



LTL TRANSFORMERS TANZANIA (PVT) LTD
Engineering for better transformation



**ENGINEERING FOR BETTER
TRANSFORMATION**

**Ensuring uninterrupted
power supply for
global power industry**



VISION

ACHIVING AND MAINTAINING THE BEST-IN-CLASS STANDARD ENERGY TRANSFORMATION SOLUTIONS TO POWER THE HUMAN VALUE CHAIN GLOBALLY.

MISSION

To be recognized globally as a leading provider of energy transformation and distribution solutions by:

- Delivering innovative, efficient, and reliable products and services
- Maintaining world-class quality standards
- Building trusted partnerships through collaboration and transparency
- Investing in people and technology to drive operational excellence

OUR VALUES

Innovation | Leadership | Excellence

We value innovation and technology that drive efficiency and market leadership.

We pursue excellence through continuous improvement in manufacturing, supply chains, and customer service.

Our commitment to quality and responsible growth ensures sustainability for our clients, employees, and stakeholders.



SUSTAINABILITY COMMITMENT

Our manufacturing philosophy follows the LTL Group's sustainable blueprint, integrating energy-efficient core materials, natural ester fluids, and eco-certified processes.

We minimize environmental impact through:

- Amorphous metal core technology - up to 70 % lower no-load losses
- Eco-friendly insulating fluids such as ester oil (Free from PCB)
- Certified the process with environmental management certification
- Long-life, maintenance-free hermetically sealed designs that reduce waste and service emissions

Our goal is to enable utilities and industries across Africa to achieve both energy reliability and environmental responsibility.

Sustainability in Action

Up to 70 % reduction in no-load losses through amorphous core technology.

Reduced CO₂ emissions lowering the transformer losses and longer lifecycle efficiency.





ABOUT US

LTL Transformers Tanzania (Pvt) Ltd, established in 2024 in Dar es Salaam, is a subsidiary of LTL Transformers (Pvt) Ltd - Sri Lanka's only transformer manufacturer and a trusted name in the global power sector for over 40 years.

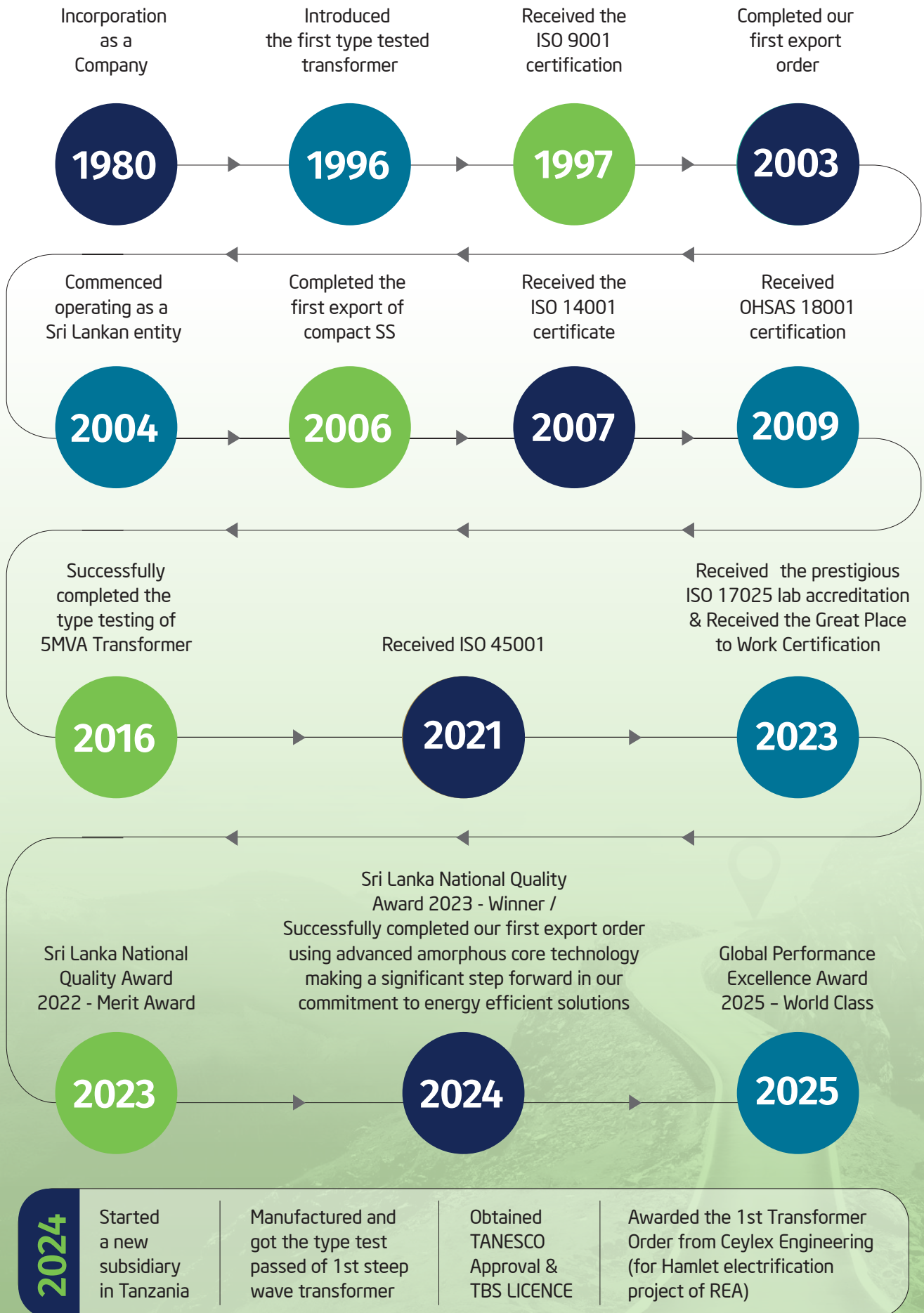
The Tanzania facility expands our presence in Africa, delivering reliable, high-performance power and distribution transformers for rural electrification, renewable energy, and industrial applications.

