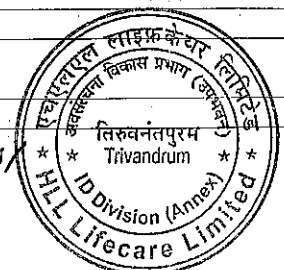


**HLL LIFECARE LIMITED**  
**INFRASTRUCTURE DEVELOPMENT DIVISION (S&W)**

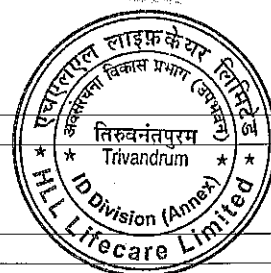
**FINALISED CONSOLIDATED LIST OF APPROVED MAKES (ELECTRICAL) EXISTING AS ON 15.04.2016**

SL NO	ITEMS	MAKES	REMARKS
1	11kV Ring Main Unit (SF6 / VCB) (Gas Insulated)	ABB, Siemens, Schneider, Crompton	
2	11kV Ring Main Unit (LBS) (Air Insulated)	ABB, Siemens, Schneider, Crompton, Intrans, Megawin, Resitech, System control	The make Intrans and Resitech are manufactured in Kerala. The make Megawin & System control are manufactured in Tamilnadu.
3	11kV HT Panel (SF6 / VCB) (Gas Insulated)	ABB, Siemens, Schneider, Kirloskar, Crompton, L&T.	
4	11kV HT Panel (LBS / VCB) (Air Insulated)	ABB, Siemens, Schneider, Kirloskar, Crompton, L&T, Intrans, Megawin, Resitech, System control	The make Intrans and Resitech are manufactured in Kerala. The make Megawin & System control are manufactured in Tamilnadu.
5	HT Underground Cable	Universal, Gloster, RPG, Havells, KEI, Finolex, Polycab	
6	HT Cable End Termination / Joint	Raychem, M-seal, 3M	
7	Distribution Transformer (Oil Cooled)	Crompton, Kirloskar, Voltamp, Universal, Emco, Intrans, KEL, Resitech, Unipower	The make Intrans, KEL, Resitech, Unipower are manufactured in Kerala.
8	Distribution Transformer (Resin cast Insulation)	Crompton, Kirloskar, Voltamp, Universal, Megawin, Intrans, KEL, Resitech, Unipower	The make Intrans, KEL, Resitech, Unipower are manufactured in Kerala. The make Megawin is manufactured in Tamilnadu.
9	Unitised Substation (Resin cast Insulation)	Crompton, Kirloskar, Voltamp, Universal, Resitech, Unipower, Megawin, Intrans	The make Intrans, Resitech, Unipower are manufactured in Kerala. The make Megawin is manufactured in Tamilnadu.
10	Busduct / Rising Main (Aluminium / Copper)	Legrand, Siemens, ABB, GE, L&T, Schneider, C&S	The make C&S is manufactured in India.
11	Diesel Generator (Engine)	Cummins, Catterpillar, Perkins, Volvo Penta, Mitsubishi, Kirloskar	
12	Diesel Generator (Alternator)	Stamford, Lerroy Somer, Kirloskar, BHEL, Crompton, KEL, Jyoti	The make KEL is manufactured in Kerala.
13	LT Cables (XLPE / PVC Insulation)	Universal, Gloster, RPG, Havells, KEI, Finolex, Polycab, V-guard, Traco, RR Kabel	The make Traco is manufactured in Kerala.
14	Air Circuit Breaker / Moulded Case Circuit Breaker	Legrand, Siemens, L&T, GE, ABB, Schneider, Havells, C&S, HPL	

AS PER THE TECHNICAL COMMITTEE FOR THE FINALISATION /  
UPGRADATION OF MAKE & LIST OF MATERIALS.

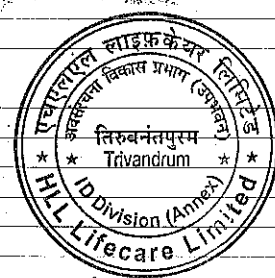


SL NO	ITEMS	MAKES	REMARKS
15	SFUs / SDUs / Contactors / Change Over Switch	Legrand, Siemens, L&T, GE, ABB, Schneider, Havells, C&S, HPL, Socomec, Standard, Indoasian	
16	Indication lamp, Selector switch, Push Button	L&T, Schneider, Siemens, ABB, Salzer, Kaycee, Vaishno, Rishabh	
17	Meters and Relays	Schneider, L&T, Siemens, ABB, Beluk, GE, AE, Secure, Socomec, HPL, C&S, Rishabh, Prok dv, MECO, Minilec	
18	Current / Potential Transformer	Kappa, Pragathi, AE, Rishabh, Kalpa, Intrans, PGR Powertech, Resitech	The make Intrans, PGR Powertech, Resitech are manufactured in Kerala.
19	Capacitors	Sprague, L&T, Siemens, Schneider, Shreem, Universal, Epcos	
20	Un-interruptible Power Supply (UPS)	Emerson, Numeric, APC, Socomec, Liebert, Riello, Hykon, Supra, Powerone, Consul, Su-kam, Dubas	
21	Battery (Lead Acid / SMF)	Exide, Panasonic, Tata Green, Amaron, Amar Raja, Standard	
22	Cable Glands & Lugs	Comet, Dowells, Hex, Multi-pressing, Jainson	
23	MCB Distribution Board	Legrand, Crabtree, Siemens, Schneider, ABB, Hager, L&T, Havells, Indoasian (Gold plus), HPL, C&S, Standard, MK	
24	MCB, RCCB, Isolators	Legrand, Crabtree, Siemens, Schneider, ABB, Hager, L&T, Havells, Indoasian (Gold plus), HPL, C&S, Standard, MK	
25	PVC Wires (Copper)	Finolex, Anchor, RR Kable, Lapp Kable, Gloster, Havells, Polycab, KEI, V-guard, Traco, Bonton	The make Traco is manufactured in Kerala. Bonton wires for projects with electrical value less than 1 Cr.
26	PVC Conduits and Accessories	Precision, Avon plast, Tube Corporation, AKG, Balco, Konseal	The make Balco, Konseal are manufactured in Kerala.
27	Modular Switch & Socket (*Model no. to be specified for Tender)	Legrand, Anchor, Crabtree, MK, Siemens, Schneider, C&S, HPL, Indoasian, Kolors, Wipro, L&T, Havells, Philips	
28	Industrial Plugs & socket	Legrand, Anchor, Crabtree, MK, Siemens, Schneider, C&S, HPL, Indoasian, Havells	
29	Cable Management	Legrand, MK, OBO Betterman	
30	Light Fixtures	Philips, Wipro, GE, Bajaj, Crompton, Havells, HPL, Keltron	The make Keltron is assembled in Kerala.



