

List of Approved Makes of Materials-Civil & Plumbing

LIST OF MAKES -CIVIL & PLUMBING WORKS		
S.No	Details of equipment / Material	Approved Make
A. CIVIL WORKS		
1.	Acoustical Panelling	ECOTONE/Armstrong/ Anutone/Dexune/ Hunter douglas/Gypotech/ Bollard
2.	Adhesive for Ceramic tiles/ Stone/ Stone Sealers	Cico / Pidilite / Ardex Endura / MYK Laticrete/ Fosroc/ Berger/ Sika/ Bal endura, Chryso/kerakoll, goldstar, Kingston/MTK/ UNITED/saint gobain weber/ mapei/ Hindware/ ferrous crete /JKTylo /Ultratech / ECMAS/Apple Chemie/Vura
3.	Adhesive for Wood Work	Fevicol/ Vamicol/ Dunlop/ 3M/ Sika/ JIVANJOR, THERMOSHIELD, Speedex, Araldite, /kerakol, Astral, Kingston/Mapei
4.	Adhesive Tape	3M/Norton/ BOPD/ TESA/Jubilant
5.	Aluminium door & window system	Eternia-Hindalco, PABROS/SKS Steel Industries/RAC Extrusion
6.	Aluminium Accessories and Hardware (heavy duty)	Classic/ Crown /EBCO /Hardwyn/ Doorking DNV GLOBAL, GEZE, DORSET. Dorma (Crown) / Kinlong/ Hafele/ Cotswold/ Geze/ Alu-Alpha/ Secure Style / Lavaal Roto/ McCoy/ Everite/ Sysmec/ Dormo/ Insta
7.	Aluminium Glass Facade & Structural Glazing Systems	Schuco, Technal, Hindalco, Dow, Lindner AG, Art N Glass, AIS Window System, A2Z Infra Solutions, Pabros
8.	Aluminium Composite Panels	Aludecor / Alucobond /Alstone/ Reynobond/ Alpolic/ Virgo/ Alstrong/Wonder Alu/ Viva/ Eurobond / Durabuild/ /Hunter Douglas/ Alutuff /Alutech/ Reynoarch/ Kalco
9.	Aluminium Die-Cast handles & two point locking kit	Giesse / Securistyle / Alu – alpha / DNV GLOBAL/ GEZE/ DORSET/ Dorma (Crown)/ Kinlong/ Hafele / Cotswold / Lavaal Roto /McCoy / Geze /Insta /Hardwyn /EBCO /Doorking/Dormo/
10.	Aluminium Extrusion/ Sections	Hindalco / Jindal / Bhoruka/ Nalco / Halco Aluminium Extrusions. / Prominace/Schuco/ SAPA Building Systems / European Façade Product (EPF) /Rayners /RAC Extrusion/ Indoalasis. /Indalco/ Insta/ Eternia
11.	Anchor Fastner/Dash Fastner	Hilti / Fischer /Bosch/ Wurth/Koncept/ Canon/ Trixel/ 3-M India/Mapei
12.	Anti – Termite Treatment	It should be done by permanent members of IPCA as approved by Engineer-in-Charge.
13.	APP Polymeric Polyethylene Felt	BITUMAT/ STP/ Bengal Bitumen
14.	Back up rod	Supreme Industry/ SYSTRANS Polymers/ Backer Rod Mfg. Inc.
15.	Batch Mix Concrete (BMC)	The contractor to install his own computerized batching plant of suitable capacity and arrange for Transit Mixers, pumps etc. as per approval of Engineer – In-Charge.
16.	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum

17.	Cement	ACC / Ultra tech / JK Cement / Jaypee / Ambuja / Lafarge / Bangur / Shree/ Birla /JK Lakshmi/ Dalmia / Prism/ Wonder
18.	Cement: White	Birla White / JK / Ultratech/ Lafarge/ Travancore
19.	Cement bonded particle board	Bison Panel/ Viroc/ Viva/ HIL/ NCL/ Ramco/ Everest/ Visaka Industries/ Dexune
20.	Clean Room Wall Panels with/ without return air risers, Doors/ windows etc.	CLESTRA/ NICOMAC / HEMAIR / GMP
21.	Concrete Additive/Admixture	Pidilite / Fosroc / MC Bauchemie /Sika/ Cico/ CHRYSO/ STP Ltd./ Asian Fairmate/ MYK Arment/ Berger / Sunanda Chemicals/ BASF/ Ferrouscrete / Ardex Endura, Mapei, Myk Schomburg, Kerakoll , Supreme Bituchem , Kunal Conchem pvt. Ltd /Tremco / ECMAS /Apple Chemie/Aneeb
22.	Cover /Spacer Block	Fosroc / Astron/ KK
23.	Curtain Rod/ Drapery Rod/ Venetian Blinds/Blinds	Vista / Mac Decor/ Deck / Hunter/PHIFER /Window Tech/SSG
24.	Curing Compound	Pidilite / Fosroc / Sika/ Cico/ CHRYSO / STP Ltd./ BASF/ MYK Arment/ Berger/ MC Bauchemie/ Mapei/ Apple Chemie/Aneeb
25.	Crash Guard/ Corner Guard/Column Guard	Construction Specialities/ Gradus Inprop India Pvt. Ltd./ PD Projects/ Wall pro /DK Engineering Group / WINDOWTECH/JDV/PRIME TECHNOMED/LSR MEDICAL/ TSI/ DAKSHA ENTERPRIZEZ
26.	Coupler (mechanical)	Dextron/ Sanfield/ Usha Martin / Ascon/ Halfen/Svaas infra max/Dextron/ SNTP Rebar/ G-Tech Splicing
27.	Carpet Flooring & Skirting (Flotex)	Forbo/ Polyflor/ Tarket /Welspun/ CCIL/Flotex/Shaw/ TUNTEX/Millikon/ Ege/ Interface/ Bloomsburg/ Stantor
28.	Compressed Chequered tiles	Somany/ Kajaria/ Nitco/ Orient/ Johnson
29.	Door closer / Floor spring	Godrej/ Dorma/ Geze/ Hafele/Assaabloy/ Hormann/KICH/ Hardwyn/Everite/ Insta/ DORSET, OZONE/laxwood/EBCO
30.	Door Locks & Latches	Godrej / Harrison / Dorma/Link/ GEZE/ Laxwood /Hafele/ Hettich/ Hormann/ ,DORSET, OZONE/EBCO
31.	Door Seal	Anand Reddiplex/ Enviroseal / STP
32.	Door (Automatic Sliding Glass Doors with complete mechanism)	Autoingress/ Godrej/Dorma/Ozone
33.	Door Shutters- Flush & Factory Hot Pressed Laminated Door Shutters	Duro / Greenply/ Archidply / Century / Merino/ Jayna / Kitply /Jain Doors /Ak Plywood. Kuty Flushdoor, (Swastik), Modern Woodtech Industries / Orion, Kanchan Ply,/ Samrat/Laxwood/Green panel/Tufwud
34.	Doors & Windows Fixtures / Fitting.	Godrej/Ebco / Hafele/ Geze /Assaabloy / Hardwyn/ Hettich /Dorma/ Hormann/ Everite/ Classic/ Crown/Earl Bihari/ KICH /,DORSET, OZONE/laxwood/Insta
35.	Epoxy Flooring	Fosroc/ Dr. Beck/ Famaflor / STP/Asian Paints/ MYK Arment/ Berger/Ardex /Endura/Cera-Chem Sika / BASF / SupremeBituchem/CICO/ Laticrete/ Feros/ Weber (Saint Gobain)/Mapei
36.	Epoxy Mortar	Fosroc/ Sika/ MYK Arment/ Kunal Conchem /Chryso / BASF / Pidilite /Dr. Fixit/Asian Paints /Cico/ Berger/

		ECMAS/ MYK SCHOMBURG, LATICRETE, FERROSCRETE, UNITED/Weber (Saint Gobain)/Dr. Beck/ Famaflor/ STP/ Ardex/ Endura/ Cera-Chem / Supreme Bituchem/Mapei
37.	Extruded Polystyrene Board	Styrofoam by DOW Chemical's / Insuboard by Supreme Industries /STP Ltd. / Iso board ND,
38.	False Ceiling - Calcium Silicate Boards & Tiles	Armstrong / Hilux / Saint Gobain (Gyproc) / Aerolite / India Gypsum /Ramco(Hilux)/ Ultralite/ Usg Boral /Knauf/AMF / Anutone/ Anacon/ Gyptech
39.	False Ceiling - Metal	Armstrong / Hunter-Douglas / USG-Knauf/ Saint Gobain/ Everest/Durlum/Anutone/ Aerolite / Anakon/ Gyptech /Diamond Ceilings/ Lindner AG /Hi-Steel/ NewAge/ BSR Calsi/Harsonsgreen/ Bollard
40.	False Ceiling - Mineral fibre	Armstrong / Decosonic / Usg-Knauf/ Amf / Saint Gobain / Dexune /Anutone, Ramco Hilux/ Bollard/ Anakon/Gyptech/Kingston
41.	False Ceiling – GRG Ceiling Tiles	Saint Gobain/Diamond/Anakon/BSR Calsi/Ceilotech/ Gyptech/ Armstrong / Hunter-Douglas
42.	False Ceiling/ Dry wall partition system (ceiling/hanging sections)	Gyproc/ USG-Knauf/Armstrong / Western/DEXUNE / Hunter-Douglas/Hi-steel/ Anakon/ Gyptech
43.	Fire Rated Doors & Frames with accessories	Shakti-Hormann / Navair / Pacific/Promat/JC Fire Door/ Bhawani Fire Protection/ Sukriti Fire Door/ ASES/ / KINDLE/ GMP/Pyrotech/ Tata Pravesh/ Indian Fire Door/SKS Steel Industries/Tufwud
44.	Fire Rated Glass	Asahi India Safety Glass Ltd./ Saint Gobain/ Pilkington, Schott, Pyroguard, Glaverbel /Contraflam Lite /Firelite
45.	Fire Retardant Paint	Viper (Navair) FRS 881/ Nullifire/ STP / Carboline/Asian/ Berger / Juton/ Starcoat-CRC/Mapei
46.	Fire Seal	Sealz/ Alstroflam/ Abacus
47.	Fire: Door Closures, Mortise Dead locks, D-Type Pull Handles, Hinges, Panic Exit Devices, Tower Bolts	Becker Fire Solution/ Ingersoll Rand/ Dorma/ Godrej/ Geze/ Hafele/ Shakti-Hormann/D-Line/ Suzu/ Nulite/ Dorset / Laxwood/ MARSHALL/ Assa-abloy
48.	Fire: Sealant	Birla/ 3M/ Hilti/ PROMAT/ BOSCH/ FISCHER /Chemxseal
49.	Floor Hardener	Pidilite / SIKA/ Fairmate / BASF/STP Ltd./ Fosroc/ CHRYSO/ MYK Arment/ Asian Paints/ Berger/ UNITED/Mapei/Ultratech
50.	Flooring -Synthetic Acrylic (as per ITF Specifications)	Rebound/ PACE Court/Nova Cushion/ Sports Master/Mapei
51.	Glass : Float / Mirror /Structural Glazing /Toughened Glass	Modiguard / Atul / Saint Gobain/ Asahi India Safety Glass Ltd / Sisecam(HNG)/ Pilkington/ Firelite / Glaverbel
52.	Glass Wool / Insulation Boards/	Rockwool / UP Twiga / Lloyd Insulation /Pidilite/ Berger /Dexune /Rockfon/ Owns Conning/ Gyptech
53.	GRC Jali	Unistone/ Kuber Fibrostone/ Everest Composites/ Birla white / Mahesh GRC / KFPL
54.	Grout: Non-Shrink	Fosroc / Sika/ Pidilite / STP/ MYK Arment/ MC Bauchemie / Mapei, BASF / Chryso/Asian/Berger/ Ultra Tech /Aneeb/ Kunal conchem/Apple Chemie/Vura
55.	Grouting Compound	Ardex Endura/ Pidilite/ Laticrete/ Unitile/ STP/ Asian Paints/ MYK Arment/ Berger/ Chryso /MC Bauchemie/ Kerakoll, ferrous crete, Ultratech/

		UNITED/ Tikidan/Aneeb/JKTylo/Mapei/Vura
56.	Gypsum Board / Gypsum False Ceiling/ Gypsum Partitions	USG Knauf / Lafarge / Saint Gobain (Gyproc)/ Armstrong / India Gypsum /Vans gypsum/ Western/Sakarni GipsKarton/USG boral/Gyptech/ Anacon
57.	Gypsum Plaster	Ferrous crete / Ultratech / Saint Gobain / Asian Paints Marvelloplast /USG Knauf/India Gypsum /Western / UNITED/ Sakarni/Aneeb/ JK Maxx
58.	Laminates/ Veneers	Century/ Archidply /Greenlam/ Formica/ Sunmica / Merino /Royaltouch/ (Virgo)/ Samrat/Alstone/Rushil
59.	Lead Lined Door	REBBON/ Kuttys/ AHALDA/ Navair/ Shakti- Hormann/ Metaflex/ Pyrotech/ Tufwud
60.	Modular Grab bars and Disabled Hardware	Dorma / D-line/ KICH/ Jaquar/ Hindware/ Kohler
61.	Modular SS Railing System	Metallica India / D – Line International Denmark / Mobel Hardware /KICH/ Konzept/Technoraill/ Axel India
62.	Modular Kitchen Chimney	Hindware/ Elica/ Glen/ Faber/ Sleek.
63.	Neutron Shielded Door	Ray-Bar Enggcorp / A-FabcoIn/ A&L shielding INC/ Accurate Radiation Shielding
64.	OT: Conductive Tile Flooring: ESD- Control Tile Flooring	Tarkett/ Gerflor / Armstrong / Forbo/ Trilux LG
65.	Paints - Cement Based	Snowcem Plus/ Berger / Nerolac / TATA Cem, Asian Paints /STP Ltd./ Dulux/ Jotun/Shalimar
66.	Paints - Epoxy paint	Akzonobel DULUX/ Nerolac / Cico/ Sika / BASF / Berger / Pidilite/ STP Ltd./ Fosroc/ MC Bauchemie / Jotun/ Asian Paint/ Kamdhenu Paints/JSW Paints/Mapei/JK Maxx
67.	Paints - Oil Bound Distemper / Acrylic Washable Distemper /Plastic Emulsion Paint	Akzonobel DULUX/ Jenson & Nicholson/ Jotun / Berger (Bison Acrylic Distemper), Asian (Tractor Acrylic Distemper), AkzoNobel (Magik)/ Nerolac (Nerolac Acrylic Distemper) /Kamdhenu Paints/ JSW Paints/Shalimar/ JK Maxx
68.	Paints - Plastic Emulsion Paint (exterior)	Asian Paints (Apex Ultima)/ Berger (Weathercoat all Guard)/ Akzonobel (DULUX weather shield max)/ Jotun / Nerolac (Excel), RAINCOAT (Dr. Fixit)/ Kamdhenu Paints/ JSW Paints/ JK Maxx
69.	Paints - Synthetic Enamel Paints	Akzonobel DULUX (Gloss), Berger (Luxol Gold), Asian Paints (Apcolite), Goodlas Nerolac (Full gloss hard drying), Jenson & Nicholson (Borolock), Jotun/Kamdhenu Paints/ JK Maxx
70.	Paints - Texture paint	Berger / Spectrum / Unilite/ Heritage /Asian Paints / Akzonobel DULUX/STP Ltd./ Jotun / ICI, KANSAI, NEROLAC/ Bakelite & Hylam/ Ultratech Texture Paints /Kamdhenu Paints/JSW Paints/Luxture / JK Maxx
71.	Paint: Anti-Fungal	Sika by Liquid Plastic / Viesmann/ SSK/ TRILUX/ STP Ltd./ Berger/ Ardex Endura/ Cera-Chem/ Kamdhenu Paints/ Starbond
72.	Paint-Wood Finish (Melamine & PU)	Nippon/Jivanjor/ Asian Paints / Akzonobel/ Berger
73.	Putty (Wall)	Ferroscrete/ JK/Birla/ Berger/ Chryso /Asian Paints /SARAPUTTY/Nuvoco /Kamdhenu Paints/ UNITED/ Ultra Tech/Sakarni/JSW Paints/Shalimar/ JK

