



2025
Corporate
Brochure

**Great
Place
To
Work®**

Certified

JAN 2025-JAN 2026

INDIA

Shaping the Future of Power & Energy

Technical Associates
Transformers Ltd.

Leading the way in sustainable energy solutions with world-class transformer technology and innovation.



Technical Associates Transformers Ltd. (TATL) is one of India's most respected and reliable pure-play transformer specialists in Power and Extra High Voltage (EHV) Transformers. Wherever electrical energy is generated, transmitted, or distributed, TATL provides power transformation products, services, and solutions tailored to customer needs. Recognised among India's Top 10 OEMs for Power and EHV Transformers, TATL has indigenously developed and refined its capability to manufacture and supply high-capacity transformers. Its 220 kV transformers have been successfully type and short-circuit tested as per IEC 60076 and IS 2026 at CPRI, a member of STL.

**Established
1969**

**55+ Years of
industry
expertise**

**24,000 MVA
Annually**

**Annual
manufacturing
capacity of
24,000 MVA**

**500 MVA,
400 KV**

**Largest
transformer
manufactured
by Us**

Shaping Tomorrow with Innovation & Expertise



**Powering Progress with
Advanced Transformer
Solutions.**



The Journey towards Excellence

1967

Technical Associates is established as a Partnership firm

First order for 5 kVA single phase transformers received for Uttar Pradesh State Electricity Board

1969

Regular production starts for different ratings of pole and pad mounted transformer upto 1000 KVA 11/0.433 kV

1970

Substation Plates (Turnkey) power projects division set up; Manufacturing activities certified by BSI, UK as complying with ISO 9001:2000 standard.

2009

EHV power transformer manufacturing facility commissioned at Sitarganj, Uttarakhand.



Technical Associates becomes a registered company incorporated under the Indian Companies Act

1973

2006



Starts new plant at Ismailganj, Lucknow for Power & Distribution transformers

1991

2001

Becomes a regular manufacturer of 40 MVA, 132 kV power transformers.

First ISO 9000 certified OEM.





2010

First order of 100 MVA 220/132/11 kV power transformer received.

2011

1st High Voltage Power Transformer exported to Zambia for ZESCO.



2012

UP's first 2 MW Solar Photovoltaic Power plant commissioned in district Barabanki.

2014

Supplies 160 MVA 220/132/11 kV Power Transformer to RVPNL.

2013

Testing facilities duly approved & accredited by NABL.



Approved for 400 kV Power Transformers by Maharashtra State Electricity Transmission Co. Ltd. (MSETCL), Mumbai

Supplies 3 x 160 MVA 220/132/11 kV Power Transformer to RSDCL for Solar Project in Rajasthan.

2016

2018

Supplies 150 MVA 220/66/11 kV Power Transformer to KPTCL

Supplies 100 MVA 220/33/11 kV Power Transformer to Delhi Transco Limited (DTL).



2020

Bags PAN India 21 Nos. EHV Transformer orders; 100 MVA to 150 MVA; 220 kV class.

2021

9 Nos. Short Circuit tests cleared in last 2 years: 12.5 MVA to 100 MVA; 66 kV to 220 kV class.

2022

2024

Approved by UPMRCL for Agra METRO Bags Export orders from Africa & Asia Channel to Market: Direct & Global EPCs

Value: 10 M US Dollar; Rating - 5 MVA to 63 MVA; 33 kV to 220 kV class

Certified for ISO 45001:2018 (Occupational Health & Safety)

Assessed & accredited by NABL as per ISO/IEC 17025:2015 for up to 400 kV, 500 MVA

Achieves milestone of 10,000 MVA production in a single year.

First 315 MVA, 400 KV Transformer repair executed

Bags Order of 500 MVA, 400KV Power Transformer

Approved by RDSO for auto transformer upto 16.5 MVA, 55 KV; V Connect Transformers upto 63 MVA, 220 KV

2025

Technical Associates Limited rebranded as Technical Associates Transformers Ltd. with a bold new identity.

EHV Power Transformers

**Power Transformers for RE
Pooling Power Applications**

**Auto Transformers
For Transmission Systems**



Transformer Solutions ↙

Unit Auxiliary Transformers For Generation Plants

Repair & Refurbishing

Remanufacturing



Reliable and Efficient Power & EHV Transformers for Every Requirement

TATL offers a diverse range of Power and Extra High Voltage (EHV) Transformers, including Power, Auto, Generator, and Special Application Transformers. Designed for efficiency, durability, and optimal performance, TATL's transformers cater to power utilities, industries, and infrastructure projects nationwide.

