

भारतीय मानक ब्यूरो

बं. शा. प्र., बंगलूरु

हमारा सन्दर्भ: BNBOL/LRS/OSL-6101024

23 अप्रैल 2020

विषय: सेंट्रल पॉवर रिसर्च इंस्टिट्यूट, बेंगलूरु के मान्यता क्षेत्र में परिवर्तन

सक्षम अधिकारी के अनुमोदन अनुसार सेंट्रल पॉवर रिसर्च इंस्टिट्यूट, प्रोफसर सी वी रमण रोड, सदाशिवनगर सब पोस्ट ऑफिस, पोस्ट बॉक्स नं. 8066, बेंगलूरु – 560080 (कर्नाटक) के मान्यता क्षेत्र में दिनांक 23 अप्रैल 2020 से परिवर्तन किया गया है।

प्रयोगशाला का परिवर्तित मान्यता क्षेत्र अनुबंध 1 में संलग्न है।

ब्युटी कुमारी झा
वै-सी, प्रभा. अधि. (प्र. मा. योजना)

वै. एफ. एवं प्रमुख, बं. शा. प्र.

वै. एफ. एवं प्रमुख, एल पी पी डी

भारतीय मानक ब्यूरो के सभी क्षे. कार्यालय / शा. कार्यालय / प्रयोगशालाएं / सी एम डी - I, II, III

प्रमुख, आई टी एस : कृपया इस परिपत्र को भारतीय मानक ब्यूरो के इंटरनेट पर अपलोड करें।

BUREAU OF INDIAN STANDARDS **BNBOL, BANGALORE**

Our Ref: BNBOL/LRS/OSL-6101024

23 April 2020

Subject: Modification in the Scope of Recognition of Central Power Research Institute (CPRI), Bangalore

As approved by the Competent Authority, scope of recognition of **Central Power Research Institute (CPRI), Prof. Sir C V Raman Road, Sadashivanagar Sub Post Office, P.B. No. 8066, Bangalore – 560080 (Karnataka)** has been modified w.e.f. **23 April 2020**.

The modified scope of recognition of the lab is enclosed as **Annexure 1**.

Beauty K Jha
Sc-C, OIC (LRS)

Sc-F & Head, BNBOL

Sc-F & Head, LPPD

All ROs/BOs/Labs/CMD-I/CMD-II/CMD-III

Head, ITS, BIS HQs: Please upload the circular on BIS Intranet.

Annexure-1

DATA ON OUTSIDE RECOGNIZED LABORATORIES		From 15/05/2017 to 14/05/2020	
OSL CODE:	6101024	CONTACT:	Dr. T. Bhavani Shanker, JD/ Dy. Quality Manager
NAME:	Central Power Research Institute (CPRI)	TELEPHONE:	080-23602457, 080-23601755, 9448141980
ADDRESS:	Prof. Sir C V Raman Road, Sadashivanagar Sub Post Office, P.B. No. 8066, Bangalore – 560080 (Karnataka)	FAX:	080-23601213
		E-mail:	tbs@cpri.in
		REMARKS:	Scope modified on 23/04/2020

S. No.	IS Number	Product	Testing Charges	Remarks
1	IS 335:1993	New Insulating Oils for Transformers and switchgears	Rs.36600/- (without SK Value) Rs. 37300 /- (with SK Value)	
2	IS 374:1979	Electric Ceiling Type Fans and Regulators	Rs.29950/-	
3	IS 398 (Part 2):1996	Aluminium conductors for overhead transmission purposes: Part 2 Aluminium conductors, galvanized steel reinforced	Rs.98550/-	
4	IS 398(Part 5):1992	Aluminium conductors for overhead transmission purposes: Part 5 Aluminium conductors - galvanized steel reinforced for extra high voltage (400 kV and above)	Rs.118850/-	
5	IS 648:2006	Cold rolled non-oriented electrical steel sheet and strip - Fully processed type	Rs.28900/-	
6	IS 694:2010	Polyvinyl Chloride Insulated Unsheathed--And Sheathed Cables/cords With Rigid And-- Flexible Conductor For Rated Voltages--Up To And Including 1100 V	Excluding FRLS & Additional ageing tests: Rs.98450/- for 1-core sheathed; Rs.65100/- for 1-core unsheathed; Rs.143600/- for 2-core; Rs.158950/- for 3-core; Rs.198800/- for 4-core; Rs.232000/- for 5-core and above Excluding FRLS tests & including Additional ageing tests: Rs.135300/- for 1-core sheathed; Rs.96250/- for 1-core unsheathed; Rs.182950/- for 2-core; Rs.205300/- for 3-	