		Maxx/Aneeb
74.	Paver blocks / Tiles (All Types)/ Grass crete pavers	KK / Uni Stone Products (India) Pvt. Ltd/ Hindustan Tiles/ NITCO/ PAVIT/ ULTRA/ DURACRETE / NTC TILES.
75.	Plywood/Block board/Ply board	Duroply / Greenply/ Archidply/ Century/ Kitply/ National / Anchor/ Merino / Jayna/ Modern wudtech industries/orion/Kanchanply /Samrat /Jet/laxwood/Green Panel/Rushil
76.	Polycarbonate Sheets	Danpanlon India/ Gallina/ Sabic Lexanc/ Polygal / Coxwell Domes /GE Plastic /Skyarch/Polytechno/ Tuflite/Ultralite/Palram/ Saraswati Plastotech India/DPI Daylighting
77.	Pre-coated Galvanised Steel Sheet/ Pre-coated Puff Sheet roofing	Tata BlueScope / Llyod Insulations India Ltd / S.R. Metals/Interarch / Bhushan/ Essar/ Jindal Steel / JSW Steel
78.	Pre-Laminated Particle Board	Novapan /Century / Greenlam / Merino / Archidply/ Action Tesa/ NCL/ AK Plywood ECOBOARD/ Samrat/Green panel/Rushil
79.	PVC continuous fillet for periphery packing of glazings / Structural/ Glazing	Roop / Anand / Forex Plastic/ Nagalia/ Trading Company
80.	PVC Doors	Sintex/ Polyex/ Rajshri/ Rushil
81.	PVC Flooring	Tarkett Floors / LG Floors / Gerflor / Premier Vinyl flooring / Regent / Armstrong / Responsive/ Wonderfloor/ Tremco/3M
82.	Powder Coating Material pure Polyester	Jotun / Berger / Goodlass Nerolac Jotun, Akzo nobel (Interpon), Valspar, Asian PPG
83.	PVC Water Stops	Prince /Supreme/ Finolex/ Maruti/ Astral
84.	RF Shielded Door	ETS Lindgern/ Synchrony Agency/ Huaming EMC India
85.	Reinforcement Steel (Primary Producers)	SAIL/ RINL/ TATA Steel Ltd./ Jindal Steel & Power Ltd./ JSW Steel Ltd/ ESL Steel Ltd. /Radha TMT/Elegant / Shyam Steel Industries Ltd./SRMB /Electrotherm ET TMT
86.	Reinforcement Steel (Other Producers)	SBF Rapid/RAMA OR equivalent
87.	Structural Steel	SAIL/ RINL/ TATA Steel Ltd./ Jindal Steel & Power Ltd./ JSW Steel Ltd./ Prakash Surya / ESL Steel Ltd. /
88.	Structural Steel (Hollow Sections)	SAIL/ RINL/ TATA Steel Ltd./ Jindal Steel & Power Ltd./ Apollo Tubes/Parkash Steel
89.	Restroom Cubicles	Merino/ Century/ Greenlam/ Action Tesa DORMA
90.	Sealant: Poly-sulphide	Pidilite / Fosroc / CICO / Sika /Berger/ Dr. Fixit/ Chowksey Chemical/ Chryso / Wacker/Asian Smartcare / MYK Arment/ IWL India Limited/Mapei/Apple Chemie
91.	SFRC / RCC Manhole Covers/ Perfect RCC Grating	KK Manholes / SK Precast Concrete/ Advent concrete vision / Daya concrete / Dalal Tiles,/ Tokas concreteproduct, / Nimco precast
92.	Silicon sealants /Weather Sealant / Structural Glazing Sealant	GE- Silicon / Pidilite / Forsoc / Cico /Dow Corning / Sika/ Wacker/STP/ Asian Smartcare/ MYK Arment/ Berger / Cera-Chem/ ORDINARY PIDISEAL TUFFESEAL BY M/s HINDUSTAN BROTHERS 225 RUE FRANCUIS MARTIN, FAIRMATE , MASTERFLEX 700I OF BASF. CHRYSO/ Kingston/Jubilant/ Wuerth /Alstone/ Tremco/ Alstone

93.	Stainless Steel	Salem Steel/ Jindal / TATA Steel/ SAIL
94.	Outdoor Sports Flooring	Great Sports Infra/PORPLASTIC/Sunflex/Rebound/ Herculan/Mapei
95.	Stainless Steel bolts, Screws, Nuts & Washers	Kundan / Puja / Atul/ GKW/Alloy/ PRIYA, AXISL, BOUN/Trixel
96.	Stainless Steel Clamps	Hilti /Intellotech / Konzept/ WURTH / Dorma / Fischer/Trixel
97.	Stainless Steel CP Grating	Chilly / Camry/ Neer or equivalent / Cardin/XEN/Axel India
98.	Stainless Steel D-handles	D-line / Giesse /Dorma/ Hormann Cotswold / Securistyle/ Schuco/ SAPA Building Systems / /European Façade Product (EPF) / Rayners/laxwood/EBCO
99.	Stainless Steel Friction Stay	Earl Bihari / Securistyle / EBCO / Cotswold / Schuco/ SAPA Building Systems / European Façade Product (EPF) / Rayners/Kich/Hafele/Giesse/ Gezze/Insta
100.	Stainless Steel Hinges/Handles/Door Window Fixtures	Hettich/ Godrej/ Dorma/ Hafele/ Gezze/ KICH/ Dorset/ Hormann / Sleek/ Cotswold / laxwood / Schuco/ SAPA Building Systems /Insta/ European Façade Product (EPF) / Rayners/ Alstone / Securistyle/EBCO
101.	Sunken Portion Treatment	Choksey / Sika / CICO/ MC Bouchemie / BASF/ Berger / MYK Arment / Bostik/ Dr. Fixit/ Ardex Endura/ Chryso / Cera-Chem/ Ultra Tech / KUNAL Conchem/ ECMAS/Mapei
102.	Super plasticizer	CICO/ Roffes Construction Chemicals/ Pidilite / Berger/ Asian Paints/ MYK Arment/ MC Bauchemie / Bostik/ Cera-Chem/ ECMAS/ Chryso/ Dr. Fixit, /STP LTD., IWL India Ltd., Shivalik/ koster/ fosroc/ sika/Huntsman/ Kunal Conchem/ Ultra Tech /Mapei
103.	Tiles: Glass Mosaic Tiles	MRIDUL/ BIZZARE /BISAZZA, OPTO, MUSAICA
104.	Tiles: Glazed /Ceramic Tiles (Manufactured in own Mother Plant Only)	Kajaria / Somany/ Rak/ AGL/ Orient (Bell), Nitco/ Oasis/ Restile, Quotone / Varmora/Hindware/ Sunheartt /simpolo/Johnson/ Cera/ Johnson/Motto
105.	Tiles: Heat Resistant Tiles	Thermatek/ Hindustan/ Hindware/Johnson /Kajaria/ Somany
106.	Tiles: Vitrified Tiles (Double / Multi Charged)/ Germ free/Full body) (Manufactured in own Mother Plant Only)	Kajaria / Somany/ RAK / Johnson/ AGL/ ORIENT (BELL), RIWASA TILE, QUOTONE, OASIS / Varmora /Hindware/ SUNHEARTT /Simero/Cera/Motto
107.	Vacuum Dewatered Flooring	Tremix / Sun Build / Avcon technics
108.	Veneered Particle Board	Duro / Greenply / Century / Novapan / Action Tesa
109.	Water Proofing Materials	BASF/ Fosroc / Sika / CICO / STP / Pidilite/ CHRYSO/ PENETRON/ Asian Paints / KRYTON/ XYPEX/ MYK Arment/ ECMAS/ Berger/ MC Bauchemie/ Tikidan/ Ardex Endura/ Cera-Chem/ Sunanda Chemicals /IWL/ Dr. Fixit, Shivalik/ koster/ Huntsman/ Kunal Conchem / Ultra tech /Weber (Saint Gobain) /Tremco /mapei /Jubilant /KCJ Resources (Zerodrip)/Mapei / Nerolac Perma/Aneeb
110.	Water Proofing Compound (Crystalline)	Xypex Construction Chemicals/ Kryton/ Penetron/ Pidilite/MYK Arment/ Burger/ECMAS/Asian

		Paints/Sunanda Chemicals/ Kunal conchem /Grace, / Fosroc,/ Sika, / Chryso /Tremco /Ultra Tech/ Tikidan/Mapei/ Apple Chemie (Doses as per manufactuer's specifications or that required to achieve performance criteria of DSR item 22.22 i.e. more than 90% permeability reduction and resistant to hydrostatic pressure up 16 bar whichever is more.)
111.	Wooden Laminated Flooring	Euro / Pergo/ Green Deco/ Krono/ Egger/ Harro/ Armstrong/ Kaindl/ Action Tesa / TARKET/Vista/Apex /Lamiwood /Kronotex/ Greenply / Floormax /Kahrs Engineer Wood Products / Samrat/Rushil
112.	Auditorium Chairs	Godrej /Rockworth/Featherlite/ (Greenguard/IAQ/BITMA Level Certified)/indo/ wipro/Bonton/Durian/ BP Ergo /Haworth /Steelcase /Geeken/Indo Innovation
113.	Expansion Joints	Sanfield (India) Ltd./Bizzar/ Cameo Inc (MIGUA) /MNR/ TRISTAR, Z-TECH Hercules/Vexcolt/Mapei
114.	Raised/ False Flooring	UNIFLOOR, UNITILE, CAMFLOR
115.	uPVC door & window system	Fenesta, NCL Veka, Rehau, Aluplast / Deceunick / AMD Overseas/Pabros/ Prominence/ Lingel/ Evolution/ Kommerling/ Duroplast/Aparna Venster REHAN/ Cassa/Green Fenestations/Jangid Engineering Works /PSP Dynamic/SKS Steel Industries
116.	uPVC Door and windows Hardwares	Oben/Kinlong/Cotswold /Rotto/ Insta/Glorious/GU /DNV Global
117.	Wood Plastic Composite	Wonder Alu/ Ontech/Floresta
118.	High Pressure Laminates	Greenlam/ Merino/ Virgo/ARCHID/ FUNDERMAX,/ TRESPA, /Wonder Alu/ VERSITO/Reynoarch
119.	Laboratory Workstations	Godrej/Space Plus Design/Featherlite/Indo Innovation (The manufacturer must have valid SEFA Executive member certificate)
120.	AAC Block	Ultratech extralite / Birla Aerocon/ Finecrete /Dalal Tiles
121.	AAC Block adhesive	United/ Ultra Tech/Fosroc,/ Sika, / Chryso/Mapei/Vura
122.	Zinc composite panel/Cladding	Reynoarch/Virgo/Aludecor/

PLUMBING & SANITARY WORKS

Approved Make		
1.	Automatic variable temperature control / fixed temperature control faucets	Jaquar / AOS-Robo-U-Tec/ Parry / Angash/Euronics
2.	Central Control	Rain Bird, USA/Toro/Nelson,
3.	Ball Cock	Sant / L&T/Audco/GPA/XEN
4.	Ball valves with floats	Zoloto / Leader / Sant/ Audco/GPA/ Jayco/ Hawa/ honeywell/ lehry, csa atena, esseti,
5.	Butterfly valves	GM / Uday / Parthiv / Zoloto / Audco/ advance/ lehry/ honeywell, sant, audco/ zoloto/ kirloskar/Emerald

6.	C. I Pipes & Fittings	Electrosteel/ NECO/ BIC / SKF/ Kapilansh/ RIF/ RPMF lanco, kartar valve & fitting, , ca pipe/ hif
7.	Centrifugally Cast Iron Hubless Pipes & Fitting	NECO/BIC/SKF/Kapilansh/RPMF/ /hepco/ raj iron /foundary agra
8.	C.I Sluice Valve & Non Return Valve	Kirloskar /Leader /Zoloto/ Audco/ Sant/ advance/ lehry/ Honeywell
9.	C.I Valves (Full way, Check and Globe Valves)	Leader / Kirloskar / SKF / Zoloto / Sant / Castle / Kartar hawa/ cim/ lehry/ advance/ audco/ l&t
10.	C.I. Manhole Covers	NECO/B.I.C./R.I.F/HEPCO/ SKF/ KAJECO/ RPMF.
11.	C.P. Fittings: Mixer / Bib Cock/Stop Cock/ Pillar taps/ Angle valve/ Valves Washers / Waste/ Urinal / Spreaders / Accessories etc.	Jaquar /Kohler/ Grohe/ Marc/ Kerovit/ Somany/ CERA/ ASIAN Parryware / Queo/ Hindware / American Standard, /Duravit /Roca/ Euronics/ XEN
12.	Chlorinator	Thermax Ltd/ Watcon/ Ion exchange/ Sigma DH Combine Inc./ Siemens/ Techcon/ Jesco / Prominent Heidelberg
13.	Cockroach Trap	Chilly/ Player/ Camry/ Viking /cardin/XEN
14.	Copper Pipe/Fittings (Capillary)	Yorkshire Imperial, U.K./ Rajco Metal Works Mumbai / IBP Conex Ltd.
15.	Disc Filter	Azud, Spain/ Amaid / Arkal,
16.	Drainage Pumps	KSB/ Grundfos/ Kirloskar/ Crompton/ Wilo-Mather & Platt/DP/ITT
17.	Ductile Iron Fittings (IS:9523) / Ductile Iron Pipes (IS:8329)	Electrosteel/Kesoram/Tisco/Jindal/HEPCO /electrotheram
18.	E.P.D.M Gaskets	Anand Reddiplex / Enviro Seals / HANU
19.	Forged Steel Fittings & Flanges (For Welded joints)	Rohini /Kanwal/ Vijay Cycle & Steel (VS)
20.	Geyser	Spherehot / Racold / Usha /Bajaj/ Havells/AO Smith/ Orient/Crompton/venus/jaquar
21.	Hand Drier	Kopal / Utech Systems /Automat /toshi/ Jaquar/Euronics
22.	HDPE Pipes / Moulded Fittings	Emco /Polyefins/Pioneer Plyfab/ Jain Irrigation / Texmo/ Supreme/ Oriplast/ Finolex
23.	HDPE Solution tank	Watcon / Ion Exchange / Water Supply Specialist Pvt. Ltd.
24.	Inbuilt Drip Line	Azud/ Rainbrid/ Netafim
25.	Insulation of Hot water pipes	Vidoflex insulation / Superion insulation Kaiflex – Kaimann/Armoflex/Thermafex/ Tikidan
26.	Liquid Level Controllers / Indicators	Advance Auto / Sridhan International / Minilec / Radar / Femac / Switzer / 21 st Century /Auto pump, cirrus, engineering, technika,Pumptrol, pune techtrol, lehry
27.	Liquid Soap Dispenser	Euronics/Utec/Kopal/ ASIAN /toshi /jaquar/Sloan/XEN
28.	MS Saddle with G.I. Riser	Harvel/Alprene/Rain Bird
29.	PVC flushing cistern	Commander / Parryware / Hindware/ Cera/ Kajaria Sanitary ware/ Somany/ ASIAN/ Jaquar
30.	Concealed cistern	GABREIT/Commander / Parryware / Hindware/ Cera/ Kajaria Sanitary ware/ Somany/ ASIAN/ Jaquar /Sloan /Euronics
31.	P.R.S. Dials	Rain Bird/ Toro/ Nelson,
32.	P.T.M.T. Fitting	Prince India / Symet/ Prayag/ Cera/ Polytuf/Polytuf/Premium System/XEN
33.	Pipe coat material (pipe protection)	RPG Raychem/ Pypkote/ Makphalt/ Tikidan / IWL
34.	Pipe Fittings: G.I.	RR/Unik/Zoloto/K.S./Sun/ Swastik/Jainsons /DRP

