

Empanelled Labs with respect to Appliances

S.No	Appliance Name	Laboratory	Acceptance /Rejection Letter	Scope of Work	Relevant Standards
Ballast - Electronic					
1	Ballast Electronic	ERDA	₹ 27,010/-	1 Total Circuit Power	IS 13021(Part 1 & 2): 1991 for electronic ballasts
2		Bharat Test House Sonipat	₹ 27,010/-	2 Total Lamp Power 3 Ballast efficiencies 4 THD	
3		Conformity Testing Labs Pvt Ltd	₹ 27,010/-	5 THD with Capacitor 6 Power factor 7 Power Factor with capacitor	
4		Delhi Test House, Sonipat	₹ 27,010/-	8 Designed life in burning hours at defined ambient temperature	
Ballast - Electromagnetic					
1	Ballast Electromagnetic	Bharat Test House Sonipat	₹ 19,470/-	1 Total Circuit Power 2 Total Lamp Power 3 Ballast efficiencies 4 THD	IS 1534 (Part 1): 1977 for electromagnetic ballasts
2		Conformity Testing Labs Pvt Ltd	₹ 19,470/-	5 THD with Capacitor 6 Power factor 7 Power Factor with capacitor	
3		Delhi Test House	₹ 19,470/-	8 Designed life in burning hours at defined ambient temperature	
Ceiling Fans					
1	Ceiling Fans	Delhi Test House ,Sonipat	₹ 4,130/-	1 Air delivery & service Value	IS 374 :1979*
2		CPRI	₹ 4,130/-	2 Fan speed and power input	
3		Bharat Test House Sonipat	₹ 4,130/-	3 Sweep (mm)	
4		Classic Testing & Research Centre	₹ 4,130/-		
Colour Television					

1	Colour Television	Delhi Test House, Sonipat	₹ 7,670/-	1 Standby mode Power Consumption 2 On mode Power Consumption 3 Maximum Annual energy Consumption (kWh/year) 4 Picture level adjustment	IEC 62301 Ed. 2.0 for Standby Mode & IEC 62087 Ed. 3.0 for On Mode
2		Bharat Test House, Sonapat	₹ 7,670/-		
3		Classic Instrumentation Pvt Ltd	₹ 7,670/-		
4		Classic Testing & Research Centre	₹ 7,670/-		
5		EMC Testing & Compliance LLP	₹ 7,670/-		
6		Ab MSAI Research Labs Pvt Ltd	₹ 7,670/-		
7		Nextron International Lab Pvt Ltd	₹ 7,670/-		
8		Conformity Testing Labs Pvt Ltd	₹ 7,670/-		
9		URS products & Testing Pvt Ltd	₹ 7,670/-		
10		Matrix Test Labs	₹ 7,670/-		
11		MSME Testing Centre	₹ 7,670/-		
12		Nemko India (Test Lab) Pvt Ltd, Faridabad	₹ 7,670/-		
13		Nextron International Lab Pvt Ltd, Delhi	₹ 7,670/-		
Direct Cool Refrigerator					
1	Direct Cool Refrigerator	Bharat Test House, Sonipat	₹ 54,280/-	1. Energy consumption 2. Volume measurement test (storage and gross) 3. Pull down test 4 Operating Temperature Performance Test	IS 15750 & IS 1476
2		CPRI	₹ 54,280/-		
3		ERDA	₹ 54,280/-		
4		Classic Instrumentation Pvt Ltd	₹ 54,280/-		
5		Delhi Test House	₹ 54,280/-		
Diesel Engine Driven Monoset Pumps for Agricultural Purposes					
1	Diesel Engine Driven Monoset Pumps for Agricultural Purposes	ERDA	₹ 23,600/-	1 Measurement of nominal volume rate of flow 2 Nominal head 3 Fuel consumption in g/hr of the pump set at the nominal duty point 4 Specific Fuel Consumption (SFC) in	IS 11501:1986 IS 11170 :1985 IS 11346 : 2002
Frost Free Refrigerator					
1		Bharat Test House, Sonipat	₹ 54,280/-	1. Energy consumption	

