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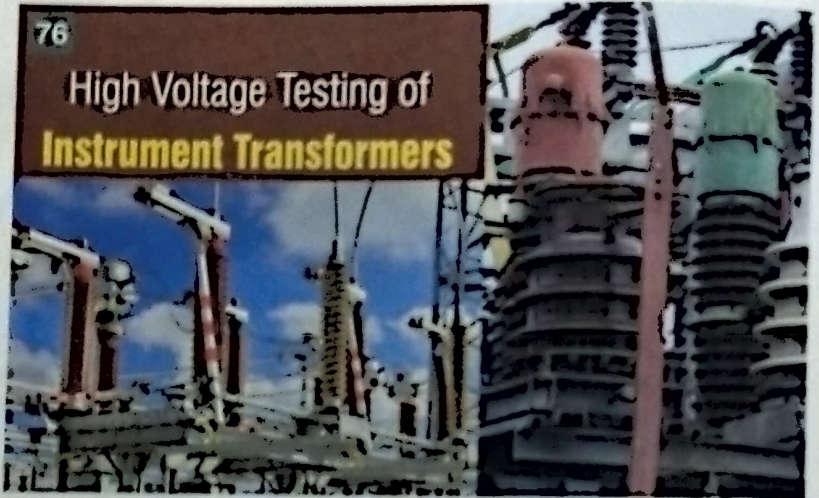
"Events like ELEC RAMA provide opportunities for businesses to look at Indian Manufacturers and develop required B2B linkages"



Mr Nishi Kant Singh
First Secretary (Economic & Commerce), Embassy of India, Manila

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High Voltage Testing of Instrument Transformers



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Interview

IEEMA Journal speaks with the experts from the Instrument Transformer Industry for their views on latest Trends and Technological Advancements

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Guest Article

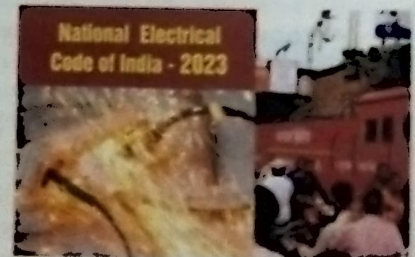
High Voltage Testing of Instrument Transformers

Current and potential transformers (CTs & PTs) are defined as transformers intended to supply measuring instruments, meters, relays, and other protection equipment. They reduce line current and voltage to suitable standard values and also isolate the equipment connected to them from high-voltage power systems. Power system voltage in India has reached the level of 765 /800 kV and several instrument transformers are in operation for last few years

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Insight

National Electrical Code of India - 2023



Thousands of people die every year in developing countries due to electrical accidents. Fire has destroyed property worth millions of dollars. Data reveals that 42% of fires in buildings are due to electrical short circuits, and approximately 5000 deaths are due to electrical reasons. The majority of electrical accidents, such as fire, happen in low-voltage systems.

For suggestions and feedback please write to us on shabini.singh@ieema.org

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Tech Space

Basics & Selection of Specifications (Ratings and their Realistic Parameters) of Instrument Transformers

Instrument transformers, as the name suggests, are used with measurement and protection instruments in order to measure electrical parameters such as current and voltage or to use these parameters to activate protection schemes. The secondary side of the instrument transformer is connected to meters for measurement of current and voltage, and to protective relays for tripping circuit breakers in the event of faults.