		Kirti, crescent, Bhart Forge/ avr/ sant/ HBI/ c-brand/ ics/
35.	Pipe:- G.I.	Jindal (Hissar) / Tata / Prakash Surya/ SAIL/ Swastik/ APL-Apollo/ bhushan power steel
36.	Pipes & fitting: PVC for SWR Soil, Waste & Vent Pipes and fittings, Type B PVC Casing & Screen Pipes	Prince / Supreme / Finolex/ Truflo (Hindware)/ Texmo/AKG/ Astral
37.	Pipes & Fittings: CPVC	Flowguard /Prince/ Astral/ Ashirvad/ AKG/Supreme / APL Apollo/ Birla HIL /Truflo (Hindware)/Texmo/ Finolex
38.	Pipes & fittings: UPVC	Finolex / Prince / Supreme / AKG / Kasta / Vector / Astral/ Ashirvad/ Birla HIL/ Truflo (Hindware)/ Texmo
39.	Pipes & Gully Trap: Stone ware	Perfect / S.K.F/ R.K/ Hind / Anand/ Burn
40.	Pipes and Accessories: PE-AL-PE	Kitec/ Jindal/ Kissan/Vista
41.	Pipes: Copper	Rajco Metal works, Mumbai / IBP Conex Ltd.
42.	Pipes: M.S.	Jindal / Prakash – Surya /TATA /SAIL/APL-Apollo Tata steel/ jindal hissar/sail/ prakash surya
43.	Pipes: PP-R (PN – 16)	Amitex Polymers Pvt. Ltd. / Prince/ Supreme
44.	Pipes: R.C.C	Indian Hume Pipe / Pragati Concrete Udyog Daya/ KK / JSP/ MCP/pranali, southern Concrete, Ramnik/ bfsp/ jagdambey spun pipe/ gurkirpa spun pipes/ lakshmi/ sood & sood / jain & co./ kk/ usha/ diwan/ spun pipe/
45.	Plastic seat cover of W.C	Commander/Hindware / Parryware/CERA/ ASIAN/Sloan
46.	Polyethylene Storage Tank	Sintex / Polycon/ Fusion/ Amitex/ Sheetal supreme / polyplast
47.	PVC Floor trap	Jay/ Saffron/ Platinum/ Khodiyar/ Supreme/ Finolex
48.	Pop up Connecting Assembly	Rain Bird/Dura/Lasco,
49.	Popup Spray Head	Rain Bird/Toro, USA/Nelson,
50.	RQRC Hydrant	Harvel/Alprene/Rain Bird, USA
51.	RQRC Key	Harvel/ Aqua/ Drip& Drip
52.	Sensor Operated Auto Flushing System Urinals	Jaquar / AOS-Robo/U-tec/Angash/Euronics/ ASIAN / Hindware/ Parryware/Sloan
53.	SS Gratings/ Soap Dish/Towel Rail etc.	Camry/Glacier/Gem/ Jaquar/ Grohe/ ASIAN/ JAYNA/NEER/NIRALI /chilly/cardin/Euronics/XEN
54.	Stainless Steel Sink	Hindware / Neelkanth / Nirali / Jayna / Cera/ ASIAN/bluestar /Hafele/RAK/Pearl/XEN
55.	Bed Pan Sink	CMP Metal/Vijay metal or equivalent as approved by E-I-C
56.	Stainless Steel Pipe & Fittings of Grade AISI 304 as per JIS Standard 3448 for Water Supply Line and Fittings	Sail (Salem Steel)/ Jindal / J-Press/ alfa Press
57.	Safety foot Steps	MCP/ GP/ Surabh
58.	Valve Box	Rain Bird, USA/Carson Brook, USA/Dura,
59.	Valve: Air Release	Azud/ API/ Bermad/ BIR/ Kirloskar / Venus / Zoloto / sant/ watts/ studor/Giacomini/ drp
60.	Valve: Butterfly	Zolato/Audco/Sant/KSB/ Kirlosakar/Advance / lehry/ Honeywell/ drp/electrotherm
61.	Valve: Flush/Flushometer	Gem/ Jaquar / Marc/ ASIAN/Sloan
62.	Valve: Mainline Isolation	Sant /Leader /Zoloto
63.	Valve: Pressure Relief	Sant/Leader/ Zolato / Audco / watts/ utam/ Honeywell
64.	Valve: Sluice / NRV	Kirloskar/IVC/Kilburn /Zolato/Castle/ Leader / L&T/ Audco/ Honeywell / RB / SANT/ AIP / drp

65.	Valve: Solenoid	Rain Bird, USA/Toro/Nelson,
66.	Valves: Gunmetal / C.P brass angle	Zoloto / Leader / Kilburn / Sant / Kartar/ AIP/ Audco / Kriloskar/ Jaquar Giacomini/ drp
67.	VFD Pump	Crompton/ Kirloskar/ KSB/ Grundfos/ Wilo -Mather & Platt / DP/ITT
68.	Vibration Eliminator Resisto-flex Pads & Connections	Relay Corpn./Kanwal/Dunlop/ Resistoflex/Easyflex flexionics//industrial Corporation/
69.	Vitreous China Sanitary wares & White Glazed Fire Clay Sink	Hindware / Parryware/ Cera / Kohler/ Kajaria Sanitary Ware/ Somany/ RAK/ ASIAN ./ Jaquar/ Queo American Standard / duravit/ grohe/ roca/ toto/Sloan
70.	Water Cooler	Blue Star/ Voltas/ Usha/ Godrej/ Aquaguard/ Ion- Exchange/ AO Smith/WAE
71.	Water Meter	Capstan / Kranti/ Anand/ Kant/ Aristo/ Dasmesh/ Chambal Crescent/ prince/ fedrel/ nbeson/ thermatek/ insutite
72.	Water supply pumps	KSB/ Grundfos/ Kirloskar/ Crompton/ Wilo-Mather & Platt/DP/ITT / ebara
73.	Modular Rain water harvesting pits	Atharva Energy/Retas Enviro Solution Pvt. Ltd/Nugreen Energy pvt Ltd/Bantair India Pvt. Ltd.

Note:-

1. The contractor will use one of the approved makes as approved by the Engineer -in-charge.
2. In case of different quality / pattern of same make, the pattern/ quality shall be approved Engineer – in – charge.
3. This list of makes shall be read with the list of makes provided elsewhere in the Tender Documents. In case of variance, decision of the Engineer-in – Charge shall be final.
4. For materials/equipment/ to be used in items of work for which approved makes are not given herein or in the list of makes provided elsewhere in the Tender Documents, the makes of such materials /equipment shall be as decided by Engineer –in-charge.
5. If any major equipment is using a small component of make other than that given as a standard component with the equipment, the same shall be accepted subject to approval of Engineer –in-charge.
6. In case of non-availability of the brand specified in the contract, the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand. The necessary cost adjustments on account of above change shall be made for the material.

List of Approved Makes of Materials- Services & Related Works

DRINKING WATER PUMPING SYSTEMS /WATER TREATMENT PLANT / REVERSE OSMOSIS ETC.		
S.No.	Details of equipment/ material	Make/Manufacturer
	Anti-Vibration Mounting & Flexible Connections	Dunlop/Flexionics/Kanwal/Industrial Corporation/ Resistoflex
	Butterfly Valve	Zoloto/Audco/Kirloskar/AIP/Advance/ L&T SANT/ DRP
	Cartridge Filter	Milton Roy/ Grundfos/ Big Blue
	Centralized RO Plant	Ion Exchange/ Thermax/ Pentair/ Eureka Forbes/BS Enviro/WAE/ Wastech Infra
	Chain Pulley Block	Indef/ Ardee/ J.K. Morris
	Check Valve – Dual Plate	Advance/Honeywell/Audco/Zoloto/ L&T/ Castle /SANT/ DRP
	Check Valve – Wafer Type	Advance/Danfoss/Zoloto/Honeywell
	Conductivity Meter	Fox/Rosemount/ Aster/Digital/ Honeywell/ Thermax/ Krohne
	Couplings	Lovejoy/Dunlop/Burgmann
	Dosing Pumps	LMI/Pulser Feeder/Toschon/Grundfos/ Kirloskar
	Drain Valve	Leader / Kirloskar / SKF / Zoloto / Sant / Castle AUDCO/ADVANCE / ANERGY
	Electronic Flow Meter	Krohne / Forbes Marshall/ Rockwin/ Cirrus India/ Honeywell/ Thermax
	Fastener	Hilti/ Fischer / Wuerth/ Bosch/ 3M /AXEL.
	Filter	Ion Exchange/ Thermax/ Pentair/ Wastech Infra
	Flow Meter	Anergy/Honeywell/Cirrus India/ Thermax/ Krohne/ Forbes Marshall
	GI / MS Pipes	TATA STEEL/JINDAL HISSAR/SAIL/PRAKASH SURYA/Electrotherm ET
	GI Pipe fittings	UNIK/ NEW/ZOLOTO /DRP
	GM / Forged Brass Ball Valves	Zoloto/ Honeywell/Castle/Audco/ L&T
	HDPE Tanks	As per List of Approved Makes Civil & Plumbing / SINTEX/AMITEX/SHEETAL
	High Pressure Pumps	DP/Grundfos/ITT/Wilo-Mather Platt Kirloskar/ KSB /EBARA
	Hydro-pneumatic System	Grundfoss / Kirloskar/ DP Holland / Wilo/ Xylem/ KSB ITT /EBARA
	Level Controller & Indicator (Water)	L&T/ Auto Pump/Cirrus India/Teknika/Techtrol/ Minilec
	Mechanical Seal	Eagle Burgmann/ John Crane/ Dunlop/ Leakpack/ Flow Serve/ Sealmatic
	Non Return Valve	Zoloto/ Honeywell/ L&T/ Castle/Sant / Leader/ Audco /KITZ/ANERGY
	ORP (Oxidation reduction potential) Meter	Fox Scientific/ Rosemount-Emerson/ Rapid Control/ Maharaja / Valtronics
	Paints	As per List of Approved Makes Civil & Plumbing

	pH Meter	Fox/ Rosemount/ Aster/ Digital
	Pipe Clamp & Supports	Chilly/Euroclamp/Kanwal/ Gripple/FISCHER
	Portable RO Plant	Bluestar/Usha/Eureka Forbes/ Kent/ Voltas/ AO Smith/ Thermax
	Pressure Gauge	Fiebig/ Emerald/ H. Guru/ Baumer
	Pressure Switch	Switzer/ Honeywell/ Indfoss
	Pressure Reducing Valve	Leader/Kirloskar/ SKF/ Zolto/ Sant/Castle
	Raw Water Pump Set/ Treated Water pump set/ Drainage Pump Set or any other type of pump sets.	DP/Grundfos/ITT/ Willo-Mather Platt/ KSB/ Kirloskar/ Xylem
	Resin	Ion Exchange/Thermax/3M/Pentair
	RO Membrane with Housing	Dow/Hydranautics/Tricep/G.E/Mitsubishi/ Wastech Infra
	Sluice Valves	IVC/Kirloskar/ Zoloto/ Castle
	Sodium Hypochlorite Dosing System	Asia LMI/ Grundfos/ Seiko/ E - Dose
	Softener Vessel	Ion Exchange/ Thermax/ Pentair / BS Enviro
	SS Pipes & Fittings	SAIL/ Jindal/ Viega/ Sumitomo/ Apollo/Hisar Metal (Instapress)
	SS Strainers & Valves	Audco/ Zoloto /Leader/Walson/ Normex/ Worth / Apollo
	Storm Water Drainage & Sewage Sump Pumps (Submersible)	DP/ Xylem-ITT/ Wilo-Mather Platt / Kirloskar/ KSB
	Water Transfer Pumps	DP/Grundfos/Xylem/ ITT/Willo-Mather Platt/ Kirloskar/ KSB
	Water Meter (Mechanical Type)	As per Plumbing make list
	Welding Rods	Adorr/ Esab/ Advani/ Victor/L&T
	Y Strainer	Emerald/Zoloto /Sant/ Castle/ Leader
HOT WATER GENERATOR SYSTEM		Approved Make
	Air release valve/ Insulation/ Thermometer/ Pressure Gauge	As per Approved makes for Plumbing/ HVAC Works/ Fire Fighting Works
	Ball valve /Check valve/ Y – Strainer/ GI/MS pipes	As per Approved makes for Plumbing/ HVAC Works/ Fire Fighting Works
	Hot Water Generators	Enmax/ Sunmax/ Goodsun / TATA Power Solar/ Thermax/ Rapid Control
	Recirculating Pumps	Grundfos/ DP /Mather Platt – Wilo/KSB/ Kirloskar/ Xylem/ KSB/ ITT
SOLAR PV/ SOLAR HOT WATER SYSTEM		Approved Make
	Solar PV System	Tata BP Solar / Havells / Schneider/ Socomec/ Emmvee/ Thermax / Jackson Solar/ Adani Solar/ Intersolar REIL/BEL/CEL/REC/SOLON/VIKRAM Solar/ABB/MOSER BEAR/WIPRO/SCHNEIDER/GE SOLAR/MICROSON/TRINA JUNCTION BOX-VNT/SUN GARNER/OEM OF SPV MODULES SPV INVERTER- SUNGROW/DELTA/NEOWATT/ SMA/SCHNEIDER MODULE MOUNTING STRUCTURE-AS PER MNRE/MANUFACTURE'S STANDARD SOLAR CABLE XLPO INSULATED (DC)- RR KABEL / POLYCAB / HAVELLS / FINOLEX / LAPP / PARAGON (ELECTRON)/Radsol Energy
	Solar Hot Water System	Solahart / Sol Power/ Tata Power Solar/ Solimpeks/ Intersolar/ Greentek RACOLD/ ELECTROTHERM /RASHMI / PHOTON /