			<p>core; Rs.252150/- for 4-core; Rs.292350/- for 5-core and above</p> <p>Excluding Additional ageing & including FRLS tests: Rs.142600/- for 1-core sheathed; Rs.109250/- for 1-core unsheathed; Rs.187850/- for 2-core; Rs.203100/- for 3-core; Rs.242950/- for 4-core; Rs.276150/- for 5-core and above</p> <p>Including FRLS & Additional ageing tests: Rs.179450/- for 1-core sheathed; Rs.146000/- for 1-core unsheathed; Rs.227100/- for 2-core; Rs.249450/- for 3-core; Rs.296300/- for 4-core; Rs.336500/- for 5-core and above</p>	
7	IS 1180(Part 1):2014	Outdoor Type Oil Immersed Distribution Transformers Upto and Including 2 500 kVA, 33kV - Specification Part 1 Mineral Oil Immersed	<p>Single phase distribution transformers (Upto and including 25 kVA, 33 kV): Rs.37500/- for Routine tests; Rs.176950/- for Type tests above 11 kV class; Rs.34250/- for Special tests including BDV and Moisture content</p> <p>Three phase distribution transformers (Upto and including 2500 kVA, 33 kV): Routine tests: Rs.42600/- upto 100 kVA (without taps); Rs.50250/- Above 100 kVA & upto 630 kVA (4 taps); Rs.57900/- Above 100 kVA & upto 630 kVA (7 taps); Rs.63000/- Above 100 kVA & upto 630 kVA (9 taps); Rs.65650/- Above 630 kVA & upto 1600 kVA (7 taps); Rs.70750/- Above 630 kVA & upto 1600 kVA (9 taps); Rs.79450/- Above 1600 kVA & upto 2500 kVA (7 taps); Rs.84550/- Above 1600 kVA & upto 2500 kVA (9 taps)</p> <p>Type tests: Rs.198625/- Upto 100 kVA, 11 kV transformers (without taps); Rs.212200/- Upto 100 kVA, 33 kV transformers (without taps); Rs.230925/- Above 100 kVA & including 200 kVA, 11 kV transformers (4 taps); Rs.244500/- Above 100 kVA & including 200 kVA, 33 kV transformers (4 taps); Rs.246225/- Above 200 kVA & including 250 kVA, 11 kV Transformers (7 taps); Rs.259800/- Above 200 kVA & including 250 kVA, 33 kV Transformers (7 taps); Rs.273750/- Above 250 kVA & including 500 kVA, 11 kV Transformers (7 taps);</p>	

