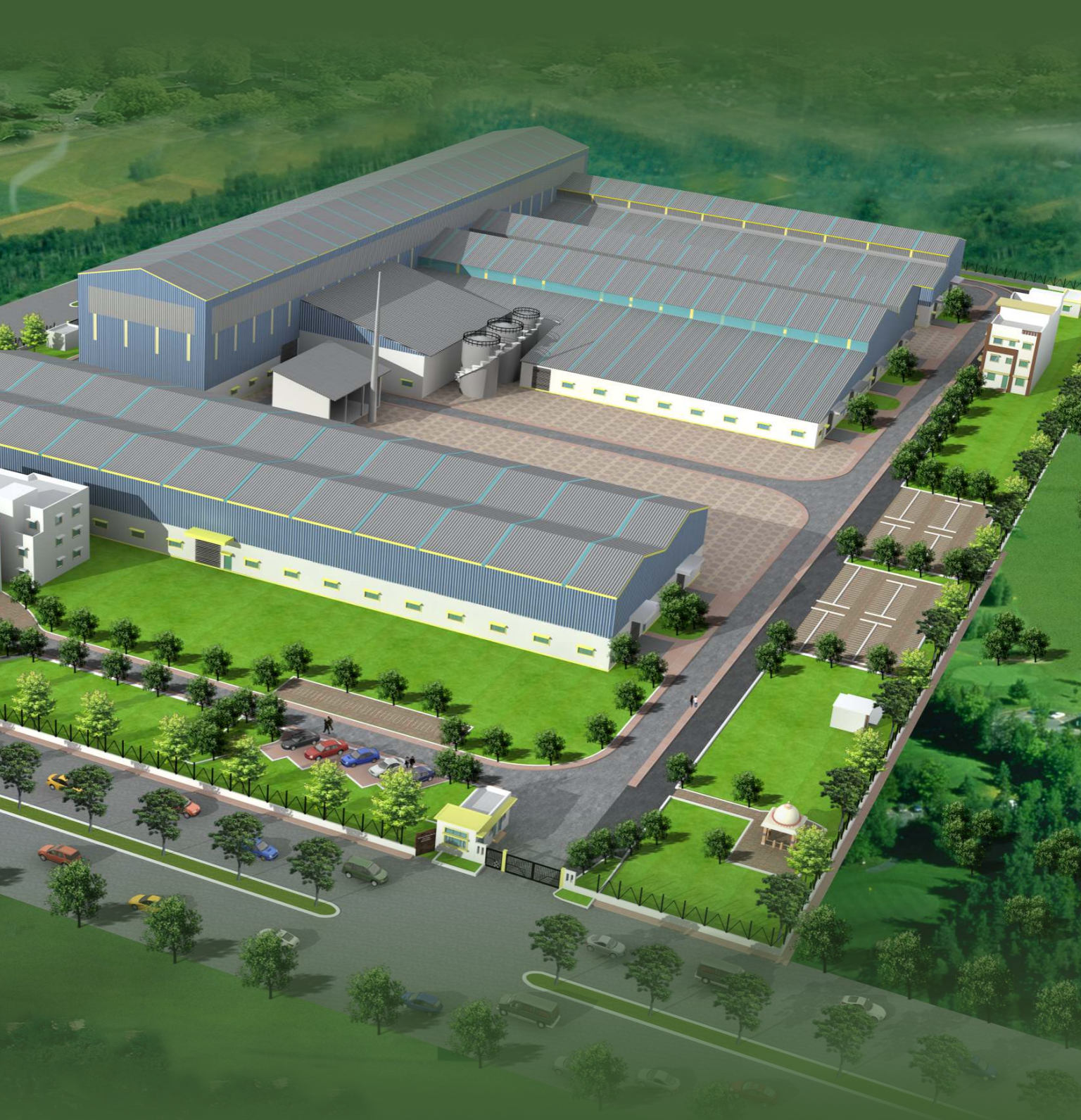




**TECHNICAL
ASSOCIATES
LIMITED**

An ISO 9001 : 2015 & ISO 45001 : 2018 Company



Energising India since 1969...

Technical Associates Limited

ABOUT US

Technical Associates Ltd. (TAL) is one of India's most respected, reliable, and well regarded pure-play transformer specialists in the manufacturing of Power and Extra High Voltage (EHV) Transformers. Wherever electrical energy is generated, transmitted and distributed, TAL offers power transformation products, services & solutions meeting customer and end user requirements.