2	Frost Free Refrigerator	CPRI	₹ 54,280/-	2.Volume measurement test (storage and gross) 3.Pull down test 4 Operating Temperature Performance Test	IS 15750 & IS 1476
3		ERDA	₹ 54,280/-		
4		Delhi Test House	₹ 54,280/-		
Distribution Transformer					
1	Distribution Transformer	ERDA	Upto 100 kVA – ₹ 67,390	1 Measurement of winding resistance 2 Measurement of impedance voltage / short circuit impedance and load loss (at 50% & 100%) 3 Measurement of no load loss and current 4 Temperature rise test	IS 1180 (Part 1)& IS 2026 (part 1 & 2) ad IS 2500 part 1) : 2000
2		C&I Calibrations pvt ltd	Above 100 kVA upto 250 kVA – ₹ 73,428		
3		Delhi Test House	Above 250 kVA upto 500 kVA – ₹ 84,928		
4		CPRI	Above 500 kVA upto 630 kVA – ₹ 1,18,890		
			Above 630 kVA upto 1000 kVA – ₹ 1,80,690		
Induction Motor					
1	Induction Motor	ERDA	Actual PII method	1 Measurement of winding resistance 2 No load test at rated voltage (determine input current power and speed) and at different voltages to compute windage losses 3 Full load test 4 Efficiency at 75% and 100% load 5 Efficiency class (eff 1, eff 2 & eff 3)	IS 12615:2011; IS 4029 - 1967; IS 325 : 1996 IS/ IEC 60034-2-1/ IS15999-2011
2		Bharat Test House, Sonipat	0.18-5.5 kW – ₹ 13,166/-		
3		Darshan Electrical Testing Research Laboratory	5.51-11 kW- ₹ 17,191/-		
4		CPRI	11.1-22 kW – ₹ 33,190/-		
5		National Small Industries Corp Ltd	22.1-45 kW – ₹ 49,088/-		
			45.1-75 kW – ₹ 59,590/-		
			75.1-110 kW – ₹ 79,226/-		
			Assumed PII		
			0.18-5.5 kW – ₹ 8,701/-		
			5.51-11 kW- ₹ 11,560/-		
			11.1-22 kW – ₹ 21,942/-		
			22.1-45 kW – ₹ 34,928/-		
			45.1-75 kW – ₹ 38,350/-		
			75.1-110 kW – ₹ 60,416/-		
Laptop/ Notebooks Computer					

1	Laptop/ Notebooks Computer	Delhi Test House Sonipat	₹ 5,900/-	1 Power consumption levels of Laptop/ Notebook computers for compliance with the Off, Sleep, and Idle levels. 2 Typical Energy Consumption (TEC) as per the equation given in the schedule 14	ENERGY STAR Test Procedure for Determining the Power Use of Computers
2		Classic Instrumentation Pvt Ltd	₹ 5,900/-		
3		EMC	₹ 5,900/-		
4		Ab MSAI Research Labs Pvt Ltd	₹ 5,900/-		
5		Classic Testing & Research Centre	₹ 5,900/-		
6		Bharat Test House	₹ 5,900/-		
7		URS Products & Testing Pvt Ltd	₹ 5,900/-		
8		Conformity Testing Labs Pvt Ltd	₹ 5,900/-		
9		Classic Testing & Research Centre	₹ 5,900/-		
10		Institute for Design of Electrical Measuring Instruments	₹ 5,900/-		
11		Matrix Test Labs, Delhi	₹ 5,900/-		
12		Nemko India (Test Lab) Pvt Ltd, Faridabad	₹ 5,900/-		
13		Nextron International Lab Pvt Ltd, Delhi	₹ 5,900/-		
LED Lamps					
1	LED Lamps	CEC, IIT Madras	₹ 41,300/-	1 Power Consumption (Watts) 2 Initial Luminous flux (Lumens) 3 Luminous flux at 1000 hours 4 Luminous flux at 6000 hours 5 Life (hours) 6 Luminous Efficacy (Lumen/Watt) 7 Power factor 8 CRI 9 Harmonics	IS 16102 (part 2)
2		Delhi Test House Sonipat	₹ 41,300/-		
3		Bharat Test House Sonapat	₹ 41,300/-		
4		Classic Instrumentation Pvt Ltd	₹ 41,300/-		
5		Conformity Testing Labs Pvt Ltd	₹ 41,300/-		
6		CPRI	₹ 41,300/-		
7		Classic Testing & Research Centre	₹ 41,300/-		
8		Institute for Design of Electrical Measuring Instruments	₹ 41,300/-		