			<p>Rs.311300/- Above 250 kVA & including 500 kVA, 33 kV Transformers (7 taps);</p> <p>Rs.382900/- Above 500 kVA & including 630 kVA, 11 kV transformers (7 taps);</p> <p>Rs.539600/- Above 500 kVA & including 630 kVA, 33 kV transformers (7 taps);</p> <p>Rs.393100/- Above 500 kVA & including 630 kVA, 11 kV transformers (9 taps);</p> <p>Rs.549800/- Above 500 kVA & including 630 kVA, 33 kV transformers (9 taps);</p> <p>Rs.539600/- Above 630 kVA & including 1600 kVA, 11 kV / 33 kV Transformers (7 taps);</p> <p>Rs.549800/- Above 630 kVA & including 1600 kVA, 11 kV / 33 kV transformers (9 taps);</p> <p>Rs.625550/- Above 1600 kVA & including 2000 kVA, 11 kV / 33 kV Transformers(7 taps);</p> <p>Rs.635650/- Above 1600 kVA & including 2000 kVA, 11 kV / 33 kV transformers (9 taps);</p> <p>Rs.717350/- Above 2000 kVA & including 2500 kVA, 11 kV / 33 kV transformers (7 taps);</p> <p>Rs.727550/- Above 2000 kVA & including 2500 kVA, 11 kV / 33 kV transformers (9 taps)</p> <p>Rs.122775/- Upto 100 kVA, 11 kV transformers (without taps);</p> <p>Rs.136350/- Upto 100 kVA, 33 kV transformers (without taps);</p> <p>Rs.155075/- Above 100 kVA & including 200 kVA, 11 kV transformers(4 taps);</p> <p>Rs.168650/- Above 100 kVA & including 200 kVA, 33 kV transformers (4 taps);</p> <p>Rs.170375/- Above 200 kVA & including 250 kVA, 11 kV transformers (7 taps);</p> <p>Rs.183950/- Above 200 kVA & including 250 kVA, 33 kV transformers (7 taps);</p> <p>Rs.197900/- Above 250 kVA & including 500 kVA, 11 kV transformers (7 taps);</p> <p>Rs.235450/- Above 250 kVA & including 500 kVA, 33 kV transformers (7 taps);</p> <p>Rs.284850/- Above 500 kVA & including 630 kVA, 11 kV transformers (7 taps);</p> <p>Rs.441550/- Above 500 kVA & including 630 kVA, 33 kV transformers (7 taps);</p> <p>Rs.295050/- Above 500 kVA & including 630 kVA, 11 kV transformers (9 taps);</p> <p>Rs.451750/- Above 500 kVA & including 630 kVA, 33 kV transformers (9 taps);</p> <p>Rs.449300/- Above 630 kVA & including 1600 kVA, 11 kV / 33 kV transformers (7 taps);</p> <p>Rs.459500/- Above 630 kVA & including 1600 kVA, 11 kV / 33 kV transformers (9 taps);</p> <p>Rs.552150/- Above 1600 kVA & including 2500 kVA, 11 kV / 33 kV transformers (7 taps);</p>	
--	--	--	--	--

			Rs.562350/- Above 1600 kVA & including 2500 kVA, 11 kV / 33 kV transformers (9 taps)	
8	IS 1554(Part 1):1988	PVC insulated (heavy duty) electric cables: Part 1 For working voltages up to and including 1100 V	Excluding FRLS: Rs.102500/- for 1-core; Rs.135550/- for 2-core; Rs.168600/- for 3-core; Rs.201700/- for 4-core Including FRLS: Rs.189900/- for 1-core; Rs.222900/- for 2-core; Rs.256000/- for 3-core; Rs.289100/- for 4-core Including FR: Rs.170950/- 1-single core; Rs.203950/- for 2-core; Rs.237050/- for 3-core; Rs.270150/- for 4-core	
9	IS 1554(Part 2):1988	PVC Insulated (Heavy Duty) Electric Cables - Part 2 : for Working Voltages from 3.3 kV up to and Including 11 kV	Excluding FRLS: Rs.173650/- for 1-core; Rs.364900/- for 2-core; Including FRLS: Rs.254300/- 1-single core; Rs.445550/- for 2-core	
10	IS 1651:2013	Stationary Cells and Batteries, Lead-Acid Type (With Tubular Positive Plates)	Rs.1,58,850/-	ISS included w.e.f. 23/7/2018
11	IS 1652:2013	Stationary Cells and Batteries, Lead-Acid Type (With Plante Positive Plates)	Rs.1,58,850/-	ISS included w.e.f. 23/7/2018
12	IS 1709:1984	Capacitors for Electric Fan Motors	Rs.374450/- for Routine & Type tests (26 Nos.); Rs.14650/- for Routine tests (26 Nos.); Rs.359800/- for Type tests (26 Nos.)	
13	IS 2418 (Part-1):1977	Tubular Fluorescent Lamps for General Lighting service – Part 1 – Requirements and Tests	Rs.86,100/-	ISS included w.e.f. 10/9/2018
14	IS 2418 (Part-3):1977	Tubular Fluorescent Lamps for General Lighting service – Part 3 – Dimensions of G-5 and G-13 Bi-Pin Caps	Rs.2,250/-	ISS included w.e.f. 23/7/2018
15	IS 2418(Part-4):1977	Tubular Fluorescent Lamps for General Lighting service – Part 4 – Go and no-go Gauges for G-5 and G-13 Bi-Pin Caps	Rs.6,750/-	ISS included w.e.f. 23/7/2018
16	IS 2705(Part 1):1992	Current Transformers - Specification Part 1 General Requirements	Rs.82400 /- (upto 36 kV rating with 1 ratio & 35 kA rms for 1.0 Sec)	
17	IS 2705(Part 4):1992	Current transformers: Part 4 Protective current transformers	Rs.5100/-	