Technical Associates Ltd. (TAL) was established in 1969 in Lucknow Uttar Pradesh INDIA. Today, with an annual manufacturing capacity of 20,000 MVA, TAL has grown into a well established company and is amongst the Top Ten OEMs of Power and EHV Transformers in India. Today, TAL is proud to be a unique manufacturer having indigenously developed and refined the capability to manufacture and supply upto 500 MVA, 400kV class transformers, with TAL transformers of 220 kV having been successfully type tested and short circuit tested in accordance with IEC 60076 and IS 2026, at Central Power Research Institute (CPRI) - a member of STL – the Short-Circuit Testing Liason of international testing laboratories.



PRODUCT RANGE

TAL manufactures HV and EHV transformers (up to 400 KV) which cater to following applications:

1. Power Transformers
2. Green Energy Grid Connected Renewable Transformers
3. Transformers for Railway Applications
 - o METRO & Mass Rapid Transit System (MRTS)
 - o Auto Transformer
 - o Track-Side
4. Auto Transformers for Transmission Grids
5. Interconnecting Transformers
6. Generator Transformers
7. Unit Auxiliary Transformers
8. Isolation Transformers
9. Repair and Refurbishment of Ageing Transformers for Energy Efficiency
10. Re-Manufacturing for Power/ Range/ Life enhancement/ Augmentation



160 MVA, 220/132/11 KV, Auto Transformer



40 MVA, 132/33 KV Power Transformer



100 MVA, 220/132/11 KV Auto Transformer

FACILITIES

EHV Power transformers are manufactured by TAL out of its state of the art facility at Sitarganj, Uttarakhand. Spread out over an area of 12.5 acres with total covered manufacturing area of approx. 23,000 sq mtr, this is one of India's largest transformer manufacturing setups. Featuring heights of up to 22 mtr in its manufacturing bays, adequate lifting capacity up to 300 MT, and all modern equipments including Vertical Winding machines, high capacity assembly stations, climate controlled winding and assembly areas and capability for conducting all routine and type tests in-house (including Impulse & Temperature Rise), TAL's manufacturing setup is one of the most modern setups in India today.



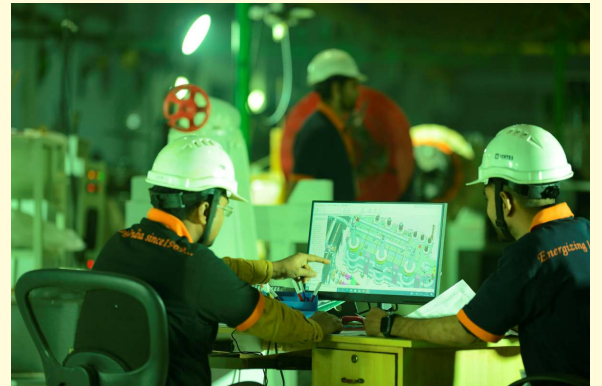
The factory and its manufacturing processes have also been certified in compliance to ISO 45001:2018 - the Standard for Occupational Health & Safety Management System in the work place, and ISO9001:2015 – the standard for quality assurance.

Our test facilities have been assessed and accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) for compliance with ISO/ IEC 17025:2017 upto 400 KV, 500 MVA, offering further proof of robustness of the quality of transformers manufactured by us.

DESIGN, RESEARCH AND DEVELOPMENT

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
- Eliminates Mechanical Mis-Match and Fouling
- Adequate Structural Strength



Highly experienced design team under able leadership of industry doyens have enabled rolling out reliable products offering cost effective and economical solutions to power the economy.



EXPERTISE AND EXPERIENCE

Led by seasoned technocrats through its history, TAL has supplied approximately 3000 Numbers of Power and EHV Transformers, both in India and overseas. We have a 2 decade manufacturing experience of 132 KV transformers and have been manufacturing 220 KV class transformers for more than a decade. Over the last 50 years, 1,50,000 MVA (One Hundred Fifty Thousand MVA) equivalents of Transformers have been successfully supplied by TAL and are in satisfactory operation in our customer networks.

We are proud to be a manufacturer of choice for many transmission utilities across the country with many other leading national and international companies choosing TAL's transformers for their robustness, quality and value for money. We are proud of our rich legacy which motivates us to continue to strive harder in the future.

WAY FORWARD

Technical Associates Limited (TAL) as a brand, has always led the way with authenticity and with this ethos at the core, TAL 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, TAL 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:

- Best in Class Energy Efficiency
- Reduced Carbon Foot Print
- 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.



Engisring India since 1969...

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