

Schedule of Accreditation  
For Testing Laboratory According to ISO 17025  
Issue To

General Department for Testing of Engineering Products Laboratories  
Egyptian Organization for Standardization and Quality (EOS)  
16 Tadreeb El - modarrebeen st., Ameriya - Cairo - Egypt

Schedule No.: 209008/1 B Issue No. (1): April 23, 2018 1<sup>st</sup> Accreditation date: April 23, 2018 Revision No(-) Valid to :October 31, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used
<b>Hardness</b>		
Metals	-Rockwell hardness test 30 - 60 HRA 40 - 85 HRB 20 - 65 HRC	ISO 6508-1:2016 ASTM E18:2017 Rockwell hardness testing machine Zwickwell / Roell ZHR S.N: 063383
<b>Pressure</b>		
Lubricating oil filters	-Static burst pressure test 0 - 60 bar	ES 2008:2005 Oil operated pressure gauge S.N: FN-06-1
<b>Mechanical Measurements Test</b>		
Gas cylinder valves	Endurance test at: 200 N 12 bar 100 rpm 3 Nm	ES 608/2014 Clause 5/17 Endurance test Equipment S.N:011

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<b>Electrical Lamps Tests</b>		
Lamps	Lamp Caps Torsion Test 1 -9.5 Nm	ES 5048:2006 ES 4111 :2005 ES 7171 :2010 ES 3585:2005 IEC 61195:1999 10 N.m Torque device. S.N: 2010VN06118
	Lamps Luminous Flux Test 128 - 7200 Lumen	ES 27:2005 ES 3548 :2005 IEC 62612 :2013-06 CIE 84: 1st- edition:1989 2m integrating sphere system SM-2000 Spectrometer: S.N: RS-OP 150604 -Programble A.C power Source S.N:197710015 -Autorange D.C Power Source S.N:82001

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<b>Electrical Lamps Tests</b>		
Lamps	Lamp Electrical Parameters Test (Power, Current, Power Factor and Harmonics ) Power : 1.6 .to 12 W Current : 0.05 to 0.17 A Volt : 100 to 300 V	ES 27:2005 ES 3584/2005 IEC 62612 :2013 IEC 60081:2002 IEC 61000-3-2:2000 IEC 62722:2014 ES 4111:2005 ES 3938:2005 IEC 61347-2-12:2005 Electronic Ballast Analyzer S.N:1004039 AC Power Source S.N : 0907227

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<b>Electrical Lamps Tests</b>		
Lamps	Lamp Dimension Test 100 -1300 mm	IEC 60081:2002 ES 7800:2015 Dimension Measurement Device S.N: 030011-08110498
	Lamp Energy Efficiency Flux: 128 - 7200 Lumen Power: 0.5.to 200 W	ES 7823:2014 2m integrating sphere system with SM-2000 Spectrometer S.N: RS-OP 150604 -Electronic Ballast Analyzer S.N:1004039 -AC Power Source S.N : 0907227



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<b>Household Electrical Appliances Tests</b>		
Stand fan Table fan Ceiling fan	Measurement of Energy Efficiency test GRADE (A) to (E ) for electrical fan -Measurment of power input -Measurment of air delevery	ES 7821:2014 <b>Power analyzer:</b> S.N: 39237076,39236078,39237064 <b>Annemometer:</b> S.N: 1017110,1017111,1017109 <b>AC Power Source:</b> S.N: PF2003, PF2001,PF2002
	Measuring the power factor 0.1-1.0	ES 537-1:2005 IEC-60879:1986 <b>Power analyzer:</b> S.N: 39237076,39236078,39237064
	Measurement the Speed of Fan Up to 5000 rpm	ES 537-1:2005 IEC-60879:1986 <b>Tachometer :</b> S.N: 1403265,1403266,1403267

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<b>Household Electrical Appliances Tests</b>		
Refrigerator & Freezer	Measurement of energy Efficiency for refrigerators & freezer up to 3KW/h Measurement of power input –	Up to 3 KW/h IEC 62552: 2007 ES 3794:2008 Watt-Hour Meter S.N :45716 Stabilizer S.N: 07213
	-Determination of Linear Dimension and Volumes	Maersuering tape code no.ES15012
	Storage Temperatures Test	(-50 to 50) °C IEC-62552:2007 Tempreture & Humidity Chamber S.N:200 Tempreture sensor & reader (10 channel) GL220 Tempreture sensor & readear (20 channel) GL820



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<b>Household Electrical Appliances Tests</b>		
Refrigerator & Freezer	Freezing Test (-18 : 32) °C	IEC-62552:2007 Tempreture & Humidity Chamber S.N:200 Tempreture sensor & reader (10 channel) GL220 Tempreture sensor & readear (20 channel) GL820 Maersuering tape code no.ES15012

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<b>Household Electrical Appliances Tests</b>			
Refrigerator & Freezer	Water Vapor Condensation Test	-	IEC-62552:2007 Tempreture & Humidity Chamber S.N:200 Digital balance S.N: 15506951 Tempreture & Humidity Chamber S.N:200 Tension measuring device Watt-Hour Meter S.N :45716 Maersuering tape code no.ES15012
	Ice Making Test	0.1 mg – 12 kg	
	Temperature Rise Test	(-50 to 50 )°C	
	Testing Air –Tightness of Doors	0.8 mm	
	Energy Consumption Test	Up to 3680 W	
	Determination of Linear Dimension, Volumes and Areas up to 125 m <sup>3</sup>		
	Test for Absence of Taste and Oder		

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<b>Electrical Tests</b>		
Copper & aluminum electrical cables	Measurement of Electrical resistance of conductor	2 mΩ - 10 kΩ ES 2948:2005 ES 182:2011 Digital ohmmeter S.N: 51906 S.N :36E-0360
Measurement of diameter and cross sectional area for Electric cables	Measurement of diameter and cross sectional area for Electric cables	1mm-1000 mm Laser micro diameter S. N. :0A04613
Electric cables	Measurements of insulation thickness Measurement of overall diameter	X axis :200 mm Y axis: 100 mm ES 182:2011 ES 2948:2005 Profile projector S N. : 31559
Electric cables, Electric lamp, Sockets, plugs and Electric ballast	Mesurement of Insulation resistance test	10k -1 tera Ω ES 133:2005 ES 182:2011, ES 2948:2009 ES 438:2005, ES 27:2005 Digital HV Insulation S.N: RF4212420001
	Voltage test	5 KV ES 133:2005, ES 182: 2011 ES 2948 :2009 ES 27:2005 Dielectric Withstand tester S. N. 432252
Electric lamp ,Sockets, plugs and Electric ballast	Glow wire test	950 °C ES 133:2005,ES 438:2005 ES 3584:2005, 3585:2005 Glow wire tester S. N.110717

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<b>Petroleum Household Appliances Testing</b>		
Domestic cooking appliances	Analysis of combustion product 0 - 400 PPM	ES 164:2017 Digital CO/CO2 ANALYZER S. N.: 01707611/907 -Combustion gas analyzer S. N.: B6205D76 -Digital midi Logger S. N.: H31072447 -Digital midi Logger S. N.: H40623742

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