		POLYCAN/ JAIN IRRIGATION/ BOSCH/EMVEE SOLAR/ Jain Solar/Noval Energy
	Butterfly Valve	Audco/Danfoss/Honeywell/ Zoloto/ Castle/ L&T/ Castle
	Check Valve – Dual Plate	Advance/Honeywell/Audco/Zoloto/ Castle/ L&T/ Castle
	Check Valve – Wafer Type	Advance/Danfoss/Zoloto/Honeywell/ Castle/ L&T/ Castle
	CPVC pipes	As per List of Approved Makes for Civil & Plumbing
	GI Pipes	
	GM / Forged Brass Ball Valves	Danfoss/Honeywell/Zoloto
	Heat Exchanger	GEA Eco flex/ Alfa Laval / Danfoss
	Hot Water Re-circulation or other Pumps	DP – Holland/Grundfos /Xylem/ ITT/ Wilo – Mather Platt/ Kirloskar/ KSB
	HDPE Storage Tanks	As per List of Approved Makes for Civil & Plumbing
	Insulation for Hot Water Pipes	Armacell – Armaflex/Eurobatex – Union Foam/ K-Flex/ Thermaflex/ Aeroflex/ Supreme/ Tikidan
	Level Controller & Indicator (Water)	Auto Pump/Cirrus Engineering/Technika /Techtrol/ Minilec
	Pipe clamp & supports	Chilly/ Euroclamp/ Kanwal/FISCHER
	Sluice Valves	IVC/ Kirloskar/ Advance / zoloto/ Castle/ Audco
	Solenoid Valve	Danfoss/ Avcon/ Honey well/ Emerson
	Water Meter	As per List of Approved Makes for Civil & Plumbing
	Y-Strainer	Leader/ Zoloto/ Audco/ Castle/ Emerald/ Rapid cool/ Advance
	Heat Pumps (Air to Water)	Carrier/ Daikin/ Blue Box/ Suntec/ Emerson/ Climaveneta/ Intersolar/Greentek
ELECTRICAL WORKS		Approved make
	11 KV HT Panel/ RMU with 11kV Vacuum Circuit Breaker (VCB) / SF6 Breaker	Lauritz Knudsen (L&T) / ABB / Schneider/ Siemens/ Eaton or their authorized System Integrator/ Channel Partne / ELECTRIC(PIX) /CROMPTON GREAVES/conquerent control System p ltd /Precision System Control KIRLOSKAR- (OEM ONLY)
	33 kV HT Panel/RMU with 33 kV Vacuum Circuit Breaker (VCB) / SF6 Breaker	Lauritz Knudsen (L&T)/ ABB / Schneider/ Siemens/ Eaton/Crompton Greaves/ conquerent control System p ltd /Precision System Control or their authorized System Integrator/ Channel Partner
	ACB (TP,4P) with variable microprocessor	Lauritz Knudsen (L&T) (U-Power Omega)/ Siemens (3 WL)/ Schneider (NW) / ABB (Emax2)/ Eaton (IZMX Series)/Legrand (DX3)/Legrand/C&S (WINMASTER-3)
	Automatic Transfer Switch (ATS)	Lauritz Knudsen (L&T)/ ABB/ Siemens/ Schneider / Socomec/ Hager/ HPL/ ASCO/C&S
	Auto Changeover & Current Limiter (ACCL)	Indo Asian/ Havells/ Salzer/ Elmeasure/ Lauritz Knudsen (L&T)/ ABB / Siemens/ Schneider/ Hager/ Eaton/ HPL/C&S
	Alarm Annumciators/ Auxiliary relays compatible with PLC etc.	Siemens/ Lauritz Knudsen (L&T)/ ABB/ Areva/ Schnieder/ Minilec
	Air Curtain	Euronics/Almonard/ Mitsubishi/ VTS Wings
	Batteries/ SMF Batteries	Hitachi/Panasonic/ Yuasa/ Exide/ Amco/ Amaraja-Amaron/ Tata/ GLOBAL YUWASA/ STANDARD /PRESTOLITE /Luminous
	Battery Charger	Amaraja/ Volstat/Chloride Power System/ Expo-Fyn/HBL /Sabnife/ Statcon/ Max Power (Mahamai) AS PER MANUFACTURE SPECIFICATIONS

	Boom Barrier	FAAC/ Godrej Vigiguard/ Somfy/GunneboKABA/MAGNETIC/SEAA/MAKIM/Nice/Sea/ Dorma kaba/Came/ magnetic
	Bus bar	Jindal/ Hindalco/ Sterlite/ Valco CENTURY
	Bus Ducts & Rising Mains (Sandwich Type) Bus Trunking, End Feed Unit, Tap-off box (plug-in type)	Lauritz Knudsen (L&T)/ Schneider/ C&S/ Godrej/ Legrand/ EAE/ABB/LEGRAND /SIEMENS/GE/Advance/Precision System Control/ conquerent control System p ltd
	Cable Jointing/ Termination Kit	Raychem/ Xicon/ 3M/Denson/Capseal
	Cable Trays & its accessories	MEM/ BEC/ OBO Bettermann/ Airef/ AKG /Indiana/ Legrand/ RMCON/ Honeywell/ PILCO/STEALWAYS/ SLOTCO/Venus/Reeco/ Precision System Control/Steel Krafts/ NEM(Advance)
	Race ways / Floor trunking / wall channels	Legrand/ Honeywell MK/ Schnieder/ AKG / OBO Bettermann/ Precision System Control/Steel Krafts/NEM (Advance)
	Call Bell / Door Bell switches & Buzzers	Havells/ Anchor/ Schneider/ ABB/ Siemens/ Indo Asian/ Panasonic/Legrand
	Call Bell with Video Door Phone	Honeywell/ Hikvision/ Godrej/ Panasonic/ Crabtree/ CP Plus/ Wipro/C&S/Legrand
	Capacitor Banks	Lauritz Knudsen (L&T)/ Siemens / Schneider/ ABB/ Ducati/ Neptune/ Meher/ EPCOS / VISHAY /Legrand
	Ceiling /Exhaust/ Wall fans	Crompton/ Usha/Orient/ Bajaj Electrical/ Havells/ Panasonic / KHAITAN / POLYCAB/Alstom/RR /Almonard/Indoasian
	Coaxial Wires	Finolex/ Delton/ Skytone/ Lauritz Knudsen (L&T)/ KEI/ Bonton/ Gloster/ Polycab/ Belden/ Legrand/AKG/ Havells/ Anchor/RR Kable/Grandlay/Derwiser
	Colour Monitor	Samsung/ LG/ Sony/ Philips/ Panasonic DELL / HP
	Current Transformer/ Potential Transformer	Lauritz Knudsen (L&T)/ Kappa/ AE / Meco/ Gilbert/ Maxwell / PRECISE/ C&S/Automatic Electric
	Cubicle Type Fuse Unit/ RMU	Siemens/ Lauritz Knudsen (L&T)/ ABB/ Schneider/ Eaton/C&S
	Distribution Boards (DB)	Hager/ Havells/ Lauritz Knudsen (L&T)/ABB/ HPL/ Schneider / Siemens/ Eaton/ Anchor/ Polycab/ C&S/ Indoasian/ PANASONIC/ Precision System Control/Vihan/Greatwhite/Legrand
	DG Set – Assembler	Jakson & Company / Jakson Ltd/ Sterling Generators / Sudhir Gensets/ Powerica/ Kirloskar (KOEL authorized OEM) / TIPL (Gainwell) / Greaves Cotton/ Captiva Energy Solutions Pvt. Ltd.
	DG Set – Alternator	Stamford/ Leroy Somer/ Toyo Denki/ AVK-SEG/ Kirloskar (KOEL Green)/ Crompton Greaves /CATERPILLAR
	DG Set – Engine	Mitsubishi/ Perkins/ Volvo/ Caterpillar/ Kirloskar (KOEL Green)/ Baudouin / Greaves Cotton MTU/ WARTSILA/VALVO PENTA
	DG Synchronizing Controller	Woodward/ Dief/ Deep sea/Comap
	Door Frame Metal Detectors	Metscan/ Trust Security System/ ID Tech Solutions/ Smith Detection/ Rapiscan
	DWC (Double Walled Corrugated) Pipe	Duraline / Rex / Carlon/ Emtelle/ Astral/ Gemini/ Supreme/ Polypack/ Finolex/ AKG / CPE/Tirupati
	Earthing System	LPI/ Indelec/ APS/OBO Bettermann/ JMV
	Electrical Motors	ABB/ Siemens/ Kirloskar/ Bharat Bijlee / Crompton Greaves
	Electric Vehicles Charging	ABB/ Siemens/ Schneider/ Tata Power/ P2 Power/ Eaton/

	Stations	Panasonic/ Legrand/Okaya/ Kazam/ Delta/ Lubi/ Phoenix/Gogoro/Labotek/ conquerent control System p ltd/EVI Tech
	Expansion Bellows for DG Exhaust Pipes	Dunlop/ Easyflex/ Kanwal/ Resistoflex/ Dwren
	Fiber Optical Cable	Sterlite/ Finolex/ Belden/ Delton/ Skytone/ Legrand/ RPG/ Corning/ R&M/ Commscope/Paramount
	Fire Survival Cables	Bonton/ Skytone/ Fusion Polymers/ KEI/ Havells/ Polycab / Wrexham/ Finolex/ RR Kable/ Lapp India/Batra Henlay/Rallison/Paramount
	Glands and Lugs	Dowel/ Comet/ Gripwell/ Hex/ HMI/ Raychem/ Jainson/ Skytone/ BRACO/ MULTI /Phoenix
	Hand Gloves & Rubber Mats	Premier Polyfim Ltd/ Polyelectrosafe/ Challenger/ Electromat/ Safe Hold
	High Mast Poles	Valmount/ Bajaj/ Transrail/ Salasar
	HRC Fuse	Lauritz Knudsen (L&T)/ Siemens/ ABB/ Legrand/ Eaton Schnieder/ Hager/C&S
	HT Cables & LT Cables (Power & Control Cables, Solar Cables, Submersible flat cables)	Gloster/ Havells/ Nicco/ Finolex/ KEI/ Polycab/ Bonton/ Rallison/ RR Kable / UNIVERSAL/LAPP KABEL/GRANDLAY / AKG / ANCHOR/ FINOLEX/ PARMOUNT/APAR/
	Hybrid Capacitor Panel – IGBT Based	P2 Power/ ABB/ Neptune/ Lauritz Knudsen (L&T)/ Siemens/ Schneider /Precision System Control/Legrand / conquerent control System p ltd /Batra Henlay
	Indicating Lamps	AE/ Kaycee/ Vaishnav/ Lauritz Knudsen (L&T)/ Siemens/ Schnieder/ Teknik/ ABB/ Panasonic/Phoenix/BCH/GE/C&S/Kappa/AutomaticElectric
	Industrial Plug & Socket Outlets	ABB/ Lauritz Knudsen (L&T)/ Siemens/ Hager/ Schnieder/ Neptune/ Eaton/ Phoenix/C&S
	Insulated Rubber Mat	Premier Polyfilm Ltd/ Polyelectrosafe/ Challenger/ Electro Mat/ Safe Hold / Aeroflex JYOTI/DEEP JYOTI (ONLY ISI MARKED)
	Inverter	Microtek / Luminous / Su-Kam/ Eaton
	Isolators	Siemens/ Lauritz Knudsen (L&T)/ ABB/Socomec/ Schnieder/C&S
	Isolation Panels for Modular OT	Pieco/ Schnieder/ Socomec/ ABB/ Siemens/ Hakel/ Precision System Control
	LED Light Fixtures and Lamps	Philips/ Wipro/ Havells/ Bajaj/ Panasonic/ Surya Roshni/ Lighting Technologies (LT)/ Trilux/ Crompton/ Halonix/ Orient Electric/ HPL/ Jaquar /OSRAM / INSTAPOWER /Regent Lighting
	LED Lighting for Facade	Philips/ Wipro/ Trilux / Allurays/ RZB/ BEGA/ Havells/ Bajaj/ Surya Roshni / Lighting Technologies (LT)/ Panasonic/Crompton/ Halonix/ Orient Electric/ HPL/ Jaquar/ Regent Lighting
	Emergency/Exit Lighting System & Components , fixtures	Eaton/ABB/Hochiki/Lifeguard/G-Tech
	Lighting Automation & Control System	Wipro/ Siemens/ Philips/ Schneider/ ABB/ Lauritz Knudsen (L&T)/ Lutron/ Crestron/ Legrand/ Havells/ Honeywell/

		Crompton/ Halonix/ Orient Electric/ Trilux/ Panasonic/ Jaquar BAJAJ/ OSRAM/Regent Lighting/ Lighting Technologies (LT)
	Lightening Protection System & Earthing System	Phoenix/L&P ELECTRO/ LPI/ Indelec/ APS/OBO Bettermann/ Hakel/ JMV/ ABB/ Dehn DEHN / FURSE
	LT Panels / DG Synchronizing Panels/ Capacitor Panels /Feeder pillar	Lauritz Knudsen (L&T)/ ABB / Schneider/ Siemens/ Eaton/C&S/ Legrand or their authorized System Integrator/ Channel Partner FOR TYPE TESTED ASSEMBLY (TTA), LT PANEL (OEM OR AUTHORIZED FRANCHISE ONLY). SUB PANEL BOARDS/FEEDER PILLARS (OEM OR AUTHORIZED FRANCHISE ONLY) ADLEC/C&S/ TRICOLITE/SIMON FABRICATOR JAMMU/ MILESTONE / ASPL(NOIDA)/ Lauritz Knudsen (L&T)/ ZENIYA/PRISTINE/PRECISION System Control / Marine/SPC Electrotech Pvt Ltd/Neptune/NG Energy/Coronet/System Power Control/Advance Panel Control System/ Associated Switchgear Pvt Ltd/Application Control Panel/KEPL/Legrand
	MCBs / RCCB/Isolators / RCBO / Change over switch/ Time Switch	Hager/ Havells/ Lauritz Knudsen (L&T)/ Schneider/ ABB/ Siemens/ Eaton/ Anchor/ Polycab(Poly Shield) /HPL/ C&S/Indoasian/HONEYWELL(SENTRY)/PANASONIC/Vihan /Legrand/ Greatwhite
	MCCB with Variable Microprocessor based (O/C, S/C, E/F) / Thermo magnetic releases	Lauritz Knudsen (L&T) (D-Sine)/ Schneider (CVS)/ ABB (Tmax)/ Siemens (3VA)/ Eaton (NZM Series)/Legrand(DPX3)/ C&S (WIN Break)/Hager
	Measuring Instruments (Analog Meter)	Lauritz Knudsen (L&T)/ AE/ MECO/ Rishabh/ Schnieder/ Eaton/Legrand
	Measuring Instruments (Digital Type) – Multifunction Meter (MFM)/ KWH Meter/ Voltmeter/ Ammeter/ Dual Source Energy Meter/ Powerline Transducers	Lauritz Knudsen (L&T)/ Ducati/ Phoenix/Conzerv/ Secure/ Siemens/ Schnieder/ ABB/ Eaton/ Socomec/ Elmeasure/ Minilec/ Rishabh/ Neptune / HPL/TRINITY/ AE DIGITAL METER/KRYKARD/ENERCON/ AMTL/Automatic Electric/C&S/Legrand
	Modular Switches, Socket Outlets, USB Charger Sockets, Fan Regulators, Dimmers and moulded cover plates for switchboards with modular boxes	Havells (Crabtree-Murano/ ATHENA)/ Schnieder (Zencelo/ Livia / CLIPSAL X)/ Wipro (North West- Venia)/ ABB (Tvisha/Ivie) / Anchor (Roma Plus)/ Honeywell (Blenze Plus)/ Legrand (Myrius/ ARTEOR)/ Panasonic (Europa/ VISION)/ Lauritz Knudsen (L&T) (Englaze)/ Indoasian (Shynora) /Honeywell (Horizon/Evo) /POLYCAB (LEVANA)/Great White (Trivo)/Vihan/C&S (PRIMO PLUS / ELUSIO)/Hager/Crabtree(Athena)
	Motor Protection Circuit Breaker (MPCB)	Lauritz Knudsen (L&T)/ Siemens/ ABB/ Schnieder/ Eaton/ Hager/ Legrand/C&S
	MS Conduit & Accessories	BEC/ AKG/ Steel Krafts/ RMCON/ JPC Pipes/ Anchor /NIC/RMCON/ TARUN/ ATUL
	NIFPES (Nitrogen Injection Fire Prevention cum Extinguishing System)	CTR/ Vendere Sales Services (I) Pvt. Ltd/ Tectonicus Services (India)Pvt. Ltd.
	Nurse Call System	Schrack Seconet/ Honeywell/ ZKR/ Rauland-Borg /Heinrich
	Occupancy Sensors	Phillips Dynalite/ Schneider/ Legrand/ Wipro/ Lauritz Knudsen (L&T)/ Havells/ ABB/ Siemens/ Panasonic/ Surya Roshni/Lutron/Crestron/Helver/Regent/Hager