Liquefied Petroleum Gas Stoves					
1	Liquefied Petroleum Gas Stoves	Delhi Test House Delhi	₹ 1,534/-	1 Thermal efficiency 2 Total gas consumption	IS 4246 : 2002
2		Bharat Test House, Delhi	₹ 1,534/-		
3		MSME Testing Centre, New Delhi	₹ 1,534/-		
Microwave Oven					
1	Microwave Oven	Classic Testing & Research Centre	₹ 12,980/-	1 Energy consumption 2 Standby Power 3 Efficiency	IEC 60705 IEC 62301 IS 11676(IEC 60705)
2		Conformity Testing Labs Pvt Ltd	₹ 12,980/-		
Office Equipment					
1	Office Equipment	EMC Testing & Compliance LLP	₹ 11,800/- (L1)	1 Standby Mode Power Consumption (Lowest power among the Ready, Sleep, Auto-off, off mode) for OM products 2 Typical Energy Consumption for TEC products	ENERGY STAR Program IEC 62301
2		Classic Instrumentation Pvt Ltd	₹ 11,800/- (L1)		
3		Classic Testing & Research Centre	₹ 11,800/- (L1)		
4		Ab MSAI Research Labs Pvt Ltd	₹ 11,800/- (L1)		
5		Bharat test house pvt ltd, sonipat	₹ 11,800/- (L1)		
6		URS Prodcuts & Testing Pvt Ltd.	₹ 11,800/- (L1)		
7		Conformity Testing Labs Pvt Ltd	₹ 11,800/- (L1)		
8		Classic Testing & Research Centre	₹ 11,800/- (L1)		
9		Delhi Test House, Sonipat	₹ 11,800/- (L1)		
10		Matrix Test Labs	₹ 11,800/- (L1)		
11		Nextron International Lab Pvt Ltd, Delhi	₹ 11,800/- (L1)		
Submersible Pump Sets					
1	Submerible Pump Set	ERDA	0.37 – 7.5 kW - ₹ 7,080/-	1 Nominal Volume rate of flow 2 Nominal Head 3 Overall Efficiency 4 Performance Curve	IS 14220:1994, IS 8034 : 2002, IS 9079 : 2002
2		National Small Industries Corporation Ltd	7.51 – 11 kW - ₹ 7,080/- 11.1 – 20 kW - ₹ 7,080/- 20.1 – 45 kW - ₹ 7 080/-		

		Bharat Test House, Sonapat	45.1 – 75 kW - ₹ 18,880/-		IS 11346: 2004
3		Darshan Electrical Testing & Research Laboratory	75 – 110 kW - ₹ 28,320/-		
Open well Submersible Pump -Sets					
1	Open well Submersible Pump -Sets	ERDA	0.37 – 5.5 kW - ₹ 7,080/-	1 Nominal Volume rate of flow 2 Nominal Head 3 Overall Efficiency 4 Performance Curve	IS 14220:1994, IS 8034 : 2002, IS 9079 : 2002, IS 11346: 2004
2		National Small Industries Corporation Ltd	5.51 – 11 kW - ₹ 7,080/-		
3		Bharat Test House, Sonapat	11.1 – 22 kW - ₹ 7,080/-		
4		Darshan Electrical Testing & Research Laboratory	22.1 – 45 kW - ₹ 7,080/- 45.1 – 75 kW - ₹ 18,880/- 75 – 110 kW - ₹ 28,320/-		
Mono Set - Pump -Sets					
1	Mono Set - Pump -Sets	ERDA	0.37 – 5.5 kW - ₹ 7,080/-	1 Nominal Volume rate of flow 2 Nominal Head 3 Overall Efficiency 4 Performance Curve	IS 14220:1994, IS 8034 : 2002, IS 9079 : 2002, IS 11346: 2004
2		National Small Industries Corporation Ltd	5.51 – 11 kW - ₹ 7,080/-		
3		Bharat Test House, Sonapat	11.1 – 22 kW - ₹ 7,080/-		
4		Darshan Electrical Testing & Research Laboratory	22.1 – 45 kW - ₹ 13,570/- 45.1 – 75 kW - ₹ 16,284/- 75 – 110 kW - ₹ 20,355/-		
Room Air Conditioner Fixed Speed					
1	Room Air Conditioner Fixed Speed	Bharat Test House, Sonipat	₹ 1,22,720/-	1 Cooling capacity 2 Power consumption 3 Max operating condition test	IS 1391 (Part 1 & Part 2)
2		CPRI	₹ 1,22,720/-		
3		Intertek	₹ 1,22,720/-		
4		Sierra Aircon Pvt Ltd, Gurugram	₹ 1,22,720/-		
Room Air Conditioner Variable Speed					
1	Room Air Conditioner	Bharat Test House, Sonipat	₹ 2,00,600/-	1 Cooling capacity (50 & 100 % load) 2 Power consumption (50 & 100 % load) Rated Frequency (50 & 100% load)	IS 1391 (Part 1 & Part 2) &
2		Intertek	₹ 2,00,600/-		

