



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, 13 AND 7 , KONARK UDYOG, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 1 / 8

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer ,RPM Meter(Non-Contact Mode)	30 RPM to 1000 RPM	4RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer,RPM Meter(Contact Mode)	3000 RPM to 5000 RPM	20RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer , RPM Meter(Non-Contact Mode)	>1000 RPM to 5000 RPM	7RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer , RPM Meter(Non-Contact Mode)	>5000 RPM to 10000 RPM	33RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer , RPM Meter(Non-Contact Mode)	>50000 RPM to 99999 RPM	290RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM Meter(Contact Mode)	100 RPM to 3000 RPM	10RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer,RPM Meter(Non-Contact Mode)	>10000 RPM to 50000 RPM	153RPM	Using Digital Tachometer (Make : Lutron, Model : DT-2236B) And Digital Tachometer Calibrator (Make : Zeal, Model : ZMC-NTC)
8	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial / Digital)	> 40 to 700 bar	0.75bar	Using Digital Pressure gauge Digibar N6200 by comprsion Method
9	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial / Digital)	0 to 40 bar	0.05bar	Using Digital Pressure gauge DPG-40 gauge BY Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
10	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>110 °C to 200°C	1.04°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A ,dry block bath by comparison method
11	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>200°C to 400°C	1.57°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A , dry block bath by comparison method
12	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>400°C to 650°C	2.06°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A,dry block bath by comparison method
13	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>650°C to 1200°C	4.61°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A ,dry block bath by comparison method
14	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	0°C to 110°C	0.22°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A ,dry block bath by comparison method



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15	THERMAL-TEMPERATURE	RTD/THERMOCOUPLE/TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	-15°C to 0°C	0.20°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A, dry block bath by comparison method
16	THERMAL-TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	>0°C to 100°C	0.18°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC
17	THERMAL-TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	>100°C to 200°C	0.19°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC
18	THERMAL-TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	>200°C to 400°C	1.13°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC
19	THERMAL-TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	>400°C to 650°C	1.84°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
20	THERMAL- TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	>650°C to 1200°C	3.13°C	using S Type thermocouple with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC
21	THERMAL- TEMPERATURE	TEMPERATURE INDICATOR WITH SENSOR OF LIQUID/DRY BLOCK BATH	-20°C to 0°C	0.16°C	using PRT (4W) with 6 ½ dig. Multimeter Fluke 8846A by single position calibration at measuring location in UUC



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Site Facility					
1	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial / Digital)	> 40 to 700 bar	0.75bar	Using Digital Pressure guage Digibar N6200 by comprsion Method
2	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial / Digital)	0 to 40 bar	0.05bar	Using Digital Pressure guage DPG-40 guage BY Comparison Method
3	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN , FURNACE	>0 °C to 100°C	0.21°C	using PRT (4W) with 6 ½ dig. Multimeter HP34401A by Comparision Method at single position calibration at measuring location in UUC
4	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN , FURNACE	>100°C to 200°C	0.32°C	using PRT (4W) with 6 ½ dig. Multimeter HP34401A by Comparision Method at single position calibration at measuring location in UUC
5	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN , FURNACE	>200 °C to 400 °C	1.13 °C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401A by comparison method single position calibration at measuring location in UUC



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
6	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN, FURNACE	>650°C to 1200°C	3.13°C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401A by comparison method single position calibration at measuring location in UUC
7	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN, FURNACE	-20°C to 0 °C	0.16 °C	using PRT (4W) with 6 ½ dig. Multimeter HP34401A by Comparison Method at single position calibration at measuring location in UUC
8	THERMAL-TEMPERATURE	INDICATOR WITH SENSOR OF CHAMBER, OVEN, FURNACE	>400°C to 650°C	01.84°C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401A by comparison method single position calibration at measuring location in UUC
9	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>0 °C to 110°C	0.27°C	using PRT (4W) with 6 ½ dig. Multimeter HP 34401A, dry block bath by comparison method



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10	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>110 °C to 200 °C	1.07 °C	using PRT (4W) with 6 ½ dig. Multimeter HP 34401A,dry block bath by comparison method
11	THERMAL-TEMPERATURE	RTD / THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	-15°C to 0°C	0.20°C	using PRT (4W) with 6 ½ dig. Multimeter HP 34401A ,dry block bath by comparison method
12	THERMAL-TEMPERATURE	THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>400°C to 650°C	2.06°C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401, dry block bath by comparison methodA
13	THERMAL-TEMPERATURE	THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	>650°C to 1200°C	4.62°C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401,dry block bath by comparison method
14	THERMAL-TEMPERATURE	THERMOCOUPLE /TEMPERATURE TRANSMITTER WITH AND WITHOUT INDICATOR	200°C to 400 °C	1.57 °C	using R Type thermocouple with 6 ½ dig. Multimeter HP34401A ,dry block bath by comparison method