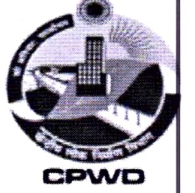




भारत सरकार/GOVERNMENT OF INDIA
मुख्य अभियंता, चेन्नै का कार्यालय
OFFICE OF THE CHIEF ENGINEER (CHENNAI)
केंद्रीय लोक निर्माण विभाग /CENTRAL PUBLIC WORKS DEPARTMENT
जी स्कंद, 3री मन्जिल, राजाजी भवन/G WING, III FLOOR, RAJAJI BHAVAN,
बेसन्ट नगर चेन्नै -90/BESANT NAGAR, CHENNAI-90.

☎ 044-24464965 फ़ैक्स /Fax ; 044-24919871

E-Mail - cpwdsz1@nic.in



No:32/04/2019/CE Chennai/ 3868-75(H)

Dated: 02.12.2020

To

- 1) The Executive Engineer,
CID, C2D, C3D, C4D, CED, CPWD, Chennai
- 2) The Executive Engineer, ACD, ACED, CPWD, Port Blair.
- 3) The Executive Engineer (P), O/o. CE, CPWD, Rajaji Bhawan, Chennai.

Sir,

Sub: List of updated approved makes of materials for use in construction & maintenance works of CE, Chennai- reg

Ref: This office letter of even No. 3648-53 (H) dated 16.11.2020

In continuation of above, the updated list of approved makes / materials is attached for use in the construction and maintenance works of Chennai Zone, CPWD as required in NITs issued with effect from the date of issue. The approved material list is suggestive and based on presentations made by interested manufacturers before CPWD Engineers and Architects at Chennai. However NIT approving authorities other than the Chief Engineer are advised to inform the changes adopted by them in the attached list to the undersigned along with reason for the changes so that the list is updated at Zonal level as well.

This issues with the approval CE, Chennai, CPWD, Chennai and has applicability over his jurisdiction only.

- Encl: 1. Annexure -I (Civil)
2. Annexure-II (E&M)

Yours faithfully,

(E.KARUNAKAR RAO)
Assistant Engineer(Admn)
O/o Chief Engineer, Chennai
CPWD, Chennai-90.

LIST OF APPROVED ELECTRICAL MATERIALS (E&M) (Includes the list approved by SDG(PRC) and ADG(RC), if any , as on 02.12.2020)		
NOTE: Not withstanding to the approval given in the list, the field staff are requested to observe the following conditions		
1	Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment in case the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the substituting brand is costlier in market than those mentioned herein.	
2	In addition, the brands approved as hereunder , should have valid and active BIS certificate as on the date of supply for the work.	
3	Material shall conform to Make in India policy of Government of India as on the date of supply for the work.	
4	Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.	
5	In Case of non-availability of BIS codes for any of the materials incorporated above, the Engineer-in -Charge shall send the materials for testing as per the relevant ASTM or EN codes and satisfy himself before using the same in work.	
Internal Electrical Installations		
S. NO	Name of the Product	Manufactured by
1	PVC insulated copper conductor FRLS copper ISI Marked	Anchor/Finolex/Havells/RR Kabel/ Asmon /Mescab /L&T /KEI / Power flex /Superlite/ Polycab/ Q-flx/ Goldmedal/ Orbit/ Laser Cables.
2	MCB / DB's	Legrand/Siemens/Schneider/ABB/GE./ Hager/ Eaton/ L&T/Panasonic by Anchor/ Asmon/ Havells/ BCH/ C&S/ Indo Asian/ Gold Medal/ Great White.
3	DB/ELCB/ RCCB & Accessories	Legrand Ekinox3/Schneider ACT19/Siemens Betagard/Myrius/Crabtree/Panasonic/Havells/Eaton / ABB/ GE/ Hager/ L&T/ Asmon/ Panasonic by Anchor/ Asmon
4	UTP Cable	Legrand/Molex/Finolex/Commscope/ Panduit-Pannet. / Havells/Batra/Henlay
5	OFC Cable	Finolex/Sterlite Tech /Commscope/ Corning/ Panduit/ Siemen
6	XLPE UG Aluminium/Copper LT Cable	CCI/Gloster/Havell/Universal/Finolex /Torrent/ KEI/ RPG Cables/ RR Kabel/ Henlay/ Polycab/ Gold Medal/ Orbit/ Laser Cables/ Great White/ Q-Flx/ Waina/ LappaKable/ Anchor Panasonic/ Batra.
7	Cable glands	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay.



