

LIST OF APPROVED MAKES FOR EQUIPMENT & MATERIALS**PLUMBING SYSTEM**

| Sr. No. | Details of Materials / Equipment | Manufacturer's Name |
|----------------|--|--|
| 8 | Flow Control Devices | Aquaplus / Con-Serv / Jaquar / RST |
| 9 | Air Vents | Studor |
| 15. | Cast Iron Pipes & Fittings Manhole covers and frames | |
| | a. As per IS:3989 (Pipes & Fittings) | KAPILANSH / NECO |
| | b. As per IS:1729 (Manhole covers and frames) | NECO / |
| | c. As per IS:1536 (CI Class LA Pipes) | Electro Steel Calcutta / IISCO / Kesoram Calcutta |
| | d. D.I. Manhole Covers & Frames | NECO / Equivalent |
| | e. CILA fittings | Kartar valves & fittings |
| 17. | C.I. Pipe Joints | Aqua Bond / Drip Seal |
| 18. | GI / M.S Pipes (IS : 1239 and IS : 3589) | AST pipes / Jindal / Tata Steel |
| 19. | GI pipes fittings | Unik / Zoloto M |
| 20. | GI pipe sealant | Henkel - LOCTITE 55 |
| 21 | Pipe clamp & supports | Chilly / Euroclamp |
| 22. | D. I. Pipes | Welspun / Jindal / Lanco Kalahasthi |
| 27. | CPVC pipes | Supreme / Ashirwad / Astral |
| 32. | SS Pipes | Viega / Tata Steel / Jindal Steel / SAIL |
| 33. | GM / Forged Brass Valves | Danfoss / Honeywell / Zoloto |
| 34. | Sluice Valves | Indian Valve Company / Kirloskar / Marck / Zoloto |
| 35. | Butterfly Valve | Audco / CRI / Danfoss / Honeywell / Zoloto |
| 36. | Check Valve – Wafer Type | Advance / Danfoss / Kirloskar / Zoloto |
| 37. | Check Valve – Dual Plate | Advance / Danfoss / Kirloskar / Zoloto |
| 38. | Pressure Reducing Valve | Fouress / Honeywell / RB / Zoloto |
| 39. | Solenoid Valve | AIRA / Avcon / Danfoss / Honeywell |
| 40. | Thermostatic valve | Oventrop |
| 41. | Air Release Valve | Arco / Fouress / ITAP / Zoloto |
| 42. | Ball Float Valve | Esseti / HBD / Zoloto |
| 43. | NRV – Ball type – Sewage application | Danfoss / Silverspark |
| 44. | Y Strainer | Emerald / Marck / CAIR / Zoloto |
| 45. | Hydro pneumatic System | Wilo - Mather & Platt / Grundfos / Kirloskar / KSB |
| 48. | Transfer Pumps | Wilo - Mather & Platt / Grundfos / Kirloskar / KSB |
| 49. | Self-Priming Pumps | Wilo - Mather & Platt / Johnson / Kirloskar |
| 52. | Mechanical Seal | Burgmann / Sealol |
| 53. | Couplings | Lovejoy |
| 54. | Anti Vibration Mounting & Flexible Connections | Cori / Dunlop / Flexionics / Resistoflex |
| 55. | Pressure Gauge | Emerald / Fiebig / H Guru |
| 56. | Water Meter (Mechanical Type) | Actaris / Capstan / Kaycee / Kranti / Sant |
| 57. | Electronic Flow Meter | Krohne (Forbes Marshall) / Rockwin |
| 58. | Level Controller & Indicator (Water) | Auto Pump / Cirrus Engineering / Technika / Techtrol |
| 59. | Paints | Asian Paints / Berger / ICI / Shalimar Paints |

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| 64. | Three Way Motorized Valve | Honeywell / Invensys / Johnson Control |
| 65. | Welding Rods | ADOR / Cosmos / Esab / Super Bond (S) |
| 66. | Fastener | Fisher / Hilti |
| 67. | Pressure Transducers | Danfoss/ Honeywell/ Equivalent |