	On Load Tap Charger	CTR/ OLG/ EASUN MR
	Package/ Unitised Substation	ABB/ Siemens/ Schnieder/ C&S / Precision System Control
	Push Buttons	Siemens/ Lauritz Knudsen (L&T)/ ABB/ Schneider/ Teknik/ Legrand/ Eaton /BCH/GE/C&S
	PVC insulated FRLS – Copper, 1.1 KV grade flexible wires	Gloster/ Havells/ Batra Henlay/ KEI / Polycab / Finolex/ Rallison/ RR Kable/ Bonton/ NEC/ AKG/ Anchor / UNIVERSAL/LAPP KABEL/GRANDLAY / RALLISON / AKG / ANCHOR /Paramount/ESC Cables/Vihan/Apar
	PVC Conduit, PVC Raceways, PVC Casing/capping, uPVC Wall Trunking & their accessories	Clipsal/ Polypack/ BEC/ Norpack/ JPC Pipes/ Hensel/ Atul/Honeywell/ OBO Bettermann/ Legrand/ Anchor/Greatwhite/AKG/PRECISION/ NORPACK/ POLYCAB/ESC/ TARUN
	Relays /Contactors/Timers/ Single Phase Preventer/ Starters	Siemens/ Lauritz Knudsen (L&T)/ Schneider/ ABB/ Legrand/ Eaton /GE /TEKNIC/ Crompton Greaves STARTERS- Lauritz Knudsen (L&T)/SIEMENS/CROMPTON/GE/ABB/BCH/C&S
	Rotary Gear Pumps	Rotodel/ Kirloskar/ KSB
	Selector Switch	Siemens/ Lauritz Knudsen (L&T)/ Teknik/ Salzer/ ABB/ Schnieder/ Legrand/ Eaton/ KAYCEE/ C&S/Kappa/Automatic Electric/C&S
	Street Light Poles/ Post Top Lanterns/ Bollards/ Gate Lights with Light Fixtures	Philips/ Wipro/ Havells/ Bajaj / Panasonic/ Surya Roshni / Lighting Technologies/ Crompton/ Orient Electric OCTAGONAL STEEL POLE- /VALMONT/PARUTHI ENGINEERS PVT. LTD.CONICAL/DECORATIVE POLES/ VALMONT/Vihan/ Kaselec/ Valmont/ twinkle Lite/Twinkle Luxmax/ Hi-Lite
	Solar Street Light Poles with Fixtures & all accessories (All in One)	Philips/ Wipro/ Havells/ Bajaj / Panasonic/ Surya Roshni / Lighting Technologies/ Crompton/ Orient Electric/Vihan
	Surge Protection Device (SPD) & Surge Arrester /Diverter, Surge Suppressor	Tercel/ ABB/ Siemens/ Hager/ Eaton/ Phoenix/ Legrand/ Lauritz Knudsen (L&T)/Schneider/ OBO- Bettermann
	SCADA & BMS System/ Modbus card	Schneider/ Lauritz Knudsen (L&T)/ Honeywell / Phoenix/Siemens/ ABB/ Legrand/ Panasonic/ Azbil/Edward/Tyco
	TV Splitter Box/ Tap-off	Zinwell/ Novatron/ Catvision
	TV Socket Outlets	Systemax/ Belden/ Simone/ Honeywell/ Legrand/ Havells/ Hager/ Panasonic/ ABB/ Schnieder/ Siemens/ R&M/C&S
	Terminal Block/ Connectors	Dowells/ Elemex/ Wago/ Phoenix Connectwell BCH/INDUSTRIAL CONTROL/ L-MAK/ JAINSON/ SCHNEIDER/ Lauritz Knudsen (L&T)
	Transformer (Oil Type/ Dry Type)	ABB/ Siemens/ Kirloskar/ Power Star/Voltamp/ Schneider/ Crompton/ Universal Power BHARAT BIJLEE
	Package/ Unitized Substation	ABB/ Siemens/ Kirloskar/ Power Star/Voltamp/ Schneider/ Crompton/ Universal Power BHARAT BIJLEE/ Intrans/ Unipower/ Resitech
	Trivector - Meter (Digital type)	Lauritz Knudsen (L&T)/ Siemens/ Socomec/ Schnieder/ HPL/ ABB/Legrand
	Uninterruptible Power Supply (UPS)	Emerson (Vertiv)/ Schnieder (APC)/ Eaton/ Socomec/ Numeric (Legrand)/ Toshiba Mitsubishi (TMEIC)/Delta/ Riello/3EM/Labotek/Gutour/Siemens/Prostarm/Fuji Electric

	Variable Frequency Drive (VFD)	Lauritz Knudsen (L&T)/ Siemens/ Danfoss/ ABB/ Schneider/ALLEN BREDLY/ABB
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List of Approved Makes for 66/11 KV Substation

S. No	Equipment/ Material	Approved Manufacturer Name
1.	72.5 kV SF6 Circuit Breaker	ABB/ Crompton Greaves/ Alstom/ Siemens/ Schnieder
2.	66 kV Isolators	Siemens/ ABB/GR Power/ CGL
3.	66 /11 kV Power Transformer with OLTC	Crompton Greaves/ Schneider/ ABB/ Bharat Bijlee/ Siemens/ Voltamp/ Power Star
4.	66 kV CT	Mehru/ CGL/ Kappa/ Vishal
5.	66 kV PT	Mehru/ CGL/ Kappa/ Vishal
6.	60 kV, 10 kA (Class III) Gapless Lightning Arrestor with surge counter & insulating base.	Oblum/ Elpro/ CGL/ Lamco
7.	66 kV Control relay panel	ABB/ Schneider/ Siemens/ Crompton Greaves/ Alstom
8.	Insulators	Aditya Birla/ Suvarna/ JSI/ IEC HV Insulators
9.	ACSR Conductor	Sterlite/ Diamond/ Hindustan/ Mahavir Apar
10.	Clamp and Connectors	Klemenn/ Rashtriya Udyog Ltd.

FIRE FIGHTING WORKS		Approved Make
	Air Release Valve/Air Cushion Tank/ Air Vessel	Zoloto/ Advance/ Leader/ Audco/ Castle Giacomini/ Sant/DRP/Lifeguard/Chawla/Firex/Getech/Newage/ TBS/SKG/ARCO
	Alarm Valve & Hydraulic (Alarm motor with coupling)	HD fire protect/Tyco/ Viking/ Newage Victaulic/Smith Copper/Anvil
	Ammeter/ Voltmeter/ PF/ kW/ Hz/ Meter /Energy Meter/ Multimeter	As per respective electrical make list
	Anchor Fastener	HILTI / Fischer / Wuerth/ Bosch/ 3M
	Ball Valves	L&T/ Audco /Zoloto/ Advance/Emerald/ KSB/ Sant/ Castle/Guards
	Battery	Exide / AMCO /Amararaja/ Panasonic/ Amaron/Standard
	Butt welded fitting (UL Listed) & accessories	Bharat Forge/ VS Forge/True Forge / DRP-M/ Metline Industries/ United Forge Industries
	Butterfly Valves	L&T/ Audco/ Zoloto / Advance/ KSB/ Castle/ Guards
	Cable lugs and glands	As per electrical make list
	Cables	As per electrical make list
	Check Valve/Foot Valve/Sluice Valve/ NRV	L&T/Audco / Zoloto/ Advance/KSB/ Sant/ Leader/ Castle/ Guards
	Control / Potential / Current Transformer	AE/L&T/Kappa
	Deluge valve/ Solenoid valve/ Spray nozzle	Victaulic/Smith Copper/Anvil
	Diesel Engine	Mitsubishi/ Perkins/ Volvo/ Caterpillar/ Kirloskar (KOEL Green)/ Baudouin /CromptonGreaves /Greaves Cotton
	ELCB	As per electrical make list
	Epoxy Paint	As per Civil Works make list
	Fire Buckets	Safex/ Minimax/ Cease Fire/ Peter Autokits/ ASES /

FIRE FIGHTING WORKS		Approved Make
		Padmini/ Safegaurd/ Swastik
	Fire Stopper/ Sealant	Hilti/ 3M/ OBO-Bettermann/FISCHER
	Fire Extinguishers	Minimax / Newage/ Eversafe/ Tyco –Johnsons Control/ Ceasefire/ Exflame/Life Guard/ Safex/ Padmini/ Peter Autokits/ ASES /Superex/Omex/Kanex/ Guards
	Fire Hydrant Valves/ Fire RRL Hose Pipes / Fire Hose Reels/ Fire Man's Axe/ Gun metal short branch pipe/ 2/ 3/4 FB inlet/ draw Out connection/Hose Box/ Hose reel drum /Nozzle/ blank Caps & Chains / Coupling	Ceasefire / Newage /Minimax/ HD/ Tyco/ Exflame / Padmini/ ASES/Safegaurd/ Lifegaurd/Swastik /Firex/Ceasefire / Omex/ Guards
	Fire Pumps	Mather & Platt (WILO)/ Grundfoss/ KSB/ Kirloskar/ Xylem/ITT/ Armstrong Fluid Technology
	Electrical Motors	ABB/ Siemens/ Kirloskar/ Crompton Greaves/ Bharat Bijlee /Grundfos/NGEF
	Flow Meter	System Sensor/ Anergy/ Emerald/ Rapid Cool/ Omicron
	Flow Switch	Potter / Rapid flow/ Danfoss/ Viking/ Belimo/ Honeywell/ Anergy/ Omicron/System Sensor/ Plotter/ Jhonson Control/ H-Guru
	Foot Valve (Cast Iron/ Gunmetal)	Kirloskar / Zoloto/Advance/L&T/ Sant/ Leader / DRP
	Forged Steel Fitting &accessories	Bharat Forge/ V.S. Forge/True Forge / DRP-M/ Metline Industries/ United Forge Industries
	GI Clamps	Hilti/ Gripple/ HIRA-Walraven/ Mupro/ OBO Bettermann/ Camry/Chilly/GMGR/FISCHER/Phoenix
	GI / MS Pipes	TATA/ Jindal/ SAIL/ Maharashtra Seamless Ltd. / Prakash Surya
	Globe Valves - Gunmetal	Audco / Zoloto/ Advance/ L&T/ Sant/ Leader/ Guards
	Over Load Relays	As per electrical make list
	Pipe coat material (pipe protection)	Pypcoat / Makphalt / Safex
	Modular Pipe Supports, Brackets, Hanging System for HVAC, MEP, Plumbing & Roof Top Equipment	Hilti/ Gripple/ HIRA-Walraven/ Mupro/ Cooper Corporation / Chilly/ GMGR /CAMRY//FISCHER
	Power/ Auxiliary Contactors	As per electrical make list
	Pressure Gauge	Fiebig/ H. Guru/ HD/ BRC/ Warea/Danfoss/Fiebig/Switzer/Plotter
	Pressure Switch	Indfoss/ Switzer/ Danfoss/ Honeywell/ Sustem sensor/ plotter Johnson
	Push Buttons/ Indicating Lamps LED	As per electrical make list
	Single Phase Preventer	As per electrical make list
	Solenoid Valve/ Spray nozzle	HD / Tyco/Danfoss/ Honeywell
	Structural Steel for Supports	As per Civil Works make list
	Sprinkler Heads (Sidewall/ Upright/ Pendant)	Grinnel /Tyco / Viking / HD/ Victaulic / Monsher/Viking/ Lifeguard/ Guards
	Steel flexible extension	Eversafe / Newage/ Tyco/ Viking/ Victaulic/Newage/Youngjin/Lifeguard/ Guards
	Vibration Eliminator Mounting	Resistoflex / Dwren / Kanwal/ HIRA-Walraven/ Dunlop/

FIRE FIGHTING WORKS		Approved Make
	Pads & Pipe Connections	Easyflex / Ewren
	Weld Electrodes	Advani/ ESAB/ Victor/ Adorr/ Essar
	Pot Strainer	Emerald/ VTM/ Rapid Cool/ Zoloto/ Castle
	Y- Strainer	Zoloto/Audco/Emerald/Advance/Leader/ Castle
	Expansion Rubber Bellows	Resistoflex/ Easyflex/ Kanwal/ Dunlop/ Dwren
	Gas Flooding Sytem for Fire Suppression in Data/ LV Rooms	Tyco/Newage/Minimax/Viking/ Firetrex/ Firetrace/ Kidde/ Jactone/ Honeywell/ Siemens/ HD/ ASES Pyroguard Engineers / Ceasefire /UTC / Safe fire/ Life guard/TraceFire/Lifeguard
	Linear Pnuematic Heat Detection Tube System for Panels	Firetrex/ UTC/ Tracefire/ Jactone/ ASES/ Rotarex/ SVS Buildwell/ Firetrace/ Kidde/ Tyco/ Siemens/ HD
	Clean Agent Fire Extinguisher	Kanex/Tyco/Newage/SVS Buildwell/ Minimax/ Lifeguard/Ceasefire/ Kidde/ Siemens/ HD / ASES
	Fire Curtain & Control Panel	Koneba (Spain)/Intisi (Spain)/Stobich (Germany) / Window Techs.

