

ELECTRIC (GENERAL) PRAYAGRAI**LIST OF LIKELY SOURCES FOR ELECTRICAL & GENERAL SERVICE ITEMS / EQUIPMENT**

Sr. No.	Item	Specification / IS No.	Likely Sources
1	Transformer upto 500KVA	IS: 1180: Part-1 - 2014 or latest	Crompton Greaves, Kirloskar, EMCO, TESLA Kanohar, BHEL, Mahindra, MEI Andrew yule, BBL, Alsthom, ABB, Siemens, GEC.
2	11Kv/HT Panel , AC Metal enclosed switchgear and control gear for rated voltage.	IS: 3427 or latest	Crompton Greaves, BHEL, Andrew yule, Alsthom (Areva), Jyoti, ABB, Siemens, GEC, L&T, Schneider, Biecco Lawrie.
3	ACB (11Kv)/VCB (11KV)	IS: 13118/1991 IS: 13947/1993 or latest. IEC-62271	Crompton Greaves, Jyoti, MEI, ABB, Merlin Gerin, Siemens, GEC, L&T, Schneider, Moeller Biecco Lawrie, English electric, Legrand
4	MCCBs, MCBs, ELCBs, RCCBs, DB, ICTPN, TP, HRC fuse changing over switch, switch fuse unit	IS:13947 (Part-1&5/Sec1)/93 or latest IEC 60947 (All Parts) for MCCB, IS: 12640 (Part- 1)/2000 or latest for RCCB, IS: 13703 (Part-2/sec 1)93/IS :12640/IEC 61009-1 or latest for HRC fuse, IS: 13947 (Part- 3)93 or latest for SFU.	Crompton Greaves, ABB, Merlin Gerin, Siemens, GEC, Andrew Yule, BCH, L&T, Havells, Schneider, Legrand, HPL.
5	LT-XLPE cable 11/33Kv grade	IS: 7098 (Part-2)/1985 or latest	Asian, NICCO, Universal, CCI, Torrent, Fort Gloster, INCAB, Industrial cable, Polycab, Finolex, Indian cable, Havells, KEI
6	PVC/XLPE power cables up to 1.1Kv grade	IS: 694/1990 or latest for PVC cable, IS: 1554(Part 1)1988 or latest for heavy duty PVC cable, IS: 7098(Part-1)/1988 or latest for XLPE cable.	CCI, Universal cable, Polycab, Asian, NICCO, Torrent, Fort Gloster, Incab, Industrial cable, Finolex, Kalinga, Havells, KEI, RR, HPL
7	Instrument voltmeter, Ammeter, PF meter, Multifunction Meter	IS: 1248/2003 or latest for analog IS: 13875/2008 or latest for digital IEC -62053	Automatic Electric, Meco, Industrial meter, Toshniwal, L&T, Siemens, IMP, Shanti, Moeller(HPL), ABB, CG, HPL
8	11Kv cable End termination & jointing kits	IS: 13573/92 or latest	Raychem, 3M, Safe system, Xicon brand of CCI, Mahindra & Mahindra, Hari consolidated (Cable seal brand), Densons (Yamuna)
9	Relays	IS: 3231/65 or latest IEC: 60255	Siemens, Alsthom, EA SUN REY Roll, Jyoti, ABB, BHEL, Alind, GE, BCH, L&T, Minilec, Enercon
10	Pvc insulated multistrands copper wires sheathed/ unsheathed, PVC flexible LT cable multi core, single core, flat cable for submersible pumps	IS: 694/1990 or latest for PVC cable	Finolex, CCI, Universal cable, Polycab, Asian, NICCO, Torrent, Fort Gloster, Incab, Havells, HPL, RR, Tycon
11	Current transformer	IS: 2705 (Part-1&2)/92 or latest	Automatic Electric, CGL, C&S, MECO, KAPPA, Simens, L&T, Schneider
