SECTION-G

LIST OF APPROVED MAKE

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
		HIGH END/LUXURY	ASPIRATION	CASA
1.	**HT EQUIPMENTS**			
i	HT 11kV SF6 CB Panel	Schneider Siemens ABB	Schneider Siemens ABB C&S	Schneider Siemens ABB C&S
ii	HT 11kV Ring Main Units	Schneider Siemens ABB	Schneider Siemens ABB C&S (Except Torrent Power Area)	Schneider Siemens ABB C&S (Except Torrent Power Area)
iii	Dry/Oil Type Transformers	AS PER MSEDCL Voltamp ABB	AS PER MSEDCL Voltamp ABB	AS PER MSEDCL Voltamp ABB
v	HT SF6 CB	Schneider Siemens ABB	Schneider Siemens ABB C&S (Except Torrent Power Area)	Schneider Siemens ABB C&S (Except Torrent Power Area)
vi	HT Isolators	Schneider Siemens ABB	Schneider Siemens ABB C&S (Except Torrent Power Area)	Schneider Siemens ABB C&S (Except Torrent Power Area)
vii	HT Protection Relay-Numeric Type	Siemens ABB Schneider AREVA L&T Woodward	Siemens ABB Schneider AREVA L&T Woodward	Siemens ABB Schneider AREVA L&T Woodward Ashida

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2.	**ELECTRICAL CABLES & WIRES**			
i.	PVC, FR/FRLS/ LSZH/, insulated, multi-stranded, flexible copper wire, up to 1.1 kV grade	AVOCAB Polycab KEI Finolex Bonton Batra Henley	AVOCAB Polycab KEI Finolex Bonton Batra Henley	AVOCAB Polycab KEI Finolex Bonton Batra Henley
ii.	Heavy duty PVC, XLPE/ FR LV Cables up to & including 1.1kV grade	AVOCAB Polycab KEI Finolex Batra Henley	AVOCAB Polycab KEI Finolex Batra Henley	AVOCAB Polycab KEI Finolex Batra Henley
iii.	Heavy duty PVC, XLPE insulated MV Cables for 11/22kV grade	As per MSEDCL approved	As per MSEDCL Approved	As per MSEDCL Approved
iv.	Mica glass/LSZH fire resistant cross linked compound insulated Fire survival cable (PH120) for up to 1.1kV grade	AVOCAB INDIA IMPEX Polycab Bonton Batra Henley	AVOCAB INDIA IMPEX Polycab Bonton Batra Henley	AVOCAB INDIA IMPEX Polycab Bonton Batra Henley
v	Fire Spray On Cable – Endothermic	KBS Passive Fire HILTI SGS 3M	KBS Passive Fire HILTI SGS 3M	KBS Passive Fire HILTI SGS 3M
3.	**Gland & Termination**			
i.	HT Termination Kits/ Straight through joints	Raychem (Tyco Electronics) 3M India REPL	Raychem (Tyco Electronics) 3M India REPL	Raychem (Tyco Electronics) 3M India REPL

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ii.	LV Jointing Kit/Termination	RAYCHEM(Tyco Electronics) 3M India REPL	RAYCHEM(Tyco Electronics) 3M India REPL	RAYCHEM(Tyco Electronics) 3M India REPL
iii.	Cable Glands & Bi-Metallic Crimping Type Lug	Comet Dowel Braco HMI Commex Gripwell	Comet Dowel Braco HMI Commex Gripwell	Comet Dowel Braco HMI Commex Gripwell
iv.	CRIMPING LUGS/ THIMBLES	Comet Dowell Billet	Comet Dowell Billet	Comet Dowell Billet
4.	**CONTAINMENT WITH SUPPORT**			
i.	Cable Trays / Trunking	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries
ii.	G.I. Pipes	Jindal (Hisar) Tata	Jindal (Hisar) Tata	Jindal (Hisar) Tata
iii.	G.I. Conduit pipe & accessories (ISI marked)	B.E.C. NIC AKG BE.	B.E.C. NIC AKG BE.	B.E.C. NIC AKG BE.

