भारतीय मानक ब्यूरो बं. शा. प्र., बंगलूरु

हमारा सन्दर्भ: BNBOL/LRS/OSL-6101024

07 दिसंबर 2018

विषय: सेंट्रल पॉवर रिसर्च इंस्टिट्यूट, बेंगलूरू 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,** बेंगलूरू – **560080 (कर्नाटक)** के मान्यता क्षेत्र में दिनांक **07 दिसंबर 2018** से परिवर्तन किया गया है।

प्रयोगशाला का परिवर्तित मान्यता क्षेत्र अनुबंध 1 में संलग्न है।

सु. कु. अरोड़ा वैज्ञा-बी एवं प्रभा. अधि. (प्र. मा. योजना)

वै. एफ. एवं प्रमुख, बं. शा. प्र.

वै. एफ़. 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 इंट्रानेट पर अपलोड करें।

BUREAU OF INDIAN STANDARDS BNBOL, BANGALORE

Our Ref: BNBOL/LRS/OSL-6101024

07 December 2018

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. 07 December 2018.

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

S. K. Arora Sc-B, 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 OU	DATA ON OUTSIDE RECOGNIZED LABORATORIES		From 15/05/2017 to 14/05/2020	
OSL CODE:	6101024		CONTACT:	Dr. T. BhavaniShanker, 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 tbs@cpri.in
	· · · · · · · · · · · · · · · · · · ·	REMARKS:	Scope modified on (07/12/2018

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 UnsheathedAnd Sheathed Cables/cords With Rigid And Flexible Conductor For Rated VoltagesUp 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-core; Rs.252150/- for 4-core; Rs.292350/- for 5-core and above Excluding Additional ageing & including	

FRLS tests: Ps 1/2600/ for 1 core sheathed:	
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 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	
13 1180(Part 1):2014	

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			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 ofG-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-goGauges 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 for special purpose applications	Rs.5100/-	
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 theirof); Rs.455750/- for Type tests (42 Nos.)	
19	IS 3024:2015	Grain Oriented Electrical Steel Sheet and Strip	Rs.23500/-	

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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/- for1-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 mm²; Rs.510750/- for cables above 1000 mm² and up to 1600 mm²; Rs.624750/- for cables above 1600 mm² and up to 2500 mm² PVC Sheathed, 66 kV: Rs.480200/- for cables up to 1000 mm²; Rs.505800/- for cables above 1000 mm² and up to 1600 mm²; Rs.633800/- for cables above 1600 mm² and up to 2500 mm² PE Sheathed, 132 kV: Rs.1116950/- for cables up to 1000 mm²; Rs.1246950/- for cables above 1000 mm² and up to 1600 mm²; Rs.1531950/- for cables above 1600 mm² and up to 2500 mm² PVC Sheathed, 132 kV: Rs.1126000/- for cables above 1600 mm² and up to 2500 mm² PVC Sheathed, 132 kV: Rs.1242000/- for cables up to 1000 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.3487300/- for cables above 1000 mm² and up to 1600 mm²; Rs.3487300/- for cables above 1000 mm² and up to 1600 mm²;	

			up to 2500 mm ² PVC Sheathed, 220 kV: Rs.3444200/- for cables up to 1000 mm ² ; Rs.3528400/- for cables above 1000 mm ² and up to 1600 mm ² ; Rs.3922000/- for cables above 1600 mm ² and up to 2500 mm ²	
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 VPART 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	

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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 wholedirect)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 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	
35	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)	
36	IS 15549:2005	Stationary Regulated Lead- Acid Batteries	Rs.2,58,750/-	ISS included w.e.f. 23/7/2018
37	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)	
38	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	
39	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
40	IS 16102(Part	Self-Ballasted LED Lamps for	Rs.25,000/-	ISS included

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	1):2012	General Services – Part 1 – Safety Requirements		w.e.f. 23/7/2018
41	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
42	IS 16106:2012	Method of Electrical and Photometric Measurements of Sold State Lighting (LED) Products	Rs.58,000/-	ISS included w.e.f. 10/9/2018
43	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
44	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
45	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
46	IS 16270:2014	Secondary Cells and Batteries for Solar Photovoltaic Applications – GeneralRequirements and Methods of Tests	Rs.2,78,100/-	ISS included w.e.f. 23/7/2018
47	IS 16444 (Part 1):2015	A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2	Rs.455800/- for all tests on 1-phase smart meter (4 samples of same rating) with UC1 category load switch* Rs.568800/- for all tests on 1-phase smart meter (8 samples of same rating) with UC2 or UC3 category load switch* Rs.548900/- for all tests on 3-phase smart meter (4 samples of same rating) with UC1 category load switch* Rs.722500/- for all tests on 3-phase smart meter (8 samples of same rating) with UC2 or UC3 category load switch* * Inclusive of Data exchange protocol, tests for smart meter communicability as per IS 15959 (Part 2)	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 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
48	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	Rs.318800/- for all tests on 3-phase smart meter (4 samples of same rating) Inclusive of Data exchange protocol and tests for smart meter communicability as per IS 15959 (Part 3)	Included w.e.f. 28/9/2017 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
49	IS 16636:2017	Automatic Power Factor Correction panel for voltage ratings upto and including 1000V	Temperature rise: Rs.75000/- for upto 200 kvar; Rs.100000/- for 201 - 600 kvar Di-electric properties: Rs.{6800/- x (6 + No. of stages in the panel)}; Transient over-current due to capacitor switching: Rs.8850/- per stage x No. of identical stages 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	of testing Included w.e.f. 28/9/2017
50	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	

51	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	
52	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	
53	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 (withoutimpulse voltage rating); Rs.45550/- for contractor upto 200 A (withimpulse voltage rating); Rs.71950/- for starter upto 200 A (withoutimpulse voltage rating); Rs.95550/- for starter upto 200 A (withimpulse voltage rating); Rs.24750/- for contractor upto 1000 A (withoutimpulse voltage rating); Rs.48750/- for contractor upto 1000 A (withimpulse voltage rating); Rs.75150/- for starter upto 1000 A (withoutimpulse voltage rating); Rs.99150/- for starter upto 1000 A (withimpulse voltage rating); Test Sequence II: Rs.94150/- for upto 1000 A Test Sequence IV: Rs.3550/- for upto 1000 A Test Sequence IV: Rs.3550/- for upto 1000 A	

54	IS/IEC 61683:1999	Photovoltaic System – Power Conditioners -Procedure for Measuring Efficiency	Rs.65,000/- upto5kVA; Rs.80,200/- Above 5kVA - upto10 kVA; Rs.1,26,750/- Above 10kVA - upto50 kVA; Rs.1,78,000/- Above 50kVA - upto100 kVA; Rs.2,30,000/- Above 100kVA - upto200kVA	IS/IEC included w.e.f. 23/7/2018
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