

**One-day Workshop on “Need of Ingress Protection Testing for enclosures, test standard and Procedure”**

**Date: 12.12-2024,  
Thursday**

**Time 10.00AM to 5.00PM**



**ENSURED LEARNING  
OPPORTUNITY  
TECHNIQUE AND  
PROCEDURE FOR  
ENVIRONMENTAL  
INGRESS  
PROTECTION**

**DEGREE OF INGRESS  
PROTECTION 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  
(GOVT. OF INDIA SOCIETY, MINISTRY OF POWER)**

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# CENTRAL POWER RESEARCH INSTITUTE

## ELECTRICAL APPLIANCES TECHNOLOGY DIVISION

### **About the 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 workshop 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 workshop is informative and beneficial to all spheres of personnel.

### **Participants**

The workshop 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**

- Test 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

## Registration

The Workshop fee per participant is as per the following table.		
Sl. No.	Institutions	Fee per person (Rs.) + GST as applicable
1	General Registration fees	6000/-
2	Private sector organisations	
	Min. of 3 participants	5400/- (10% Discounted)
	Min. of 4 or more participants	4800/- (20% Discounted)
3.	State Power Utilities/ Government agencies	4200/- (30% Discounted)
4.	Faculty Members of Educational Institutions	4200/- (30% Discounted)
5.	Students of Educational institutions	3000/- (50% Discounted)
5.	Exclusive training programmes will be conducted for customers from Government / Semi Government / Public sector / Private sector / utilities / academic Institutes etc.	A minimum 10 number participants per batch will be charged at approved rates as above. Beyond 10 persons Pro-rata charges will be applicable.

## Mode of Payment in following options

1. Please make the payment through the link. [https://cpri.res.in/online-testing/pay\\_online](https://cpri.res.in/online-testing/pay_online) and update us to convey the test dates. Do contact 080-22072262 in case of any clarifications
2. Please provide Demand Draft drawn in favor of “Central Power Research Institute” payable at “Bengaluru”

## Registration communication

The confirmation of registration for the workshop may please be submitted in attached registration form

## 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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