8	Cable Lugs	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay/ multi / capital / Schneider Electric
9	DWC Pipe	Gemini / Rex /Duraline
10	PVC Conduit (ISI Marked) (Colour- Ivory /Grey)	Avonplast/AKG/Precision/Modi/Anchor/Vasavi / Emjay/Javeri)/ D.E.C Infrastructure & Project/ Polycab/ Finolex/ BEC/ Konseal/ Asian/ Nihar/ Anchor penosonic
11	GI Pipe	Jindal / TATA/Zenith Birla/ SAIL.
12	Telephone / Cat 6 Cable	Legrand / Delton / AMP / Havells/Superlite/ Q-Flx/Orbit/ Laser Cables/ Great White.
13	Modular Switches & Sockets, Fan Regulator,RJ-45 Data Socket for CMS applications.	Legrand-Myrius/ Crabtree-Athena/MK- LogicPlus /HoneywellBenzPlus/ Anchor(RomaPlus) /Schneider (Livia)/Savic/ Havells(ORO)/ Lisha/ Polycab/ Indo Asian/ C&S/ Gold Medal/ Great White/ Zencilo & Panasonic.
14	Modular type Switches/GI Boxes/Sockets T.V/Telephone/LAN socket Outlet etc for Normal application	Legrand-Myrius-Arteror/Schneider-Opale-Livia /MK- Elements/ Crabtree/ Panasonic/ Havells(ORO) / MK- Logic Plus/ Honeywell(Benz Plus)/Anchor/(Roma Plus)/ Savic/ Crab tree-Athena / Lisha/ Polycab/ Indo Asian/ C&S/ Gold Medal/ Great White/ Zencilo & Panasonic.
15	AC Ceiling Fans (Star rated/1200mm/1400mm)	Crompton/Orient/Havells/Bajaj/Surya/Almonard/ Anchor Panasonic/ Polycab.
16	BLDC Fans (Ceiling Fans /Wall Fans / Pedestal Fans / Exhaust Fans)	ATOMBERG-Efficio.
17	Exhaust Fan	Crompton/Orient/Havells/Almonard/Bajaj /Anchor Panasonic/ Polycab.
18	All LED Fittings (Indoor / Outdoor Light Fittings)	Crompton/Bajaj/Halonix/Philips/Surya/Jaquar/Wipro/ Havells/Corvi/Syska/ Panasonic / Eveready / LightingTechnologies/ Litaski/Polycab / Elenserve / Banbury/ K-Lite/ Gold Medal/ Venture Lightings/ Great White/ Luker/ Bega / Disano.
19	Electrical LT Panel Boards/ Feeder Pillars/ Meter Boards/ Control & Relay Panels.	Tricolite Electric Industries (Pvt.)Ltd./Advance Panel and Switchgears Pvt.Ltd/Adlec Mundka/ Neptune/ Power Control Equipments/Load Controls/Amararaja/Leela Electric and Manufacturer having in-house 7 tank process, powder coating facility, CNC Machine having CPRI approved for relevant bus bar rating.(The decision of the Engineer – in- charge will be final and binding.)
20	Changeover Switches , SDFU	L&T / ABB / Schneider/C&S/ Legrand / Havells/ Indo Asian/GE/ Socomee/ Siemens/ Hager/ Anchor.
21	Moulded Case Circuit Breaker/Motor protection circuit breaker Electric	Siemens/ ABB / L & T/C & S /Schneider/ Legrand / GE / Hager/ Havells/ BCH/ Indo Asian / Eaton.
22	Phenolic laminated sheet	3 mm thick with ISI mark

23	Ammeter / Voltmeter / Combined Meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee /Crompton Greaves / Scomec(Diris) .
24	Analogue Panel meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee.
25	TV Coaxial Cable	Havell's / Finolex/Anchor/DELTON/RR KABEL/ Superlite
26	Cable trays (Hot Dip Galvanised.)	RMCON / Profab / Indiana / MBM/ Legrand/ BEC.
27	Fire Extinguisher (with ISI mark)	CeaseFire/Safex/Minimax/Agni/Usha Fire Safety/ Padmini
28	MS Conduits (ISI Marked)	AKG/BEC/Gupta/RMCON/Javeri/ Jindal/ TATA/ Zenith Birla /NIC / Steel Kraft
29	Connector/Terminal block	Wago/Elemac/Phoenix/ Essen /Connectwel.
30	CAT5/6 Cables & Wires.	Amp/Legrand/Molex/Digilink/Belkin/Belden/KEI/ Krone / Systemax.
31	PVC Batten / Angle Holder	Anchor / Salzer / Havells/ Emporer/ K555.
32	Rising main, End Feed Unit, Tap Off Box	C&S/Legrand/Schneider/Siemens/L&T/ ABB- Megaduct(If Air Insulated)/Godrej (S.M.A.R.T.) Zucchini.
33	Wall Bracket – fancy and decorative wall bracket	Havells/Wipro/Philips/ Crompton.
34	ACB 415 V, 400 A-2000 A	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Anchor/ Hager / GE / Crompton/ Indo Asian / Eaton.
35	DLP Trunking	Legrand/OBO Betterman/Schneider/MK
36	Floor Trunking/Raceway (GI)	Honeywell MK/OBO Betterman/ Legrand/ Profab
37	Selector Switch	BCH/Rishabh/Conserv/Kaycee/AE/ Crompton Greaves
38	Multifunction Meter/Load Managers	Schneider / Siemens/ Legrand/ Secure/ Socomec(Diris)
39	Capacitor and Harmonic Block Reactor Thyristor Module	L&T/Schneider/Neptune (Ducati)/Legrand.
40	APFC Relay (Microprocessor based)	Schneider/L&T/Neptune/Siemens/Legrand.
41	Automatic transfer switch (4P,100A, Std. Automatic)	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Anchor/ Hager.
42	Architectural Lighting Poles & Decorative Brackets (Street Light Poles)	K-Lite.
43	Water Supply Pumpsets	KarVel / Lubi/ Deccan.
44	Liquid & Gas Flow level Meters	Magnum / Presevi.
Note: Modular Switch/Bell Push /Socket/Fan regulator shall be of same make For items where preferred makes are not specified the decision of the Engineer-in- charge will be final and binding.		



