118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



CERTIFICATE OF ACCREDITATION (AS PER ISO/IEC 17025:2017)

This is to attest that

M/s YADAV MEASUREMENTS PRIVATE LIMITED

373-375 RIICO Bhama Shah Industrial Area Kaladwas Udaipur-313003 (Rajasthan), India

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for Calibration laboratories.

Certificate Number: CL- 126

Issue Date: 12.06.2024

Valid Until: 11.06.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (For scope of accreditation visit website www.fdasindia.org).

DEVI SARAN TEWARI Director

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 126)

Laboratory Name:	M/s Yadav Measurements Private Limited		
	373 – 375 RIICO Bhama Shah Industrial Area		
	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Group:	Alternating Current			
1	Power Frequency	Using calibrator by direct method	40Hz to 70Hz	0.0028 Hz to 0.0049 Hz
2	Magnitude of Supply	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
	Voltage3Phase & 1Phase	method	10% to 150%	
			50Hz/60Hz	
3	Magnitude of Current	Using calibrator by direct	1A to 5A	0.20% to 0.08%
		method	10% to 100%	
			50Hz/60Hz	
4	Voltage interruption,	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
	dips and swell	method	50Hz/60Hz	
			(0 to 200%)	
5	Voltage Harmonics	Using calibrator by direct	57.7V to 240V	1.20%
	Voltage Interharmonics/	method	(50Hz/60Hz)	
	Mains Signalling in		(2nd to 50th order)	
	Voltage		(0.1% to 16%)	
6	Current Harmonics	Using calibrator by direct	1A to 5A	1.20%
	Current Interharmonics	method	(50Hz/60Hz)	
			(2nd to 50th order)	
			(0.1% to 60%)	
7	Total Harmonic	Using calibrator by direct	1A to 5A	1.20%
	distortion for Voltage	method	(50Hz/60Hz)	
	and Current		(2nd to 50th order)	
8	Voltage Unbalance	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
		method	(50Hz/60Hz)	
			(0% to 5.2%)	



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Laboratory Name:	M/s Yadav Measurements Private Limited		
	373 – 375 RIICO Bhama Shah Industrial Area		
	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

9	Current Unbalance	Using calibrator by direct	1A to 5A	0.07% to 0.08%
		method	(50Hz/60Hz)	
			(0% to 18.1%)	
10	Flicker/Voltage	Using calibrator by direct	230V/120V	0.33% to 0.50%
	Fluctuations	method	(50Hz/60Hz)	
	Sinusoidal / Rectangular		(0.008Hz to 40Hz)	
	modulation		(1CPM to 4800CPM)	
			Pst:- 0.2 to 10 Pinst	
11	Three Phase Voltage dips	s, short interruptions and var	iations (16Amp) for 5	0Hz and 60Hz
11.1	Phase Angle	IEC 61000-4-11:2020	0° to 360°	1.5°
11.2	Rise time /Fall time	EN 61000-4-11:2022	0.1 to 5µs	3.0%
11.3	No load Voltage		1 to 240V (P-N),	2.0%
			415 (P-P)	
11.4	Inrush Current		Up to 500 Amp	3.5%
11.5	Time Interval		1ms to 5min	3.0%
11.6	Output current		Up to 40Amp	3.0%
	capability for 16Amp			
	generator			
11.7	Open circuit Overshoot		1V to 240V	2.0%
	and undershoot			



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Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Group:	oup: Direct Current			
12	DC Voltage dips, short int	erruptions and variations (21	Amp)	
12.1	Rise time /Fall time	IEC 61000-4-29:2000	0.1 to 50µs	3.0%
12.2	No load Voltage	EN 61000-4-29:2002	1 to 425V	2.0%
12.3	Inrush Current		50A at 24V	3.5%
			100A at 48V	
			220A at 110V	
12.4	Time Interval		1ms to 5min	3.0%
12.5	Output current		Up to 21 Amp	2.5%
12.6	Output voltage variation		0.1 to 25V	3.0%
	with load		Up to 21A	
12.7	Open circuit Overshoot		1V to 425Vdc	2.0%
	and undershoot			
12.8	Ripple content		0.1 to 10V	2.5%
Group:	Electrical Equipment			
13	Voltage Transformer /	Using Automatic Instrument	33 kV to 220	0.015%
	Capacitor VOLTAGE	transformer test set &	kV (Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Ratio	Method	(Secondary)	
	Error			
14	Voltage Transformer /	Using Automatic Instrument	33 kV to 220 kV	0.89min
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	Method	(Secondary)	
	Angle Error			



