PLUMBING SYSTEM

LIST OF APPROVED MAKES

S.No.	Details of Materials / Equipment	Manufacturer's Name
1	WC Connectors	-McApline -Multiwik(Ashirwad) -Viega
2	Flow Control Devices	-Aquaplus -Con-Serv -Jaquar
3	Automatic Air Vents	-Zoloto -Lehry -Jainsons(JSI) -Anergy -Varie
4	Rain Water Outlets - Cast iron	-Syscraft Global enterprises (SGE) -ACO -Neer
5	Rain Water Outlets - uPVC	-Syscraft Global enterprises (SGE) -Supreme -Ajay -Astral -Ashirwad
6	Car Parking Channel - D.I.	-Jar Italia Inc -ACO -Thermo drain India -Beledrain
7	C.P. Grating for Floor Trap / Cleanout	-Syscraft Global enterprises (SGE) -Chilly -NEER -Camry -Futura
8	**Pipes & Fittings /Manhole Covers and Frames**	
8.1	C.I. Pipes & Fittings - Spun Pipes - IS 3989	-NECO -Kapilansh -Kejriwal Castings
8.2	C.I. Manhole Covers and Frames	-NECO -Raj Iron Foundry -Rishicast
8.3	FRP Manhole Covers and Frames, Channel Gratings	-Thermo drain -Everlast -Fibrocast -HP International
8.4	CI Class LA Pipes	-Kesoram Calcutta -Raj Iron Foundry -Kapilansh -Lanco (Srikalahasthi)

S.No.	Details of Materials / Equipment	Manufacturer's Name
8.5	D.I. Manhole Covers and Frames	-NECO -Crescent Foundry -RBA -Gold Star Vikrant
8.6	CI LA Fittings	-Kesoram Calcutta -Raj Iron Foundry -Kapilansh -Kartar Valves
8.7	CI Hub-less Pipes - As per IS 15905	-NECO -Saint Gobain
9	Drip Seal	-Vinod Cement Co. Chandigarh (PJS-43) -Conjun Thermosets & Indo-chem. -Chandigarh (PJS-43)
10	SFRC Covers	-L.K.Conkk -K.K. Plastics
11	RCC Pipes	-Dhere -Indian Hume Pipes -Pranali /KK -Pragati
12	DWC HDPE (Double Wall Corrugated) Pipes	-Rex -Duraline -Gemini -Supreme -Jain
13	GI / M.S Pipes (IS : 1239 and IS : 3589)	-Tata Steel -Zenith -Jindal Star -Jindal Hissar
14	GI Pipes Fittings - Malleable	-Jainsons (JSI) -Unik -Zoloto-m -NEW
15	GI Pipe Sealant	-Henkel - LOCTITE 55
16	Pipe Clamp & Supports	-Diamond (Hira technologies Pvt.ltd.) -Easyflex -Mupro -Tembo star -Hitech Supports & Hangers Pvt. Ltd
17	D. I. Pipes & fittings	-Jindal -Kejriwal castings -Lanco (Srikalahasthi) -TATA Metaliks Kubota
18	DI Valves and Fittings	-Kartar Valves and Fittings -Sir Valves -Kejriwal castings -AVK India
19	uPVC Pipes & Fittings including Nahni Floor Trap, P Trap etc.	-Astral -Ashirwad -Ajay -Supreme

S.No.	Details of Materials / Equipment	Manufacturer's Name
		-Finolex -Jain Irrigation
20	CPVC Pipes & Fittings, Ball Valves(except terrace)	-Astral -Ashirwad -Ajay -Supreme -Finolex
21	uPVC Pressure Pipes Sch 40 with Sch 80 Fittings and Ball Valves (except terrace)	-Astral -Ashirwad -Ajay -Supreme -Finolex -Jain Irrigation
22	Pex Pipe	-Giacomini -Cosmoplast -KAHN
23	HDPE – Indian	-Noble -Darshan pipes -Sangir -Time technoplast -Dutron
24	PVC - SWR Low Noise Silent Pipes	-Ashirwad -Supreme
25	PP Low Noise Silent Pipes	-Astral -Huliot -Valsir
26	Stoneware Pipes, Gully Traps	-Perfect Potteries, JABALPUR Rajine
27	GM / Forged Brass Valves	-ITAP -Zoloto -Sant -RB Italy
28	Ball Valve	-Lehry -Zoloto -LegrisSant -UTAP -Leader
29	Sluice Valves	-Advance -Zoloto -Marck -Sant -Leader
30	Butterfly Valve	-Zoloto -Lehry -AIRA -SKS Leader -Advance