Our track record includes supplying transformers to Kenya, Ethiopia, Uganda, Seychelles, Botswana, Mauritius, and Mozambique, with proven experience in Tanzania's rural electrification projects since 2014, demonstrating long-term quality and trust.

LTL Transformers (Pvt) Ltd was founded in 1980 as a joint venture between the Ceylon Electricity Board and Bonar Long of Scotland the Company has steadily captured its market position as a trusted name in the industry both locally and globally. LTL Transformers (Pvt) Ltd is an established market leader in the transformers market segment in Sri Lanka as well as globally, with over four decades of market presence.

The Company's ethos of reinvesting profits into advancing people, technology, assets, and production fostering innovation, enabling the company to offer a diverse range of products and services. By integrating technology and innovation, LTL not only enhances its business growth but also aligns with broader sustainability goals, reflecting a dedication to responsible and ethical business practices.

OUR JOURNEY



PRODUCT PORTFOLIO



LTL Transformers Tanzania (pvt) Ltd offers a complete range of power and distribution transformers designed to deliver reliability, durability, and efficiency required in utility, industrial, and commercial applications.

(Oil Immersed Transformers, Special Transformers, Dry type Transformers and Pre-fabricated Compact MV Substations)





OIL IMMERSED TRANSFORMERS

LTL offers a complete range of power and distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications. LTL's liquid-filled transformers are manufactured in accordance with the most demanding industry and international standards. Transformers can be used for indoor or outdoor applications. These products form a critical part of electrical distribution networks and ensure reliable supply of electricity to homes and industry.

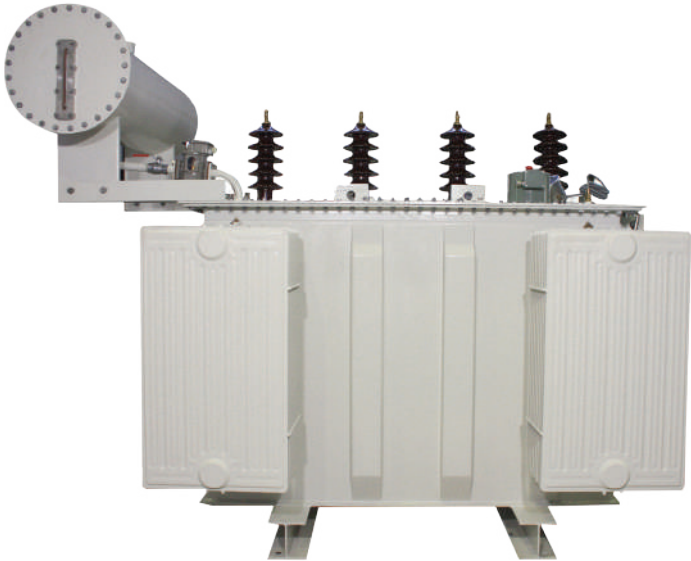
Technical Specifications

Ratings	5 kVA to 2000 kVA (up to 33 kV)
Frequency	50Hz/60Hz
Winding	Copper/Aluminum
Insulating Fluid	Mineral Oil or Ester Oil
Class of Insulation	Class A
Tap Changer	OCTC, OLTC as per customer requirement

