

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 1 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
----------------------------------	-------------------	--	---------

I. PRESSURE & VACUUM

- | | | | |
|--|-----------------------|------------|--|
| 1. Vacuum Gauges,
Vacuum Transducer,
Vacuum Transmitter,
Vacuum switches,
Vacuum Modules,
Vacuum sensor [#] | -0.80 bar to -0.1 bar | 0.0094 bar | Using Standard Vacuum
indicator
as per IS -8244-1976 |
| 2. Pneumatic
Pressure Gauges,
Pressure Transducer,
Pressure Transmitter,
Oil free Gauges,
Pressure Modules,
Pressure switches,
Manometers, Pressure
Calibrators,
Digital Pressure
Indicators,
Transducer with
indicator,
Transmitter with
Indicator [#] | 4 bar to 30 bar | 0.02 bar | Using Standard Pressure
indicator
as per DKD – R - 6 |

II. ACCOUSTICS

- | | | | |
|------------------------------------|----------------|---------|---------------------------------|
| 1. Sound Level Meter ^{\$} | 94 dB & 114 dB | 0.48 dB | Using Sound Level
Calibrator |
|------------------------------------|----------------|---------|---------------------------------|

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration

Issue Date 29.09.2014

Certificate Number C-1133

Valid Until 28.09.2016

Last Amended on -

Page 2 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
2. Sound Level Calibrator ^s	94dB & 114dB	0.47dB	Using Sound Level Meter & Calibrator
III. ACCELERATION & SPEED			
1. Tachometer ^s (Non-Contact type)	240RPM to 3000RPM 3000RPM to 60000RPM	0.05% 0.01%	Using Multiproduct Calibrator as per SANAS TR-45-01:2008
IV. MASS			
1. Weights ^s	1 mg	0.013 mg	Using F1 Class standard weights and Electronic weighing balance as per OIML R 111-1
	2 mg	0.013 mg	
	5 mg	0.0126 mg	
	10 mg	0.0120 mg	
	20 mg	0.0120 mg	
	50 mg	0.0106 mg	
	100 mg	0.0102 mg	
	200 mg	0.0150 mg	
	500 mg	0.0138 mg	
	1 g	0.019 mg	
	2 g	0.017 mg	
	5 g	0.026 mg	
	10 g	0.037 mg	
	20 g	0.037 mg	
	50 g	0.070 mg	
	100 g	0.11 mg	
	200 g	0.13 mg	
	500 g	0.015 g	Using F2 Class standard weights and Electronic weighing balance as per OIML R 111-1
	1 kg	0.028 g	
	2 kg	0.026 g	

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 3 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
2. Weighing balance* d =Readability			
d =0.01 mg	1mg to 200 g	0.12 g	Using F1 standard reference weights as per OIML R 76-1
d =0.01 g d =0.01 g	200 g to 1 kg 1 kg to 2 kg	0.048 g 0.12 g	Using F2 standard reference weights as per OIML R 76-1
d =0.01 kg d =0.05 kg	2 kg to 100 kg 100 kg to 300 kg	0.05 kg 0.15 kg	Using M1 standard reference weights as per OIML R 76-1
III. DIMENSION^s			
1. Vernier Caliper (Analog/Dial/Digital) LC: 0.01mm			
	0 to 300 mm	12.1 μ m	Using Caliper Checker Slip gauge '0' grade
2. Vernier Caliper (Analog/Dial/Digital) LC: 0.02mm			
	0 to 600 mm	18 μ m	Using Caliper Checker Slip gauge '0' grade

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 4 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
3. Depth Vernier Caliper (Analog/Dial/Digital) LC: 0.02mm	0 to 300 mm	13.6 μ m	Using Slip gauge '0' grade and Length bar
4. Height gauge (Vernier/Dial/Digital) LC: 0.01mm	0 to 1000mm	12.2 μ m	Using Slip gauge '0' grade and Length bar
5. Height gauge (Vernier/Dial/Digital) LC: 0.02mm	0 to 600mm	16.2 μ m	Using Slip gauge '0' grade and Length bar
6. External Micrometer LC: 0.001mm LC: 0.01mm	0 to 25mm 0 to 300mm	1.9 μ m 10.1 μ m	Using Slip gauge '0' grade and Length bar
7. Depth Micrometer LC: 0.001mm	0 to 300mm	3.9 μ m	Using Slip gauge '0' grade and Length bar
8. Dial thickness gauge LC: 0.01mm	0 to 10mm	6.9 μ m	Using Slip gauge '0' grade
9. Pistol caliper LC: 0.02mm	0 to 60mm	13.0 μ m	Using Slip gauge '0' grade

