



SAC DECLARES THAT  
Engineering Systems  
Technology Establishment  
Laboratory for Calibration -  
Riyadh

تشهد اللجنة السعودية للاعتماد بأن  
مختبر مؤسسة تقنية الأنظمة الهندسية  
للمعايرة - الرياض

Has been accredited to carry out  
the tests mentioned in the  
accompanying list according to  
laboratory accreditation  
regulations and  
ISO \ IEC 17025 /2005

تم اعتماده لأداء الاختبارات المذكورة في  
القائمة المرفقة مع هذه الشهادة ، وفقاً  
للائحة اعتماد المختبرات والمواصفة  
القياسية الدولية  
أيزو/ اي إي سي 17025 / 2005 .

Certificate No :  
Date of Issue :  
Expiry Date:

N-C-00001  
11/16/2016  
10/14/2019

رقم الشهادة :  
تاريخ الإصدار:  
تاريخ الإنتهاء :

رئيس اللجنة  
Chairman of (SAC)

سعد بن عثمان القصبي  
Saad O. Alkasabi





مجال الاعتماد

رقم الشهادة : N-C-00001	الاسم : مختبر مؤسسة تقنية الأنظمة الهندسية للمعايرة - الرياض
تاريخ الاصدار : 2016-11-16	تاريخ الانتهاء: 2019-10-14

م	الكمية المقيسة	افضل امكانية للقياس	المواصفة	المدي
1	Internal Length External Length Length Depth	$\pm 1.8\mu\text{m}$	Calibration of Calliper	0 to 1000mm
2	Internal Length External Length Length Depth	$\pm 1.8\mu\text{m}$	Calibration of Micrometer	0 to 1000mm
3	External Length	$\pm 0.00058\text{mm}$	Calibration of Feeler Gauge	0.03~1mm
4	External Length	$\pm 0.00058\text{mm}$	Calibration of Dial Gauge	0~25mm
5	External Length	$\pm 0.00058\text{mm}$	Calibration of Dial Test Indicator	0~25mm
6	Angle	$+0^{\circ}00'08''$ , $-0^{\circ}00'05''$	Calibration of Angle Measuring Equipment	$15^{\circ}\sim 90^{\circ}$
7	mass	$\pm 0.006\text{mg}$ $\pm 0.007\text{mg}$ $\pm 0.0065\text{mg}$	Calibration of Balance	Class E2 1mg~20Kg Class F1 1g~200kg Class M1 1Kg~1300Kg
8	Torque	0.085%	Calibration of Torque Tool	1.25Nm~1500Nm
9	Force	0.08%	Calibration of Force Measuring Instrument	10kN~3000kN
10	Temperature	$\pm 0.10^{\circ}\text{C}$	Calibration of Thermometer	$-17\sim 650^{\circ}\text{C}$
11	Temperature	$\pm 0.10^{\circ}\text{C}$	Calibration of RTD Sensor	$-17\sim 650^{\circ}\text{C}$
12	Temperature	$\pm 0.10^{\circ}\text{C}$	Calibration of Thermocouple Sensor	$-17\sim 650^{\circ}\text{C}$



-17~650°C	Calibration of Temperature Recorder	±0.10°C	Temperature	13
-17~650°C	Calibration of Temperature Indicators	±0.10°C	Temperature	14
28~400°C	Calibration of Infrared Thermometer	±0.02°C	Temperature	15
-27.0~650.0°C	Calibration of Temperature Block Calibrator	±0.2°C	Temperature	16
0~±1050V 0~±1050V 0~1100A 0~±1100A 10Ω~1GΩ 10nF~1μF 0.1Hz~10MHz	Calibration of Multi-meter	±36ppm ±2Mv ±0.02% ±0.02% ±12ppm ±0.05% ±0.1ppm	AC Voltage DC Voltage AC Current DC Current Resistance Capacitance Frequency	17
0~±1050V 0~±1050V 0~1100A 0~±1100A 10Ω~1GΩ 10nF~1μF 0.1Hz~10MHz	Calibration of Clamp Meter	±36ppm ±2Mv ±0.02% ±0.02% ±12ppm ±0.05% ±0.1ppm	AC Voltage DC Voltage AC Current DC Current Resistance Capacitance Frequency	18
0~±1050V 0~±1050V 0~1100A 0~±1100A 10Ω~1GΩ 10nF~1μF 0.1Hz~10MHz	Calibration of Multifunction Process Calibrator	±36ppm ±2Mv ±0.02% ±0.02% ±12ppm ±0.05% ±0.1ppm	AC Voltage DC Voltage AC Current DC Current Resistance Capacitance Frequency	19
0~300V 0~±110V 0~±100mA	Calibration of Power Supply AC Voltage	±0.001V ±0.01mV ±0.002mA	DC Voltage DC Current	20
0~1100A 0~±1100A	Calibration of Ammeter	±0.02%	AC Current DC Current	21
0~±1050V 0~±1050V	Calibration of Voltmeter	±36ppm ±2Mv	AC Voltage DC Voltage	22
RPM 6~600,000 RPM	Calibration of Tachometer	0.01%	rpm	23
0~70MPa	Calibration of Pressure Gauge	±0.02%	Pressure	24



0~70MPa	Calibration of Vacuum Gauge	±0.02%	Pressure	25
-27~650°C 1mg~10Kg	Calibration of Ignition Furnace	±0.44°C ±0.006mg	Temperature and Mass	26
0~150°C	Calibration of Oven	±0.44°C	Temperature	27
0~150°C	Calibration of Water Bath	±0.44°C	Temperature	28
0~0.72Kg/l 1.12~2.72Kg/l	Calibration of Nuclear Gauge Density	±0.032 ±0.04	Moisture	29
0~1000mm	Verification of Los Angeles Abrasion Machine	±5.97µm	Length (Internal & External)	30
0~1000mm	Verification of Mould	±5.97µm	Length (Internal & External)	31
0~1000mm	Verification of Manual Rammer	±5.97µm	External Length	32
0~1000mm	Verification of Liquid Limit Device	±5.97µm	External Length	33
0~1000mm	Verification of Cone and Tamping Rod	±5.97µm	External Length	34
0~1000mm	Verification of Sieve	±5.97µm	External Length	35
0~1000mm	Verification of Mechanical Soil Compactor	±5.97µm	External Length Mass	36
0~1000mm	Verification of Asphalt Compactor	±5.97µm	External Length Mass	37
10~100kN	Verification of California Bearing Ratio Machine	±0.28%	Force	38

10~100kN	Verification of Marshall Machine	±0.28%	Force	39
0~1000mm	Verification of Penetration Apparatus	±5.97µm	External Length Mass Angle	40
0~3000kN	Verification of Compression Machine	±0.08%	Force Flatness (Feeler Gauge)	41
0~70MPa 0~1000mm	Verification of Air Pressure Meter	±0.02% ±5.97µm	Pressure External Length	42
0~1000mm	Verification of Pycnometer	±5.97µm	External Length Internal Length	43
0~1000mm	Verification of Straight Edge	±5.97µm	External Length Flatness (Feeler Gauge)	44
0~25mm 0~1000mm	Verification of Relative Density Soil Apparatus	±0.01mm ±5.97µm	External Length External Length	45
0~1000mm	Verification of Flakiness and Elongation Gauge	±5.97µm	External Length	46