SPECIAL TRANSFORMERS

In addition to standard types of transformers used for distribution applications, we build special transformers for industrial applications.

Our product range includes the following special distribution transformer. These non-standard types used in electrical and/or mechanical applications, are the result of extensive product development based on constant monitoring and evaluation of evolving customer needs encompassing varied market segments



- Earthing / Grounding Transformers
- Isolation Transformers
- Multi Winding Transformers
- Low Voltage Air Cooled Transformers
- Pad Mounted Transformers (Dead Front) as per ANSI standards

DRY TYPE TRANSFORMERS

LTL offers a full range of dry-type transformers with primary voltages up to 33 kV built according to all major standards including IEC and ANSI.

To minimize environmental contamination and fire hazard, customers are specifying dry type transformers more frequently.

Dry-type transformers are ideal for indoor or fire-sensitive sites such as hospitals, commercial buildings, and renewable -energy installations.

These transformers meet strict parameters with respect to electrical system demands and functioning in areas with extreme climatic conditions. LTL's dry type transformers are virtually maintenance free and are manufactured in accordance with industry and international standards.



Technical Specifications

Ratings	3 phase up to 33kV 2.5 MVA
Frequency	50Hz/60Hz
Winding	Copper/Aluminum
Class of Insulation	Class H,F
Degree of ingress protection	IP 21 to 32 as per customer requirement

PRE-FABRICATED COMPACT MV SUBSTATIONS

Our compact MV substations are designed and manufactured for standard and specific customer requirements that are widely used in areas where underground power distribution is required, such as in residential, commercial and industrial developments. LTL produces standard and specialized compact MV substations ranging in size from 100kVA up to 2,000kVA. The fully enclosed transformer, HV and LV

connections or switchgear are all fully assembled and tested in the factory prior to shipping to site. The standard design methodologies have been subject to extensive design review and subsequent in field review. Many standard and customized compact MV substation arrangements are available. All configurations are fully rated in their enclosures.



Technical Specifications

Ratings	Voltage	11kV or 33kV
	Frequency	50Hz/60Hz
Compartmented	Yes	
Ventilation	Natural	
Degree of ingress Protection	MV and LV Compartment	IP 34 & IP 33
	Transformer Compartment	IP 23D
Degree of Protection against external mechanical impact	IK10	
Class of Enclosure	Class 10	
Internal Arc Classification	Type B	

PRODUCTION RANGE OF OIL FILLED TRANSFORMERS

Basic Technical Features	Unit	Specification	Remarks
Transformer type		Hermetically sealed	Conservator type is also possible
Capacity	kVA	5 to 2000	above 2000 kVA can supply from Sri Lankan Factory
No of Phases		3 phase or single phase	
Frequency	Hz	50 /60	
Primary Voltage	V	up to 33,000	
Secondary Voltage	V	up to 33,000	
Vector group			Can be customized as per the customer requirement
Lightening Impulse Withstand Voltage (Primary)	kV	According to IEC60076 and S21 (for Tanzania) STD	
Power Frequency Withstand Voltage (Primary)	kV	According to IEC60076 and S21 (for Tanzania) STD	
Tap Positions	nos	No of tap positions and steps can be customized as per the customer's requirement and IEC	
Tap changer Type		Off-load tap changer	On-load tap changer is also possible
Class of Insulation material		Class A	
Load Loss	W	As per S21 specification / customer requirement	IEC Tolerance Applicable
No-Load Loss	W	As per S21 specification / customer requirement	IEC Tolerance Applicable
Efficiency (Power factor 0.8 or 1)	%	98.5 and above	
Winding Temperature Rise	°C	As per S21 specification / customer requirement	
Top Oil Temp Rise	°C	As per S21 specification / customer requirement	
Conductor Material (HV / LV)		Cu / Cu	Alluminium can be provided as per customer requirement
Insulating Fluid		Mineral Oil or Ester oil	
Cooling Method		ONAN / ONAF	
Sound Level	dB	As per S21 specification	
Painting Method		Galvanized and Powder painted	Can be customized as per the customer requirement
Altitude (Maximum)		As per S21 specification / customer requirement	
Standard		IEC60076:2011 / S21 / TZ 284	

