

## Laboratory Accreditation Certificate

### Annex

#### Accreditation Scope of Fartashdad Laboratory

##### 1- Volume

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Piston pipette	1 $\mu$ l to 10 $\mu$ l	0.22 $\mu$ l
		10 $\mu$ l to 10 ml	0.22 $\mu$ l to 2.4 $\mu$ l
2	Dispenser	10 $\mu$ l to 100 ml	0.22 $\mu$ l to 24 $\mu$ l
3	Piston burette	10 $\mu$ l to 100 ml	0.22 $\mu$ l to 24 $\mu$ l
4	Dilutor	10 $\mu$ l to 100 ml	0.22 $\mu$ l to 24 $\mu$ l
5	Burette	2 ml to 200 ml	0.002 ml to 0.013 ml
6	Volumetric Cylinder	5ml to 2000 ml	0.030 ml – 0.60 ml
7	Pipette	0.5 ml to 100 ml	0.002 ml to 0.036 ml
8	Volumetric Flask	5 ml to 5000 ml	0.003 ml to 0.42 ml
9	Picnometer	5 ml to 100 ml	(0.003 to 0.14) ml

##### 2- Temperature:

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Oven, Incubator, Bain-Marie	(-40 to 100) <sup>o</sup> C	0.3 <sup>o</sup> C
		(100 to 300) <sup>o</sup> C	0.4 <sup>o</sup> C
3	Liquid in glass Thermometer	(-25 to 100) <sup>o</sup> C	0.11 <sup>o</sup> C
		(100 to 250) <sup>o</sup> C	0.27 <sup>o</sup> C
4	Resistance Thermometer	(-25 to 100) <sup>o</sup> C	0.11 <sup>o</sup> C
		(100 to 250) <sup>o</sup> C	0.27 <sup>o</sup> C
5	Thermocouple Thermometer	(-25 to 100) <sup>o</sup> C	0.18 <sup>o</sup> C
		(100 to 250) <sup>o</sup> C	0.3 <sup>o</sup> C

A.R. Khakifirooz  
 NACI PRESIDENT

N. Pirouzbakht  
 PRESIDENT, IRAN ACCREDITATION COUNCIL



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##### 3- Pressure:

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Vacuum Gauge	(-0.85 to 0) bar	0.06% FS
2	Pressure Gauge With Elastic Elements (Pneumatic)	(0 to 7) bar	

##### 4- pH

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	pH meter	Up to 14 pH	0.02 pH
		$\pm 200$ mV	0.006 mV

##### 5- Electrical conductivity

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Electrical conductivity meter	(Up to 100) $\frac{\mu S}{cm}$	2.1%FS
		(100 to 20000) $\frac{\mu S}{cm}$	1.8%FS
		(2 to 20) $\frac{mS}{cm}$	1.7%FS

##### 6- Salinity

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Salinity meter	Up to 10000 PPM	2.3 ppm

  
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##### 7- Electrical resistance of solutions

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Electrical resistance of solutions	(15 to 3200) $\Omega$	(0.014 to 0.28) $\Omega$

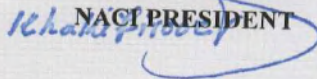
##### 8- Electrical current of solutions:

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	Electrical current of solutions	Up to 24 mA	0.000001 mA

##### 9- RPM:

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ( $\pm$ )
1	RPM Measurement	(500 to 20000) RPM	0.05%RDG+2 Digit

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