

India Instrument Transformers Market By Type (Current Transformers, Potential Transformers, Combined Instrument Transformers), By Dielectric Medium (Liquid Dielectric, SF6 Gas Dielectric, Solid Dielectric), By Voltage (Distribution Voltage, Sub-Transmission Voltage, High Voltage Transmission, Extra High Voltage Transmission, Ultra-High Voltage Transmission), By Enclosure Type (Indoor & Outdoor), By Cooling Type (Dry & Oil Immersed), By Phase (Single & Three), By Application (Transformer & Circuit Breaker Bushing, Switchgear Assemblies, Relaying, Metering & Protection), By End User (Power Generation, Railways & Metros, Industries & OEMs), By Region, Competition, Forecast & Opportunities, 2018-2028

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Abstracts

India Instrument Transformers Market is anticipated to grow at a robust CAGR during the forecast period owing to demand of upgrading in power infrastructure.

An Instrument Transformers is a type of transformer used in AC power systems to measure electrical quantities such as voltage, current, power, energy, power factor, and frequency. Potential transformers are also equipped with protective relays to protect the power grid.

The main purpose of the transformer is to step down the AC power voltage and current and measure the corresponding signal. Very high voltage and current levels in the power system. Building instrumentation to measure such high levels of voltage and current is very difficult and expensive. Measuring devices are usually designed for 5 amps and 110 volts. A large number of electrical parameters can be measured using low power transducers. Therefore, these transformers are very popular in modern power systems.

For measurement or protection systems, high voltages can be converted to low voltages, and large currents can be converted to small currents. Its main function is to proportionally convert high voltage or high current to standard low voltage (100V) or standard low current (5A or 1A, all relative to the nominal value) to standardize measuring devices. At the same time, transformers can be used to isolate high voltage systems for personal and equipment safety. An instrument transformer is a type of transformer that converts current and voltage using the principle of electromagnetic induction. To monitor, measure and protect the system, transformers proportionally transfer performance information from the primary circuit to the secondary circuit and make it available to secondary devices such as meters and relay protection devices. With sufficient insulation strength between the primary and secondary windings of the transformer, the secondary equipment and personnel can be electrically isolated from the primary high voltage, and the secondary side of the transformer is grounded at one point to ensure the safety of equipment and personnel.

Expanding Grid Infrastructure is Fueling the Indian Instrument Transformers Market

As the Indian energy market faces increasing power demand, the power grid is becoming more susceptible to voltage fluctuations. Potential transformers ensure the stability, protection and economy of power grids. They convert or reduce high voltages and currents to maximize safety and ease of use. In order to be able to meet the increasing demand, stable operation of the power system is necessary. Power grid failures result in significant economic losses and catastrophic damage to electrical infrastructure. These situations can be avoided by using potential transformers that ensure safe and cost-effective automation of control systems. By combining a potential transformer with a general electrical measuring instrument, it is possible to measure a large amount of electricity with a potential transformer.. The Indian transformer industry is experiencing tremendous growth due to favorable regulatory measures to maintain grid stability and energy efficiency. For example, the National Electricity Policy (NEP, 2021) aims to ensure grid stability at any transmitting station or substation, including

high voltage equipment such as potential transformers and switchgears. Moreover, growing interest in rural electrification coincides with the upgrading of existing power grids. This is because authorities are being asked to build efficient protection and surveillance mechanisms. Hence, increasing network complexity across the electrical infrastructure coupled with emerging peak power demands of end-users is driving the growth of the Indian instrument transformer market.

Market Segmentation

India Instrument Transformers market is segmented into type, dielectric medium, voltage, enclosure type, cooling type, phase, application, end user and region. Based on type, the market is bifurcated into current transformers, potential transformers, and combined instrument transformers. Based on dielectric medium, the market is further segmented into liquid dielectric, SF6 gas dielectric, and solid dielectric. Based on voltage, the market is further split into distribution voltage, sub-transmission voltage, high voltage transmission, extra high voltage transmission, and ultra-high voltage transmission. Based on enclosure type, the market is further bifurcated into indoor & outdoor. Based on cooling type, the market is further split into dry v/s oil immersed. Based on phase, the market is further bifurcated into single phase and three phase. Based on application, the market is further divided into transformer & circuit breaker bushing, switchgear assemblies, relaying, metering & protection. Based on end user, the market is further bifurcated into energy & utilities, power generation, railways & metros, industries & OEMs, and others. Based on region, the market is further divided into North, South, West and East.

Market player

Major market players in the India Instrument Transformers Market are ABB India Ltd., GE Power India Limited, Siemens Limited, Artech Smartgrid India Private Limited, PFIFFNER Instrument Transformers Pvt. Ltd., Schneider Electric India Pvt. Ltd., Eaton Technologies Pvt. Ltd., Mitsubishi Electric India Pvt. Ltd., CG Power and Industrial Solutions Ltd, and Bharat Heavy Electricals Limited.

