

Dielectric TEST REPORT

Project No.: L15-20056

Equipment under Test: Smart Water Flow Meter

Model/Type : Easy Mag Smart 800-ELC

S/N : 359509211491

Rating : 220 V

Manufactured By: IFA SANAT GHARB Co.

Applicant: Pasargad Water and Energy Equipment Engineering Co.

Tested According to: IEC 62052-11:2003

Issue Date: 27-Dec-2016

No. of Pages: 7

Prepared by: Test Engineer
A. Takzare

Verified by: Test Manager
S. M. Dezfulian

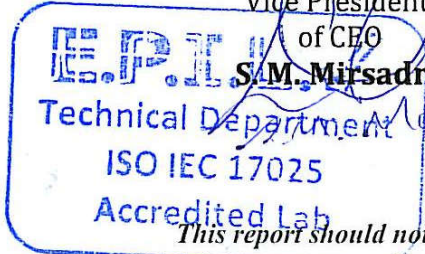
Approved by:

Vice President
of CEO

S.M. Mirsadri

Engineering Deputy of
Test and Inspection

Prof. B. Vahidi


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1. GENERAL INFORMATION

1.1. Product Information

Equipment under test	: Smart water flow meter
Manufacturer	: IFA SANAT GHARB Co.
Model	: Easy Mag Smart 800-ELC
S/N	: 359509211491
Rating	: 220 V
Manufactured Date	: 95-09
Normative document	: IEC 62052-11:2003

1.2. Tests Results

Impulse Voltage Test	: Passed
AC Voltage Test	: Passed

❖ To review the test details, see pages 4 to 7.



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2. PERFORMANCE AND RESULTS OF TESTS

2.1. Impulse Voltage Test

2.1.1. Test data

Location : EPIL (HV Lab.)
Date : 25-Dec-2016
Engineer of EPIL : Mrs. Takzare

2.1.2. Ambient conditions

Ambient Temperature : 19.2 °C
Relative Humidity : 36.5 %
Pressure : 865 hPa

2.1.3. Procedure of test

The impulse voltage shall be applied to the appropriate points accessible from the outside of the equipment, the other circuits and the exposed conductive parts shall be connected together and to earth.

The tests for verification of clearances shall be conducted for a minimum of 10 impulses of each polarity with an interval of at least 1 s between impulses.

Voltage value shall be selected from related standard.

2.1.4. Acceptance conditions of test

There shall be no disruptive discharge (spark-over, flashover or puncture) during test. After this type test, the equipment shall comply with all relevant performance requirements.

2.1.5. Result of test

Voltage value (kV)	Polarity	Number of application	Result
6	+ & -	10	Passed



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2.2. AC Voltage Test

2.2.1. Test data

Location : EPIL (HV Lab.)
Date : 25-Dec-2016
Engineer of EPIL : Mrs. Takzare

2.2.2. Ambient conditions

Ambient Temperature : 19.2 °C
Relative Humidity : 36.5 %
Pressure : 865 hPa

2.2.3. Procedure of test

Voltage value shall be selected from standard.

The test voltage shall be raised smoothly to the specified value in such a manner that no appreciable transients occur and shall be maintained for 1 min.

During the test on main circuit, the auxiliary circuits with reference voltage equal to or below 40 V shall be connected to earth.

2.2.4. Acceptance conditions of test

During this test, no flashover, disruptive discharge or puncture shall occur.

2.2.5. Result of test

Rated voltage	Voltage applied to	Applied voltage (kV)	Duration (sec)	Result
220 V	Main circuit	4	60	Passed
<40 V	m-bus & RS485	2	60	Passed



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3. FIGURES



Figure 1: EUT



Figure 2: Nameplate



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Figure 3: AC voltage test

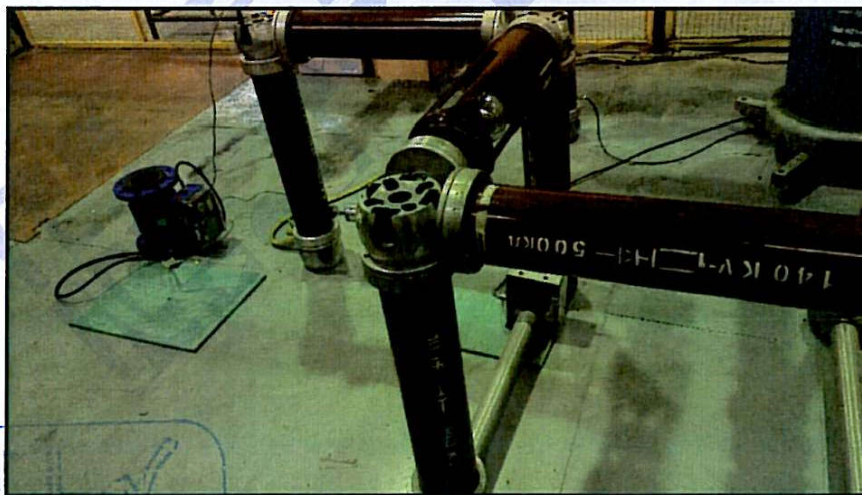


Figure 4: Impulse voltage test


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