AS PER THE TECHNICAL COMMITTEE FOR THE FINALISATION/UPGRADATION OF MAKE LIST OF MATERIALS.

SL NO	ITEMS	MAKES	REMARKS
31	Ceiling / Exhaust / Wall Fan	Crompton, Usha, Kaithan, Almonard, Orient, Bajaj, V-guard, Havells, Vasora	Vasora Ceiling fan (Model (a) Regal, (b) Supreme (5star)), Exhaust fan (metal body, 1400rpm, 1phase, medium duty) can be used in projects at kerala
32	Street Light Pole (Octogonal)	Philips, Bajaj, Crompton, Wipro, K-Lite	
33	Batten Holder	Havells, Goldmedal, Anchor, GM, HPL, Indoasian, C&S	
34	Solar System	Tata BP, Lanco, Approved vendor of MNRE	
35	Cable Tray & Accessories	Profab, Patny, Ercon, Sumip, OBO Betterman, Sintex	
36	Outdoor Boxes	Hensel, Sintex, Rittal	



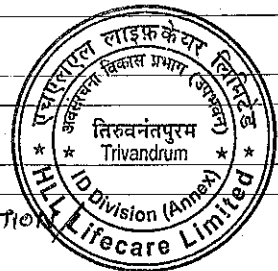
AS PER THE TECHNICAL COMMITTEE FOR THE FINALISATION / UPGRADATION OF  
MAKE LIST OF MATERIALS.

**HLL LIFECARE LIMITED**  
**INFRASTRUCTURE DEVELOPMENT DIVISION (S&W)**

**FINALISED CONSOLIDATED LIST OF APPROVED MAKES (ELV) EXISTING AS ON 15.04.2016**

SL NO	ITEMS	MAKES	REMARKS
<b>A. Voice, Data &amp; TV System</b>			
1	Cat 6, UTP wire	Legrand, Schneider, Dax, Amp, Finolex, Lapp Kabel, Havells, D-link, RR Kabel, KEI, Beikin, Molex	
2	Telephone wire	Finolex, RR Kable, Lapp Kabel, Gloster, Havells, KEI, V-guard, Polycab, Anchor, Bonton	Bonton wires for projects with electrical value less than 1 Cr.
3	Telephone Terminal Block	Krone, Connectwell	
4	Patch Panel	Legrand, Schneider, Dax, Amp, D-link, Belkin, Molex, Netgear	
5	Network Rack	Rittal, Netrack, APW President, Valrack, Legrand, Schneider, D-link	
6	Network Switch	Cisco, Belkin, Amp, Nortel, Dax, D-link, Netgear, Molex	
7	EPBAX system	Alcatel, Nortel, Cisco, Avaya, Panasonic, BPL, NEC, Matrix, Accord	
<b>B. CCTV System</b>			
1	Camera (Doom / PTZ) & controller	Honeywell, Bosch, Tyco, Pelco, Sony, Samsung, LG, Hiki vision, CP Plus	
2	Digital video Recorder	Honeywell, Bosch, Tyco, Pelco, Sony, Samsung, LG	
3	Hard disk	Toshiba, Samsung, Seagate, Sony, LG, Netgear, Belkin	
4	LED Monitor	Samsung, Sony, Panasonic, Tosiba, Philips, LG	
5	Co-axial cable	Finolex, RR Kable, Lapp Kabel, Gloster, Havells, KEI, V-guard, Polycab, Anchor, Bonton	Bonton wires for projects with electrical value less than 1 Cr.
<b>C. Public Address System</b>			
1	Speaker	Bosch, JBL, Tannoy, Apart, Ahuja, Toa	
2	Amplifier	Bosch, Lab gruppen, Crown, Apart, Ahuja, Toa	

AS PER THE TECHNICAL COMMITTEE FOR THE FINALISATION OF UPGRADATION OF MAKE LIST OF MATERIALS.



SL NO	ITEMS	MAKES	REMARKS
3	Goose neck microphone	Bosch, Bi amp, Symmetrix, Apart, Ahuja, Toa	
4	Digital processing unit, Zone selector	Bosch, Bi amp, Symmetrix, Apart	
5	Shielded twisted pair wire	Finolex, RR Kable, Lapp Kable, Gloster, Havells, KEI, V-guard, Polycab, Anchor	

AS PER THE TECHNICAL COMMITTEE FOR THE FINALIZATION / UPGRADEATION OF MAKE LIST OF MATERIALS.