12	Servo stabilizer, inverter CVT	IS: 13314/92 or latest for Inverter IS: 11260/85 or latest for voltage stabilizer, IS:9815 for servo stabilizers IS:16242 or IEC:62040-1	AEI, BHEL, Hind Rectifier, L&T, NGEF, Simens, HI- REL, Autometer, Enertech, pyramid, APC, Dubas, Exide, Microtek Luminous, Microtech, TATA Libert, servokon, Servostar

13	Rotary switches, selector switches	IS: Relevant or latest	Kaycee, L&T, Salzer, GE, ABB, C&S, Simens, HPL, Moeller
14	Exhaust fan/Bracket & pedestal fans/ceiling fan./BLDC Fan	IS: 374/79 or latest for ceiling fan IS: 2312/67 or latest for Exhaust fan/BEE star rating and certificate	Crompton Greaves, Khaitan, GEC, Usha, Philips, CGL, Bajaj, Polar, Orient,Atomberg, Kuhl,Havells
15	Galvanized High Mast Tower/ Tubular pole/ Octagonal pole/Polygonal pole for general purpose lighting	IS: 875 (Part-3) or latest for High mast IS: 10025/1993 or latest for BSTN, CPE III TRT/1996 or latest of ILE UK, Octagonal pole S355JO, IS: 2629 or latest Galvanization IS: O-1461 or latest BSEN	Bajaj, Philips, GE, CGL, Utkarsh
16	Electronic Energy Meter(Smart/Prepaid)	IS: 13779/1999 or latest, IEC: 62053-21 or latest, IS:16444:2015, IS:15884	L&T, HPL, Secure, ABB, Enercon, Havells
17	Central Air conditioning plants & Package type plant AC unit-package.	IS: 8148/1991 or latest for package type or AHRI 1230 standard for VRF/VRV	Voltas, Blue star, Sidwal, Lloyd, Shri Ram, Videocon, Carrier, Frick, Hitachi, O General, Mitsubhisi.
18	AC unit Split/window	IS: 1391 (Part 2)/1992 or latest for Room Air conditioners Split type IS: 1391 (Part 1)/1992 or latest for Room Air conditioners window type BEE Star rated certified.	Daikin, O General, Hitachi, LG, Carrier, Voltas, Blue star, Sidwal, Lloyd, Mitsubhisi.,IFB,Godrej.
19	Capacitors PF correction for Electrical General Services	IS: 13340/93 or latest, IS: 13341/92 or latest, IEC:61921 , IS:16636-APFC	ABB, BHEL, Indian Capacitors, Khatau Junker, Shreem, Unistar, WS Insulators, L&T, Hind Rectifier, Voltas, Simens, Shakti, Schneider, Indian Condenser, EPCOS
20	DG Sets Portable	ISO:8528 or Latest	Birla, Yamaha, CGL, Shriram Honda
21	DG Engine	IS: 13364 or latest	Cummins, Kirloskar, Caterpillar, Ashok Leylend, Penta- volvo
22	Alternator for DG set	As per relevent IS	KEC, Stampford, Leroy-somer, BHEL, Kirloskar- Green, Cummins, Mahindra, Caterpillar
23	Induction Motor	IS: 325/96 or latest, IS: 12615/2004 or latest	BBL, BHEL, CGL, GE, Jyoti, Kirloskar, Simens, ABB, NGEF, Alsthom.
24	LT switchgear & control gear, Contactors & motor starters, Energy Efficient soft starter panel/earthing switch, single phase preventer	IS: 13947 (Part 1)/1993 or latest, IS: 13947 (Part 4)/1993 or latest IEC:60947-4-2	ABB, CGL, L&T, MEI, NGEF, HPL,Simens, Telemecanique & control (india) (TC), Legrand (MDS), BCH, standard, GEC, BHEL, Minilec, Enercon, Andrewyule, C&S, N.N. planner, Power Boss, Schneider.
