

LIST OF TESTING INSTRUMENTS AND CALIBRATION

S. NO.	NAME OF EQUIPMENT	MAKE	MODEL NO.	SI. NO.	NAME OF THE TEST	RANGE	LEAST COUNT	ACCURACY	CALB'TD IN THE MONTH
1	Kelvin Bridge with galvanometer	Toshniwal Ind. (B'bay.) P. Ltd.	PL-39	1028	Conductor Resistance	2 Micro Ohms to 11 Ohms	2 Micro Ohms	+ / - 0.20% of Decade + 1 Div	-
2	L C R Meter	Vasavi Electronic	VLCH-17		Conductor Resistance, Capacitance & Inductance	R - 0 to 20 M Ohms L - 0 to 2000 H C - 0 to 2000 fd.	-	+ / - 2%	
3	HVAC Test Set	Zaran Trading Agency	Nil	AC-8149	High Voltage	0-2.5/5/10 KVAC/100 mA.	0.05/0.1/0.2 KV	+ / - 5%	
4	HVAC Spark Tester	.....do.....	Z-303	AC-6971	Inline HVAC Spark Test on Cores during Extrusion	0 - 15 KVAC, 1 KVA	0.6 KV	+ / - 5%	
5	Tensile Tester with Dumb-bell Cutter	Dutron Products	1:30	2040	1) Annealing test on copper conductors, 2) Tensile Strength on steel wire or Aluminium wire 3) Elongation on GI wire 4) Tensile strength & Elongation at break on PVC/PE	0-50/100/250 Kg	+ / - 1%		
6	Microscope	TIM India	-	78306	Insulation Sheath Thickness	0 - 7 mm	0.01 mm	-	-
7	Million Megha Ohm Meter	Sivananda Electronics	LS-3B	1100184	Insulation Resistance & Volume Resistivity	10 ¹⁰ Ohms to 10 ¹⁴ Ohms in 5 steps	-	+ / - 2% on first 3 ranges + / - 5% on next 2 ranges at the cent's scale.	
8	Thermostatic Controlled Oven with Forced Air Circulation	IEC	-	-	1) Shrinkage 2) Hot Deformation 3) Heat Shock	Amb to 250°C	-	+ / - 2°C	
9	Thermostatic Controlled Oven with Forced Air Circulation	Pathak Electric Works	-	179	1) Loss of mass 2) Thermal ageing in air Oven	Amb to 250°C	-	+ / - 2°C	
10	Weighing Balance Single Pan	K-Ray & Co.	K-15 Classic	17753	1) Loss of Mass 2) Thermal Stability & 3) Flammability	0 mg..... 100 gms.	0.01 mg	+ / - 0.2 mgs	-
11	Hot Deformation Test setup with a blade of 0.71 + / - 0.02 mm	Self Fabricated	-	-	Hot Deformation	As per IS : 10810 P (15)	-	-	-
12	Weights	Local Make	-	-	Hot Deformation	1 mg to 200 gms	-	-	-
13	S. S. Tube	Self Fabricated	-	-	1) Loss of Mass & 2) Thermal Ageing in air Oven	30cm Length & 10 cm Diameter	-	-	-
14	S. S. Test Mandrels	.....do.....	-	-	Heat Shock Test	4mm to 25mm Diameter As per IS : 10810P (14)	-	-	-
15	pH Paper	E-mark (I) Ltd.	-	-	Thermal Stability	pH 1 to 10	-	-	-
16	Glass Tube	Self-Fabricated	-	-	Thermal Stability	As per IS : 10810 P (60)	-	-	-
17	HVDC Test Set	Nilson	-	S / 4225 / 5 / 84	HVDC Water Immersion	0 - 3 KVDC	-	-	-
18	Water Bath with Temperature Controller	Self Fabricated	-	-	HVAC Water Immersion	Amb to 90°C	-	-	-
19	4 1/2 Digit Micro Volt meter	Prestige Electronics	-	2236	Resistance & Voltage Measurement	0 to 1999.9 Ohms 0 to 19.9 mv	-	-	-