S.No.	Details of Materials / Equipment	Manufacturer's Name
31	Check Valve – Swing Type	-Zoloto - Marck - Lehry - Leader - Sant
32	Check Valve –Wafer Type Dual Plate	-Advance -Zoloto -SKS -Marck - Sant
33	Pressure Reducing Valve up to 50mm – Spring loaded diaphragm type with built in strainer. 65 mm and above- pilot operated pressure dependent diaphragm type	-Watts/LEHRY -Honeywell -Aqua Green -Varie -UTAP
34	Solenoid Valve	-Avcon -AIRA -Danfoss -Lehry -El-o-matic -Herion Norgen
35	Ultrasonic Transmitter	-Siemens -ABB -Nivelco -Emerson
36	Thermostatic Valve	-Oventrop -Danfoss
37	Equilibrium Ball Float Valve	-Esseti -Lehry -Satyam -Fluidyne instruments Pvt Ltd -Leader -Prayag
38	NRV–Ball Type – Sewage Application	-Danfoss -Silverspark -Snipex -Normex
39	Y Strainer	-Leader -Zoloto -Sant -Lehry -Marck - Cair
40	Hydro Pneumatic System	-Wilo – Mather & Platt -KSB -ITT Xylem -DP pumps -Lubi -Grundfos -Ebara
41		-Wilo – Mather & Platt

S.No.	Details of Materials / Equipment	Manufacturer's Name
	Storm Water Drainage Sump Pumps (Submersible)	-KSB -MODY -DP pumps -Lubi -Grundfos -Ebara
42	Sewage Handling Pumps	-Wilo – Mather & Platt -KSB -MODY -DP pumps -Lubi -Grundfos -Ebara
43	Transfer Pumps	-Wilo – Mather & Platt -KSB -ITT Xylem -DP pumps -Lubi -Grundfos -Ebara
44	Self-Priming Pumps	-Wilo – Mather & Platt -KSB -ITT Xylem -Grundfos
45	Borewell Pump	-Wilo – Mather & Platt -KSB -ITT Xylem -Shakti pumps
46	Pressure Vessel	-Aventura -Zilmet -Serievav -NEMA
47	Mechanical Seal	-Eagle Burgmann -Sealol
48	Drinking Water Cooler	-Blue Star -Usha -Voltas
49	Anti-Vibration Mounting	-Easyflex -Resistoflex -Tembo – seven star -Diamond -Mupro -Dunlop
50	Pressure Gauge	-Emerald -Fiebig -H Guru
51	Water Meter	-Capstan -Kaycee -Kranti -Aquamet

S.No.	Details of Materials / Equipment	Manufacturer's Name
		-Actaris
52	Electronic Flow Meter	-Krohne -Rockwin -Lehry - Adept
53	Level Controller & Indicator (Water) and Auto Water Filling System	-Osmosis Auto pump -Cirrus Engineering -Lehry instrumentation -NM automation -Techtrol
54	Paints	-Asian Paints -Berger -Shalimar -ICI
55	Insulation for Hot Water Pipes	-Aflex -Armacell- Armaflex -K-FLEX -Thermaflex
56	Motorized Valve	-Danfoss -Honeywell -Belimo -Aira/Cair -Lehry -El-o-matic
57	Grease Trap	-ACO -Wade -Kessel
58	Welding Rods	-ADOR -Cosmos -Esab
59	Fastener	-Fischer -Hilti -Hi- tech
60	Fire Sealant	-BTMH Engineering -Birla 3M -Promat -Specified Technologies -Hilti
61	Irrigation Equipment/Valves/Valve Boxes/QRC etc	-Hunter -Harit -Jain Irrigation -Toro
62	GI/MS Pipe Wrapping & Coating	-IWL – Pypkote -Rustech – coatek -STP Ltd. -Neotape
63	Back Flow Preventer (UPVC)	-Ashirwad -Indoplast -Ajay -Astral