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v.	PVC Conduit pipe (ISI marked)	Precision Plastic Astral Polycab Anchor/Panasonic	Precision Plastic Astral Polycab Anchor/Panasonic	Precision Plastic Astral Polycab Anchor/Panasonic
v.	PVC Conduit accessories (Including Fan Box)	Precision Plastic Astral Polycab Anchor/Panasonic	Precision Plastic Astral Polycab Anchor/Panasonic	Precision Plastic Astral Polycab Anchor/Panasonic
vi.	M.S. Steel (Angle. Channel, Strip, sheet)	Tata Sail	Tata Sail	Tata Sail
vii.	Anchor Fasteners	Hilti Fischer	Hilti Fischer	Hilti Fischer
viii.	Cable supports (for Lift Shafts)	ELECTROMAC INDUSTRIES Remora Electrical Ltd. Diamond Pipe Supports Pvt Ltd.	ELECTROMAC INDUSTRIES Remora Electrical Ltd. Diamond Pipe Support Pvt. Ltd.	ELECTROMAC INDUSTRIES Remora Electrical Ltd. Diamond Pipe Supports Pvt Ltd.
5.	**PANELS & ACCESSORIES**			
i.	Measuring Instruments	Schneider Electric AREVA ABB L&T Newtek Electricals	Schneider Electric AREVA ABB L&T Newtek Electricals	Schneider Electric AREVA ABB L&T Newtek Electricals
ii.	Panel Accessories	Siemens Teknic Rishab BCH	Siemens Teknic Rishab BCH	Siemens Teknic Rishab BCH

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iii.	Protective relays	Siemens ABB AREVA L&T GE	Siemens ABB AREVA L&T GE	Siemens ABB AREVA L&T GE
iv.	Control Fuses with base	Siemens GE ABB	Siemens GE ABB	Siemens GE ABB
v.	CTs/ PTs	AEI Kappa Pragati Gilbert & Maxwell	AEI Kappa Pragati Gilbert & Maxwell	AEI Kappa Pragati Gilbert & Maxwell
vi.	Selector switch	Siemens Salzer L&T	Siemens Salzer L&T	Siemens Salzer L&T
vii.	Push Buttons (different colours)	Tecnik Siemens L&T	Tecnik Siemens L&T	Tecnik Siemens L&T
viii.	Indicating Lamps – LED type	Tecnik Siemens	Tecnik Siemens	Tecnik Siemens
ix.	Terminal strip	Obo Bettermann Wago Connectwell Phoneix Elmex	Obo Bettermann Wago Connectwell Phoneix Elmex	Obo Bettermann Wago Connectwell Phoneix Elmex

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x.	Contactors & Timers	Siemens Schneider Telemechanic ABB L&T GE	Siemens Schneider Telemechanic ABB L&T GE	Siemens Schneider Telemechanic ABB L&T GE
xi.	Programmable timer	Siemens Schneider ABB L&T	Siemens Schneider ABB L&T	Siemens Schneider ABB L&T
xii.	Auxiliary relays	Siemens AREVA ABB Schneider GE L&T	Siemens AREVA ABB Schneider GE L&T	Siemens AREVA ABB Schneider GE L&T Ashida
xiii.	ELCB, MCB, RCCB & Distribution Boards (L+P)	Legrand Siemens L&T ABB Schneider	Legrand Siemens L&T ABB Schneider	Legrand Siemens L&T ABB Schneider Legrand Anchor /Panasonic
xiv.	MCCB (electronic/Thermal magnetic protection)	Schneider- NSX L&T- D-SINE ABB - Isomax Siemens-(SENTRON 3VL)	Schneider- NSX L&T- D-SINE ABB - Isomax Siemens-(SENTRON 3VL)	Schneider- NSX L&T- D-SINE ABB - Isomax Siemens-(SENTRON 3VL)