Report Scope:

In this report, India Instrument Transformers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Instrument Transformers Market, By Type:

Current Transformers

Potential Transformers

Combined Instrument Transformers

India Instrument Transformers Market, By Dielectric Medium:

Liquid Dielectric

SF6 Gas Dielectric

Solid Dielectric

India Instrument Transformers Market, By Voltage:

Distribution Voltage

Sub-Transmission Voltage

High Voltage Transmission

Extra High Voltage Transmission

Ultra-High Voltage Transmission

India Instrument Transformers Market, By Enclosure Type:

Indoor

Outdoor

India Instrument Transformers Market, By Cooling Type:

Dry

Oil Immersed

India Instrument Transformers Market, By Phase:

Single

Three

India Instrument Transformers Market, By Application:

Transformer & Circuit Breaker Bushing

Switchgear Assemblies

Relaying

Metering & Protection

India Instrument Transformers Market, By End User:

Power Generation

Railways & Metros

Industries & OEMs

India Instrument Transformers Market, By Region:

South India

North India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India

India Instrument Transformers Market By Type (Current Transformers, Potential Transformers, Combined Instrumen...

Instrument Transformers Market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players.

Contents

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.3. Markets Covered
 - 1.4. Years Considered for Study
 - 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON INDIA INSTRUMENT TRANSFORMERS MARKET

5. VOICE OF CUSTOMERS

6. INDIA INSTRUMENT TRANSFORMERS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type (Current Transformers, Potential Transformers, Combined Instrument Transformers)
 - 6.2.2. By Dielectric Medium (Liquid Dielectric, SF6 Gas Dielectric, Solid Dielectric)
 - 6.2.3. By Voltage (Distribution Voltage, Sub-Transmission Voltage, High Voltage Transmission, Extra High Voltage Transmission, Ultra-High Voltage Transmission)
 - 6.2.4. By Enclosure Type (Indoor & Outdoor)
 - 6.2.5. By Cooling Type (Dry & Oil Immersed)

- 6.2.6. By Phase (Single & Three)
- 6.2.7. By Application (Transformer & Circuit Breaker Bushing, Switchgear Assemblies, Relaying, Metering & Protection)
- 6.2.8. By End User (Power Generation, Railways & Metros, Industries & OEMs, Others)
- 6.2.9. By Region
- 6.3. By Company
- 6.4. Market Map

7. NORTH INDIA INSTRUMENT TRANSFORMERS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Dielectric Medium
 - 7.2.3. By Voltage
 - 7.2.4. By Enclosure Type
 - 7.2.5. By Cooling Type
 - 7.2.6. By Phase
 - 7.2.7. By Application
 - 7.2.8. By End User

8. SOUTH INDIA INSTRUMENT TRANSFORMERS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Dielectric Medium
 - 8.2.3. By Voltage
 - 8.2.4. By Enclosure Type
 - 8.2.5. By Cooling Type
 - 8.2.6. By Phase
 - 8.2.7. By Application
 - 8.2.8. By End User

9. WEST INDIA INSTRUMENT TRANSFORMERS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Dielectric Medium

9.2.3. By Voltage

9.2.4. By Enclosure Type

9.2.5. By Cooling Type

9.2.6. By Phase

9.2.7. By Application

9.2.8. By End User

10. EAST INDIA INSTRUMENT TRANSFORMERS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Dielectric Medium

10.2.3. By Voltage

10.2.4. By Enclosure Type

10.2.5. By Cooling Type

10.2.6. By Phase

10.2.7. By Application

10.2.8. By End User

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

13. POLICY & REGULATORY LANDSCAPE

14. INDIA ECONOMIC PROFILE

15. COMPANY PROFILES

15.1. ABB India Ltd.

- 15.1.1. Business Overview
- 15.1.2. Key Revenue and Financials (If available)
- 15.1.3. Recent Developments
- 15.1.4. Key Personnel
- 15.1.5. Key Product/Services offered

15.2. GE Power India Limited

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials (If available)
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel
- 15.2.5. Key Product/Services offered

15.3. Siemens Limited

- 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials (If available)
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel
- 15.3.5. Key Product/Services offered

15.4. Artech Smartgrid India Private Limited

- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials (If available)
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel
- 15.4.5. Key Product/Services offered

15.5. PFIFFNER Instrument Transformers Pvt. Ltd.

- 15.5.1. Business Overview
- 15.5.2. Key Revenue and Financials (If available)
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services offered

15.6. Schneider Electric India Pvt. Ltd.

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials (If available)
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel
- 15.6.5. Key Product/Services offered

15.7. Eaton Technologies Pvt. Ltd.

- 15.7.1. Business Overview
- 15.7.2. Key Revenue and Financials (If available)
- 15.7.3. Recent Developments
- 15.7.4. Key Personnel
- 15.7.5. Key Product/Services offered

15.8. Mitsubishi Electric India Pvt. Ltd.

- 15.8.1. Business Overview
- 15.8.2. Key Revenue and Financials (If available)
- 15.8.3. Recent Developments
- 15.8.4. Key Personnel
- 15.8.5. Key Product/Services offered

15.9. CG Power and Industrial Solutions Ltd

- 15.9.1. Business Overview
- 15.9.2. Key Revenue and Financials (If available)
- 15.9.3. Recent Developments
- 15.9.4. Key Personnel
- 15.9.5. Key Product/Services offered

15.10. Bharat Heavy Electricals Limited

- 15.10.1. Business Overview
- 15.10.2. Key Revenue and Financials (If available)
- 15.10.3. Recent Developments
- 15.10.4. Key Personnel
- 15.10.5. Key Product/Services offered

16. STRATEGIC RECOMMENDATIONS**17. ABOUT US & DISCLAIMER**

(Note: The companies list can be customized based on the client requirements.)

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