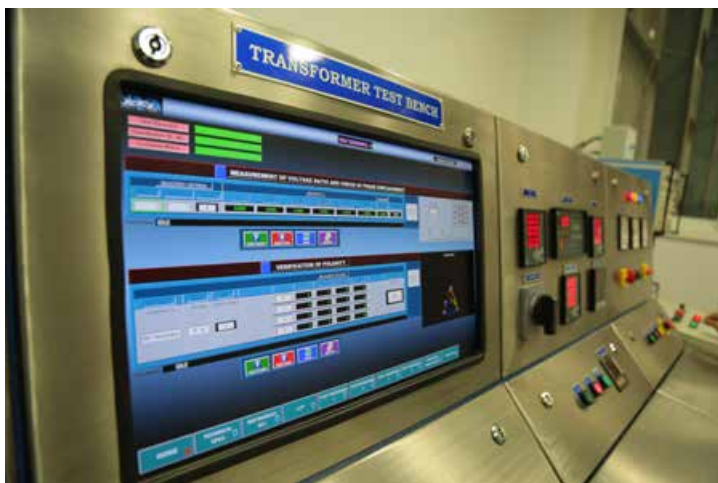
- Electric Multiple Unit Transformer For Indian Railways
- Successfully Type Tested 1550 kVA 25 KV /782V Transformer At CPRI
- Supplied 7 Nos Of Solar Transformer Of 630 kVA And 400 kVA Rating To KSEBL
- Furnace Transformer
- Booster Transformer
- Reactors for power packs
- Wound Core Transformers
- Amorphous Core Transformers



CAST RESIN TRANSFORMERS

To cater to the growing demands of dry type transformers, a most modern plant with semi automated manufacturing and testing facility was established at Edarikode in Malappuram district with a plant area of 1350 sq. m and an annual production capacity of 300 MVA, this unit has every means to supply good quality transformers with remarkable delivery period.

Every single transformer manufactured and tested in this plant undergo stringent quality checks and measures it lives up to the brand name KEL has gained over these years. In addition to this plant a 1200 sq. m plant fully dedicated for the production of oil immersed distribution transformer is being operated here with an annual rolling capacity of 120 MVA.



ALTERNATORS

This ISO 9001 certified unit was started in the year 1964, with technical know-how from EVR of France, for the purpose of manufacturing Brushless Alternators, required for Indian Railway in Lighting & Air-conditioning of Coaches. We were the one to introduce this item to Indian railways in 1969 and still we are the pioneers in this field.

The unit has an installed capacity of 3500 numbers of alternators per annum. With over 60000 numbers alternators in service in the Indian Railways, We enjoy leadership status in the segment. Our alternators of various rating are in service with several Indian Defence establishments.

Our major customers are Indian Railways, Bharat Heavy Electricals Ltd, Crompton Greaves Ltd, L & T, Bharat Earth Movers Ltd, SAN Engg., and Speed Craft, Hyderabad etc. Besides, could garner orders for Alternators from countries like Tanzania, Korea, Senegal, Bangladesh, Sri Lanka etc.

MAJOR PROJECTS

- Falcon Missile Project - Vehicle mounted 62.5 kVA 415v, 50 hz, 3-phase DG set for R&DE engineers working on falcon missile project
- Thrisul Missile Project -35 kVA + 15 kW dual output DG set for Trishul missile project through DRDO, R&DE engineers, BEML/BD
- Prithvi Missile Project - 2 kW 30V, 3000rpm DG set for prithvi missile project through DRDO, R&DE (Engrs.), BEML/BDL
- Pinaka Project - 12 kW, 30V, 400A alternator for Pinaka project, L&T
- 20 kVA, 400Hz for defence application in Indian Air Force, Paras with dual voltage system for starting fighter aircrafts.
- 5 kVA, 400Hz, DG set for defence application R&DE engineers
- Akash Missile System
- Military Power Car
- Radar Application
- Ground power unit for aircrafts for starting Avro and Dornier aircrafts and for powering Boeing aircrafts



STRUCTURAL DIVISION

The Structural Engineering Division of KEL in its Mamala Unit, specializes in the design, fabrication and commissioning of hydraulic gates and hoists and their controlling equipment used in dams for power and irrigation projects. Many such projects have been successfully executed, by this division on a turnkey basis, all over India.

The KEL structural division, with a capacity of 1200 MT per annum undertakes the design and construction of steel bridges, factory buildings, storage tanks, fabrication of pressure vessels and other industrial steel structures, as per customer specification. For the Railways, KEL undertakes the fabrication and manufacture of bogie frames, bogie bolster, head stocks for railway coaches and wagons.

MAJOR PROJECTS

- Fabrication, Supply, Installation and Commissioning of Automatic Tilting Gates, Hydraulic Gates, Penstocks, Draft Tube Gates at various dam projects at Karnataka Neeravari Nigam Ltd., Karnataka Power Corp. Ltd.
- Fabrication, Supply, Installation And Commissioning Of Penstocks, Draft Tubes Brindavan Hydro Power Pvt. Ltd., Shimoga
- Bogie frames and bolsters for BEML, EMU coaches for ICF
- Industrial and commercial building works for textile mill at Kuttippuram, Chemi-Mech. plant for HNL Ltd., NCRMI, traco cables co., KEL Edarikode and Mamala
- Suspension bridges for Revenue Dept. & Tourism Dept., Government of Kerala
- Lattice bridges for Revenue Dept. & Tourism Dept., Government of Kerala
- Renovation of Tourism centers for Tourism Dept, Government of Kerala
- On line examination centers for public service commission at Ernakulam, Thiruvananthapuram, Pathanamthitta, Kozhikode and Kasargod for Government of Kerala
- Installation and commissioning of 0.5 MW grid tied ground mounted solar project at Kuttippuram for KSEBL
- Installation of 50 kW solar plant for Chalakkudy municipality



FUTURE FOCUS

KEL is now transitioning to the new electricity era. With Indian government planning to outfit approximately 35 million customers with smart meters by the end of 2020. A brand new opportunity opens for KEL to diversify their portfolio.

India aims to be a 100% EV nation by 2030. Indian government planning to spend nearly

INR 1.8 lakh crores in electric vehicle infrastructure to meet the target till 2030. KEL's Brushless DC motor experience makes it a seamless transition to this exciting new business segment.

As India targets 100 GW of solar capacity (including 40 GW from rooftop) by 2022, the field is ripe for KEL to explore opportunities.



TRACTION MOTORS FOR E-VEHICLES



SMART ENERGY METERS



SOLAR POWER PROJECTS



CONSTRUCTION & ERECTION





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A Government of Kerala Undertaking

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