



# NABL

**National Accreditation Board for  
Testing and Calibration Laboratories**

Department of Science & Technology, India

**CERTIFICATE OF ACCREDITATION**

## FLUID CONTROL RESEARCH INSTITUTE

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

**PALAKKAD**

in the field of

## FLUID FLOW TESTING

Certificate Number **T-0027**

Issue Date **13/05/2010**

Valid Until **12/05/2012**

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

**N. Venkateswaran**  
Convenor

**Anil Relia**  
Director

**Dr. T. Ramasami**  
Chairman



# रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन  
प्रयोगशाला प्रत्यायन बोर्ड  
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

फ्लूइड कंट्रोल रिसर्च इन्स्टीट्यूट

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

**पलककाड**

में स्थित इसकी सुविधाओं के लिए  
**तरल-प्रवाह परीक्षण**  
के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या

प- 0027

जारी करने की तिथि

13/05/2010

वैधता की तिथि

12/05/2012

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

एन. वैकटेस्वरन

एन. वैकटेस्वरन

संयोजक

अनिल रेलिया

अनिल रेलिया

निदेशक

डा. टी. रामसामी

डा. टी. रामसामी

अध्यक्ष



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**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Fluid Control Research Institute, Palakkad		
Accreditation Standard	ISO/IEC 17025: 2005		
Field	Fluid Flow Testing	Issue Date	13.05.2010
Certificate Number	T-0027	Valid Until	12.05.2012
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I. WATER &amp; OIL LABORATORY</b>				
1.	<b>Domestic Water Meter</b> (IS 779-1994, IS 6784-1996, ISO 4064 /1-1993, ISO 4064/3-1999, ISO 4064-2005)	Hydrostatic Pressure Test Accuracy Test Pressure Loss Test Temperature Suitability Test Endurance Test	<b>WP/WFL/02.0</b>  WT-17,clause 3.1.1 WT-17,clause 3.1.2 WT-17,clause 3.1.3 WT-17,clause 3.2 WT-17,clause 3.2	Upto 20 bar 15 lph to 30 cu.m/h upto 1bar upto 50°C 1 lakh cycles & 100 hrs
2.	<b>Bulk Water Meter</b> (IS 2373-1981, ISO 4064 /1-1993, ISO 4064/3-1999 ISO 4064-2005)	Hydrostatic Pressure Test Accuracy Test Pressure Loss Test Endurance Test	<b>WP/WFL/02.0</b>  WT-17,clause 3.1.1 WT-17,clause 3.1.2 WT-17,clause 3.1.3 WT-17,clause 3.2	Upto 20 bar 30 to 5000 cu.m/h upto 1bar 800 & 200 hours
3.	<b>Flow Meter</b> (Upto a size of 600 mm) (OIML R 117 OIML R 105)	Accuracy & repeatability tests prior to & After Endurance test  Endurance test for 100 hrs Pressure loss across meter Dry heat test Cold test Damp heat (Cyclic) test Power voltage variation tets	<b>WP/OFL/02.0</b>  LT-10,clause 1.3.2  LT-10,clause 1.3.3 LT-10,clause 1.3.7 LT-10,clause 6 LT-10,clause 6 LT-10,clause 6 LT-10,clause 6	Upto 2500 m <sup>3</sup> /h  Upto 2500 m <sup>3</sup> /h 10 bar 55°C -25°C -25°C to 55°C, RH 95% 215 & 240V
4.	<b>Control Valve</b> (upto 600 mm size) ANSI / ISA – 75.02-1996 ANSI / ISA – 75.11-(R)1997 IS 10189 1993	Control Valve Capacity Test Inherent Flow Characteristics  Liquid Pressure Recovery Factor Test	<b>WP/WFL/02.0</b>  WT-01,clause 2 WT-01,clause 2  WT-05,clause 2	Valve size Upto 900 mm NB

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Valves	Fugitive Emission test	<u>WP/WFL/02.0</u> WT - 18, clause 1,5	Upto # 600 class -60 to 250° C at 250 bar
	ANSI B -16.104/ BS 5146-1984	Hydrostatic/ seat leakage test	<u>WP/WFL/02.0</u> WT -02, clause 2	Valve size Upto 600 mm NB
	BS 6364, BS 5146-1984	Cryogenic testing	<u>WP/WFL/02.0</u> WT-20, clause 1,	Valve size Upto 400 mm NB
6.	Valve Actuator ANSI / ISA - 75.13-1996	Valve Positioner Testing	<u>WP/WFL/02.0</u> WT-02, clause 2	Valve size Upto 600 mm NB
7.	Butterfly valve AWWA M49-2001 BS 5155 IS 13095-1991	Butterfly Value Testing	<u>WP/WFL/02.0</u> WT -02, clause 2 WT -19, clause 1	Valve size Upto 400 mm NB
<b>II. AIR &amp; GAS LABORATORY</b>				
1.	Blower / Fan ISO 3966 ISO 10780 BS 848, Part 1 ANSI/AMCA 210	Measurement of flow in ducts at labs or site by velocity traversing method using velocity measuring probes	WP-AT-09 ISO -3966 (Clauses 1 to 13, Annexure A,E,G) BS 848, part 1 (Clauses 1 to 30)	Velocity : 0.1 to 80 m/s
2.	Venting Devices / Air Valve API 2000 ASNI/AWWA C 512-92, IS 14845	Testing of Venting devices	WP-AT-05 API 2000 (Clauses 6,7)	Flow rate Upto 10,000m <sup>3</sup> /h

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Valve/Filter/ Control Device Air Valve ISA75.02, (Clauses 4, 5.2, 8, 9 & 10) BS5793/2.3	Flow capacity, Seat leakage, loss characteristics, etc,  Intake and delivery capacity of air valves in ambient condition	WP-AT-01,02,03  WP-AT-07	Pressure: Upto 20 bar(g)
4.	Safety Relief Valves ASME PTC 25 (All clauses except 4- 3, 4-5, 4-6, 4-8 & 4-10)	Capacity, seat leakage, Blow down, lift	WP-HPB-T01	Size : 100 mm NB, Set pressure : 16 bar
5.	Gas Regulator Type Approval Tests BS EN 334 (All Clauses except 7.7.7.4.6 , 7.7.8.1 & 7.7.8.8)	Test for Constructional & functional requirements	WP-AT-13	Size : 3" NB Flow range: Upto 160m <sup>3</sup> /h
6.	Model Approval Tests on Turbine Gas Meters OIML R137-1	Initial accuracy test, Pressure drop test, Disturbance tests, Durability tests, Overload flow test, Vibration tests	WP-AT-11	Flow range: Up to 6500m <sup>3</sup> /h
7.	Test On Flow Meters At Site FCRI Work Procedure	Error Test on flow meters at site	WP-AT-12	Flow range : 160m <sup>3</sup> /h

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