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Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Current Transformer 15 Using Precision current 5A to 2000 A 0.021% to 0.029% (Primary Injection) transformer & Automatic (Primary) Instrument transformer test 1A,5A (Secondary) Ratio Error set by Comparison Method Current Transformer Using Precision current 5A to 2000A 0.68 min to 16 (Primary Injection) transformer & Automatic 1.45 min (Primary) Phase Error Instrument transformer test 1A, 5A (Secondary) set by Comparison Method 17 Current Transformer Using Portable CT/VT 10 A to 10000 A 0.10% (Secondary Injection) Calibrator by Direct Method (Primary) Ratio Error 1A, 5A (Secondary) 5A (Primary) 5A(Secondary) Current Transformer Using Portable CT/VT 10 A to 10000 A 18 3.40 min to (Secondary Injection) Calibrator by Direct Method 6.33 min (Primary) Phase Error 1A, 5A (Secondary) 5A (Primary) 5A(Secondary) Voltage Transformer Using Portable CT/VT 2.2 kV to 33 kV 0.15% 19 (Secondary Injection) Calibrator by Direct Method (Primary) Ratio Error 50.8 V to 132 V (Secondary) 20 Voltage Transformer Using Portable CT/VT 2.2 kV to 33 kV 5.6min Calibrator by Direct Method (Secondary Injection) (Primary) Phase Error 50.8 V to 132 V (Secondary)

Electro - Technical Calibration (Laboratory based)



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	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

21	Voltage Transformer /	Using Automatic	110 V to 2.2	0.05%
	Capacitor VOLTAGE	Instrument transformer test	kV (Primary)	
	TRANSFORMER/	set & EMVT by Comparison	50.8 V to 132	
	VOLTAGE DIVIDER Ratio	Method	V (Secondary)	
	Error			
22	Voltage Transformer /	Using Automatic	110 V to 2.2 kV	2.0 min
	Capacitor VOLTAGE	Instrument transformer test	(Primary)	
	TRANSFORMER/	set & EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	Method	(Secondary)	
	Error			
23	Voltage Transformer /	Using Automatic	2.2 kV to 6.6 kV	0.10%
	Capacitor VOLTAGE	Instrument transformer test	(Primary)	
	TRANSFORMER/	set & EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Ratio	Method	(Secondary)	
	Error			
24	Voltage Transformer /	Using Automatic Instrument	2.2 kV to 6.6 kV	2.50 min
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	Method	(Secondary)	
	Error			
25	Voltage Transformer /	Using Automatic Instrument	6.6 kV to 11 kV	0.039% to 0.014%
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Ratio	Method	(Secondary)	
	Error			



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	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

26	Voltage Transformer /	Using Automatic	6.6 kV to 11	0.78 min to
	Capacitor VOLTAGE	Instrument transformer test	kV (Primary)	1.23 min
	TRANSFORMER/	set & EMVT by Comparison	50.8 V to 132	
	VOLTAGE DIVIDER Phase	Method	V (Secondary)	
	Error			
27	Voltage Transformer /	Using Automatic Instrument	11 kV to 33 kV	0.015%
	Capacitor VOLTAGE	transformer test set &	(Primary) 50.8	
	TRANSFORMER/	EMVT by Comparison	V to 132 V	
	VOLTAGE DIVIDER Ratio	Method	(Secondary)	
	Error			
28	Voltage Transformer /	Using Automatic	11 kV to 33 kV	0.78 min to 0.89 min
	Capacitor VOLTAGE	Instrument transformer test	(Primary) 50.8	
Т	TRANSFORMER/	y set & EMVT by Comparison ER Phase Method	V to 132 V	
	VOLTAGE DIVIDER Phase		(Secondary)	
	Error			
Group:	Special HF Measurement	S		
29	EFT/Burst Generators			
29.1	Peak Voltage Into 50Ω &	IEC 61000-4-4:2012	0.25 kV to 7 kV	2.54%
	1kΩ			
29.2	Rise time and Pulse		5ns to 50ns	3.0%
	width			
29.3	Burst period and		15ms to 300ms	2.0%
	Duration			
29.4	Frequency		2.5 kHz, 5 kHz, 100	1.17%
			kHz	



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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