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xv.	ACBs (electronic protection)	Schneider- NW L&T- C power ABB - Emax Siemens -3WT	Schneider- NW L&T- C power ABB - Emax Siemens -3WT	Schneider- NW L&T- C power ABB - Emax Siemens -3WT
xvi.	APFC Capacitors with Harmonic Filters	P2 Power Power Matrix solutions Shreem L&T	P2 Power Power Matrix solutions Shreem L&T	P2 Power Power Matrix solutions Shreem L&T
xvii.	Surge Arrestors(All Types)	Emerson FURSE DEHN ABB OBO BETTERMANN	Emerson FURSE DEHN ABB OBO BETTERMANN	Emerson FURSE DEHN ABB OBO BETTERMANN
xix.	Automatic Transfer Switches Electromechanical Interlocks.	ASCO SOCOMEC	ASCO SOCOMEC	ASCO SOCOMEC
xx.	Switch Fuse Units	Siemens L&T ABB	Siemens L&T ABB	Siemens L&T ABB

xx.	Cubicle LV Panels Main Distribution Boards (MDB), Sub-Main Distribution Boards (SMDB)	Arrow Engineers (Schneider) Zenith (Schneider) Scoot Engineering (Schneider / ABB) Marine Electrical Technocraft (ABB) Vivid (R2K) (ABB) Accusonic Control (Rittal) (Schneider)	Arrow Engineers (Schneider) Zenith (Schneider) Scoot Engineering (Schneider / ABB) Accusonic Control (Rittal) (Schneider) Technocraft (ABB) Vivid (R2K) (ABB)	Arrow Engineers (Schneider Zenith (Schneider) Scoot Engineering (Schneider / ABB) Accusonic Control (Rittal) (Schneider) Technocraft (ABB) Vivid (R2K) (ABB) SGM Engineers (Schneider)

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
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6.	**BUS RISERS/BUS DUCTS & ACCESSORIES**			
i.	Busduct / Bus riser & Accessories (Bends, Tees, Elbows, Flexible joints etc).	Siemens Schneider EAE L&T Legrand C&S	Siemens Schneider EAE L&T Legrand C&S	Siemens Schneider EAE L&T Legrand C&S
7.	**LIGHTINGS & CONTROLES**			
i.	Luminaries	Philips Lighting Thorn Lighting Wipro Schreder Zumtobel Erco	Philips Lighting Thorn Lighting Wipro Schreder Zumtobel Erco	Philips Lighting Thorn Lighting Wipro Schreder Zumtobel Erco
ii.	Lighting Controls	Lutron Siemens Legrand Helvar Beckhoff ABB Philips	Lutron Siemens Legrand Helvar Beckhoff ABB Philips	Lutron Siemens Legrand Helvar Beckhoff ABB Philips

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
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iv.	Lamps / Tubes	Philips Wipro Osram Crompton GE	Philips Wipro Osram Crompton GE	Philips Wipro Osram Crompton GE
v.	Luminaire Ballasts Electronic Non-Dimmable (EEI = A2)	Tridonic Philips OSRAM Lutron Wipro Vossloh Atco	Tridonic Philips OSRAM Lutron Wipro Vossloh Atco	Tridonic Philips OSRAM Lutron Wipro Vossloh Atco
	Luminaire Ballasts Electronic Digital Dimmable (EEI = A1)	Tridonic Philips OSRAM Lutron Wipro	Tridonic Philips OSRAM Lutron Wipro	Tridonic Philips OSRAM Lutron Wipro
	Luminaire Ballasts Analogue Dimmable (EEI = A1)	Tridonic Philips OSRAM Lutron Wipro	Tridonic Philips OSRAM Lutron Wipro	Tridonic Philips OSRAM Lutron Wipro

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vi.	Aviation Lighting- LED	AVAIDS Bajaj	AVAIDS Bajaj	AVAIDS Baja
vii.	Lighting Poles (Hex, Angular, Ms Tubular, Decorative)	Bajaj Electricals Keselec K-Lite Bombay Tubes & Poles	Bajaj Electricals Keselec K-Lite Bombay Tubes & Poles	Bajaj Electricals Keselec K-Lite Bombay Tubes & Poles
8.	**INVERTER & UPS SYSTEM**			
i.	Battery Charger	Hitachi Amara Raja Mastech	Hitachi Amara Raja Mastech	Hitachi Amara Raja Mastech
ii.	Battery (Lead acid Maintenance Free)	Hitachi Amara Raja HBL Nife Exide BOSCH Yuasa	Hitachi Amara Raja HBL Nife Exide BOSCH Yuasa	Hitachi Amara Raja HBL Nife Exide BOSCH Yuasa
iii.	UPS System	Emerson APC Consul Neowatt Vivtar Electronics	Emerson APC Consul Neowatt Vivtar Electronics	Emerson APC Consul Neowatt Vivtar Electronics
iv.	Inverters	Megatech Microtek Luminous Vivtar Electronics	Megatech Microtek Luminous Vivtar Electronics	Megatech Microtek Luminous Vivtar Electronics