		for special purpose applications		
18	IS 2993:1998	A.C. motor capacitors	Rs.520000/- for Routine & Type tests (42 Nos.); Rs.12850/- for Routine tests (10 Nos. or part thereof); Rs.455750/- for Type tests (42 Nos.)	
19	IS 3024:2015	Grain Oriented Electrical Steel Sheet and Strip	Rs.23500/-	
20	IS 7098(Part 1):1988	Cross-linked polyethylene insulated PVC sheathed cables: Part 1 For working voltage up-to and including 1100 V	Excluding FRLS: Rs.109050/- for 1-core; Rs.126450/- for 2-core; Rs.151650/- for 3-core; Rs.173650/- for 4-core Including FRLS: Rs.196450/- for 1-core; Rs.213850/- for 2-core; Rs.239050/- for 3-core; Rs.261050/- for 4-core Including FR: Rs.177500/- 1-core; Rs.194900/- for 2-core; Rs.220100/- for 3-core; Rs.242100/- for 4-core	
21	IS 7098(Part 2):2011	Cross-linked Polyethylene Insulated Thermoplastics Sheathed Cables - Part 2 for Working Voltages from 3.3 kV up to and Including 33 kV	PE sheathed: Rs.211800/- 1-core; Rs.425850/- for 3-core PVC sheathed: Rs.209250/- for 1-core; Rs.422050/- for 3-core FR PVC sheathed: Rs.270000/- for 1-core; Rs.482800/- for 3-core FRLS PVC sheathed: Rs.289900/- for 1-core; Rs.499600/- for 3-core	
22	IS 7098(Part 3):1993	Cross-linked polyethylene insulated thermoplastic sheathed cables: Part 3 For working voltages from 66 kV up-to and including 220 kV	PE Sheathed, 66 kV: Rs.471150/- for cables up to 1000 mm ² ; Rs.510750/- for cables above 1000 mm ² and up to 1600 mm ² ; Rs.624750/- for cables above 1600 mm ² and up to 2500 mm ² PVC Sheathed, 66 kV: Rs.480200/- for cables up to 1000 mm ² ; Rs.505800/- for cables above 1000 mm ² and up to 1600 mm ² ; Rs.633800/- for cables above 1600 mm ² and up to 2500 mm ² PE Sheathed, 132 kV: Rs.1116950/- for cables up to 1000 mm ² ; Rs.1246950/- for cables above 1000 mm ² and up to 1600 mm ² ; Rs.1531950/- for cables above 1600 mm ² and	