30	Surge Generators				
30.1	Open circuit Voltage	IEC 61000-4-5:2014	0.5 kV to 15 kV	4.21%	
30.2	Front time and Duration	Amd1:2017	0.5 μs to 700 μs	3.15%	
30.3	Short circuit current		0.25 kA to 7.5 kA	4.5%	
30.4	Phase Angle		0° to 360°	1.5°	
30.5	Open circuit Overshoot and undershoot		0.5 kV to 15 kV	3.8%	
31	Damped oscillatory wave Generators				
31.1	Open circuit Voltage	IEC 61000-4-18:2019	0.5 kV to 4kV	3.8%	
31.2	Rise time		1.0 ns to 1 s	3.0%	
31.3	Short circuit current		2.5 A to 20.0A	4.0%	
31.4	Voltage oscillation		100 kHz and 1 MHz	@ 2.5kV,100kHz	
	Frequencies			0.5%	
31.5	Repetition rate		40/s for 100kHz and	@ 2.5kV,100kHz	
			400/s for 1MHz	0.6%	
31.6	Decaying		Peak (5) >50% Peak	3.5%	
			(1) Peak (10) <		
			50% Peak (1)		
31.7	Burst duration.		not less than 2s	0.5%	



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Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

32	Ring wave Generators			
32.1	Open circuit Voltage	IEC 61000-4-12:2017	0.25 kV to 6kV	4.0%
32.2	Rise time		0.2μs to 1.0 μs	3.0%
32.3	Short circuit current		8.0 A to 500.0A	3.5%
32.4	Voltage Oscillation		100 kHz and 1 MHz	0.5%
	Frequencies			
32.5	Repetition rate		1/minute or	0.5%
			1/second	
	Decaying		$0.4 \leq ratio of Pk_2 to$	3.5%
			Pk1 ≤ 1.1	
32.6			$0.4 \leq ratio of Pk_3 to$	
52.0			Pk₂ ≤ 0.8	
			$0.4 \leq ratio of Pk_4 to$	
			Pk₃ ≤ 0.8	
32.7	Phase Angle		0° to 360°	1.5°
33	High frequency field unif	ormity (GETM/3m Anechoic o	chamber)	
33.1	GTEM (20-3000) MHz	IEC 61000-4-3:2020	1V/m to 30V/m	0.38V/m@1V/m
				1.14V/m@3V/m
				3.80V/m@10V/m
				11.36V/m@30V/m
33.2	Anechoic chamber (80-		1V/m to 30V/m	0.38V/m@1V/m
	6000) MHz			1.14V/m@3V/m
				3.80V/m@10V/m
				11.36V/m@30V/m



118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

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Laboratory Name:	M/s Yadav Measurements Private Limited		
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	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

34	mmunity to conducted, differential mode disturbances and signaling in frequency range 2kHz to			
	150kHz at ac power port			
34.1	Differential Current	IEC 61000-4-19:2014	0.5 to 4.4 Amp	3.5%
	measurement			
34.2	Impedance		1 ohm	3.5%
	measurements			
34.3	Voltage measurement		0.5 to 5 Volt	3.0%
34.4	Pulse Duration		1ms to 3s	0.63%
	measurement.			
34.5	Frequency measurement		2kHz to 150kHz	0.5%



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Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Group:	Alternating Current			
1	Power Frequency	Using calibrator by direct method	40Hz to 70Hz	0.0049 Hz to 0.0086 Hz
2	Magnitude of Supply	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
	Voltage 3Phase &	method	10% to 150%	
	1Phase		50Hz/60Hz	
3	Magnitude of Current	Using calibrator by direct	1A to 5A	0.20% to 0.08%
		method	10% to 100%	
			50Hz/60Hz	
4	Voltage interruption,	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
	dips and swell	method	50Hz/60Hz	
			(0 to 200%)	
5	Voltage Harmonics	Using calibrator by direct	57.7V to 240V	1.20%
	Voltage Interharmonics/	method	(50Hz/60Hz)	
	Mains Signalling in		(2nd to 50th order)	
	Voltage		(0.1% to 16%)	
6	Current Harmonics	Using calibrator by direct	1A to 5A	1.21%
	Current Interharmonics	method	(50Hz/60Hz)	
			(2nd to 50th order)	
			(0.1% to 60%)	
7	Total Harmonic	Using calibrator by direct	1A to 5A	1.21%
	distortion for Voltage	method	(50Hz/60Hz)	
	and Current		(2nd to 50th order)	