FIRE ALARM SYSTEM		Approved Make
	Intelligent Addressable Fire Alarm System - Panel /Detectors/ Hooters/ Manual Call Point UL Listed/ Control Module/ Monitor Module/ Control Relay Module/ Short Ckt. Isolator/ Fire Annunciation Panel / Response Indicator	Honeywell/ Bosch/ Simplex / Siemens / Schrack-Seconet /GAMEWELL(USA) / Fenwell /Panasonic Detnov (SPAIN) /JOHNSON CONTROL/Eaton/Detnov/Edwards
	Telephone Talkback for Fire Alarm System	Honeywell/ Bosch/ Simplex / Siemens / Schrack-Seconet/ ASES/ CPS
	Fire Survival Cables	Bonton/ Skytone/ Fusion Polymers/ KEI/ Havells/ Polycab / Wrexham/ Finolex/ RR Kable / Lapp India/ Batra Henlay/NO BURN / AVOCAB
	Terminal Strips	Dowell's/ Elemex/ Wago/ Phoenix Connectwell
	MS Conduits & accessories	Same as respective electrical make list

LIFTS		Approved Make
	Lifts& Escalator	OTIS/ Kone / Mitsubishi/ Schindler/ Johnson / Thyssenkrupp (TK Elevatoar)/ECE Elevator (Birla Group)
	Dumb Waiter Lifts	OTIS/ Kone/ Johnson/ Schindler/ Sigma/ East India

LV System/ PA System/ CCTV System/ Access Control System/ Door Interlocking System/ MATV System/ Information Display System		Approved Make
	Door Controller, Card Reader, Biometric Reader, Access Control Server Software, Smart card	Honeywell/Bosch/HID/Spectra/ Idemia-Morpho / Virdi/ Lenel/ Siemens/ TOA SX2000
	Electro Magnetic Lock	Cisa/ Faraday/Trimec/ Honeywell/ Bosch/ HID/Spectra/ Idemia-Morpho/ Virdi/ Lenel/ Dormakaba/ Siemens
4.	CAT 6/6a Wire/Accessories – Jack Panel / Face Plate	Belden/ Simone/ Panduit/ Commscope/ Cisco/ Legrand/TADIRAN/ Finolex/ Delton/ Skytone/ KEI/ Bonton/ R&M/Mollex/ Digilink/ Systimax/

		Polycab/Havells/Avaya /Anchor/Schneider/Derwiser Jack Panel / Face Plate- Huwaei/ Belden/ Panduit/ Commscope/ Simone/ RiT
5.	CCTV Camera/ NVR/VMS/Central Monitoring Software / Other Items	Honeywell / Pelco /Cisco /Bosch/ Axis/ GVD/Sony/Panasonic/Solvision/Mobotex/Impulse/ Avigilon/ Heinrich
6.	CD / DVD Player	Bosch/ Honeywell/ Bose / Sony/ LG Panasonic/ Samsung
7.	Door Interlocking System	NRH/ Eltech/ Avon
8.	PA System, Amplifier, PA Speaker, Voice Controller, Paging Station, Microphone	Bosch/ Honeywell/ Bose/ Beyerdynamic /Clear One /Clock Audio/ Sony/ AKG-Harman/ Shure/ Schrack (g+m)/Heinrich/ Electrovoice , Beyer Dynamic, D&B Audio Technik, Martin Audio, TOA SX2000/ Heinrich
9.	RG-6, RG-11Wire/ Coaxial Cables	Finolex/ Delton/ Skytone/ L&T/ KEI/ Bonton/ Gloster/ Polycab/ Belden/ Legrand/ Havells/ Commscope/Lappable/ RiT
10.	Speaker Wire	Bonton/Delton/Polycab/KEI/ Legrand / Kramer/ Belden/ Commscope/Klotz /Audac/Tasker/RiT
11.	LED Video Wall/ Flat Panel Display	LG/ Samsung/ Christie/ NEC/ Planar/ Sony/ Philips/ Panasonic
12.	Power Amplifier/Mixer Amplifier/Control voltage/Rated power Volume Control/Musical Instrument/Didital Public Address and Emergency Sound System Controller/ Announcement Console/Digital call Station/ remote call system interface	Honeywell/Bosch/Siemens/Bose/Yamaha/Shure/JBL/Poer soft/Audac/Yamaha Digital podium/Heinrich
	CD Player/Audio CD music source	Philips/Sony/Panasonic

HVAC SYSTEM		Approved Make
	Adhesives for Insulation	Pidilite/ Superlon / Armacell /FOSTER/HENKEL./ Paramount Adhins/ENIFIX
	Adjustable Frequency Drive/ Automatic AFD Bypass/ Pump Controller/ Differential Pressure Sensor/ Transmitter	Xylem-ITT/ Grundfos/Armstrong/ Anergy or as per OEM for Water Pumps T&A /FLOWCON / OVENTROP/ ANERGY
	Air Cooled Package Units	Voltas/ Hitach/ Daikin/ Carrier
	Air Curtains	Euronics/ Almonard/ Mitsubishi/ VTS Wings
	Air & Dirt Separator/ Dirt Separator	Spirotech/ Optivent / Flamco/ Armstrong/ Anergy/ Emerald/ Calefi/ Spirotherm
	Air Distribution (Ducting) - GI/GSS Sheets	SAIL / TATA Steel/ Jindal/Truestar
	Air Handling Units with Coils (AHU)	Zeco/ Edgetech/ VTS/ Waves/ Flaktwood/ Balance Air/ System Air /Aermec/

		Nutech/York/VTS/Humidin/Casilica/Carrier/Waves/MEI/Tristar Aerodynamics/Wasef/Climcone
	Air Louvers – Fresh/ Exhaust	Titus/ Trox/ Systemair/Caryaire/ Mapro/ Airflow
	Air Washer	Zeco/ Waves/ Edgetech/ VTS/ Humidin Systemaire /Ambassador /flaktwood/ casilica/humidin /brightflow/ Tristar Aerodynamics/Climcone
	Air Bi-polar Ionizers / Air Purification System/ Air Quality Monitor Instrument/ Air Ion Meter	Plasma Air/ Aerisa/ Magneto/ RGF/ Global Plasma Solutions/Intelligreen
	Aluminium Sheet for Ducts	Jindal/ Hindalco/ Sterlite / (Virgo) BALCO / NALCO
	Automatic Air Vent	Anergy / Rapid Cool/Emerald/CIM/ Castle CALEFFI/SPIROTECH/OPTIVENT / RAPID CONTROL
	Axial Flow Fans	Kruger / Systemair /Greenheck/ Wolter / Nicotra / Airflow / Maico Ventilation (Dynair) COMEFRI / NICOTRA / HUMIDIN/Tristar Aerodynamics
	Balancing Valves (Water Duty)	Advance / Audco/ L&T/ Honeywell/ Danfoss/ Belimo/ Castle/JCI/ KITZ/ ANERGY / ZOLOTO
	Ball Valves (With & W/O Strainers)	Audco /KSB/Advance/ L&T /Zoloto / Castle/ Danfoss /AXIN/ADVANCE/L&T/JCI/CIM / ARCO /KITZ /
	Butterfly Valves (Water Duty)	Advance / Audco/ L&T/Zoloto/KSB/ Castle/ Danfoss JCI/ ANERGY / HONEYWELL/ KITZ/ Kirloskar/Sant
	Cable Lugs/Thimbles/Glands	As per Approved Makes of Electrical Works
	Cable Tray	As per Approved Makes of Electrical Works
	CAV Box/ VAV Box	Trox/ System Air / Ruskin Titus /Honeywell / Johnson's Control/Belimo/ Danfoss/ L&T
	Centrifugal Fans/Fan Section/Plug Fans	Kruger / Greenheck /Comefri/ Wolter/ Nicotra/ Systemair/ Airflow/ Maico Ventilation (Dynair) VTS/ HUMIDIN
	Check Valve/ Foot Valve/ Sluice Valve/ NRV	Advance / Audco/ L&T/Zoloto/ KSB/ Sant/ Leader/ Castle KITZ/ANERGY/
	Chillers	Daikin / Carrier / Trane / York/ Dunham- Bush/ Voltas/Kirloskar
	Chilled Water Pump (Primary/Secondary)/ Condenser/Hot Water Pumps etc.	Armstrong / Grundfoss/ Xylem/ ITT/ KSB/ Kirloskar/ Wilo-Mather+Platt /YORK / TRANE / CARRIER / DAIKIN-MCQUAY/Tyco
	Chilled Water Cassette Unit	Carrier/ Trane/ Daikin/ Johnson Controls ZECO / EDGETECH / SYSTEMAIRE / FLAKTWOOD/ NUTECH/YORK/VTS/HUMIDIN/CASILICA/ SINKO/AERMEC/Wasef
	Control Cables	As per Electrical Makes
	Cooling Tower	Bell / Paharpur/ Flowtech/ Baltimore/ Mihir ADVANCE / AIR COIL/MARLEY/EVAPCO/Delta
	CPRX Compound/ Tar felt	Shalimar tar product / Asian / Pidilite
	Dehumidifiers	Bryair/ Origin/ Condair/ Dehumidifier India
	Dry Scrubber / Wet Scrubber	Rydair/ Trion/ Honeywell/ Waves/ Zeco/ Edgetech/ Espair
	Duct Dampers/ Grills/ Diffuser/	Caryaire/Systemair/ Dynacraft /Airflow (Mapro)

	VCD/ Collar Damper etc.	CONAIRE/BRIGHTFLOW/RUSKIN – TITUS / / AIR-MASTER/COSMOS /Pineair/Caryaire / Tristar Aerodynamics/Truestar
	Electric Motor	ABB/ Siemens/ Crompton Greaves / Baldor/ Kirloskar/ Bharat Bijlee/ Marathon
	Electric Motor (Fire Rated)	Marathon/ Havells/ Baldor / Rotomotive/ ABB/ Kirloskar
	Expansion Tank	Xylem-ITT/ Armstrong/ Grundfos /Flamco/ Anergy
	Factory Fabricated Duct & Flanges	Rolastar / Zeco / Ductofab / Technofab/ GPS Spiro/Dustech/ Zeco Aircon/Edgetech/Ralastar/ Ecoduct/Waves/MEI
	Fan Coil Units with Fans (FCU)	VTs/Flaktwood/Daikin/Carrier/Bria/Johnson Control/ Caryaire/ZECO / EDGETECH / SYSTEMAIRE/FLAKTWOOD/NUTECH/YORK/ HUMIDIN/CASILICA/TRANE/SINKO/AERMEC/Bria/ Wasef/ Tristar Aerodynamics/Climcone
	Fasteners (ETA approved)	Hilti / Fischer / Wuerth/ Bosch/ 3M
	FCU Copper Connection Set/ FCU Link	ATS/ Oventrop/ CSI/ Anergy/FCU Kit - Caleffi/ CIM/Bria
	Filters - Pre/ Fine/ Hepa	Thermadyne / Spectrum/ Camfil/ American Air Filter
	Fire Damper Actuator	Belimo/ Siemens/ Danfoss/ Honeywell/ Johnson
	Fire Dampers / Smoke Dampers	Trox/ Greenheck/ Ruskin/ Titus/ Systemair/ Caryaire/ AirFlow /AIR-MASTER/COSMOS / DYNACRAFT/ Pineair/ Waves/
	Flame Free Jointing of copper pipes	Rapid Locking System/ Maxi Pro
	Flexible Duct Connection	Airflow/Pyroguard / Rolastar/ UP Twiga
	Flexible Pipe Connection	Resistoflex/ Easyflex/ Diamond/ Dunlop /Kanwal
	FRP lining for condenser piping	Owen-corning/UP Twiga/ Binani
	GI/ MS Piping (chilled/condenser/drain/hot)	Jindal / Tata / SAIL/ Maharashtra Seamless Ltd/Prakash Surya
	Globe/ Gate Valve	Audco / Advance / Danfoss/ L&T/ KSB/ Zoloto/ Castle /Axin
	Heat Recovery Exchanger/ Ventilator/ Wheel	Ostberg/ DRI / Flaktwoods/ Heatex/ BryAir
	Hot Water Generators	KEPL / Rapid cool/ Emerald/ Enmax /Sandhu
	Humidifier	KEPL / Rapid cool/ Emerald / Enmax/Danfoss
	Inline Fans	Kruger / Nicotra/ Greenheck/ Ostberg/ Airflow /HUMIDIN /COMEFRI/ Tristar Aerodynamics
	Insulation Materials	Approved Make
	a) Fiber Glass – Aluminium faced Insulation	UP Twiga / Owens Corning/ Kimmco K-flex
	b) Polyurethane Foam (PUF) Insulation	Styrene Packaging & Insulations/Lloyd Insulations/ Supreme
	c) Nitrile Rubber Insulation with antimicrobial properties	K-Flex/ Superlon/Armacell/ Supreme/ Aeroflex/ Aerocell/ Aerofoam (Hira) /ARMAFLEX / A- FLEX/Eurobatex/Vidoflex/ Paramount
	d) XLPE Insulation	Supreme/ Vidoflex/ Trocellene/ Aerofoam (Hira) Aeroflex/ Paramount/Aerolam
	e) Expanded Polystyrene Insulation	Styrene Packing/Mettur/ Beardsell SHI / TOSHIBA/TROCELLIN/THERMOBREAK/P R

		Packaging
	Laminar Flow HEPA Tent	Systemair/TROX/American Air Filter/ Conaire/ Thermadyne/ Airtech
	Magnehelic Gauges	Mitbraus Instruments/ Dwyer / Omicron
	Motorized Butterfly Valve	Honeywell/Belimo/Danfoss/Siemens VICTAULIC/ ADVANCE / ANERGY / AUDCO / KITZ
	Modular Pipe Supports, Brackets, Hanging System for HVAC, Roof Top VRF/ VRF Equipment	Hilti/ Gripple/ HIRA-Walraven/ Mupro//FISCHER
	Paints	As per Civil Works Makes
	Pre insulated Ducts	Pal/Zeco/ ALP/ Kingspan/ Spiro / UP Twiga Asawa/ P3/ TD
	Pipe Clamps, Hangers, Suspension Supports etc	Easyflex/Resistoflex/Diamond/ Hira-Walraven
	Pipe Supports-PUF	Llyod insulation/ Melanpur/ Beardsell
	Power & Control Cables	As per Electrical Makes List
	Pressure / Temperature Gauges	H. Guru / Feibig / Warree/ H.D./ Omicron EMERALD/BRC/Anergy
	Propeller Fans	Crompton/ Khaitan/ Alstom/ Bajaj/GE/ Havells/ Maico Ventilation (Dynair)/ Marathon/ Kruger/ Greenheck/ Flaktwood/Zeco LTI/ Tristar Aerodynamics
	Pressure Independent Balancing & Control Valve – 2 Way	Siemens/ Danfoss/Oventrop /Belimo/ Castle/ Anergy/ Honeywell/ Johnson Controls/ Advance OVENTROP
	Precision AC Units	Schneider/ Vertive/ Stulz/ Carrier/ Daikin/ Hitachi/ Mitsubishi
	Purge Valve/ Drain Valve	Audco/ Advance / Anergy/ Zoloto/ Castle/ Advance
	PVC /uPVC Pipes	Polypack/ Supreme/ Astral/ Finolex/ AKG
	Pot Strainer	Emerald/ VTM/ Rapid Cool/ Castle/ Advance / SANT/SPURION
	Red Oxide/ Zinc Chromate Primer	As per Civil Works Makes
	Refrigerant Copper Pipes	Mandev Tubes/Rajco Metal/Mehta Tubes (Max Flow)/ Kwality Tubes (Raj State)/Met-Tube/Rajco/Total Line/ Mandav Tubes/ Jindal Refrigeration/RR Shramik
	Room Thermostat	Honeywell/ Johnson/ Siemens/ Danfoss Schneider BELIMO/
	RP Tissue	UP Twiga/ Styrene Packing/ National Industrial Co. OWENS CORNING/
	Split AC Units/Hi wall Unit	Toshiba/ Daikin/ Hitachi/ Carrier/ Voltas/ Lloyd (Havells)/Mitsubshi Electric/Ogeneral/Wasef
	Starters/ Change over switch/ Push Buttons/ Relays/ Indication Lamps/ Rotary switches/ 1-phase preventor/ Soft starter/ MCB/ MCCB/ ACB/ Contactor etc.	As per respective Electrical Makes
	Strip Heater	Das Pass/ Escorts/ KEPL
	Structural Steel for Supports	As per Civil Works make list
	Thermostat / Humidistat	Honeywell / Johnson / Siemens / Schneider/ Omicron DANFOSS /BELIMO/H Guru
	UV & Weather protective Coating	Pidilite/ Foster/ Amicon/
	UVGI System (Ultra-Violet Germicidal Irradiation System)	Ruks/ Alfa UV/ Sterile Air/ American Ultra Violet/ Philips /UV Air/ Intelligreen/Adair/Magneto