LIST OF APPROVED MAKES FOR EQUIPMENT & MATERIALS
ELECTRICAL SYSTEM

| Sr. No. | Details of Materials / Equipment | Manufacturer's Name |
|---------|--|---|
| 1 | Power Distribution Panel and Motor Control Centre (Can be selected as per project location) | Antia Electricals / Arrow Engineers / Popular Switchgear / Power Control Engineering / Scoot Engineering / Sterling & Wilson / Square "D" Automation / Zenith Engineering or Equivalent |
| 2. | Final Distribution Board | ABB / GE Power Controls / Hager (L&T) / Havells / MDS Legrand / Siemens / Schneider Electric (MG) or Equivalent |
| 3. | Motor | ABB / Bharat Bijlee / Kirloskar / Siemens |
| 4. | Soft Starter | ABB / Allen Bradley / Schneider / Siemens |
| 5. | Variable Speed Drives | ABB / Danfoss / Siemens |
| 6. | Starter, Contractor, Push-Button | GE Power Controls / Larsen & Toubro ((ESBEE) / Schneider Electric (MG) / Siemens / Vaishno Electricals |
| 7. | Air Circuit Breaker (3/4 Pole) | ABB(E-Max) / GE Power Controls (M-Pro) Spetronics / Larsen & Toubro (U-Power) C-Power) / Schneider Electric (Master Pact NW) Enerpact) / Siemens (3 WL) |
| 8. | Moulded Case Circuit Breaker (MCCB) | ABB (Isomax/ T – Max) / GE Power Controls (Record Plus/ LM/ LM Pro) / Larsen & Toubro (D-Sine) / MDS Legrand / Schneider Electric (Compact MS/ Simpact) / Siemens (3WL) or Equivalent. |
| 9. | Motor Protection Circuit Breaker(MPCB) | ABB / GE Power Control / Hager (Marketed by Larsen & Toubro) / Schneider Electric / Siemens |
| 10. | Automatic Transfer Switch (ATS) | ASCO USA (Marketed by Tricolite) / GE Power Control |
| 11. | Miniature Circuit Breakers (MCB) | ABB / GE Power Controls / Hager (L&T) / Havells(Export Range) / MDS Legrand / Schneider Electric (MG) – Multi – 9 / Siemens or Equivalent |
| 12. | Residual Current Circuit Breaker (RCCB) | ABB / GE Power Controls / Hager (L&T) / Havells (Export Range)/ MDS Legrand / Schneider Electric (MG) / Siemens or Equivalent |
| 13. | Power/Aux. Contactor | ABB / GE Power Control / Larsen & Toubro / Schneider Electric (Telemecanique) / Siemens |
| 14. | Change Over Switch | Havells / H H Elcon / HPL – Socomec / L&T |
| 15. | Control Transformer/Potential Transformers | Automatic Electric / Gilbert & Maxwell / Indcoil / Matrix / Pragati / Precise |
| 16. | Current Transformer (Epoxy Cast Resin) | Automatic Electric / Gilbert & Maxwell / Indcoil / Matrix / Pragati / Precise |
| 17. | Protection Relay | |
| | a. Numeric Type | ABB / Areva / L&T / Prok Devices Pvt. Ltd. / Siemens |
| | b. Electromagnetic Type | ABB / Areva / L & T |
| 18. | Indicating Lamps LED type and Push Button | Altos / GE Power Controls / L&T (ESBEE) / Schneider |

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| | | Electric (MG) / Siemens / |
| 19. | Overload relays with built in Single Phase preventer | Teknik / Vaishno Electricals |
| 20. | Electronic Digital Meters (A/V/PF/Hz/KW/KWH) with LED Display | ABB / GE Power Controls / Larsen & Toubro Schneider Electric(Telemechanique) / Siemens or Equivalent |
| 21. | Dual Energy Meter with centralized metering & billing system | ABB / Automatic Electric / CG Scumberger Conzerv / IME / L & T / Nippen / Schneider Electric Secure or Equivalent |
| 22. | Prepaid Meters & accessories | Schneider Electric / Nippen / Actaris / Conzerve / Secure |
| 23. | Electromagnetic Meters | Automatic Electric / Rishabh (L&T) |
| 24. | Static Power Meter & Logger (SPML) With RS 485 port | Conzerv / Ducati / IME / Larsen & Toubro Nippen / Schneider Electric |
| 25. | Power Capacitor | ABB / Ducati / GE Power Controls / Matrix Meher (Larsen & Toubro) / Siemens (Epcos) |
| 26. | Automatic Power Factor Correction Relay (Numeric Type) | Areva / BELUK (Germany) / Conzerv / Datar Ducati / Siemens |
| 27. | Thyristered APFC Control Panel | ABB / Datar / Ducati / Meher(Larsen & Toubro) / Power Matrix Solutions / Siemens |
| 28. | PVC insulated XLPE aluminium/copper conductor armoured MV Cables up to 1100 V grade | Anchor / Finolex / Havells / RR Kabel or Equivalent |
| 29. | LT Jointing Kit / Termination | Raychem / Safe Kit |
| 30. | Cable Glands Double Compression with earthing links | Baliga Lighting / Comet / Cosmos |
| 31. | Bimetallic Cable Lug | Comet / Cosmos / Dowell's (Biller India) Hax Brass (Copper Alloy India) |
| 32. | PVC insulated copper conductor stranded flexible wires (FRLS) - | Anchor / Finolex / Havells / RR Kabel or Equivalent |
| 33. | Metallic / GI Conduit (ISI approved) | AKG / BEC / NIC / Vimco |
| 34. | Accessories for Metallic /GI Conduit (ISI approved) | Prakash Engineering Works / Sharma Sales Corporation Super Sales Corporation |
| 35. | PVC Conduit & Accessories (ISI approved) | AKG / BEC / D Plast / Duraline Polypack / Precision |
| 36. | a) Switch & Socket | MK India / Anchor / Clipsal (Neo-Series) / MDS Legrand (Exelute) |
| | b) Electronic Switches (applicable only for electronic switching of Hotel Guest Rooms) | ABB(EIB Solution) / Clipsal (ULTI Switches) Mertin(EIB Solution) / Minixon |
| 34. | Industrial Socket | |
| | a. Splash Proof | Clipsal / Gewiss / MDS Legrand / Neptune Balls RR-PCE / Schneider Electric |
| | b. Metal Clad | BCH/ MDS |
| 35. | Selector Switch, Toggle switch | Kaycee / Salzer (Larsen & Toubro) |
| 36. | Timer | ABB / BCH / GE Power Control / Larsen & Toubro MDS Legrand / Schneider Electric (Telemechanique) Siemens |
| 41. | Fire Sealant & Fire Retardant Paint | BTHM Engineering / Birla 3 M / HILTI / Promat |
| 42. | Lighting & Surge Voltage Protection | ABB / Hager (Marketed by L&T) / Obeo Betterman Schneider Electric |