118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

8	Voltage Unbalance	Using calibrator by direct	57.7V to 240V	0.40% to 0.07%
		method	(50Hz/60Hz)	
			(0% to 5.2%)	
9	Current Unbalance	Using calibrator by direct	1A to 5A	0.07% to 0.08%
		method	(50Hz/60Hz)	
			(0% to 18.1%)	
10	Flicker/Voltage	Using calibrator by direct	230V/120V	0.33% to 0.50%
	Fluctuations Sinusoidal /	method	(50Hz/60Hz)	
	Rectangular modulation		(0.008Hz to 40Hz)	
			(1CPM to 4800CPM)	
			Pst:- 0.2 to 10 Pinst	
11	Three Phase Voltage dips	s, short interruptions and var	iations (16Amp) for 5	0Hz and 60Hz
11.1	Phase Angle	IEC 61000-4-11:2020	0° to 360°	2.0°
11.2	Rise time /Fall time	EN 61000-4-11:2022	0.1 to 5µs	3.0%
11.3	No load Voltage		1 to 240Vac (P-N),	2.5%
			415 (P-P)	
11.4	Inrush Current		Up to 500 Amp	3.5%
11.5	Time Interval		1ms to 5min	3.5%
11.6	Output current		Up to 40Amp	3.5%
	capability for 16Amp			
	generator			
11.7	Open circuit Overshoot		1V to 240Vac	3.0%
	and undershoot			



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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Group:	Direct Current			
12	DC Voltage dips, short int	erruptions and variations (32	Amp)	
12.1	Rise time /Fall time	IEC 61000-4-29:2000	0.1 to 50µs	3.5%
12.2	No load Voltage	EN 61000-4-29:2002	1 to 425Vdc	2.5%
12.3	Inrush Current		50A at 24V	4.0%
			100A at 48V	
			220A at 110V	
12.4	Time Interval		1ms to 5min	3.5%
12.5	Output current		Up to 32 Amp	3.0%
12.6	Output voltage variation		0.2 to 25V	4.0%
	with load		Up to 40A	
12.7	Open circuit Overshoot		1V to 425V	2.5%
	and undershoot			
12.8	Ripple content		0.1 to 10V	3.0%
Group:	Electrical Equipments			I
13	Voltage Transformer /	Using Automatic Instrument	33 kV to 220 kV	0.025% to 0.032%
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Ratio	ivietnod	(Secondary)	
	Error			
14	Voltage Transformer /	Using Automatic Instrument	33 kV to 220 kV	1.46 to 1.62 min
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	ENIVE by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	INIECHOU	(Secondary)	
	Angle Error			



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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 126)

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Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

15	Current Transformer	Using Precision current	5A to 2000 A	0.024% to 0.043%
	(Primary Injection) Ratio	transformer & Automatic	(Primary)	
	Error	Instrument transformer test	1A, 5A (Secondary)	
		set by Comparison Method		
16	Current Transformer	Using Precision current	5A to 2000A	1.40 min to 1.59 min
	(Primary Injection) Phase	transformer & Automatic	(Primary)	
	Error	Instrument transformer test	1A, 5A (Secondary)	
		set by Comparison Method		
17	Current Transformer	Using Portable CT/VT	10 A to 10000 A	0.10%
	(Secondary Injection)	Calibrator by Direct Method	(Primary)	
	Ratio Error		1A, 5A (Secondary)	
			5A (Primary)	
			5A(Secondary)	
18	Current Transformer	Using Portable CT/VT	10 A to 10000A	2.80 min to 6.32 min
	(Secondary Injection)	Calibrator by Direct Method	(Primary)	
	Phase Error		1A, 5A (Secondary)	
			5A (Primary)	
			5A(Secondary)	
19	Voltage Transformer	Using Portable CT/VT	2.2 kV to 33 kV	0.15%
	(Secondary Injection)	Calibrator by Direct Method	(Primary)	
	Ratio Error		50.8 V to 132 V	
			(Secondary)	
20	Voltage Transformer	Using Portable CT/VT	2.2 kV to 33 kV	5.60 min
	(Secondary Injection)	Calibrator by Direct Method	(Primary)	
	Phase Error		50.8 V to 132 V	
			(Secondary)	





118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 126)

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Laboratory Name:	M/s Yadav Measurements Private Limited		
	373 – 375 RIICO Bhama Shah Industrial Area		
	Kaladwas Udaipur- 313003 (Rajasthan), India		
Validity:	12.06.2024 to 11.06.2026	Amended on	N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

21	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	0.094%
22	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	2.00 min
23	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	0.10%
24	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	2.50 min
25	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	0.039% to 0.018%





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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