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20	Water / Oil Bath Thermostatically Controlled with stirrer & Digital Temp. Indicator	Pashak Electrical work	-	120	Insulation Resistance & Thermal Emf Endurance Test	Amb to 200°C			
21	Flamability Test Chamber	Self Fabricated	-	-	Flamability Test	As per IS : 10810 P (53)			
22	Micro Meter	Mitutoyo Japan	Combimike	159-211N	Conductor Dimension	0 to 25mm 0 - 1 inch			
23	Vernier	.....do.....	-	505-633-50	Dia of Cores & Cables	0 to 150 mm			
24	Stop Watch	Made in China	-	-	Flamability test, HV test	0 to 15 minutes			
25	Wall Thermometer	-	-	-	To check the room temp.	0 to 55°C	1°C	-	-
26	Thermometer	-	-	-	.....do..... Water bath temp.	0 to 110°C	1°C	-	-
27	Thermometer	-	-	-	.....do..... Oven temp.	0 to 25°C	1°C	-	-
28	Thermometer	-	-	-	.....do..... Thermal Stability Oven Temperature	195 to 205°C	0.1°C	-	-
29	Copper Wire	-	-	-	To check the burren operation for Flamability Test	0.71 +/- 0.02 mm	-	-	-
30	HVAC Test Set	Indcoil Transformers P. Ltd.	-	DWT/112-88	HVAC Routine Test	0 to 3 KV.1 Amp.	-	+/- 5%	-
31	Thermal Stability oven with the Totalizer & Digital Temp. Indicator	Shri Krishna Electricals	TS-02	9209	Thermal Stability	Amb. to 250°C	-	+/- 0.5°C	-
32	Digital Multimeter	Hung Chang	601	21001996	To check Voltage, Current & Resistance	AC/DC 200 micro A to 2A 200m V to 750 V AC 200m V to 1000 V DC 200 Ohms to 20 M Ohm			
33	Dial Gauge	Mitutoyo	-	7301	To check sheet thickness Ex: Al, Mylar, Melinex tape	0 to 10 mm	0.01 mm	-	-
34	Analog multimeter	Sanwa India	P-3	593	-To check Voltage, Current & Resistance	V-AC/DC - 0 - 250V R-0 to 1 Mohms	5V 2 Kohms	+ 4% of full scale ± 3% of full scale	-
35	Micrometer	Mitutoyo	-	103-131	- To check diameter of Copper conductor, GI wire etc.	0 to 1 inch. 0 to 25mm	0.0001 inch. 0.01 mm	-	-
36	.....do.....	.....do.....	-	-	.....do.....	0 to 25mm	0.01mm	-	-
37	Vernier	Mitutoyo	-	-	Dia of Cable	0 to 150mm 0 to 6 inch.	0.02mm 0.001 inch.	-	-
38	Vernier	.....do.....	-	-	Dia of Cable	0 to 300 mm 0 to 12 inch.	0.02mm 0.001 inch.	-	-
39	Burner	Local Make	-	-	Flamability Test	As per IS : 10810 P (53)	-	-	-
40	Temperature Indicator	Radix	-	-	To cross check the Temp. of water / oil bath.	20° to + 400°C	1°C	-	-
41	MVDC Meter 4.5 Digit	Delta Engg. Corp.	4.5 Digit	-	EMF Test	0 to 200 mV	0.01 mV	+/- 0.10%	-
42	Meggar	P. S. Agencies	-	-	HV Test	0 to 200 M Ohms	-	5%	-
43	Digital LCR meter	Agronic Instrum ents Pvt. Ltd.	-	59	1) Resistance 2) Inductance 3) Capacitance	0 Ohms to 20 M Ohms 0 Micro H to 2000 H 0 PF to 200 F	-	+/- 1% +/- 2% +/- 2%	-