Reliable Services for Transformer Maintenance and Longevity.

Beyond manufacturing, TATL specializes in transformer refurbishment, repair, manufacturing and on-site maintenance services. With advanced diagnostics, testing, and expert engineering, TATL ensures transformers operate at peak efficiency, extending their lifespan while minimizing downtime, thereby offering cost-effective and reliable solutions for power infrastructure and industrial applications.

**Power Transformers for
METRO & MRTS**

**Auto Transformers & V
Connected Transformers for
Railway Traction**



↙ Railway Applications

Driving innovation,
efficiency, and
excellence in
power
transformation.



Expertise, Innovation & Excellence

TATL leverages cutting-edge manufacturing and research to develop high-performance transformers that ensure efficiency, reliability, and compliance with global quality standards.



**State-of-the-Art
Infrastructure**



**Innovative Design,
Research &
Development**



**Performance
Optimization**



**Global Quality
Compliance**

Cutting-Edge Infrastructure for Power Excellence



State-of-Art
Facilities

World-Class Transformer Manufacturing with Cutting-Edge Technology and Certifications.



TATL's Sitarganj facility spans 12.5 acres with 23,000 sq. meters of covered manufacturing space, featuring 22-meter-high bays and 300 MT lifting capacity for large-scale transformer production.



Equipped with vertical winding machines, climate-controlled assembly areas, and in-house routine and type testing, including Impulse and Temperature Rise tests, ensuring superior product quality.



ISO 14001:2015 (Environmental Management System), ISO 45001:2018 (Health & Safety) and ISO 9001:2015 (Quality Assurance) certifications ensure adherence to global manufacturing standards, prioritizing safety, efficiency, and product excellence.



Assessed under ISO/IEC 17025:2017, TATL's in-house test labs test transformers up to 400 kV, 500 MVA, ensuring rigorous quality control and industry-leading reliability.



Innovative Transformer Design & R&D

Aided by a reputed international software-based design, customised needs of individual clients and end users are ensured. Iterations from software-based design narrows down



**Dynamic Short Circuit
Withstand capability**



Short Duration Over Load



**Lightning Impulse
Withstand Capability**



Noise & Vibration Reduction

Application of 3 D Modelling for Mechanical Structure:



Adequate Structural Strength



**Eliminates Mechanical
Mis-Match and Fouling**

A seasoned design team delivers reliable, cost-effective transformer solutions.



Advanced Testing Facilities

A. Short circuit test (Special test as per IEC 60076-1) conducted at CPRI

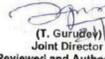
Transformers supplied up to 220 kV have been successfully short circuit tested in accordance with IEC 60076 and IS 2026, in Central Power Research Institute (CPRI), a member of STL International group of testing laboratories.

CENTRAL POWER RESEARCH INSTITUTE		TEST REPORT	
Test Report Number	: CPRI/BLR/HPL/22T0049	Date:	8 June 2022
Name and Address of the Customer	: M/s. Technical Associates Ltd., B-7, Eldaco Industrial Park, Sitarganj, Udhm Singh Nagar, Uttarakhand, India-262405.		
Name and Address of the Manufacturer	: M/s. Technical Associates Ltd., B-7, Eldaco Industrial Park, Sitarganj, Udhm Singh Nagar, Uttarakhand, India-262405.		
Particulars of sample tested	: 100 MVA, 220/33/11kV Three phase transformer		
Type	: Outdoor		
Description of test sample	: Refer sheet 2 of 9		
Serial Number	: SP/1211-2		
Number of samples tested	: One		
Date(s) of Test(s)	: 28 to 31 March 2022 & 12 to 13 May 2022		
CPRI Sample code Number(s)	: HPL22S0067		
Particulars of tests conducted	: Ability to withstand the dynamic effects of short circuit on Main and Tertiary Windings		
Test in accordance with Standard/Specification	: Clause 4.2 of IEC-60076 (Part 5): 2006		
Customer's Requirement	: Nil		
Deviations if any	: Nil		
Name of the witnessing persons	: Mr. Pritosh Joshi, Sr. Manager-OS-11-DTL		
Customers representative	: Mr. Chitransh Srivastava, Asst. Manager, Safety, DTL		
	: Mr. D Anbarasu, A.D., NPTI		
Other than customer's representatives	: Nil		
Test subcontracted with address of the laboratory	: Nil		
Documents constituting this report (in words)	: Nil		
Number of Sheets	: Nine		
Number of Oscillogram(s)	: Eighteen		
Number of Graph(s)	: Nil		
Number of Photograph(s)	: Five		
Number of Test Circuit Diagram(s)	: Two		
Number of Drawing(s)	: Fourteen		
	 (Rajaram Mohan Rao Chennu) Test Engineer		 (S. Sudhakar Reddy) Head of Division Reviewed and Authorized by
ULR-TC5452240HPLT0049F Discipline: Electrical Testing Group: Transmission line equipment and accessories		HIGH POWER LABORATORY P. B. NO. 8066, SADASHIVANAGAR P.O. PROF. SIR C.V. RAMAN ROAD, BENGALURU-560 080, INDIA Tel: + 91 (0) 80 22072511	