26	Voltage Transformer /	Using Automatic Instrument	6.6 kV to 11 kV	1.62 min
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	Method	(Secondary)	
	Error			
27	Voltage Transformer /	Using Automatic Instrument	11 kV to 33 kV	0.023%
	Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Ratio	Method	(Secondary)	
	Error			
28	Voltage Transformer	Using Automatic Instrument	11 kV to 33 kV	1.48 min
	/Capacitor VOLTAGE	transformer test set &	(Primary)	
	TRANSFORMER/	EMVT by Comparison	50.8 V to 132 V	
	VOLTAGE DIVIDER Phase	Method	(Secondary)	
	Error			
Group:	Special HF Requirements			
29	EFT/Burst Generators			
29.1	Peak Voltage Into 50Ω &	IEC 61000-4-4:2012	0.25 kV to 7 kV	3.0%
	1kΩ			
29.2	Rise time and Pulse		5ns to 50ns	5.0%
	width			
29.3	Burst period and		15ms to 300ms	5.0%
	Duration			
29.4	Frequency		2.5 kHz, 5 kHz, 100	5.0%
			kHz	





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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

30	Surge Generators			
30.1	Open circuit Voltage	IEC 61000-4-5:2014	0.5 kV to 15 kV	4.5%
30.2	Front time and Duration	+Amd1:2017	0.5 μs to 700 μs	3.5%
30.3	Short circuit current		0.25 kA to 7.5 kA	5.0%
30.4	Phase Angle		0° to 360°	1.7°
30.5	Open circuit Overshoot		0.5 kV to 15 kV	5.0%
	and undershoot			
31	Damped oscillatory wave	Generators	•	
31.1	Open circuit Voltage	IEC 61000-4-18:2019	0.5 kV to 4kV	4.0%
31.2	Rise time		1.0 ns to 1.s	3.5%
31.3	Short circuit current		2.5 A to 20.0A	4.5%
31.4	Voltage oscillation		100 kHz and 1 MHz	@2.5kV,100kHz
	Frequencies			0.6%
31.5	Repetition rate		40/s for 100kHz and	@2.5kV,100kHz
			400/s for 1MHz	0.6%
31.6	Decaying		$0.4 \leq ratio of Pk_2 to$	4.0%
			Pk1 ≤ 1.1	
			0.4 ≤ ratio of Pk ₃ to	
			Pk₂ ≤ 0.8	
			$0.4 \leq ratio of Pk_4 to$	
			Pk₃ ≤ 0.8	
31.7	Burst duration		not less than 2s	0.8%



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S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

32	Ring wave Generators				
32.1	Open circuit Voltage	IEC 61000-4-12:2017	0.25 kV to 6kV	4.5%	
32.2	Rise time		0.2us to 1.0us	3.5%	
32.3	Short circuit current		8.0 A to 500.0A	4.0%	
32.4	Voltage Oscillation		100 kHz and 1 MHz	0.8%	
	Frequencies				
32.5	Repetition rate		1/minute or	0.8%	
			1/second		
32.6	Decaying		$0.4 \leq ratio of Pk_2 to$	3.5%	
			Pk1 ≤ 1.1		
			$0.4 \leq ratio of Pk_3 to$		
			Pk₂ ≤ 0.8		
			$0.4 \leq ratio of Pk_4 to$		
			Pk₃ ≤ 0.8		
32.7	Phase Angle		0° to 360°	1.5°	
33	High frequency field uniformity (GETM/3m Anechoic chamber)				
33.1	GTEM (20-3000) MHz	IEC 61000-4-3:2020	1V/m to 30V/m	0.38V/m@1V/m	
				1.14V/m@3V/m	
				3.80V/m@10V/m	
				11.36V/m@30V/m	
33.2	Anechoic chamber (80-		1V/m to 30V/m	0.38V/m@1V/m	
	6000) MHz			1.14V/m@3V/m	
				3.80V/m@10V/m	
				11.36V/m@30V/m	



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SCOPE OF ACCREDITATION (Annexure to Certificate of CL - 126) Laboratory Name: M/s Yadav Measurements Private Limited 373 – 375 RIICO Bhama Shah Industrial Area Kaladwas Udaipur- 313003 (Rajasthan), India 12.06.2024 to 11.06.2026 Amended on N/A

S.No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

34	mmunity to conducted, differential mode disturbances and signaling in frequency range 2kHz to			
	150kHz at ac power port			
34.1	Differential Current	IEC 61000-4-19:2014	0.5 to 4.4 Amp	4.0
	measurement			
34.2	Impedance		10hm	3.8%
	measurements			
34.3	Voltage measurement		0.5 to 5 Volt	3.5%
34.4	Pulse Duration		1ms to 3s	1.0%
	measurement.			
	Pulse Duration			
	Measurement			
34.5	Frequency measurement		2kHz to 150kHz	0.5%