S.No.	Details of Materials / Equipment	Manufacturer's Name
64	Cladding	-Jindal or Equivalent Approved
65	Sand Filters	-Spectrum Engg. & Consultant -V.M.Tech -Neel Hydrotech -Water Treatment Eqpt
66	Grooved Couplings	-National -Jainsons -Merrit Fire
67	Pressure Control Switches	-Danfoss -Switzer -Indfoss
68	Testing Kit	-Ion Exchange
69	Water Hammer Arrestor	-Watts -Zurn -Spirax Sarco
70	GM Foot valve	-Leader -Sant -Jainsons(JSI) -Venus
71	C.I. Foot valve	-Normex -Kirloskar
72	Hose Bib	-Zoloto -Lehry -Jainsons(JSI) -Sant
73	Acoustic Lagging (for Drainage Pipe)	-CMS -Soundseal -Fonobloc -Pyrotec
74	Easy Cleaner	-Varie
75	MH Steps	-KGM -Pranali Industries -Kejriwal Castings -NECO
76	SS Tanker Filling Inlet	-Newage -Minimax
77	Electric Water Heater	-Superheat -Racold -Bajaj -Venus
78	Solar Panel & Solar Hot Water Tank	-Tata BP Solar -Racold -Solahart India -Lahs Green India.
79	Vapour Barrier	-Foster or Equivalent Approved
80	SS Sink	-Kingston -Prestige -NeelKanth -Nirali

S.No.	Details of Materials / Equipment	Manufacturer's Name
81	Cistern	-Geberit -Viega
82	Thermostatic Mixing Valve- (For Solar Water).	-Honeywell -Watts -Danfoss
83	HDPE - Imported	-Geberit -Valsir -Wavin -Dura Line -Cosmoplast -Terrain
84	Air Release Valve Marck	-Fouress -Arco -Itap -Zoloto
85	Capacitance	-Switzer -Siemens -Honeywell
86	Pump Flexible Couplings	- Flexionics -Kanwal Industrial Corporation -Tembo star
87	Auto Balancing / Regulating Valves	-Danfoss -Oventrop -Honeywell -Flowcon
88	uPVC Planter Drain	-HEPWORTH PME -Cosmoplast UAE -Supreme-SGE
89	Seismic Supports	-MUPRO -CADDY -ERICO-Easy Flex
90	Suspended MH and GT	-Bombay Iron Work (Patel Pattern)
91	Glass Tube Manometer	-Indus -Flowtech -Telein
92	Butt Weld Fittings	-Royal tube -Rajhdhan -NM Dharia -Micro metals -NL hajra -Bharat Forge -Montex
93	Socket Welded Fittings	-Shree Aradhana -V S -Rajeshwar -Montex Forge Industries -Micro Metal -Bharat Forge -Swastik
94	Single Piece uPVC Multi Floor Traps – 50-70mm Seal	-Astral -Ajay

S.No.	Details of Materials / Equipment	Manufacturer's Name
		-Supreme
95	Water Tank Steps – PP Coated	-Local make
96	Auto Urinal Flushing System	-AOS- Auto Robo Flush System -Askon Engineers -Blue Circle -Euronics

LIST OF APPROVED MAKE FOR ELECTRICAL WORKS

Sl. No.		Approved Manufacturers/ Makes
1	ELECTRICAL CABLES & WIRES	
i.	PVC, FR/FRLS/ LSZH/, insulated, multi-stranded, flexible copper wire, up to 1.1 kV grade	-AVOCAB -Polycab -KEI -Finolex
ii.	Heavy duty PVC, XLPE/ FR LV Cables up to & including 1.1kV grade	-AVOCAB -Polycab -KEI -Finolex
iii.	Mica glass/LSZH fire resistant cross linked compound insulated Fire survival cable (PH120) for up to 1.1kV grade	-AVOCAB INDIA -IMPEX -Polycab
iv.	Fire Spray On Cable – Endothermic	-KBS Passive Fire -HILTI -SGS -3M
2	GLAND AND TERMINATION	
i.	LV Jointing Kit/Termination	-RAYCHEM(Tyco Electronics) -3M India -REPL
ii.	Cable Glands & Bi-Metallic Crimping Type Lug	- Comet -Dowel -Braco -HMI -Commex -Gripwell
iii.	Crimping Lugs/ Thimbles	-Comet -Dowell -Billet
3	CONTAINMENT WITH SUPPORT	
i.	Cable Trays / Trunking	-Profab -Indiana -Elcon -MGP
ii.	G.I. Pipes	-Jindal -Tata
iii.	G.I. Conduit Pipe &	-B.E.C.