			<p>up to 2500 mm² PVC Sheathed, 132 kV: Rs.1126000/- for cables up to 1000 mm²; Rs.1242000/- for cables above 1000 mm² and up to 1600 mm²; Rs.1541000/- for cables above 1600 mm² and up to 2500 mm² PE Sheathed, 220 kV: Rs.3275400/- for cables up to 1000 mm²; Rs.3487300/- for cables above 1000 mm² and up to 1600 mm²; Rs.3880900/- for cables above 1600 mm² and up to 2500 mm² PVC Sheathed, 220 kV: Rs.3444200/- for cables up to 1000 mm²; Rs.3528400/- for cables above 1000 mm² and up to 1600 mm²; Rs.3922000/- for cables above 1600 mm² and up to 2500 mm²</p>	
23	IS 9968(Part 1):1988	Elastomer insulated cables: Part 1 For working voltages up-to and including 1100 V	Rs.142900/- for 1-core; Rs.261100/- for 3-core; Rs.320200/- for 4-core	
24	IS 9968(Part 2):2002	Elastomer-insulated Cables - Part 2 : For Working Voltages from 3.3 kV up to and Including 3 3kV	Rs.210050/- for 1-core; Rs.399750/- for 2-core	
25	IS 12762(Part-1):2010	Photovoltaic Devices – Part 1 – Measurement of Photovoltaic Current – Voltage Characteristics	Rs.5,000/-	ISS included w.e.f. 23/7/2018
26	IS 13010:2002	A.C. Watthour Meters, Class 0.5, 1 and 2	Rs.181500/- for Type tests of 1-phase or 3-phase kWh meters (9 samples of same rating)	
27	IS 13314:1992	Solid State Inverters Run from Storage Batteries	Rs.2,18,100/-	ISS included w.e.f. 23/7/2018
28	IS 13340 (Part 1):2012	Power Capacitors of Self-healing Type for Ac Power Systems Having Rated Voltage Up to 650 V	Routine tests: Rs.13850/- Type tests: Rs.170800/- for 1 - 4 kvar Rs.178800/- for 5 - 10 kvar Rs.233500/- for 11 - 30 kvar Rs.228200/- for 31 - 50 kvar Rs.537100/- for 51 - 100 kvar Routine & Type tests: Rs.184650/- for 1 - 4 kvar Rs.192650/- for 5 - 10 kvar Rs.217350/- for 11 - 30 kvar Rs.242050/- for 31 - 50 kvar Rs.550950/- for 51 - 100 kvar	
29	IS 13369:1992	Stationary Lead-Acid Batteries (With Tubular Positive Plates) in Monobloc Containers	Rs.1,21,450/-	ISS included w.e.f. 23/7/2018