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
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9.	**SWITCHES & SOCKETS**			
i.	Switch, socket with switch (BOH)	Anchor Panasonic (Vision)	Anchor Panasonic (Vision)	Havells Crabtree (Verona) Anchor (Roma Plus)
ii.	Weather Proof/Industrial Socket outlets (poly carbonate body IP67/IP65)	MK Hensel Clipsal Scame Legrand	MK Hensel Clipsal Scame Legrand	MK Hensel Clipsal Scame Legrand
10.	**ELV WIRES & ACCESSORIES**			
i.	TV co-axial cable	Finolex Havells Delton Nicco Polycab	Finolex Havells Delton Nicco Polycab	Finolex Havells Delton Nicco Polycab
ii.	Telephone cables	Finolex Havells Delton Nicco Polycab	Finolex Havells Delton Nicco Polycab	Finolex Havells Delton Nicco Polycab
iii.	Telephone Tag Blocks	Krone ITL Delton	Krone ITL Delton	Krone ITL Delton

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
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iv	Communication/DATA cable CAT-V/CAT-VI(UTP)	Delton D-Link Amp(TE) DigiLink Finolex	Delton D-Link Amp(TE) DigiLink Finolex	Delton D-Link Amp(TE) DigiLink Finolex
11.	**Lightning Protection Equipment**	Furse ERICO DHEN A N Wallis & Co., Ltd. Kingsmill Industries Indelec	Furse ERICO DHEN A N Wallis & Co., Ltd. Kingsmill Industries Indelec	Furse ERICO DHEN A N Wallis & Co., Ltd. Kingsmill Industries Indelec

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12.	**OTHERS**			
i.	Variable Frequency Drive	Siemens ABB Allen Bradley Danfoss Schneider Electric GE	Siemens ABB Allen Bradley Danfoss Schneider Electric GE	Siemens ABB Allen Bradley Danfoss Schneider Electric GE
iii.	Fire Stop Material	Birla 3 M Hilti Tremco Specified Technology Metacaulk Nullifire	Birla 3 M Hilti Tremco Specified Technology Metacaulk Nullifire	Birla 3 M Hilti Tremco Specified Technology Metacaulk Nullifire
iv.	Cu./GI Strip and earthing material	Ashlok Furse Erico Indiana Bharti JMV LPS limited SAARA earthing	Ashlok Furse Erico Indiana Bharti JMV LPS limited SAARA earthing	Ashlok Furse Erico Indiana Bharti JMV LPS limited SAARA earthing
v	GI Strip & clamps (only)	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries	Profab Indiana Elcon RK engineering Pentax Ferro Inc. Shruti Industries
vi	Vibration isolator Vendor	Kinetics Mason Vimco Easy flex Dynemech GERB Getzner	Kinetics Mason Vimco Easy flex Dynemech GERB Getzner	Kinetics Mason Vimco Easy flex Dynemech GERB Getzner

Sl. No.	Description of Materials / Equipment	Approved Manufacturer's/ Makes		
		HIGH END/LUXURY	ASPIRATION	CASA
13.	**DG set**			
	750kVA and above			
i	DG vendor	Power Engineering Sterling Wilson Gmmco Powerica Kolher, Supernova	Power Engineering Sterling Wilson Gmmco Powerica Kolher, Supernova	Power Engineering Sterling Wilson Gmmco Powerica Kolher, Supernova
ii	Generators Engine:	Kolher, Perkins, MTU, Cummins,	Kolher, Perkins, MTU, Cummins,	Kolher, Perkins, MTU, Cummins,
iii	Alternator	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford
	250kVA–630kVA			
i	DG vendor	Power Engineering Sterling Wilson Gmmco Powerica Supernova	Power Engineering Sterling Wilson Gmmco Powerica Supernova	Power Engineering Sterling Wilson Gmmco Powerica Supernova
ii	Generators Engine:	Perkins, Cummins, Volvo-Penta Cooper Mahindra M-Power	Perkins, Cummins, Volvo-Penta Cooper Mahindra M-Power	Perkins, Cummins, Volvo-Penta Cooper Mahindra M-Power
Sl. No.	**Description of**	**Approved Manufacturer's/ Makes**		