Providing Fire Alarm System		
All the components of the entire FA system shall be preferably from a single manufacturer only.		
S. NO	Name of the Product	Manufactured by
1	Addressable Multi sensor smoke Detectors/Heat detector	NOTIFIER/BOSCH/ SYSTEM SENSOR BY HONEY WELL/ SIEMENS/ GE-SECURITY (EDWARD)/RAVEL/ MIRCOM.
2	Addressable Manual pull box	
3	Networkable Intelligent Analog Addressable Main Fire Alarm Control Panel with Battery Backup	
4	Addressable Control Module, isolator module, monitor module	
5	Hooters, Strobe , speaker, telephone jack, telephone receiver	
6	Digital Amplifier/Emergency voice evacuation system	
7	Response Indicator	Agni/ Edward/Ravel/Bosch/Notifier/Siemens
All component serial no. 1 to 6 shall be UL listed without fail. If any product above is not having UL listing, the same shall not be used.		
PA System		
S. NO	Name of the Product	Manufactured by
1	Cat-6 Cable, Wires	Amp/Krone/Legrand/Panduit/Systemax/Molex/Finolex/Commscope/Siemen/Walna/Lappkabel/Anchor-Panasonic/Havells/Batra Henlay / Belkin/ Belden/ KEI/ Digilink.
2	Speaker & accessories	Ateis/Audiotrak/Bosch/Philips/Honeywell/TOA/JBL
3	Voice evacuation system	Edwards/Notifier/Tyco/Bosch/Notifier/Siemen/Schneider/Mircom
4	Twisted pair shielded Cu conductor	Finolex/Fusion Polymers/Polycab/RR kabel/ Havells/ Avocab / Lapp
5	Metallic/GI Conduit (ISI approved)	AKG/BEC/NIC/Steel Kraft/VIMCO / Gupta/ RMCON/ Javeri
6	Accessories for Metalic/GI Conduit (ISI approved)	AKG/BEC/NIC/Steel Kraft//VIMCO / Jindal/Tata/Zenith Birla
7	Talk back system	Royal electronics /Agni/ Tyco/Legrand /BOSCH/ Notifier/ Siemens/Edward/Schiender/MIRCOM
8	TTA Panel conforming to IS 61439 Design	BOSCH/Notifier/Siemen/Edward/Schenider
9	Any other item.	As per approval of Engineer-in-charge.
NOTE: Equivalent material and finishes of any other speciliazed make may be used, in case it is established that the brands specified above are not available in the market but only after approval of the alternate brand by the Competent Authority/ NIT Approving authority.		



WET RISER SYSTEMS

S. NO	Name of the Product	Manufactured by
1	PUMPS	KIRLOSKAR/Grundfoss/MATHER& PLATT
2	MS/GI PIPES WITH ISI mark	JINDAL/TATA/Zenith Birla
3	BUTTERFLY VALVE	AUDCO/ INTER VALVE/ NORMEX/Honeywell
4	NRV (Ball Valve)/Y Strainer	NORMEX/Audco/Intervall/Honeywell
5	First aid hose reel with ISI mark	PADMINI/Minimax/Newage/Omex
6	First aid hose reel, ISI mark with hose reel drum	NEW AGE/ SAFEX/EVERSAFE/ OMOX/ PADMINI
7	CANVAS HOSE ISI marked	NEW AGE/ ARIHANT/ WINCO/ PADMINI
8	DOUBLE/SINGLE HYDRANT VALVE/branch pipe all with ISI mark	NEW AGE/ EVERSAFE/ WINCO/ ARIHANT/Kartar/Padmini
9	SLUICE VALVE with ISI mark	KALPANA/UPADHYAYA/ KIRLOSKAR

All item 1 to 6 except 5 shall be UL listed and UL marked. Any other accessories not specified shall be UL listed and UL marked only.

