



**One day webinar on: “Protection of enclosures from environmental Ingress and test procedures”**

**Date: 03.03-2022, Thursday Time 10.00AM to 3.30 PM**



**CENTRAL POWER RESEARCH INSTITUTE**  
(Govt. of India Society, Ministry of Power)  
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Ensured  
learning  
opportunity  
technique and  
procedure for  
Ingress  
protection

—  
Degree of  
Ingress  
protection  
IS/IEC 60529

—  
1<sup>st</sup> characteristic  
numeral  
1X to 6X

—  
2<sup>nd</sup>  
characteristic  
numeral  
X1 to X9

**Electrical  
Appliances  
Technology  
Division,  
Bangalore**

# CENTRAL POWER RESEARCH INSTITUTE

## ELECTRICAL APPLIANCES TECHNOLOGY DIVISION

### About the Webinar Workshop

Many products undergo a variety of tests before they reach the market. These tests include product safety testing, electromagnetic compatibility, vibration testing and many others.

Products used in indoor or outdoor are often tested against “ingress,” that is, the product’s resistance to water, dust and foreign objects. There are several reasons for ingress testing, including safety, functionality and product marketing.

Many products require insulation from outside elements in order to function properly. Those outside elements include mist, steam, sprayed water, sand, oil and even fingers, just to name a few. Ingress protection testing helps determine whether a particular product is going to function appropriately when placed in the field.

Different products require different levels of testing and different types of testing. Generally, ingress protection is divided into testing for ingress from foreign objects or liquids. With many products, the point where it would be most likely to fail comes at a seam between two parts.

This tutorial will be focused on the degree of ingress protection in terms of standards in use, technical challenges in testing, feasibility and safety, testing and certification, beside the equipment and instruments required for testing. The tutorial is informative and beneficial to all spheres of personnel.

### Participants

The tutorial will be focused on the degree of ingress protection. The participants are envisaged from various areas like; product designers & practicing engineers, manufacturer, maintenance & developers, consultants, academic institutes, Govt. organization’s etc.

### Topics covered

- Understanding the standard for IP testing
- IP testing of enclosures
- IP testing of rotating machines, luminaires, energy meters
- Case studies
- IP test Facilities available at CPRI
- Test demonstration
- Procedure to get tested at CPRI
- Questions and answers



## Pre-requisites

The Participant should have good internet connection and good quality headphone/speaker set with Laptop/Desktop. The participant should also have notepad/pen to note down important points.

## Registration

The Webinar fee per participant is as per the following table.		
Sl. No.	Institutions	Fee per person (Rs.) + GST as applicable
1.	State Power Utilities/ Government agencies	
	up to 5 participants	1500/-
	5 – 10 participants	1300/-
	10 – 30 participants	1200/-
2.	Private sector organisations	
	up to 5 participants	2000/-
	5 – 10 participants	1500/-
	10 – 30 participants	1200/-
3.	Students of Educational institutions	500/-
4.	Faculty Members of Educational Institutions	1000/-
5.	Lump sum amount if the participation is more than 10 people up to 50 people per batch for academic institutes only	15000/- per day
6.	charges for foreign delegates	3000/-

## Mode of Payment

In the form of Demand Draft drawn in favor of “Accounts Officer, Central Power Research Institute” payable at “Bengaluru” or by wire transfer/RTGS on request. Bank transaction charges if any shall be borne by the respective delegate or organizations.

RTGS details:

STATE BANK OF INDIA

Swift code No: SBININBBG25

SBI A/C No: SB-10270577483 (International)

SBI A/C No: 10356553310 (National)

Beneficiary Name: CPRI Bangalore

IFSC: SBIN0002215

## CPRI'S PROFILE

Central Power Research Institute (CPRI) set up in 1960 by the Government of India, functions as a National organization for applied research in power sector and also serves as an Independent Laboratory for testing and certification of power equipment. CPRI provides consultancy services on various facets of power sector. CPRI has expertise in the area of Simulation, System Analysis and Testing and Diagnostics. CPRI laboratories have modern equipment needed for Power system simulation, Short circuit testing, Diagnostics of equipment, Materials engineering, Seismic qualification etc. The institute has made immense contribution to the advancement of research and development in power sector besides finding solution to various problems faced by power utilities and industries in areas of transmission and distribution.

CPRI is continually setting new standards in training and continuing education from basic theoretical information to practical hands-on electrical equipment training. CPRI courses have made substantial impact on the level of training and education to India's electricity utilities, manufacturing companies, transmission and distribution companies.

### Faculty

The lecture will be provided by experienced in-house Faculty member and external experts who have through knowledge on Ingress protection standards and testing.

### Coordinator(s) Details

Registration may kindly be sent by email / fax / post to

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