	Accessories (ISI marked)	-NIC -AKG -BE.
iv.	PVC Conduit Pipe (ISI marked)	-Precision Plastic -Astral -Polycab
v.	PVC Conduit Accessories	-Precision Plastic -Astral -Polycab
vi.	M.S. Steel (Angle. Channel, Strip, sheet)	-Tata -Sail
vii.	Anchor Fasteners	-Hilti -Fischer -Arrow
4	PANELS & ACCESSORIES	
i.	Measuring Instruments	-Schneider Electric -AREVA -ABB -L&T
ii.	Panel Accessories	-Siemens -Teknic -Rishab -BCH
iii.	Protective Relays	-Siemens -ABB -AREVA -Schneider -GE
iv.	Control Fuses with Base	-Siemens -GE -ABB -Schneider -L&T
v.	CTs/ PTs	-AEI -Kappa -Pragati -Gilbert & Maxwell
vi.	Selector Switch	-Siemens -Salzer -L&T -BCH -KAYCEE -Schneider -ABB
vii.	Push Buttons (different colours)	-Tecnik -Siemens -L&T -Vaishnav
viii.	Indicating Lamps – LED type	-Tecnik -Siemens -L&T

ix.	Terminal strip	-Obo -Bettermann -Wago -Connectwell -Phoneix -Elmex
x.	Contactors & Timers	-Siemens -Schneider Telemechanic -ABB -L&T -GE
xi.	Programmable Timer	-Siemens -Schneider -ABB -L&T
xii.	Auxiliary Relays	-Siemens -AREVA -ABB -Schneider -GE -L&T
xiii.	ELCB, MCB, RCCB & Distribution Boards (L+P)	-Legrand -Siemens -L&T -ABB -Schneider
xiv.	MCCB (Electronic/Thermal Magnetic Protection)	-Schneider- COMPACT NS -L&T- D-SINE -ABB - Isomax -Siemens-(SENTRON 3VL)
xv.	ACBs (Electronic Protection)	-Schneider- COMPACT NS -L&T- D-SINE -ABB - Isomax -Siemens-(SENTRON 3VL)
xvi.	Capacitors with Harmonic Filters	-Siemens- EPCOS -ABB -DUCATI -L&T
xvii.	Surge Arrestors(All Types)	-Emerson -DEHN -ABB /FURSE -OBO -BETTERMANN
xviii.	Automatic Transfer Switches with Electromechanical Interlocks.	-ASCO -SOCOMEC
xix.	Switch Fuse Units	-Siemens -L&T -ABB

xx.	Cubicle LV Panels Main Distribution Boards (MDB), Sub-Main Distribution Boards (SMDB) & MCC Panels and pump control panels above 20 KW	-Arrow Engineers -Zenith -Power Control -Scoot Engineering -Marine Electrical -Sterling Wilson
xx1	Pump Control Panels - CPRI approved - For pumps up to 20 KW	-Neel Electronics -Technocrat -Lubi -Star panel
5	OTHERS	
i.	Variable Frequency Drive	-Siemens -ABB -Allen Bradley -Danfoss -Schneider Electric -GE
iii.	Fire Stop Material	-Birla 3 M -Hilti -Tremco -Specified NTechnology -Metacaulk -Nullifire
iv.	Cu. Strip and Earthing Material	-Ashlok -Furse -Kingsmill -Erico -Indiana -Bharti -JMV LPS limited
v	G.I. Strip for Earthing	-Indiana -Bharti -ISI/CPRI approved

Note: Preference will be given to use maximum number of available components from the selected manufacturer for the project.

----------END OF SECTION ----------