30	IS 13585 (Part 1):2012	Shunt Power Capacitors Of The Non -Self - Healing Type For ac Systems Having A Rated Voltage up to and Including 1 000 V-- PART 1 General - Performance, Testing and Rating – Safety Requirements – Guide for Installation and Operation	Routine tests: Rs.13850/- Type tests: Rs.191700/- for 1 - 4 kvar Rs.194650/- for 5 - 10 kvar Rs.212050/- for 11 - 30 kvar Rs.229500/- for 31 - 50 kvar Rs.460750/- for 51 - 100 kvar Routine & Type tests: Rs.205550/- for 1 - 4 kvar Rs.208500/- for 5 - 10 kvar Rs.225900/- for 11 - 30 kvar Rs.243350/- for 31 - 50 kvar Rs.474600/- for 51 - 100 kvar	
31	IS 13703 (Part 2/ Sec1):1993	Low-voltage fuses for voltages not exceeding 1 000 V AC or 1 500 V DC: Part 2 Fuses for use by authorized persons, Sec 1 Supplementary requirements	Rs.70250/- upto 200 A; Rs.76650/- upto 1000 A	
32	IS 13779:1999	A.C. Static Watthour Meters, Class 1 And 2	Rs.148500/- for Type tests of 1-phase or 3-phase whole direct) connected meters (3 samples of same rating); Rs.261000/- for Type tests and DLMS Compliance test (Two communication ports)	
33	IS 14255:1995	Aerial Bunched Cables for working voltages up to and including 1100 Volts	Rs.51250/- (1ph + 1 bare mes); Rs.72550/- (1ph + 1 ins. Mes); Rs.98450/- (3ph + 1 bare mes); Rs.119750/- (3ph + 1 ins. mes); Rs.122050/- (3ph + 1 bare mes + 1 SL) Rs.143300/- (3ph + 1 ins. Mes + 1 SL)	
34	IS 14286(Part 1):2019	Terrestrial Photovoltaic (PV) Modules — Design Qualification and Type Approval	Rs. 12,00,000(per batch)	Included w.e.f, 23/04/2020
35	IS 14494:1998	Elastomer insulated flexible cables for use in mines	LT cables: Rs.168450/- for 1-core; Rs.272250/- for 3-core; Rs.324150/- for 4-core; Rs.376050/- for 5.core; Rs.427950/- for 6-core; Rs.479850/- for 7-core HT cables: Rs.212900/- for 1-core; Rs.379600/- for 3-core; Rs.480050/- for 4-core; Rs.547600/- for 5.core; Rs.631600/- for 6-core; Rs.715600/- for 7-core	
36	IS 14697:1999	A.C. Static Transformer Operated Watthour and Var-hour Meters, Class 0.2 S and 0.5 S	Rs.188800/- for Type tests of 3-phase LT CT operated meters (3 samples of same rating); Rs.301300/- for Type tests and DLMS Compliance test (Two communication ports)	
37	IS 15549:2005	Stationary Regulated Lead-	Rs.2,58,750/-	ISS included

		Acid Batteries		w.e.f. 23/7/2018
38	IS 15959 (Part 1): 2011	Data Exchange for Electricity Meter - Reading Tariff and Load Control - Companion Specification Part 1 Static Energy Meter	Rs.112500/- for compliance tests (Two communication ports)	
39	IS 15959 (Part 2): 2016	Data Exchange for Electricity Meter Reading, Tariff and Load Control - Companion Specification Part 2 Smart Meter	Rs.100000/- for compliance tests : One communication port (Optical) Rs.30000/- for Communicability test	
40	IS 15959 (Part 3): 2017	Data Exchange for Electricity Meter Reading, Tariff and Load Control - Companion Specification Part 3 Smart Meter (Transformer Operated)	Rs.100000/- for compliance : One communication port (Optical) Rs.30000/- for Communicability test	Included w.e.f. 28/9/2017
41	IS 16102(Part 1):2012	Self-Ballasted LED Lamps for General Services – Part 1 – Safety Requirements	Rs.25,000/-	ISS included w.e.f. 23/7/2018
42	IS 16102 (Part 2):2012	Self-Ballasted LED Lamps for General Services – Part 2 – Performance Requirements	Rs.82,500/-	ISS included w.e.f. 07/12/2018
43	IS 16106:2012	Method of Electrical and Photometric Measurements of Solid State Lighting (LED) Products	Rs.58,000/-	ISS included w.e.f. 10/9/2018
44	IS 16169:2014	Test Procedure for Islanding Prevention Measures for Utility-Interconnected Photovoltaic Inverters	Rs.1,10,000/- up to 20 kW; Rs.1,40,000/- Above 20 kW- up to 50 kW; Rs.2,20,000/- Above 50kW - up to 100kW; Rs.3,20,000/- Above 100 kW- up to 200kW	ISS included w.e.f. 23/7/2018
45	IS 16169:2019	Utility-Interconnected Photovoltaic Inverters – Test Procedure of Islanding Prevention Measures	Rs. 1,10,000/-+18%GST upto 20kW	ISS included w.e.f. 23/04/2020
46	IS 16221 (Part 1):2016	Safety of Power Converters for Use in Photovoltaic Power Systems – Part 1 – General Requirements	Rs.12,37,000/- up to 20 kW; Rs.15,09,000/- Above 20 kW- up to 50 kW; Rs.19,53,000/- Above 50kW - up to 100kW; Rs.25,46,000/- Above 100 kW- up to 200kW	ISS included w.e.f. 10/9/2018
47	IS 16221 (Part 2):2015	Safety of Power Converters for Use in Photovoltaic Power Systems – Part 2 – Particular Requirements for Inverters	Rs.2,20,000/- up to 20 kW; Rs.3,00,000/- Above 20 kW- up to 50 kW; Rs.3,80,000/- Above 50kW - up to 100kW; Rs.4,70,000/- Above 100 kW- up to 200kW	ISS included w.e.f. 10/9/2018
48	IS 16270:2014	Secondary Cells and Batteries for Solar Photovoltaic Applications – General Requirements and Methods of Tests	Rs.2,78,100/-	ISS included w.e.f. 23/7/2018