PROCESS



CORE MANUFACTURING

Our transformer cores are precision fabricated from high quality grain oriented silicon steel laminations accurately cut to length on our advanced GEORG precision cut core line in Sri Lanka, which ensures exceptional repeatability and minimal burr for low-loss performance. We employ multi step lap stacking in every core joint to suppress local flux density peaks, substantially reduce hysteresis and eddy current losses, and deliver smooth, quiet operation with lower magnetizing current. For enhanced energy efficiency, LTL uses state of the art amorphous metal cores boasting up to 70% lower no load losses than conventional CRGO designs further reducing iron losses while supporting sustainable energy.

WINDING PRODUCTION PROCESS

The low voltage winding is done with high quality copper / Aluminum material along with DDP insulation. The high voltage winding is wound on LV winding. The high voltage winding is of layered winding construction with enameled insulated round or rectangular conductors. The insulation between layers consists of DDP or thin strip insulation papers as per the customer requirement.

ASSEMBLING

The active part of the transformer is assembled with the magnetic core; windings and other accessories such as tap selectors etc. All the high and low voltage leads are supported rigidly so that there will be no dangerous movements during severe faulty conditions. The design and the process ensure adequate clearance between various components and parts to ensure uniform and optimum electric field distribution which guarantees long life of the transformer. The active part of the transformer is completely dried and subsequently oil impregnated. The Oil filling process is performed under low vacuum thus, ensuring a significantly improved evaporation and drying quality.



TESTING AND DISPATCH

All transformers are subjected to the full range of specified routine tests as per international standards such as IEC, BS and ANSI. Our test facilities are equipped with high quality test apparatus. The quality of each product is guaranteed before its release for dispatch. Transportation options and customer requirements are carefully evaluated and determined by our well experienced staff in the field, and the products are appropriately packed and delivered to the final destination.

DESIGN GUIDELINES

With over four decades of experience in manufacturing Transformers in Sri Lanka, we ensure that our designs meet the dynamic requirements of our clients whilst ensuring the requirements of international standards including IEC, ANSI & BS as well as the special guide lines, comply with latest versions of TANESCO standards such as S 21 and TBS standards like TZ 284 which are specific for Tanzania.

We strive to ensure that the designs of the transformers manufactured meet the dielectric strength, mechanical endurance, dynamic and thermal withstand of winding in the event of short circuits. We also place great emphasis on the mechanical design and final finish of the transformers. Recognizing this we rely on the latest software for calibration and optimization of our transformer designs. The software that is used was developed in-house with the technical collaboration of expertise in the fields of Transformer Manufacturing. This helps to guarantee a technically and economically suitable transformer for a diverse array of customers with varying needs and requirements.

Why **LT LTT**

We can vouch on our competencies

Design Capabilities

Via an in-house built software calibration and optimization of the designs are done

Research and Development

Our continuous effort to improve efficiency and environmental standards

Testing

Complete routine testing process via the in-house testing laboratory

Quality Assurance

Maintain quality control and assurance process of the highest standard

*Go Strong
with us*



Empowering Africa's Energy Future

LTL Transformers brings over 40 years of engineering excellence to the African power sector. We specialize in manufacturing high-performance distribution and power transformers, designed to meet the unique challenges of diverse environments across the African continent.

Our range includes energy-efficient transformers for renewable energy plants, Earthing transformers

for reliable and safe grid substation operations, and custom-built solutions for utility and industrial applications.

We've successfully delivered over 15,000 units to more than 20 countries, with a strong footprint in East Africa. As a preferred supplier to major EPC contractors, LTL is powering infrastructure, industries, and communities across Africa.



OUR GLOBAL CLIENTELE

25+
Entites

20+
Countries

04
Regions



Ethiopian Electric Power | 1072 Units

KPLC | 1500 Units

Mozambique | 1318 Units

Our Major Export Orders



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