3	Variable Speed	CPRI	₹ 2,00,600/-	3 Max operating condition test	ISO 16358
4		Sierra Aircon Pvt Ltd, Gurugram	₹ 2,00,600/-		
Solid State Inverter					
1	Solid State Inverter	Delhi Test House, Sonipat	₹ 9,440/-	1 No-Load Test 2 Output Power Factor 3 . Total Harmonic Distortion 4 Capacity Test 5 Efficiency Range (DC to AC)	IS 13314:1992
2		Delhi Test House Delhi	₹ 9,440/-		
3		CEC, IIT Madras	₹ 9,440/-		
4		Bharat Test House Pvt Ltd - Sonapat	₹ 9,440/-		
5		Conformity Testing Labs Pvt Ltd	₹ 9,440/-		
Tubular Fluorescent Lamp					
1	Tubular Fluorescent Lamp	Bharat Test House, Sonipat	₹ 32,450/-	1 Visual examination and marking 2 Lamp & Cap dimension 3 Torsion test 4 IR measurement test 5 Burning test 6 Starting test 7 Lamp elect 8 Lumen characteristics 9 Colour characteristics 10 Lumen maintenance & life test (at100, 2000 hrs) 11 Lumen maintenance& life test (at	IS 2418 (Part I) , (Part II), (Part III) and Part(IV) – 1977
2		Delhi Test House ,Sonipat	₹ 32,450/-		
3		ERDA	₹ 32,450/-		
4		Conformity Testing Labs Pvt Ltd	₹ 32,450/-		
Washing Machine					
1	Washing Machine	Bharat Test House Sonipat	₹ 96,760/-	1 Energy and Water consumption 2 Determination of Wash Performance 3 Water Extraction Efficiency 4 Rinsing efficiency 5 Water extraction performance	IS 14155 & IEC 60456, IS 302:2:7
2		Delhi Test House, Sonipat	₹ 96,760/-		
Water Heater / Electric Geyser					

1	Water Heater / Electric Geyser	Delhi Test House, Sonipat	₹ 3,540/-	1 Standing losses (kwh/24hrs/45C) 2 Rated/Input Power 3 Rated Capacity (litres)	IS 2082:1993; IS 302-2-21
2		ERDA	₹ 3,540/-		
3		Nextron International Lab Pvt Ltd	₹ 3,540/-		
4		Bharat Test House Pvt Ltd Sonipat	₹ 3,540/-		
5		URS Products & Testing Pvt Ltd	₹ 3,540/-		
6		Classic Instrumentation Pvt Ltd	₹ 3,540/-		
7		Conformity Testing Labs Pvt Ltd	₹ 3,540/-		
8		Classic Testing & Research Centre	₹ 3,540/-		
9		MSME Testing Centre	₹ 3,540/-		
10		Nemko India (Test Lab) Pvt Ltd, Faridabad	₹ 3,540/-		
11		Nextron International Lab Pvt Ltd, Delhi	₹ 3,540/-		