



ACCREDITATION CERTIFICATE

LB-TEST-177

Emirates International Accreditation Centre

has accredited

DUBAI ELECTRICITY & WATER AUTHORITY

ENERGY METER TESTING UNIT (EMTU) LABORATORY

TENDERING & ENGINEERING DEPT., DISTRIBUTION POWER DIVISION

DEWA Central Stores, Al-Warsan 2

Dubai- United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity
period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 21/05/2021 to 28/02/2024

Initial Accreditation Date: 01/03/2018



CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

Electrical Testing

LB-TEST-177

Dubai Electricity & Water Authority

Energy Meter Testing Unit (EMTU) Laboratory

Tendering & Engineering Dept., Distribution Power Division

DEWA Central Stores, Al-Warsan 2

Dubai- United Arab Emirates

Issue no.: 03

Date: 21-05-2021

Valid to: 28-02-2024

Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Testing	Energy Meter	Electricity metering equipment - Particular requirements	IEC 62053 Part 11: 2016 Clause: 8.3.1
Electrical Testing	Energy Meter	Electricity metering equipment - Particular requirements	IEC 62053 Part 21:2016 Clause: 8.3.2
Electrical Testing	Energy Meter	Electricity metering equipment (AC) - Acceptance inspection	IEC 62053 Part 22: 2016 Clause: 8.3.2
Electrical Testing	Energy Meter	<i>Test of No- Load Condition</i>	IEC 62058 Part 31: 2008 Clause: 5.4

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Electrical Testing	Energy Meter	Electricity metering equipment - Particular requirements	IEC 62053 Part 11: 2016 Clause: 8.3.2
Electrical Testing	Energy Meter	Electricity metering equipment - Particular requirements	IEC 62053 Part 21: 2016 Clause: 8.3.3
Electrical Testing	Energy Meter	Electricity metering equipment (AC) - Acceptance inspection	IEC 62053 Part 22: 2016 Clause: 8.3.3
Electrical Testing	Energy Meter	<i>Starting Current</i>	IEC 62058 Part 31: 2008 Clause: 5.5

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Electrical Testing	Energy Meter	Electricity metering equipment - Particular	IEC 62053 Part 11: 2016 Clause: 8.1
		Electricity metering equipment (AC) - Acceptance inspection	IEC 62053 Part 21: 2016 Clause: 8.1
		<i>Accuracy test</i>	IEC 62053 Part 22: 2016 Clause: 8.1
		<i>Load Characteristics:</i>	IEC 62058 Part 31: 2008 Clause: 5.6
		<i>5 % Load (0.05 Ib/In) @ PF=1</i>	
		<i>Basic Load (I_b) @PF=1</i>	
		<i>Basic Load (I_b) @PF=0.5</i>	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Testing	Energy Meter	$20 \% I_n @PF=1^*$	IEC 62053 Part 11: 2016 Clause: 8.1 IEC 62053 Part 21: 2016 Clause: 8.1 IEC 62053 Part 22: 2016 Clause: 8.1 IEC 62058 Part 31: 2008 Clause: 5.6
		$20 \% I_n @PF=0.5^*$	
		$I_n @PF=1^*$	
		$I_n @PF=0.5^*$	
		$I_{max} @PF=1$	
		$I_{max} @PF=0.5$	
		<i>*Applicable for CT Operated meter</i>	
Electrical Testing	Energy Meter	Electricity metering equipment (AC) - Acceptance inspection <i>Verification of Register (Dial Test)</i>	IEC 62058 Part 31: 2008 Clause: 5.7

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Testing	Current Transformer	Instrument transformers	IEC 61869 Part 2: 2012 Clause 7.2.6
		<i>Test for Ratio Error and Phase displacement of</i>	
		<i>120 % I_r</i>	
		<i>100 % I_r</i>	
		<i>20 % I_r</i>	
		<i>5 % I_r</i>	
<i>1 % I_r</i>			

Accreditation History		
Issue no.	Details	Date
03	Renewal accreditation	21-05-2021
02	First issuance under the name of Eiac (Which was formerly known as 'DAC')	15-09-2020
01	Granted accreditation from Dubai Accreditation Center 'DAC'	01-03-2018