49	IS 16444 (Part 1):2015	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	<p>Rs.455800/- for all tests on 1-phase smart meter (4 samples of same rating) with UC1 category load switch*</p> <p>Rs.568800/- for all tests on 1-phase smart meter (8 samples of same rating) with UC2 or UC3 category load switch*</p> <p>Rs.548900/- for all tests on 3-phase smart meter (4 samples of same rating) with UC1 category load switch*</p> <p>Rs.722500/- for all tests on 3-phase smart meter (8 samples of same rating) with UC2 or UC3 category load switch*</p> <p>* Inclusive of Data exchange protocol, tests for smart meter communicability as per IS 15959 (Part 2)</p>	<p>Exclusion: Equipment Type Approval (ETA) of modules for WAN/NAN/IHD shall be approved by designated agency authorized by DoT (Cl.10.6.1). This is not part of testing</p> <p>Sub-contracting: 'Radio-interference Measurement' as per cl.5.5.5 of IS 15884:2010 sub-contracted to ETDC, Bangalore; 'Immunity to Electromagnetic HF Field' as per cl.5.5.3 of IS 15884:2010 to CPRI, Bhopal</p>
50	IS 16444 (Part 2):2017	A.C. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2 S, 0.5 S and 1.0 S Part 2 Specification Transformer Operated Smart Meters	<p>Rs.318800/- for all tests on 3-phase smart meter (4 samples of same rating)</p> <p>Inclusive of Data exchange protocol and tests for smart meter communicability as per IS 15959 (Part 3)</p>	<p>Included w.e.f. 28/9/2017</p> <p>Exclusion: Equipment Type Approval (ETA) of modules for WAN/NAN/IHD shall be approved by designated agency authorized by DoT (Cl.9.5.1). This is not part of testing</p>
51	IS 16636:2017	Automatic Power Factor Correction panel for voltage ratings upto and including 1000V	<p>Temperature rise: Rs.75000/- for upto 200 kvar; Rs.100000/- for 201 - 600 kvar</p> <p>Di-electric properties: Rs.{6800/- x (6 + No. of stages in the panel)};</p> <p>Transient over-current due to capacitor switching: Rs.8850/- per stage x No. of identical stages</p>	<p>Included w.e.f. 28/9/2017</p>

