

## **Gujarat University**

### **TECHNICAL SPECIFICATIONS**

**MATERIAL MAKE LIST** 

Tender No: GU/ESTATE/ARTM/2021-22/05

# TENDER DOCUMENT FOR CONSTRUCTION WORK OF ARBORETUM AT GUJARAT UNIVERSITY.

#### LIST OF APPROVED CIVIL MATERIALS / BRANDS FOR BUILDING WORKS

1. Cement –SRC 1. Reinforcement Steel-Fe 500 SRS 1. Tata-Tiscon, Vizag, SAIL, Essar, Electro TMT, J 3. Structural Steel 4. Water proofing Compounds 5. Hardeners 6. Plastic emulsion Paints: Interior 7. Red Oxide (For IPS Flooring) 8. Premium Quality Weather proof paint: Exterior 9. Glass/ Structural Glass 10. Ceramic Tiles 10. Vitrified Tiles (Note: Vitrified Tiles shall have to be whole body homogenous & Matt finish) 12. Stone 13. Water proofing Membrane type 14. Aluminum Sections for Doors/Windows 15. Teak Wood 16. Ply Wood 17. Century, Greenply, Marino 18. PVC Tank 19. Anti-termite materials 20. Adhesive for tiles fixing 21. Hardware 22. Expansion joint sil flex(cap cell HD 100) 23. Rolling shutters 24. Dowelling and rearing 24. Dowelling and rearing 24. Dowelling and rearing 26. Hardeners 26. Tata, SAIL, Essar, ASR 27. Tata, SAIL, Essar, ASR 27. Tata, SAIL, Essar, ASR 28. Tata, SAIL, Essar, ASR 28. Tata, SAIL, Essar, ASR 28. Tata, SAIL, Essar, ASR 29. Tata, SAIL, Essar, ASR 29. Tata, SAIL, Essar, ASR 29. Tata, ASR 20. Listan, SAIL, Essar, ASR 21. Hardware 22. Expansion joint sil flex(cap cell HD 100) 23. Rolling shutters 24. Dowelling and rearing 24. Dowelling and rearing 26. Hittan, SAIL, Essar, ASR 26. Tata, ASIL, Essar, ASR 26. Tata, ASIL, Essar, ASR 27. Tata, ASIL, Essar, Electro TMT, John Tata, ASR 26. Listan, ASAIL, Essar, Electro TMT, John Tata, ASR 27. Lata, ASR 28. Prick Tata, ASR 28. Prick, Hardware, Fiding Hardware, Saint, Sain, Oncare, Pidillite, Fosroc, Roffe, CICC equivalent as approved by consultant approach of the prick of the prick and the prick and the prick of the prick and the pr	
2. Reinforcement Steel-Fe 500 SRS  Tata-Tiscon, Vizag, SAIL, Essar, Electro TMT, A  3. Structural Steel  4. Water proofing Compounds  Krishna Concare, Pidillite, Fosroc, Roffe, CICC equivalent  5. Hardeners  Ironite', 'Ferrok', 'Hardonate'or equivalent  6. Plastic emulsion Paints: Interior  7. Red Oxide (For IPS Flooring)  8. Premium Quality Weather proof paint: Exterior  9. Glass/ Structural Glass  Saint Gobain LOW-e, ASAHILOW-e  10. Ceramic Tiles  Vitrified Tiles  (Note: Vitrified Tiles shall have to be whole body homogenous & Matt finish)  12 Stone  Mirror polished kota, Machine cut river polis granite, as approved by consultant  13. Water proofing Membrane type  14. Aluminum Sections for Doors/Windows  15. Teak Wood  Ghana Teak Wood as approved by Consultant  16. Ply Wood  Century, Greenply, Marino  17. Marine ply  Century, Greenply, Marino  18. PVC Tank  Syntex or as approved by Consultant/Client  Chlorophyriphos or materials as approved by Consultant/Client  ArdexAndura,MRF  Heltich, Dorma, Doorset, Ozone as approved by Consultant  20. Expansion joint sil flex(cap cell HD 100)  Robert Structural Steel  Tata, SAIL, Essar, ASR  Krishna Concare, Pidillite, Fosroc, Roffe, CICC equivalent as approved by CICC.  Toronite', 'Ferrok', 'Hardonate' or equivalent as approved by Consultant of Stantant, Client  Johnson, Somani, Asian, or as approved by Consultant  As per specification & as approved by Consultant  Century, Greenply, Marino  Century, Greenply, Marino  Century, Greenply, Marino  Syntex or as approved by Consultant/Client  Chlorophyriphos or materials as approved by Consultant/Client  Chlorophyriphos or materials as approved by Consultant  Supreme industries, Softex industries pvt.ltd. bitumen  Rama shutter.co. , Akash shutter, Olympic ro sh	VIRMAX
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24. Dowelling and rearing Hilti system or Equivalent as approved by co	ling
	sultant
25. White Cement putti Birla white cement, J K Wall putti	
26. Quartz manufacturer Classic marble company, jayantilal& sons or a approved by consultant	S
27. Stainless steel railing Ozone, Kitch, Orbit or as approved by consul-	ants
28. Structural and spider glazing Dorma, Ozone	
29. Glass railing Ozone pvt.ltd., Kitch or as approved by consu	Itants
30. Cubical partition system for restroom Merino-Bosco.co. or as approved by consulta	
31. Exterior Texture JotunUltraTEX, Asian- duracast	
32. Epoxy paint Nerolac, Shalimar, Cico, Dubond, Berger, Asia	n
33. Multi-cell Polycarbonate Sheet Danpalon, DPI Daylighting, Tuflight, Coxwell	