	V-Belt	Dunlop/ Fenner/ Hilton
	Vacuum Degasser	Spirotech/ Optivent / Flamco/ Anergy/ Emerald/ Calefi /COMFORT/SPIROTHERM/ RAPIDCOOL/ ALARCO/ CARRIER/WESSELS
	Variable Frequency Drive	Siemens/ Danfoss/ABB/ Schneider/ L&T/Fiju/Allen Bradley/Alstan
	VRV/ VRF System	Mitsubishi Electric/ Daikin/ Toshiba/ Panasonic/ Carrier/ Voltas/ Hitachi Samsung/ LG/
	Vibration Eliminator Mounting Pads & Pipe Connectors	Resistoflex / Dwren / Kanwal/ Hira- Walraven/ Dunlop/ Easyflex Anti-Vibration Mountings- Getzner/Interlasp/ Kinetic Noise Control
	Water Flow Switch	Honeywell/ Danfoss/ Belimo/ Emerald/ Rapid Cool / Anergy/ Omicron
	Y- Strainer	Zoloto/Audco /Emerald/ Rapid Cool/ Advance/ Castle VICTAULIC/ SANT/SPURION
	Treated Fresh Air Unit (TFA)	Zeco Aircon/Carrier/Greenheck/Flaktood/Toshiba/ Tristar Aerodynamics

IBMS SYSTEM		Approved Make
	IBMS System & Software/ Capacitive Touch Panel/ Direct Digital Controller	Siemens (WinCC)/ Schneider (EcoStruxureTM)/ L&T (iVisionmax)/ Honeywell (Experion PKS)/ ABB (AbilityTM)/ Phoenix/ Johnson Controls Ingersol Rand/Easyio/ Krypton/ Panasonic
	Operator Workstation/	Dell/ Lenovo/ HP/ IBM TOSHIBA/LENOVO/ Krypton/ Panasonic
	Printers/ Photocopy machine	Canon/ Xerox/ HP/ Epson / Krypton /Panasonic
	Network Switch	Cisco/ HP/ Juniper/ Dell/ Ruckus 3-COM/ Krypton /Panasonic/Extreme/ Alcatel Lucent/allied Teleisis/ Nexxus
	Temperature Sensors & Transmitters	Greystone / Honeywell / Siemens / Schneider / Danfoss/ L&T/ Omicron
	Outside Air Temperature + Humidity Sensors	Greystone / Honeywell / Siemens / Schneider /L&T/ Omicron
	Ultrasonic Water Flow Meter	Kampstrup/Landis+Gyr/Shenitech/Siemens/ Honeywell/ Krohne/ Thermax/ Omicron
	Differential Pressure Switches & Transmitters for Air/ Water/Filter status	Greystone / Honeywell / Siemens / Schneider / L&T/Kele/ Danfoss/ ABB/ Omicron Johnson Controls/ /ACI/Dwyer/Krypton Panasonic
	Water Flow Switch	Greystone / Honeywell / Siemens / Schneider / L&T/Weksler/ Danfoss/ Omicron Johnson Controls//ACI/DwyerKrypton Panasonic
	Water Quality Sensors	Honeywell / Siemens / Schneider / L&T/ Danfoss/ Omicron
	pH / TDS Analyser	Hach/Omicron/ Forbes Marshall/ Thermax/ Krohne Honeywell/ Greisinger/ Shenitech/Krypton Panasonic
	Air/ Water Sensors & Switches / Pressure Transmitters/Differential Pressure Switches & Transmitter	Greystone / Honeywell / Siemens / Schneider / Danfoss/ L&T / ABB/ Omicron Johnson Controls/ ACI/Dwyer/Krypton Panasonic
	Colour Monitor	LG/ Samsung/ Sony/ Phillips/ Panasonic

		DELL (ULTRA SHARP)/ HP (PAVILION)/ ASUS// Lenovo/ Krypton Panasonic
	Communication Cables / Signal Cable	Delton/Fusion Polymer/Skytone/Finolex/ Simone/ Commscope/ Bonton/ Polycab / KEI Mollex/ Digilink/Systimax/Belden/LEGRAND/Havells/ Krypton Panasonic
	Copper Conductor Control Cable	UNIVERSAL(SATNA)/KEI/RPG/FINOLEX/LAP CABLE/BELDEN/PIRALI/ Krypton Panasonic
	Current Relay	Veris/Seto/Mamac/Omran/ABB/Omicron/Kele/Minilec/S ontay/ Krypton Panasonic
	Duct Mounted Temperature + RH sensor/ Duct Temperature Sensor	Greystone / Honeywell / Siemens / Schneider / Danfoss/ L&T/ Omicron Johnson Controls/ Siemens/ ACI/Dwyer / BEPL/ Sontay Sauter/Kele/ TAC/ Krypton / Panasonic
	Level Switch / Level Transmitter	Honeywell / Dwyer/ Radix/ Weksler/ L&T/ Minilec/ Omicron Kele/Sontay/Sridhan/Veksler/ ACI/Dwyer /Filpro/Omicron/ Krypton Panasonic/Sontay/ Greystone/ Techtrol
	Flow & BTU Meters & Transmitters	Schenitech / Honeywell / Kampstrup/ Anergy/ Omicron / KryptonPanasonic
	GI Conduits	Same as per Electrical make list
	LAN cables for BMS Network	Mollex/ Digilink/ Systimax/ Belden/LEGRAND/ Delton/Finolex/Polycab/ Bonton/AMP/Havells / AKG/ Krypton Panasonic
	MS Conduits & accessories	Same as per Electrical make list
	Sensor - CO2/ CO / pH / TDS	Honeywell / Hach / Greisinger/ Danfoss/Siemens
	PVC Conduits	Polypack/ BEC/ AKG/ Polycab/ Krypton Panasonic
	Voltage / Current / Power Factor Transducer	L&T / Siemens / Schneider/ ABB/ Minilec SETO Enercon/ SETCO/ Omicron/ Rishabh/ Situ/ Krypton Panasonic

SEWAGE/ EFFLUENT TREATMENT PLANT		Approved Make
	Air Blowers	Beta/ Everest/ Kulkarni / TMVT
	Air Diffusion System	Airfin/Usha Ruba/Rehau
	Air Vent Valve	Oven trop (Germany) / CIM / Rapid Control/ Castle
	Anti Corrosive Tape for Pipe protection	Pypcoat / Marphalt / Cotek/STP
	Ball Valve	Zoloto/Honeywell/ RB/ Castle/ Audco/KSB/Audco/BDK/Fouress
	Bar Screen	KSP/AWMS/PAMM / BS Enviro or equivalent
	Blowers	Kay / Airvac /Everest
	Butterfly valves	Zoloto/Audco/Kirloskar/AIP/Advance/ Castle
	Centrifuge	Apollo/United/B.A Engineering
	Check Valve – Dual Plate	Advance/Honeywell/Audco/Zoloto/ Castle
	Check Valve – Wafer Type	Advance/Danfoss/Zoloto/Honeywell/ Castle
	Chemical Cleaning Pump	WILO / DP/ Grundfos/ Xylem
	Chemical Cleaning Tank	Polycon / Sintex/ Vectus /Supreme
	Chemical Dosing system	Asia LMI/ Seiko/ E – Dose/ Grundfoss
	Dosing Pump	Grundfos / Asia LMI / E-dose / Prominent/Milton Roy/Positive Metering

	Electrical Panel	As per electrical Make List
	Epoxy Paint & Paint	As per List of Approved Makes for Civil & Plumbing
	F.R.P Vessel	Pentair / Aventura / Thermax/ Ion Exchange/ Wastech Infra
	Flow Meters & Flow Transmitters (Digital)	Aster / VATS / Honeywell/ Krohne/ Forbes Marshall/ Thermax/ Omicron /Scientific
	Flow Rota Meter for Suction Pump	UKL / Aster /Scientific
	Foot Valve	Kirloskar/ Kalpana / Leader/ BDK / Sant/ Zoloto/ Castle /Advance/DRP
	G.I. fittings (malleable cast iron)	As per List of Approved Makes for Civil & Plumbing
	G.I. Pipes/ M.S. Pipe	
	High Pressure Feed Pump	WILO / DP/Grundfos/ Xylem
	Level Controller/ Level Indicator/ Level Switch	Aster/Cirrus India/Rockwell Automation/ Minilec/ L&T/ Omicron MINILAC
	MBR Module	GE/ Siemens/ Mitsubishi/ Ion Exchange/ Koch/ Thermax
	MBR Permeate Suction Pump	Wilo / DP/Grundfos/ Xylem/ Kirloskar
	Media	Ion Exchange/ Thermax/ Cooldeck/ Usha Ruba/ MM Aqua/ Pharmatech/ Wastech Infra
	Motor	Siemens/ Crompton & Greaves/ ABB/ Kirloskar/ Bharat Bijlee
	MSEP Vessel	Ion Exchange/ Thermax / BS Enviro or equivalent as per manufacturer's standard
	Multiport Valve	Thermax/ Pentair/ ORG/ Astral/ Praher Aquafiltration
	Non Return Valve	Zoloto/Honeywell/ RB/ Castle/ Audco/ Danfoss
	PH Meter	VATS / Hanna/Aster/Digital/ Honeywell/ Thermax/ Krohne/ Forbes Marshall/ Omicron
	Pipe clamp & supports	Chilly/Euroclamp/Kanwal/ HIRA-Walraven
	PLC / HMI	Schneider / Allenbradley /Mitsubishi/ Minilec/ ABB/ Siemens/ Schneider/ L&T
	Pressure Gauges	Waree / H Guru / Fiebig/ HD/ Omicron GLUCK
	Pressure Switch	Danfoss / Indfoss / Switzer/ Omicron
	Pump Sets i/c Water transfer and sludge disposal/ transfer pump	WILO / DP/ Grundfos/ Xylem/ KSB/ Kirloskar /CRI/TOSHIO
	Resin	Thermax / Ion Exchange/ Auchtel
	Semi Auto Fine Screen	Toro/ KSP / AWMS/ PAMM/ BS Enviro
	Sewage Feed pump/ Drainage / Submersible Pumps	WILO / DP/ Grundfos/ Xylem KIRLOSKAR/ KSB/ CROMPTON Greaves/ TOSHIO/CRI
	Strainers	Emerald / Zoloto / Maharaja/ Castle/ Audco/ L&T/ Sant/ Leader/ Rapid cool
	Transfer Pumps	WILO / DP/Grundfoss/ Xylem/ KSB/ Kirloskar/Mather & Platt
	Tube Settler/ Lamella plates	Thermax/ Ion Exchange/ Sema
	UV Systems	Alpha UV/ Creative UV/ Pentair/Eureka Forbes/ Philips/ Ruks
	Variable Frequency Drives	Danfoss/Schneider/Siemens/ABB/ L&T /Allen Bredly
	Vibration Eliminator / Anti-Vibration Mounting pads	Resistoflex / Kanwal /Banco/Dunlop/ Easyflex/ Hira-Walraven Vibration Eliminator/ Rubber Bellows -/ D'wren

		Anti- Vibration Mounting pads -Cori//Diamond Pipe Support/Emerald
	Water Meter	As per Plumbing make list
	STP/ETP Integrator	BS Enviro/Premieretech/ Advent Enviro/ WAE/Oxybee/Grannus/ Wastech Infra
	SBR System	BS Enviro/ Aldee Water/Oxybee/Premieretech/ Advent Enviro/Grannus/ Wastech Infra

IPABX/ EPABX & TELEPHONE SYSTEMS		Approved Make
	Telephone cable (2/4 /10 / 20/ 50/ 100 PAIR CABLES) / RJ -11 wires	Belden/ Simone/ Panduit/ Commscope/ Cisco/ Legrand/Tadiran/ Finolex/ Delton/ Skytone/ KEI/ Bonton/ Gloster/ Polycab/ Havells/ Molex / Digilink/ Systimax/ Belden/ Bonton / AKG
	Digital/ANALOG PHONES/ Handsets/IP phones	Beetel /Panasonic /Siemens / Alcatel/ Cisco / Coral/Tadiran/Arista/Polycom/Toshiba/Aeonix
	IPABX / EPABX System	Alcatel/ Avaya/ Cisco/ Siemens/ Nortel/ Matrix/ Panasonic/ Coral/ HP/Tadiran/Arista/ Polycom/ Toshiba/Aeonix
	MDF/ IDF	Krone/ TVS/ Finolex/Hensel/A K Electronics
	Telephone Tag Block/ Jack Panel/ Face Plate	Krone/ Phoenix/ Wago/ Belden/ Panduit/ Huwaei/ Legrand/ Commscope /Amp/D-Link/ITL
	MS/ PVC Conduit	Same as electrical make list

DATA NETWORKING & WIFI SYSTEM		Approved Make
	Active Components – Core and Edge Switch, Indoor/ Outdoor access Points, Wireless Controllers & all other active components	Cisco/ Juniper/ HP/ Dell / Alcatel/ Ruckus/ Extreme 3-COM/ Cambium
	Distribution rack and server rack	Rittal/ Netrack/ Cisco/MTS/ APW/ Legrand - Valrack / Chief/ Middle Atlantica/ Schneider Poweride / Impulse / Cambium/ ORTRONICS / SIEMON
	Ethernet Switch / Indoor & Outdoor Wi-Fi device/ Trans-receiver	Cisco/ Juniper/ HP/ Dell/ Alcatel/ Ruckus / Cambium/ Extreme/Alcatel Lucent/ allied/ telesis/Nexus
	Routers	Alcatel/ Avaya/ Cisco/HP/ Juniper/ Ruckus / Cambium
	Server	IBM / Dell/ HP/ Cisco/ Alcatel Cambium
	Firewall	Cisco/ Juniper/ HP/ Fortinet/ Palo Alto/ Check Point/ Cambium
	Passive Components – Cat 6/Cat 6a/ Patch Panel/ Patch Cord/ Face Plates/ Information outlets/ Optical Fiber Cable/ Fiber patch cord/ Pigtailed/ LIU/ Adapters/ Connectors	Belden/ Simone/ Panduit/ Commscope/ Cisco/ Legrand/ Delton/ Skytone/ Bonton/ R&M/ 3C3/Molex/ Schneider / LEGRAND/ SYSTIMAX/BELDEN/ SIEMON/AMP/ SCHNEIDER Fiber Patch cord / Digital/ LIU/ Adapters/ Connectors-Elmex / Connectwell / Essen

