National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

DELTA POWER SOLUTIONS INDIA PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Plot No. 38, Sector-05, Sidcul Rudrapur, Uttrakhand

in the field of

CALIBRATION

Certificate Number CC-2534 *(in lieu of C-0594, C-0595)*

Issue Date 15/01/2018 **Valid Until** 14/01/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Avijit Das
Program Director

8907697020002000352

Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory	**Delta Power Solutions India Pvt. Ltd.,Plot No. 38, Sector-05, Sidcul Rudrapur, Uttrakhand**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2534** *(In lieu C-0594, C-0595)*	**Page**	**1 of 5**
Validity	**15.01.2018 to 14.01.2020**	**Last Amended on**	**18.01.2018**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	ELECTRO TECHNICAL CALIBRATION			
I.	**SOURCE**			
1.	DC Voltage$	1 mV to 300 mV 300 mV to 1000 V	5.8% to 0.02% 0.02% to 0.06%	Using Multiproduct Calibrator 5500 A by Direct Method
2.	DC Current$	1 mA to 10 A 50 A to 550A	0.58% to 0.06% 0.57%	Using Multiproduct Calibrator 5500 A by Direct Method
3.	AC Voltage $	**50 Hz** 1 mV to 1000 V	7.47% to 0.07%	Using Multiproduct Calibrator 5500 A by Direct Method
4.	AC Current $	**50 Hz** 1 mA to 10 A 50 A to 550A	0.58% to 0.21% 0.68% to 0.56%	Using Multiproduct Calibrator 5500 A by Direct Method
5.	DC Resistance$	1 Ω to 100 Ω 100 Ω to 1 MΩ 1M Ω to 50 MΩ	5.8% to 0.07% 0.07% to 0.82% 0.82 % to 0.02%	Using Multiproduct Calibrator 5500 A by Direct Method
6.	Capacitance $	**1kHz** 1nF to 1µF 1µFto10µF 10µF to100µF	0.09% to 0.07% 0.07% to 0.11% 0.11% to 0.26%	Using Multiproduct Calibrator 5500 A by Direct Method
7.	A.C.Power$	**50 Hz,1P.F** 1 W to1 kW 1 kW to 6.4 kW	5.77% to 0.60% 0.60% to1.00%	Using Multiproduct Calibrator 5500 A by Direct Method

Ram Ashray
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	Oscilloscope[$] Time Base Amplitude	 1µs to 1ms 20 mV to 100 mV 100 mV to 1 V 1 V to 10 V	 0.6% 1.57% to 1.00% 1.00% to 0.70% 0.70% to 1.34%	Using Multiproduct Calibrator 5500 A by Direct Method
9.	Scope Sine Wave Generator[$]	**50Hz** 20 mV to 3.3 V **1kHz** 20 mV to 3.3 V	1.10% to1.75% 1.19% to 2.66%	Using Multiproduct Calibrator 5500 A by Direct Method
10.	Level Sign Wave[$] 3.3 V	50 kHz to 200MHz	3.54%	Using Multiproduct Calibrator 5500 A by Direct Method
11.	Frequency[$] 3V	50Hz to 1kHz	0.06%	Using Multiproduct Calibrator 5500 A by Direct Method
12.	Insulation Tester[$]	1MΩ to 1000MΩ	5.78%to0.76%	Using Decade Resistance Box
II.	**MEASURE**			
1.	DC Voltage[$]	1V to 600V	0.62% to 0.1%	Using 6. 5 Digit Multimeter by Direct Method
2.	AC Voltage [$]	**50 Hz** 1V to 300V	7.70% to 0.10%	Using 6. 5 Digit Multimeter by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	AC High Voltage$	**50Hz** 1kV to 5kV	3.66% to1.39%	Using HV Probe with Multimeter by Direct Method
4.	DC High Voltage$	1kV to 5kV	3.24% to 3.01%	Using HV Probe with Multimeter by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Digital / Vernier Caliper[$] LC : 0.01 mm LC : 0.01 mm	 0 to 300 mm 0 to 600 mm	 14.0 µm 15.0 µm	Using Slip Gauge 0 Grade, Caliper Checker Comparison Method IS 3651
2.	External Micrometer[$] LC : 0.001 mm	0 to 25 mm	2.0 µm	Using Slip Gauge 0 Grade by Comparison Method IS 2967
3.	Height Gauge[$] LC : 0.01 mm	0 to 600 mm	14.0 µm	Using Caliper Checker Surface Plate by Comparison Method IS 2921
4.	Feeler Gauge[$]	0.03 to 1.0 mm	3.8 µm	Using Digital Micrometer by Comparison Method IS 3179
5.	V Block[$] Parallelism Working Face Parallelism V Axis Symmetricity Error	Upto 150 mm	7.2 µm 7.2 µm 7.2 µm	Using Dial Test Indicator with Height Gauge, Surface Plate, Test Mandrel by Comparison Method IS 2949

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**PRESSURE INDICATING DEVICES**			
1.	Pressure Gauge[$]	0 to 100 bar	0.29 bar	Using Digital Pressure Gauge & hydraulic comparator pump as per DKD-R6-1
III.	**TORQUE MEASURING DEVICES**			
1.	Torque Screw Driver[$] (Type II, Class D, E & F)	0.81 Nm to 4.41 Nm	2.7 % rdg	Using Digital Torque Meter As per IS/ISO 6789

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

[$]Only in Permanent Laboratory

Ram Ashray
Convenor

Avijit Das
Program Director