B. In-house facilities for all other special tests as per IEC 60076 and IS 2026

1. Dielectric special tests (IEC 60076-3)
2. Winding hot-spot temperature-rise measurements
3. Determination of capacitances windings-to-earth, and between windings
4. Measurement of dissipation factor (tan d) of the insulation system capacitances.
5. Determination of transient voltage transfer characteristics (Annex B of IEC 60076-3 : 2000)
6. Measurement of zero-sequence impedance(s) on three-phase transformers (11.6)
7. Measurement of d.c. insulation resistance each winding to earth and between windings

1. Vacuum deflection test on liquid immersed transformers (11.9)
2. Pressure deflection test on liquid immersed transformers (11.10)
3. Vacuum tightness test on site on liquid immersed transformers (11.11)
4. Frequency response (Frequency Response Analysis or FRA)
5. Check of external coating (ISO 2178 and ISO 2409 or as specified)
6. Measurement of dissolved gasses in dielectric liquid
7. Mechanical test or assessment of tank for suitability for transport

CENTRAL POWER RESEARCH INSTITUTE		ADDITIONAL COPY	
		TEST REPORT	
Test Report Number	: CPRI/BLR/HPL/24T0105	Date:	20 May 2024
Name and Address of the Customer	: M/s. Technical Associates Ltd., B-7, Eldaco Sidoul Industrial Park, Sitarganj, Udhm Singh Nagar, Uttarakhand, India-262405.		
Name and Address of the Manufacturer	: M/s. Technical Associates Ltd., B-7, Eldaco Sidoul Industrial Park, Sitarganj, Udhm Singh Nagar, Uttarakhand, India-262405.		
Particulars of sample tested	: 99/128/160 MVA, 220/132kV Three Phase Auto Transformer		
Type	: Outdoor		
Description of test sample	: Refer sheet 2 of 7		
Serial Number	: SP-1273-1		
Number of samples tested	: One		
Date(s) of Test(s)	: 26, 27, 28 March, 30 April, 01, 02, 03 May 2024		
CPRI Sample code Number(s)	: HPL24S0137		
Particulars of tests conducted	: Ability to withstand the dynamic effects of short circuit.		
Test in accordance with Standard/Specification	: As per Clause 4.2 of IEC-60076 (Part 5): 2006		
Sampling Plan	: Nil		
Customer's Requirement	: Nil		
Deviations if any	: Nil		
Name of the witnessing persons	: Mr. Ravinder Giri, GM-TSG/QAD/CSD		
Customers representative	: Mr. Kamlesh Kumar Upadhyay, Executive Engineer - I, M/s. RRVPNL		
Other than customer's representatives	: Nil		
Test subcontracted with address of the laboratory	: Nil		
Documents constituting this report (in words)	: Nil		
Number of Sheets	: Seven		
Number of Oscillogram(s)	: Nil		
Number of Graph(s)	: Nil		
Number of Photograph(s)	: Five		
Number of Test Circuit Diagram(s)	: One		
Number of Drawing(s)	: Fourteen		
	 (Sriram V) Test Engineer		 (T. Gurudev) Joint Director Reviewed and Authorized by
ULR-TC5452240HPLT0105F Discipline: Electrical Testing Group: Transmission line equipment and accessories		HIGH POWER LABORATORY P. B. NO. 8066, SADASHIVANAGAR P.O. PROF. SIR C.V. RAMAN ROAD, BENGALURU-560 080, INDIA Tel: + 91 (0) 80 22072511	