Audio Visual System & Stage Lighting System for Auditorium & Conference Rooms		Approved Make
	Symmetrical Line Array Speakers, Flying Subwoofers, Loudspeakers, Power Amplifier, Digital Sound Processor, Digital Mixing Console, Microphone, Loudspeaker Cables	L-Acoustics/ Bose/ Martin-Audio/ Labgruppen/ Powersoft/ Harman/ d&b audiotechnik / JBL / Meyer sound / RCF 48 channel mixer with stage box-Digico/ Tamura / Soundcraft Control Processor- Crestron / AMX / Keydigital/Heinrich
	USB Player	Sony/ Philips/ Samsung/ Bose
	Audio Conference System/ Delegate and chairman Microphones/ Wireless Handheld and Lapel Microphones/ Wired Handheld/ Gooseneck Microphone	Beyerdynamic/Clear One /Clock Audio/ Sony/ AKG- Harman / Sennheiser / Revolabs / Audio Technica/ Brahler/Solvision/Audec/Heinrich
	Digital Signal Processor	Bose / Symetrix / Bi-Amp / Crsetron / BSS / Polycom/Heinrich
	Audio Mixer	Allen & Heath/ Behringer/ RCF
	Equipment Rack	Rittal/ Netrack/ Cisco/MTS/APW/ Legrand - Valrack / Chief/ Middle Atlantica APW President /
	PVC Conduits & Raceways	AKG/BEC/ Hensal/ Clipsal/ Polypack/ Precision/ Great white/Norpack/Finolex/Supreme/Astral/Tarun
	Lighting Controllers & LED Dimmable Lights	Philips/ Wipro/ Havells / Lutron/Trilux/ ERCO/ Zumtobel
	LED Signage Board	Wipro/ Philips/ Bajaj/Instapower/Decon/ Eaton LG / Planer / Barco / Lifesize
	Video Projector	Christie/ Sony/ Panasonic/ Philips/ Epson/ Barco/ Digital Projection/Hitachi/Optoma
	Projection Screen	Draper/ Da-Lite/ Grandview/ Harkness/ Suvira/ Stewart Suvira / Liberty / Draper
	LED Display Monitors	LG/ Sony/ Panasonic/ Samsung
	Video Wall/ Flat Panel Display	Christie/ NEC/ Planar/ Sony/ Philips/ Panasonic/ Samsung/ LG /Delta / Barco / Decktronics
	Document Camera	Lumens/ Elmo/ Wolf Vision/ Sony /Lumens / Vaddio / Datavideo
	Video Conferencing System & Secondary Camera	Sony/ Polycom/ Pelco/ Cisco/ Lumens
	HD PTZ Camera & Joystick	Sony/ Panasonic/ Pelco/Cisco/Bosch/ Lumens Sony / Datavideo / Aver/Mobotix/Impulse/Axix/Avigilon
	Recorder/ Streamer	Lumens/ Mediasite/ Mediapointe Sony / Datavideo / Aver / Lifesize
	Cable Manager/ HD BaseT Transmitters/ HD BaseT receivers/ Scaler Extender/ Modular Matrix Switcher/ Multi Format Presentation Switcher/ HDMI Switcher/ HDMI Distribution Amplifier/ HD BaseT Distribution Amplifier/ Control System/ Wireless/Wired Touch Panel with accessories/ Button	Kramer/ Extron/ Lightware Dual channel and Quad channel amplifier- Crown / JBL / RCF / Powersoft Video over IP Transmitter and Receiver/ Wireless Presenter / HDMI over HDBT Transmitter and Extender and Receiver/ 10 x 1 Digital media Switcher/ 10" Touch Panel with Power adaptor - Crestron / AMX / Keydigital

	Control Panel with Accessories	
	Optical Fibre Cable	Extron/ Crestron/ Kramer/ Belden/ Legrand/ Havells/ Commscope
	Cat 6/6a Cable & Patch cords, connectors, adaptors	Belden/ Simone/ Panduit/ Commscope/ Cisco/ Klotz / Crestron / AMX / Keydigital Legrand/Tadiran/ Crestron/ Molex
	Network switch & Wifi access points	Netgear/ HPE/ Juniper/ Cisco/ Dell/ Alcatel/ Avaya /Dlink
	HDMI / VGA Cable, Microphone cable, control cable, HDMI/ VGA patch cable, Speaker & Microphone cable	Kramer/ Belden/ Klotz/ Extron/ Lightware/ Crestron/ Crystal Speaker cable / Microphone cable-Klotz / Sommer / Gotham HDMI, VGA cable- Klotz / Crestron / AMX / Keydigital/Bose/JBL/EV/Audac/Yamaha
	Stage Lighting – Spot Light, Par Light, Flood Light, Dimmer Pack, Lighting Console, Splitter, Lamp prism with moving head	Canara Lighting/ Effectron/ Stage Technologies/ Harman/ Philips/ ETC/ LEKSA/ Shenoy/ Lutron / ADB /
	Junction Box	ABB/L&T/Havells/Schneider/Legrand/ Hager/ OBO Bettermann/ Siemens/ Neptune Seimens / Leksa Lighting
	Accessories for Lighting Fixtures like C-Clamp, Safety bond & Name plates etc	Canara Lighting/Doughty/Manfrotto / Avenger/ Leksa Lighting
	Curtain Control Panels/ Remote Control/ Motorized Curtains/ Motorised Light Bars / Wings / Cyclorama frame	Canara Lighting/ Effectron/ Stage Technologies/ Shenoy Lighting/ Waagner-Biro/ Leksa Lighting
	RGY Laser	CT Lasers/ Canara Lighting/ Laser World
	Fog Machine & Metal Gobos	Antari/ Canara Lighting/ Robe/ Effectron/ Stage Technologies
	Fire Retardant Curtain, Plastic cyclorama screen	Ompile/ Raymond/ Mayur Comrade
	Lamps	Osram/ Philips/ Wipro/ Bajaj/ Havells
	DMX Signal Cable for DMX Network	Falcon/ Beldon/ Polycab/ Finolex/ Beldon/ Canara/ Leksa Lighting
	DMX Lighting Controller & DMX Splitter	Avolites/Lite-Puter/Zero 88/ Canara Lighting/ Leksa Lighting / ETC / ADB / Elation
	Smart Podium/	Univeso / AHA / Tech Comm/ORDAIN/AHA/Solvision
	Interactive White Board	Promethean / HiteVision / Smart interactive monitor- Wacom / Almo / IES/Suvira/Liberty/Dramer/Dalite/Ordain
	Interactive Display	LG/Samsung/Maxhub/Ordain/Optoma
	Solid Waste Management System	Approved Make
1.	Sterilizer/ Autoclave for Bio Waste other than BSL lab	Envicare Soln. Pvt. Ltd / Celitron / Ecodas / Cisa / Cecon Pollutech Systems / Excel Industries Ltd
2.	Organic Waste Converter	Envicare Soln. Pvt. Ltd/ Excel Industries Ltd/ Cecon Pollutech Systems/Wastech Infra
	Mechanized Car Parking	Approved Make
1.	Mechanized Car Parking	RR Parkon/ Klaus/ Newturn/ Dantel

Note:-
7. The contractor will use one of the approved makes as approved by the Engineer -in-charge.
8. In case of different quality / pattern of same make, the pattern/ quality shall be approved Engineer – in – charge.
9. This list of makes shall be read with the list of makes provided elsewhere in the Tender Documents. In case of variance, decision of the Engineer-in – Charge shall be final.
10. For materials/equipment/ to be used in items of work for which approved makes are not given herein or in the list of makes provided elsewhere in the Tender Documents, the makes of such materials /equipment shall be as decided by Engineer –in-charge.
11. If any major equipment is using a small component of make other than that given as a standard component with the equipment, the same shall be accepted subject to approval of Engineer –in-charge.
12. In case of non-availability of the brand specified in the contract, the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand. The necessary cost adjustments on account of above change shall be made for the material.

LIST OF MAKES

S.No.	Details of Materials / Equipment	Manufacturer's Name
Medical Gas Pipeline System		
1	Oxygen Manifold and Emergency oxygen manifold with automatic control panels	Aktiv/altos/alfa
2	Oxygen Flowmeter with Humidifier Bottle	Aktiv/altos/care givers / PES /MPS
3	Nitrous Oxide Manifold and Emergency NO2Manifoldwithautomaticcontrolpanel	Aktiv/altos/alfa / Sharma Eng
4	Co2ManifoldandEmergency Co2Manifoldwith Automatic control panel	Aktiv/altos/alfa / Sharma Eng / PES /MPS
6	Medical Air Supply System(4Bar&7Bar) Complete.	ANESTIWATA/trident / Hitachi / Airtech
7	Medical Vacuum(suction) Supply System Complete.	INGERSOL RAND / Hitachi / Airtech
8	Vacuum Units(Ward/Theaters/Low flow)	Aktiv/altos / Sharma Eng /PES/MPS
9	AGSS system Complete	Aktiv / altos
10	Distribution Piping Complete with Accessories.	Maxflow / Mehta Tubes
11	Gas Outlets with Probes	Aktiv/Sharma Eng / altos
12	Area Valve Service System & Line Isolation Valve	RN/RV / Sharma Eng / altos /zoloto
13	Alarm Systems (Master &Area)	Aktiv/Sharma Eng/altos / PES/MPS
14	Bed Head Panels (Vertical &Horizontal)	Aktiv/Sharma Eng/altos/alfa / PES/MPS
15	HighpressuretubesforO2,N2O,CO2,AGS S,CompressedAir&Vacuum,Etc.	Aktiv / GIT / Sharma Eng/altos/alfa /PES
16	Gas Cylinders	Everest Kanto/Rama Cylinders/BPCL(BIS Approved Only)
Modular Operation Theatre		
1.	Wall Paneling System	SS304Make:TATA/Jindal /Bhusan / Equivalent make in compliance with Technical specification

S.No.	Details of Materials / Equipment	Manufacturer's Name
2.	Ceiling Paneling System	SS304 Make: TATA/Jindal /Bhusan / Equivalent make in compliance with Technical specification
3.	Laminar Air Flow System	Filters: AAF / Equivalent make in compliance with Technical specification
4.	Internal HVAC Ducting & Exhaust System	Al Sheet :Hindalco/TATA/Jindal/Balco / Equivalent make in compliance with Technical specification
5.	PVC Flooring	Gerflor/Tarkett / Equivalent make in compliance with Technical specification
6.	Hermetically Sealed Doors	Metaflex / Equivalent make in compliance with Technical specification
7.	OT Pendants (Anesthetist & Surgeon)	LM Medical/Ondal/Maquet/Pneumatik / Equivalent make in compliance with Technical specification
8.	Peripheral lighting & Cleanroom fixers	Philips/Wipro/Osram/Siska
9.	Isolation Panel System(IPS)	Star storm/ LM Medical/ Bender / Make available in the electrical items
10.	Online UPS	APC/TataLibert/Hitachi/Consul Neowatt / Make available in the electrical items
11.	Medical Gas Lines Installations	Copper Pipe: Mehta Tube(Maxflow) /Rajco /Metal Alloys(Metalco) Fittings: Conexanninger
12.	OT Light with camera, Monitor & Recorder	Steris/Amico/Maquet/Stryker/Simeon/Evonos / Equivalent make in compliance with Technical specification
13.	MOT Integration	Karl Storz /Stryker/Olympus/Maquet
14.	Medical grade monitor & recorder	Steris/Amico/Maquet/Stryker/Rein/S-cape
15.	Anti-microbial paint	Sikka
CBRN Environmental Control		
1	CBRN Filtration System(3500 CFM) with Accessories	Beth-El Zikhron Yaaqov Industries Ltd. 1 Avshalom Road, P.O. Box 166, Zikhron Yaaqov 3095101, Israel
2	CBRN Filtration System(1050 CFM) with Accessories	Beth-El Zikhron Yaaqov Industries Ltd. 1 Avshalom Road, P.O. Box 166, Zikhron Yaaqov 3095101, Israel
3	Real time Biological Warfare Agent Detector (FPD Base)	Proengin Inc. France
4	24x7 CW Agent Detector (FPD Base)	Proengin Inc. France
5	24x7 Radiation Monitor	1)Nucleonix Systems Pvt Ltd Plot No. 162A &B, Phase II I.D.A. Cherlapally,

S.No.	Details of Materials / Equipment	Manufacturer's Name
		Hyderabad – 500 051 2)M/S. MAYTECH SYSTEMS Sy No. 656/A, Plot No. 10, Hyderabad Telangana – 501510
6	Hand held CW Agent detector (FPD Base)	Proengin Inc. France
7	Hand held CW Agent detector	1)Nucleonix Systems Pvt Ltd Plot No. 162A &B, Phase II I.D.A. Cherlapally, Hyderabad – 500 051 2)M/S. Pla Electro Appliances pvt. Ltd., PLA House , Kurla-Karol Road Mumbai-400086
8	NBC Sensor System Control Panel	1). DH Limited, 8/9th Milestone GT Road Sahibabad -201007. 2).NOVA CBRN Technologies Pvt. Ltd. Corner House, 11 Qutab Road, Ram Nagar, New Delhi 110055, INDIA
9	NBC Permeable Suit	1)Shiva Texyard Ltd. Coimbatore 2)Vijay Sabre safety Pvt. Ltd. Mumbai 3)Any other Source approved by DRDO
10	Respirator	1)Vijay Sabre safety Pvt. Ltd. Mumbai 2)Any other Source approved by DRDO
11	Canister	1)Vijay Sabre safety Pvt. Ltd. Mumbai 2)Hindusthan Metal Industries , Nai Sadak Gwalior. 3)Any other Source approved by DRDO
12	Overboots	1)Tulsi Rubber Products Pvt. Ltd. Pune. 2)Any other Source approved by DRDO
13	Gloves with Inner	1)Vijay Sabre safety Pvt. Ltd. Mumbai 2)Any other Source approved by DRDO
14	Surgical Mask	1)Standard off the shelf item
15	Protective Eye Gear	1)Standard off the shelf item

Note:

1. The contractor will use one of the approved makes as mentioned above with prior approval in writing from Engineer-in-charge.

2. In case of different quality / pattern of same make, the pattern/ quality shall be approved Engineer – in – charge.

3. For materials/equipment to be used in items of work for which approved makes are not given herein above, the makes & models of such materials /equipment shall be as approved by Engineer –in-charge.
4. If any major equipment is using a small component of make other than that given as a standard component with the equipment, the same shall be accepted subject to approval of Engineer –in-charge.
5. In case of non-availability of the approved Make specified as above, alternate equivalent make of the item/ material may be used subject to submission of documentary evidence of non-availability of such specified make and prior approval of Engineer-In-Charge.
6. Only For CBRN specific equipment, the bidder can use equivalent makes meeting the technical specifications and its quality is at par with list of approved makes. However, approval from HITES shall be obtained before supply of items.

END OF VOLOUME-5