Approved makes for Solar Water Heater

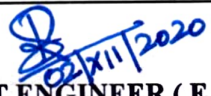
S. NO	Name of the Product	Manufactured by
1	uPVC pipe	Ashirwad/Finolex/Surya/Jindal/Apollo
2	GI Pipe	Tata/Zenith Birla/Jindal
3	Steel Sheet	Tate/Sail/Jindal
4	Solar Water Heater	Bosch/Havells/KCP solar/Honeywell/ Racold/ Emmvee/ Kotak Urja/ Jain Inigation/ Siemens/ Sudarshan
5	Mineral wool	Rockwool/Twiga
6	Nitrile Rubber	Kflex /Armaflex/Aeroflex

LIST OF APPROVED MAKES FOR HVAC WORKS

Technical Specifications for split type Air Conditioners

1	Air Conditioners shall be procured and installed through Dealers authorized by OEM.	
2	Unarmoured cables shall be for connections between outdoor and indoor units shall be one of these makes given in IEI package only.	
3	Compressors provided shall have minimum five year warranty.	
4	Air conditioning units shall have rating as per BOQ.	
5	Condensers shall have copper coils.	
6	Refrigerant used shall be R410a.	
S. NO	DESCRIPTION OF ITEM	APPROVED MAKE
1	Air Conditioner	Carrier/LG/Samsung/Voltas/Daikin/Hitachi/Blue Star/O-General.
2	Air / Water Cooled Chiller	Voltas / Kirloskar.
3	HVAC Calibration	Magnum / Presevi

LIST OF APPROVED MAKES FOR SUB-STATION WORKS		
S. NO	DESCRIPTION OF ITEM	APPROVED MAKE
1	Tranformer (Oil Type / Dry Type)	Crompton Greave's / Kirloskar / ABB / AREVA / Prolec GE / ALSTHOM / SIEMENS / BHEL / Wilson / Schneider/ Voltamp.
1a	Packaged Substation / Unitised Substation	Crompton Greaves /Amararaja / ABB /Voltamp
2	H. T. Cables	CCI / UNISTAR / Gloster / Finolex / Havells / KEI/ RPG/ Anchor.
3	H. T. Cables Jointing Kits	Rayhem / 3M / CCI-Xicon / Denson / M-Seal
4	Selector Switches for LT panels	Kaycee / BCH / L & T Salzer / Siemens / Schneider Electric
5	Contractors for APFC panels	Siemens / ABB / L&T / GE / C&S / Schneider Electric / Legrand
6	Electronic Load Manager	HPL / AE / Schnieder / Mecon / L&T / Conzerv
7	Indicating Lamps (LED type)	Siemens / Teknic / L&T / BCH / C&S / ABB / Schneider / JAI BALAJI / VAISHNO
8	Push Buttons	Siemens / Teknic / L&T / BCH / C&S / ABB / Schneider / JAI BALAJI / VAISHNO
9	M.V. Power Capacitors	L&T Heavy Duty Box Type / Siemens Epcos V (AC) 3PH, 50HZ / Neptune Model LLM / Schneider Varplus Energy (MDXL) 440V Range - Box Type
10	APFC Relay	Siemens / EPCOS / L&T / GE / ABB / Schneider / NEPTUNE/ Havells
11	Current Transformers for LT panels	Kappa / AE / BCH / L&T / ABB / Siemens / GE / MECO / Schneider / IMP / PERFECT ELECTRICALS.
12	Relays	SEGC / Crompton / Siemens / GE / ABB / Schneider / L&T
13	Fire extinguishers	Minimax / Safex / Ceasefire / Agni / Usha Fire Safety/ Padmini.
14	Sub Station Fire accessories	ISI marked (Wherever available) (Note: Where no ISI mark is available, the decision of the Engineer - in - charge shall be binding and final on the contractor)
15	First Aid Box	As approved by the State Fire Services Department
16	MS channel iron / GI pipes	SAIL / Jindal / Tata / Zenith
17	LV Glands & Lugs	Jainsons / Comet / dowells
18	Sandwich type bus trunking	Legrand / L&T / Schneider / C&S.
19	HT Panel	ABB / Siemens / Schneider / System Control / Kirloskar/ BK Power.
20	Electric insulation mat with ISI mark	Dozz / Padmini / Raychem / Jyoti Rubber Udyog


ASSISTANT ENGINEER (E)
 O/o Chief Engineer, Chennai, CPWD
 Chennai-90