			Verification of APFC feature: Rs.22000/- upto 200 kvar; Rs.25500/- for 201 – 400 kvar; Rs.29700/- for 401 – 600 kvar Other tests like SC, IP test etc: Depending on the design of panel	
52	IS/IEC 60898 (Part 1):2002	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations : Part 1 Circuit-breakers for ac operation	Test Sequence A: Rs.28200/-, Rs.30750/-, Rs.33300/-, Rs.35850/- for single, double, triple, four pole MCB respectively; Test Sequence B: Rs.210950/-, Rs.226250/-, Rs.246650/-, Rs.279800/- for single, double, triple, four pole MCB respectively; Test Sequence C1 : Rs.140100/-,Rs.150150/-, Rs.206250/-, Rs.219000/- for single, double, triple, four pole MCB respectively; Test Sequence C2 : Rs.55200/-, Rs.62850/-, Rs.108600/-, Rs.116250/- for single, double, triple, four pole MCB respectively; Test Sequence D0 + D1 : Rs.138400/-, Rs.152850/-, Rs.163050/-, Rs.170750/- for single, double, triple, four pole MCB respectively; Test Sequence E1 + E2 : Rs.106050/-, Rs.121350/-, Rs.141750/-, Rs.157050/- for single, double, triple, four pole MCB respectively	
53	IS/IEC 60947 (Part 2):2003	Low-Voltage Switchgear and Controlgear - Part 2 : Circuit Breakers	Test Sequence I: Rs.185350/- for upto 200A; Rs.188550/- for 201 – 1000 A Test Sequence II: Rs.91650/- for upto 200A; Rs.94850/- for 201 – 1000 A Test Sequence III: Rs.64350/- for upto 1000A Test Sequence IV: Rs.107450/- for upto 200A; Rs.110650/- for 201 – 1000 A Test Sequence V: Rs.117650/- for upto 200A; Rs.120850/- for 201 – 1000 A Combined Test Sequence V: Rs.140700/- for upto 200A; Rs.143900/- for 201 – 1000 A	
54	IS/IEC 60947 (Part 3):1999	Low voltage switchgear and controlgear : Part 3 Switches, disconnectors, switch-disconnectors and fuse combination units	Test Sequence I: Rs.111900/- for upto 1000 A (without impulse voltage rating); Rs.135900/- for upto 1000A (with impulse voltage rating); Test Sequence II: Rs.53800/- for upto 200A; Rs.57000/- for 201 – 1000 A	

			Test Sequence III: Rs.66900/- for upto 200A; Rs.70100/- for 201 – 1000 A Test Sequence IV: Rs.66900/- for upto 200A; Rs.70100/- for 201 – 1000 A	
55	IS/IEC 60947 (Part 4/Sec 1):2000	Low-Voltage Switchgear and Controlgear - Part 4 : Contractors and Motor-Starters - Section 1 : Electromechanical Contactors and Motors-Starters	Test Sequence I: Rs.21550/- for contractor upto 200 A (without impulse voltage rating); Rs.45550/- for contractor upto 200 A (with impulse voltage rating); Rs.71950/- for starter upto 200 A (without impulse voltage rating); Rs.95550/- for starter upto 200 A (with impulse voltage rating); Rs.24750/- for contractor upto 1000 A (without impulse voltage rating); Rs.48750/- for contractor upto 1000 A (with impulse voltage rating); Rs.75150/- for starter upto 1000 A (without impulse voltage rating); Rs.99150/- for starter upto 1000 A (with impulse voltage rating); Test Sequence II: Rs.94150/- for upto 1000 A Test Sequence III: Rs.103300/- for upto 1000 A Test Sequence IV: Rs.3550/- for upto 1000 A Test Sequence V: Rs.38800/- for upto 1000 A	
56	IS/IEC 61683:1999	Photovoltaic System – Power Conditioners -Procedure for Measuring Efficiency	Rs.65,000/- upto 5kVA; Rs.80,200/- Above 5kVA - upto 10 kVA; Rs.1,26,750/- Above 10kVA - upto 50 kVA; Rs.1,78,000/- Above 50kVA - upto 100 kVA; Rs.2,30,000/- Above 100kVA - upto 200kVA	IS/IEC included w.e.f. 23/7/2018
57	IS/IEC 61730(Part 2):2016	Photovoltaic (PV) Module Safety Qualification	Rs. 11,75,000/- per batch	IS/IEC included w.e.f. 23/4/2020