

**CPRI**

**TEST REPORT**



**Central Power Research Institute**

**(A Govt. of India Society)**

**P.B.No. 8066, Sadashivanagar Post Office,**

**Sir C.V. Raman Road,**

**Bangalore - 560 080 (INDIA)**



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**ELECTRICAL APPLIANCES TECHNOLOGY DIVISION  
CENTRAL POWER RESEARCH INSTITUTE**

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NABL Accredited  
Laboratory  
Certificate No. T-0010

Sheet 1 of 3

**TEST REPORT**

Test Report Number: 324EATDIP09S0173

Dated: 26.08.2009

Name & Address of the Customer : M/s. POWER CONTROL EQUIPMENTS  
No. 37/2, Gowdanapalya,  
Subramanyapura Main Road,  
Bangalore - 560 061

Name & Address of the Manufacturer : M/s. POWER CONTROL EQUIPMENTS  
No. 37/2, Gowdanapalya,  
Subramanyapura Main Road,  
Bangalore - 560 061

**Particulars of sample tested**

Condition of the sample on Receipt : New (Inside the panel the following components are mounted - ammeter, voltmeter, contactor, indicating lamps, push buttons, selector switches, MCCB without wiring)  
Type : Outdoor  
Designation : Electrical Control Panel for Diverter Damper (415V AC)  
Serial Number : -Nil-  
Number of samples tested : One only  
Date (s) of Test (s) : 20.08.2009 & 21.08.2009  
CPRI sample code no(s) : EATDIP09S0173

**Particulars of tests conducted**

Test in accordance with Standard / specification : IP 65 test as per IS 12063:1987 (Reaffirmed 2004)  
Sampling Plan : Not applicable  
Customer's requirement : 1. IP 65 tests as per IS 12063:1987 (Reaffirmed 2004)  
2. Insulation Resistance Test at 500 V DC and  
3. Power Frequency High Voltage Test at 2.0kV AC - to be applied for one minute between all terminals of terminal block shorted together and body; to be conducted before and after IP Test.

Deviations if any : -Nil -

**Name of the witnessing persons**

Customer's representative : Mr. N. Ganesh Ballal & Mr. Devendrappa  
Other than customer's representatives : -Nil -  
Test subcontracted with address of the laboratory : None

**Documents constituting this report (In words)**

Number of sheets : Three Only  
Number of oscillograms : -Nil -  
Number of graphs : -Nil -  
Number of photos : -Nil -  
Number of test circuit diagrams : -Nil -  
Number of drawings : One only. Drg. No. 0910-PROJ29-01, Rev.01, Sheet 1 of 1.

V.N. Nagaraja - 6  
(NAGARAJA RAO V.N)  
TEST ENGINEER



K. Manohara  
(K. MANOHARA)  
ADDITIONAL DIRECTOR

AUTHORISED SIGNATORIES



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Sheet 2 of 3

Dated: 26.08.2009

Test Report Number: 324EATDIP09S0173

TEST RESULTS:

SL. NO.	TESTS CONDUCTED	REFERENCE CLAUSE	OBSERVATIONS		
1.0	IP 6X Category 2 test as per IS 12063:1987 (Reaffirmed 2004)	Protection against ingress of solid foreign objects - Dust test - Clause 7.6.	No dust found entered inside the Electrical Control Panel for Diverter Damper. <b>"Protection provided is satisfactory".</b>		
2.0	IP X5 test as per IS 12063:1987 (Reaffirmed 2004)	Protection against ingress of Water - Clause 8.5.	Few drops of water found on the bottom edge of front door inside the Electrical Control Panel for Diverter Damper.		
3.0	<b>Electrical tests Conducted</b>		<b>Before IP 6X test</b>	<b>After IP 6X test / Before IP X5 test</b>	<b>After IP X5 test</b>
3.1	Insulation Resistance Test at 500V DC applied for one minute between all terminals of terminal block shorted together and body.		<b>9.14 GΩ</b>	<b>2.92 GΩ</b>	<b>6.88 GΩ</b>
3.2	Power Frequency High Voltage Test at 2.0kV AC applied for one minute between all terminals of terminal block shorted together and body.		<b>Withstood</b>	<b>Withstood</b>	<b>Withstood</b>

**Compliance Note:** The "Electrical Control Panel for Diverter Damper" sample submitted for IP 65 Test complies with the requirement of the test as per IS 12063:1987 (Reaffirmed 2004) Standard.

*V N Nagaraj*  
Test Engineer