25	Pumps- Submersible	IS: 8034/2002 or latest for submersible pump sets, IS: 9283/1995 or latest for motors of submersible pump sets IS: 14220/1994 or latest for open well submersible pump sets	CGL, Kirloskar, KSB, Lubi, Varuna, Shakti,CRI
26	Timers electronic solid state	IS: 5834/1991 Part-3 or latest relevant	ABB, BHEL, GE, L&T, BCH, Simens, Minilec, Legrand
27	Water coolers	IS: 1475 Part -1/2001 or latest	Blue star, LLYOD, Kelvinator, Sidwal, Voltas.

28	Electrical accessories (Piano switch/modular switch, Plugs & sockets, ceiling rose, Angle holder, holders)	IS: 3854/97 or latest for switches IS: 1293/05 or latest for plugs & sockets IS: 371/99 or latest for ceiling rose IS: 1258/2005 for lamp holder Bakelite	Anchor (Penta-or-net), CONA (Nice-Indian), ABB, Rider, Havells, Le-grand, HPL
29	Bell Buzzer	IS: 2268/1988 or latest	CONA, Anchor, Havells
30	Electronic fan regulator	IS: 11037/1984 or latest	Anchor, Usha, ERIK, Rider, Havells
31	Solar cell/Module system	IS:14286	As per MNRE approved vendors
32	Solar Lighting system	IS:14286, IEC 60904-3 : 19891,IS 12762 (Part 3) : 2013	As per MNRE approved vendors
33	GI/MS Pipe	IS: 1239 (Part-1)/2004 or latest /relevant latest	TATA, Jindal, QST, Surya.
34	Geysers	IS: 2082/93 or latest or ISI marked	Bajaj, Usha, Crompton, Havells
35	Lifts & Escalators	IS: 14665/2000 or latest, CPWD Specifications for Lifts and Escalators:2003 and IS:15875	OTIS, Schindler, KONE, Mitsubhisi, Johnson, Thyssenkrup
36	Solar Water Heaters	IS:14286, IEC 60904-3 : 19891,IS 12762 (Part 3) : 2013	V-Guard,Tata powerAs per MNRE approved vendors
37	Solar Distilled water plants	IS:14286, IEC 60904-3 : 19891,IS 12762 (Part 3) : 2013	As per MNRE approved vendors
38	Energy savers used for lighting loads	IS: Relevant/RDSO approved	As per RDSO draft specification No. RDSO/PE/SPEC/PE/0083 (Rev.-0)/2007
39	Air cooling plants	IS: 8148/1976 or latest	Voltas, Blue Star, Carrier.
40	Battery charger for other than battery room for Train Lighting	As per relevant Specification.	Hind Rectifier, Usha Rectifier, Suresh Electrical, Pyramid, Automatic Electric, Delta Elect, Trinity Elect, Universal Ind. Products, Venus Engg., RS Power.
41	Battery Charger for battery room	As per RDSO specification having regeneration facility	Amar Raja, EXIDE, RS power.
42	PVC Conduit pipe & Casing capping for electrical wiring	IS: 9537/1980 or latest	Precision, A.K.G., Polycab, Finolex, BEC, Prestoplast, stargold, Diplast, Garware, V Plast, Modi.
43	Air Curtain	IS: Relevant	Aircon, ALMONARD, Technocrate, Thermadyne, Mitzwak.
44	Air break Isolators and earthing switch (GODO)	9921-1972(Part-3)-1982(part-4) or latest	ABB, ALIND, CGL, KIRON, MYSORE ELECTRIC , NGEF, SIEMENS, TRANS ELECTRICALS, ATLAS Mumbai.
45	Capacitor Fans and motors	1709:1984 or latest	BHEL, CGL, INDIAN CAPACITORS, KHATAU JUNKER, VOLTAS, WS INSULATOR,
46	Capacitor-PF correction for electrical general services.	2834-1986 superseding by IS 13925-1988 or latest	Regular: ABB, BHEL, INDIAN CAPACITORS, KHATAU JUNKER, UNI STAR, SHAKTI.