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 5 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
10. Snap gauge / Gap gauge	Upto 100mm	3.7 μ m	Using Slip gauge '0' grade
11. Plunger Dial gauge (Analog / Digital) LC: 0.001mm LC: 0.01mm	0 to 12.7mm 0 to 20mm	4.3 μ m 7.2 μ m	Using Dial Calibration Tester
12. Lever dial gauge LC: 0.001mm LC: 0.01mm	0 to 0.14mm 0 to 0.8mm	4.3 μ m 7.2 μ m	Using Dial Calibration Tester
13. Bore gauge (Transmission upto 1.0mm Plunger travel moment) LC: 0.001mm ϕ	Upto 600mm	4.3 μ m	Using Dial Calibration Tester
14. Feeler gauge	0.01 mm to 1mm	1.8 μ m	Using Digital Micrometer
15. Measuring Pins	0 to 25mm	1.7 μ m	Using Digital Micrometer

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 6 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
MOBILE LABORATORY			
1. Vernier Caliper (Analog/Dial/Digital) LC: 0.01mm	0 to 300mm	13 μ m	Using Caliper Checker Slip gauge '0' grade
2. Vernier Caliper (Analog/Dial/Digital) LC: 0.02mm	0 to 600mm	18 μ m	Using Caliper Checker Slip gauge '0' grade
3. Depth Vernier Caliper (Analog/Dial/Digital) LC: 0.02 mm	0 to 300 mm	14 μ m	Using Slip gauge '0' grade and Length bar
4. Height gauge (Vernier/Dial/Digital) LC: 0.02 mm	0 to 300 mm	16 μ m	Using Slip gauge '0' grade and Length bar
5. External Micrometer LC: 0.001 mm LC: 0.01 mm	0 to 25 mm 0 to 300 mm	1.5 μ m 7.4 μ m	Using Slip gauge '0' grade and Length bar

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 7 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
6. Depth Micrometer LC: 0.001 mm	0 to 300 mm	2.7 μ m	Using Slip gauge '0' grade and Length bar
7. Dial thickness gauge LC: 0.01 mm	0 to 10 mm	7.0 μ m	Using Slip gauge '0' grade
8. Pistol caliper LC: 0.02 mm	0 to 60 mm	12.3 μ m	Using Slip gauge '0' grade
9. Snap gauge / Gap gauge	Upto 100 mm	3.7 μ m	Using Slip gauge '0' grade
10. Plunger Dial gauge (Analog / Digital) LC: 0.001 mm LC: 0.01 mm	0 to 12.7 mm 0 to 20 mm	4.3 μ m 7.2 μ m	Using Dial Calibration Tester
11. Lever dial gauge LC: 0.001 mm LC: 0.01 mm	0 to 0.14 mm 0 to 0.8 mm	4.3 μ m 7.2 μ m	Using Dial Calibration Tester

Sangeeta Kunwar
Convenor

Avijit Das
Program Manager

Laboratory S Calibration (Unit of Sakthi Powerr Solution Private Limited),
No. 44, State Bank Colony, Singanallur, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 29.09.2014

Certificate Number C-1133 **Valid Until** 28.09.2016

Last Amended on - **Page** 8 of 8

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
12. Bore gauge (Transmission upto 1.0 mm Plunger travel moment) LC: 0.001 mm ^ϕ	Upto 600 mm	4.3 μ m	Using Dial Calibration Tester
13. Feeler gauge	0.01 mm to 1 mm	1.8 μ m	Using Digital Micrometer
14. Measuring Pins	0 to 25 mm	1.8 μ m	Using Digital Micrometer

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

\$Only in Permanent Laboratory

*Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

^ϕLaboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.