B. In-house facilities for following type tests as per IEC 60076 and IS 2026

1. Di-Electric Type Tests (IEC 60076-3)
2. Temperature Rise (IEC 60076-2)
3. Noise Measurement (IEC 60076-10)
4. No Load Loss and Current at 90% and 110% of rated Voltage (IEC 60076-1)
5. Power Taken by Fan

State-of-the-Art Transformer Manufacturing & Quality Control

Operational Excellence

The manufacturing works at Sitargani, Uttarakhand are spread over 23,000 Square Metre of covered manufacturing sheds with a manufacturing capacity of 20,000 MVA, per annum. Using TATL's Operational Excellence and Financial strength, in catering to National and International clients, we have continued the strategy of:

Our Pillars of Growth

01

Investing in high-end engineering software

02

Regular type testing and short circuit testing of newly engineered ratings

03

Backward Integration with In-House Facility for effective quality control at:

1. Copper Conductor Drawing and Paper Covering
2. Insulation Processing
3. Oil Storage and Filtration
4. All Major Type Testing including Tank

04

LEAN Principles of manufacturing with single piece flow

05

A state-of-the-art world class manufacturing facility backed by high end Material Handling and Testing Equipment set Ups

1. EOT Cranes up to 300 MT handling Capacity
2. Vapour Phase Drying Plant
3. Vertical Winding Machines with Variable Frequency Drives (VFD)
4. Climate and dust control winding and assembly stations

Testing & Other Infrastructure

TATL EHV Laboratory has been assessed and accredited by NABL up to 400 KV, 500 MVA in accordance with the standards ISO/IEC 17025: 2017 for its competence of testing laboratories. NABL is an autonomous body setup under Ministry of Commerce & Industry Government of India (DPIIT) and is a constituent board of Quality Council of India (QCI). We have full fledged plant machinery and Testing Equipments suitable for manufacturing up to 400 kV, 500 MVA.



Repairing a transformer restores it to its original electrical



This process includes re-winding coils, re-insulating the core,



This process includes re-winding coils, re-insulating the core,



Equipment	Quantity	Make
Motor & Generator Test set	1	Integrated Electric.co. Pvt. Ltd + Crompton Greaves
	1	Siemens + AEG
	1	CG + Kirloskar Electric
Impulse Generator	2	HAEFELY - Range: up to 900 & 1600 Kvp
PD Measurement Instruments	2	Omicron/OHV Diagnostic (6-channel)
Dissolved Gas Analysis (DGA)	1	Mayura Analytical
Vapour Phase Drying System	1	SAVAS
Autoclave	2	SAVAS
Oven	3	TAL
Largest EOT crane	150Tx2	Mukund
Winding Machine	18	J.V Engg.
Vertical Winding Machine	1	Vikrant
Temperature Rise test set-up	3	Three Set-ups for uninterrupted working
Clean room for Winding/Assembly	2	-

Proven Expertise & Global Trust

Manufacturing High-Performance Transformers with Decades of Excellence and Reliability

Reliable, high-performance transformers for India and global markets

01

Over 50 years, TATL has supplied 3,000+ Power and EHV Transformers globally.

02

Delivered 1,50,000 MVA transformers, including 132 kV for 20+ years and 220 kV for 10+ years.

03

Preferred by national and international companies for quality, reliability, and cost-effectiveness.





The Way Forward

Vinamra Agarwal
JMD & CEO

Technical Associates Transformers Ltd. (TATL) as a brand, has always led the way with authenticity and with this ethos at the core, TATL is checking into newer, relevant areas of energy. With an organisational commitment to Continuous Learning, Commitment to Quality, Continued Improvement, and Innovative approach to its Products, Processes and People, TATL has successfully catered to the requirements of its many customers with quality and timely supplies, service, and support.

Our vision for the future of energy hinges on the three key defining parameters of

01

**Best in Class
Energy
Efficiency**

02

**Reduced
Carbon Foot
Print**

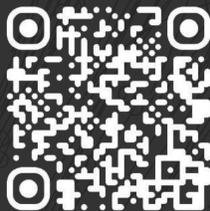
03

**A Sustainable
and Inclusive
Future for all**

With this vision, we hope to continue being a partner in the growth of the Nation, contributing to a prosperous, energy efficient, green planet.



**Building a smarter, stronger
energy future through
precision and innovation.**



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Legacy of Trust. Future of Power.



**TECHNICAL ASSOCIATES
TRANSFORMERS LTD.**

(formerly known as Technical Associates Limited)

An ISO 14001 : 2015 , ISO 45001 : 2018 & ISO 9001 : 2015 Company

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