47	Induction Motor	IS: 325/1996 or latest	BBL, BHEL, CGL, GE, JYOTI, KIRLOSKER ELECTRIC
48	Lightning arrestor	3070/ part 1, 1985 or latest	ELPRO/OBLUM/LAMCO/GCL (N)
49	Insulators	731 or latest	BHEL/JAYSHREE/Sheshasayayee/W.S./Bengal Potteries
50	Pumps vertical turbine	1710:1989 or latest	JYOTI, KIRLOSKER BROS, MATHER & PLATT.
51	Timer Relays	5834/ 1991 or latest	ABB, BHEL, GE, JYOTI, L&T, SIEMENS

52	Transformers distribution above 500 KVA	IS: 1180: Part-1 - 2014 or latest	Crompton Greaves, Kirloskar, EMCO, TESLA, Kanohar, BHEL, Mahindra, MEI Andrew yule, BBL, Alsthom, ABB, Voltamp, Siemens, GEC.
53	Package Substation enclosed type	IEC:62271-202:2022	ABB, CGL, SCHNEIDER, GEC AREVA T&D India Ltd (Formerly ALOSTEM Ltd SIEMENS.
54	Alternator of D.G set		KEC/Stamford/KEL/CGL/BHEL.
55	White Hylum Sheet/ Phenalic laminated sheet	IS: 2036/1995 or latest	Hylem, Formica, Super Hylem, Anchor.
56	Selector Switch	IS: Relevant	Kay Cee, L&T, Salzar, Balaji.
57	HDPE Pipe/DWC Pipe	IS:4984:2016, ASTM D 3035	Awadh, Duraline, Rex Polyextrusion Ltd-, Himayalan, Plasto,NPI, V Plast Astral Pipes.
58	Time Switch (Timer)	As per Explanatory Note	GIC, HDS, Legrand, Havells, GE India,
59	ACSR Conductor	IS: 398/96 or (Latest Version)	--
60	Automatic Power Factor Correction system	IS 16636	L&T, ABB, Simens, Neptune, Havells, BCH, Schneider.
61	UP/Inverter/Batttries		SUKAM, LUMINOUS, EXIDE, MICROTECK, LIV GUARD, AMARON
62	Cabin Fan	IS:374	Khaitan, Bajaj, Orient, Usha, Standard, Havells.
63	LED fittings/Luminaries	IS: Relevant/Railway specification attached IS:10322, IS:16016, IS:16101, IS:16102	Philips,Crompton Greaves, Havells, Bajaj, Syska, Surya, GE, Wipro Having LED make:- Philips, Nichia, Lednium, Cree, Lumileds, Seoul, Osram.
64	Stabilizer	As per latest IS	Kirnotics, Ruptronics, Microtech, Blue bird, Servo, V-Guard
65	Earthing	IS:3043	JMV LPS Limited, Axis Electrical Components (India) Pvt. Ltd., Brass Copper & Alloy India Limited, Laxmi Industries, ESE Lightning Protection Pvt. Ltd.,Anjaneyay Power Progress(APPS Earthings), Electrode Earthing Pvt. Ltd.,ERICO India.,RDSO approved all vendors
66	Chemical Earthing	RDSO/SPN/197/2008	JMV LPS Limited, Axis Electrical Components (India) Pvt. Ltd., Brass Copper & Alloy India Limited, Laxmi Industries, ESE Lightning Protection Pvt. Ltd.,Anjaneyay Power Progress(APPS Earthings), Electrode Earthing Pvt. Ltd.,ERICO India.,RDSO approved all vendors
67	ACLS	RDSO Spec No.TI/SPC/PSC/CLS/0200 with Amendments	RDSO Approved vendors
68	Heat Covector/OFR	IS: 302-2-30:2007, ISI Marked	Bajaj, Usha, Havells, Crompton
69	Air Circulator	IS:2997 (B)-(1964)	Almonard, Bajaj, Cromptpn