	Materials / Equipment	HIGH END/LUXURY	ASPIRATION	CASA
iii	Alternator	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford
	Up to 250kVA			
i	DG vendor	Power Engineering Sterling Wilson Gmmco Powerica Supernova Goel Power (tenant / MHADA / rehab / EWS building)	Power Engineering Sterling Wilson Gmmco Powerica Supernova Goel Power (tenant / MHADA / rehab / EWS building)	Power Engineering Sterling Wilson Gmmco Powerica Supernova Goel Power (tenant / MHADA / rehab / EWS building)
ii	Generators Engine:	Eicher Volvo, Perkins, Cummins, Mahindra, FG Wilson, Cooper Escort Kirloskar (tenant / MHADA / rehab / EWS building)	Eicher Volvo, Perkins, Cummins, Mahindra, FG Wilson, Cooper Escort Kirloskar (tenant / MHADA / rehab /EWS building)	Eicher Volvo, Perkins, Cummins, Mahindra, FG Wilson, Cooper Escort Kirloskar (tenant / MHADA / rehab / EWS building)
iii	Alternator	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford	Leroy Somer, Crompton greaves Stamford
Iv	AMF Controller	Deep sea DEIF Woodward	Deep sea DEIF Woodward	Deep sea DEIF Woodward
Sl. No.	**Description of**	**Approved Manufacturer's/ Makes**		

	Materials / Equipment	HIGH END/LUXURY	ASPIRATION	CASA
v	Tube Axial Fans	Greenheck Kruger Flaktwoods Nuaire Dynair Carryaire	Greenheck Kruger Flaktwoods Nuaire Dynair Carryaire	Greenheck Kruger Flaktwoods Nuaire Dynair Carryaire
vi	Flexible duct connector	Mupro Kanwal Industries Corporation Resistoflex Easy flex	Mupro Kanwal Industries Corporation Resistoflex Easy flex	Mupro Kanwal Industries Corporation Resistoflex Easy flex
vii	Double Wall Corrugated- DWC duct/pipe	Rex Alcorr	Rex Alcorr	Rex Alcorr
viii.	Sound Attenuator	Caryaire George Rao Ravistar UNIFLAIR	Caryaire George Rao Ravistar UNIFLAIR	Caryaire George Rao Ravistar UNIFLAIR
viii.	Louvers – Normal and Acoustic	Air Master Caryaire Cosmos George Rao & Co. Dynacraft Ravistar	Air Master Caryaire Cosmos George Rao & Co. Dynacraft Ravistar	Air Master Caryaire Cosmos George Rao & Co. Dynacraft Ravistar

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ix	Insulation Fibreglass (Foil Faced)	Owens Corning UP Twiga	Owens Corning UP Twiga	Owens Corning UP Twiga
x	Insulation Expanded Polystyrene (TF Quality)	Beardsell Coolite DEBS Products Styrene Packaging Toshiba	Beardsell Coolite DEBS Products Styrene Packaging Toshiba	Beardsell Coolite DEBS Products Styrene Packaging Toshiba
xi	M.S. Pipe upto 200 MM Dia	Jindal Tata Steel Zenith	Jindal Tata Steel Zenith	Jindal Tata Steel Zenith
xii	MS PIPES above 200 mm dia factory rolled	Jindal Tata steel Mukund Steel SAIL	Jindal Tata steel Mukund Steel SAIL	Jindal Tata steel Mukund Steel SAIL
i.	Battery Charger for DG Sets	Hitachi Amara Raja Mastech Shidore NHP	Hitachi Amara Raja Mastech Shidore NHP	Hitachi Amara Raja Mastech Shidore NHP