#### LIST OF APPROVED PLUMBING MATERIALS / BRANDS FOR BUILDING WORKS

Sr. No.	Item	Approved Make
	SWR PVC PIPE & FITTINGS 6 KG CM <sup>2</sup> ;	FINOLEX /PRINCE
1	FITTINGS : 6 KG CM <sup>2</sup>	SUPREME/ ASTRAL
	ECO. DRAIN PIPE & FITTINGS	
2	GULLY TRAP	GIRCO / TIRUMALA / SUPREME/ ASTRAL
3	RCC HUME PIPES EXTERNAL MAIN UNDER GROUND PIPE	INDIAN HUME PIPE / PRANALI
5	C.I. PIPE & FITTINGS	NICO OR EQ.
6	PPR PIPES & PPR FITTINGS	SUREME/PRINCE/
7	M.S/G.I. PIPES FOR WATER SUPPLY	TATA / JINDAL/ SWASTIK
8	ASTM/CPVC PIPE & FITTINGS FOR WATER SUPPLY	ASTRAL / SUPREME/ASHIRWAD /
9	COMPOSITE PLUMBING PIPE & COMPOSITE FITTINGS	KITEC OR EQ.
10	G.I. PIPES FITTINGS WATER SUPPLY	DRP-M / R-BRAND / ZOLOTO
11	GI TO GI JOINTS	CHAMPION / EQUIVALENT
12	SOLVENT CEMENT	SUPREME / KISSAN / FINOLEX
13	BALL VALVES	LEADER / ZOLOTO / AUDCO
14	WHEEL VALVES	LEADER / ZOLOTO/AUDCO
15	DCV / NRV	ZOLOTO/SPIREX/AUDCO
16	TAR	SHALIBIND / TIKIBOND-BS
17	SELF PRIMING SEWAGE PUMPS	HBD / GRUNDFOS
18	VALVES	AUDCO/ZOLOTO / R.B. / KBL / KSB
19	PUMPS	KIRLOSKAR / GRUNDFOSS/
20	STARTER	SIEMENS / L&T
21	PRESSURE GAUGE	BELLS / H GURU
22	BOTTLE TRAP & WASTE COUPLING	GROHE / JAQUAR / KOHLER
23	DEWATERING PUMPS	GROUNDFOSS/KIRLOSKAR/ KSB
24	HYDROPNEUMATIC SYSTEM	GRUNDFOSS OR EQUIVALENT
25	SANITARY FIXTURES	HINDWARE / PARRYWARE / CERA /KOHLER
26	PLUMBING FITTING	GROHE / JAQUAR / KOHLER or as approved by consultants.
27	METALLIC BELLOWS	BELLOW FLEX / PRICISION / DHRUV / B.D. ENGR.
28	R.O.PLANT	ION EXCHANGE /POWER H20 / THERMAX
29	SOFTENER PLANT	ION EXCHANGE /POWER H20 / THERMAX
30	SOLAR SYSTEM	SOAHEART/RACOLD/TATA-BP
31	ELECTRIC GEYSER	A-O SMITH/ RACOLD/SPHERHOT
32	HOT WATER GENERATOR	THERMAX/A.O.SMITH / KEPL/ BENCHMARK OR EQUIVALNET
33	SEWAGE TREATMENT PLANT	THERMAX / ION EXCAHNGE / EQUIVALNET

Consultant/Client is ask to choose any make from above. Any other item which has not mention in make list, consultant/Engineer-in-charge is final authority to suggest.