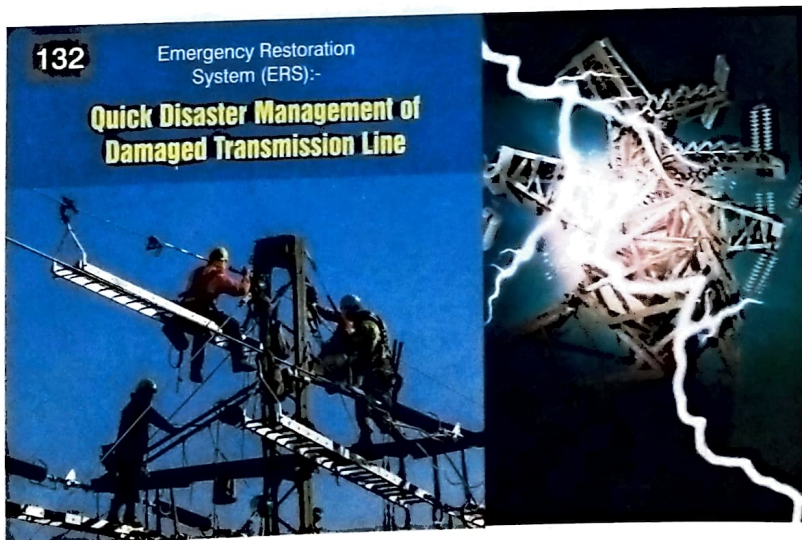


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In Depth

Emergency Restoration System (ERS):- Quick Disaster Management of Damaged Transmission Line

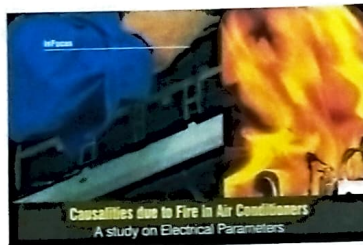
Electricity is the backbone of the modern world. Electricity produced by power plants is transmitted over long-distance using power transmission towers. Transmission towers are prone to collapse under heavy wind load. Due to practical limitation in design and constraints of resources.



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In Focus

Causalities due to Fire in Air Conditioners A study on Electrical Parameters



The hot climate in India has made the air conditioner industry very prosperous; nearly six to seven million units are sold last year.

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Insight

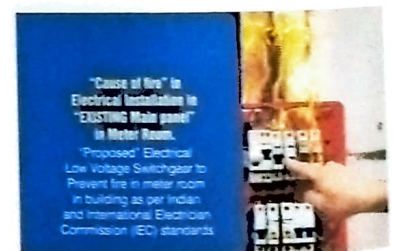
Insulation Systems in Instrument Transformers

Types of Insulation Systems. There are basically three types of Insulation Systems used in Electrical Equipment's. Amongst the Gas based Insulation Systems, SF6 Gas is the most commonly used Gas for Electrical Equipment's especially for High Voltage Application

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Opinion

"Cause of fire" in Electrical Installation in "EXISTING Main panel" in Meter Room. "Proposed" Electrical Low Voltage Switchgear to Prevent fire in meter room in building as per Indian and International Electrician Commission (IEC) standards



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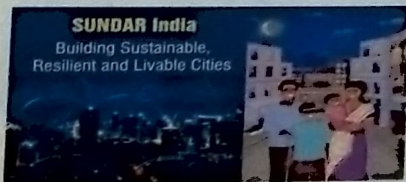
Guest Speak
Futuristic Trends in EHV Instrument Transformers



Instrument transformers are fundamental equipment's for measuring, control, and protection of power networks. Conventionally these products are designed according to the requirements of measurement and protection system for the substation.

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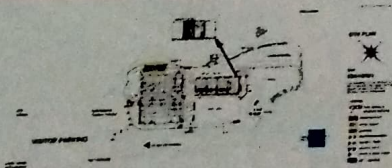
Opinion
SUNDAR India Building Sustainable, Resilient and Livable Cities



The accelerated pace of urbanization will add 2.5 billion people to the cities of the world in the next three decades. Rapid urbanization offers opportunities and presents challenges, particularly in the context of economic development, demographics, energy use, and environmental sustainability.

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Eleccrama Update



15th Edition
18-22 FEBRUARY 2023
 INDIA EXPO MART, GREATER NOIDA, DELHI NCR, INDIA

The 15th edition of ELECRAMA-2023 with the theme "Reimagine Energy for Sustainable Future", is scheduled to be held from 18th to 22nd February 2023 at India Expo Mart Ltd., Greater NOIDA, Delhi NCR, India. he exhibition will bring a plethora of opportunities in Innovation & Future Technologies, Sustainability through Energy Conservation, New Business Opportunities and Supply Chains, Start-up Ecosystem and many more.

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