#### LIST OF APPROVED ELECTRICAL MATERIALS / BRANDS FOR BUILDING WORKS

SR	ITEM	APPROVED MAKE
NO.		
1	Capacitor (APP / Heavy duty type)	Havells, Epcos, Subodhn, Schneider, Matrix
2	Main Cables Upto 185 Sq.mm	XLPE armoured cable for 1.1 KV Polycab, Havells, RR
		Kabel, Avocab
3	Main Cables Above 185 Sq.mm	XLPE armoured cable for 1.1 KV Polycab, Havells, RR Kabel, Avocab,
4	Glands	Double Compression type, Siemens type with rubber ring and double washers. – Comet, Standard Metal Industries
5	Distribution Boards	Legrand, Schneider, MK, Mitsubishi
6	MCBs	Legrand-DX3, MK, Schneider, Mitsubishi
7	МССВ	Legraand DPX/DPX3 , Schenider NSX, Mitsubishi
8	ACB (Should have inbuilt power metering)	Legrand DMX3 (MP4 release), Schenider
		Masterpact (NT relese), Mitsubishi
9	Switches & Its accessories	MK Blenze, Legrand Myris, Schenider Zenselo,
10	Flexible Wires (FRLS)	Polycab, Havells, Lapp INFRA
11	Light Fixtures	Lighting Technology, Crompton , Ensave – Approved
		model only by consultant
12	Chemical type earthing	Erico, Rapid, Doksun, Greenwire
13	Cat-6	Legrand, Schneider, D-link, Havells
14	Meter (Digital)	Elmeasure, Legrand, SEMS, Conzerv, HPL
15	PVC PIPE & Accessories	1.6-1.8 mm wall thickness ISI & FIA approved &
		manufactured from virgin4 material. Precision
		plastic industries, Polycab, Nihir, Vraj
16	Raceway	MK, Legrand
L	1	1

17	Lightening Arrestor	Rapid, Doksun
18	PA System / Music System	Stone Water, JBL, Austrailian Monitor, TOA, Tennoy
19	ССТУ	HONEYWELL/ BOSCH/ AXIS / VIVOTEK
20	Fire Alarm System	Honeywell-notifier, Pelco, Siemens
21	Panel Vendor	Active Engineers, Swati switchgear, Dynamic Control
22	Indoor Wireless Access Points	Hp / Cisco / Juniper
23	Rack With Accessories	Apw/Rittal/Netrack
24	Cable Manager	Apw/Rittal/Netrack
25	6 Core Single Mode Multitube Fiber Cable ArmouredLszh	Molex / Tyco / Legrand
26	24 Port Fiber Liu Loded - Single Mode	Molex / Tyco / Legrand
27	Layer 2 Fully Managed Networking Switch	Hp / Cisco / Juniper
28	Ups	Emersion / Apc / Eaton
29	Wall mount speaker	Workpro - neo 5, Logis system , Functionone, Bose
30	Sound power Amplifier	Workpro - PA 120/USBR , Logic system , Function one, CKS Acoustics
31	Diversity single channel wireless system	Workpro - WRD 1100 AF/2, Beyerdynamic , Clock Audio
32	Microphone	Workpro - XP20, Clock Audio , Beyerdynamic, Sure
33	Projector	Epson - X05 , Barco , Christie , Sony, Panasonic
34	Projection MotorizedScreen	Harmonic Vibes , liberty , da-lite

35	Speaker cable 2.5X5.0 MM	MX . Kramer , Belden, Crestron
36	AUDIO cable	MX , kramer , belden, Crestron
37	HDMI cable	MX , Kramer , Extron, Crestron

#### LIST OF APPROVED MAKES FOR HVAC EQUIPMENT & MATERIALS

Equipment / Materials	Manufacturer's Name
Variable Refrigerant Volume/Flow system	Daikin/Mitsubishi/Toshiba/Bluestar/ Carrier/Samsung
Air Handling Units	Daikin/Edgetech /Nutech/VTS/Zeco
Ventilation Fans	Kruger/ Nicotra / Systemair/ebm-Nadi
G.I.Sheets for ducting	SAIL/Tata/Jindal/Essar
Grilles &Diffusers	Ravistar/Airmaster/Airproduct /Cosmos/Dynacraft
Fire Dampers	Carryaire/Systemair / Ajanta/Ravistar
PIR Ducting	Asawa / PAL / Eq.
Fabric Ducting	Durkee / TurboaSOX / Eq.
Closed cell elastomeric nitrile rubber	Armaflex/A-flex/K-flex/Superlon
Copper pipe	Mandev/Rajco/Totaline/Maxflow
MCCB	ABB/GE/L&T/MDS Legrand/Schnider/Siemens
MCB	ABB/GE/Schneider(MG) /Hager-L&T /MDS Legrand
Contactors, Overload relay	Schneider(MG) /GE /L&T/Simens/ABB
Motors	Kirloskar/CromptonGreaves/Bharat Bijlee /NGEF/ABB
Humidistat	Honeywell/ Johnson
Thermostat	Honeywell/Johnson
Metering Instruments -Digital	ABB/EI /IME/L&T/Secure/Nippen/Schneider
Indicating lamps & Push Button	GE/Schneider/ Teknik/L&T/Altos
Cables	Polycab/Universal/Gloster/RR/Finolex/Nicco/Torrent
Controls	Honeywell/Sauter/Johnson/ Siemens/TAC/Trane
Strip Heater	Heat king / Eq.
Immersion Heater	Bajaj / Heat king /Spherehot / Recold
Vibration isolators	Dunlop/AVM/Ferolastic/Resistoflex
	to supply other makes of materials than the ones

SPECIAL NOTE: Contractors intending to supply other makes of materials than the ones listed above shall indicated clearly the makes in their offers highlighting the salient features and advantages of that make supported by catalogues. The right of accepting such makes rests with the consultants.