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PROPOSED INCITE BUILDING AT GUJARAT BIOTECHNOLOGY UNIVERSITY



CLIENT



GUJARAT BIOTECHNOLOGY UNIVERSITY

ARCHITECTS



SURESH GOEL AND ASSOCIATES

OBSERVATION	REVISION	DATE



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1. SUGGESTED LIST OF MAKES Error! Bookmark not defined.

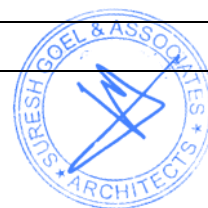


List of Approved makes

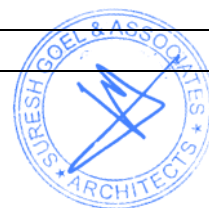
A.Suggested List of Make

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the Architect/Engineer-in-Charge are listed below. However approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market but only after approval of the alternate brand by the Architect/Engineer-in-Charge. (See also condition of contract).

Sl.No.	Material	Approved Makes / Brands		
1.	Ordinary Portland Cement / Portland Pozzolona Cement	Birla	Ultratech	J. K Cement
			Ambuja Cement	
2.	White Cement	Birla White	J.K. White	Nuvoco
3.	Ready Mix Concrete	ACC	Ultratech	JK lakshmi
		Lafarge	L&T	
4.	Reinforcement Steel (CRS TMT- Fe 500D/CRS 550D)	SAIL	Tata Steel	RINL
		JSW Steel Ltd	Electro Thermo	Jindal Steel & Power Ltd
5.	Structural Steel / M.S. Tubes	TATA	JSW Steel Ltd	SAIL
		Jindal Steel & Power Ltd	Rashtriya Ispat Nigam Ltd	
6.	Plasticizer, Super Plasticizer, Admixtures, Other construction chemicals	MYK	Fosroc	Pidilite
		CICO	Sika	BASF



7.	Waterproofing	BASF	Sika	Myk laticrete
	Compound (Crystalline)	Fosroc	Kerakoll	Tapecrete
		Pidilite	Mapie	CICO
8.	Waterproofing Self Adhesive (HDPE) membrane		Fosroc	Pidilite
		Kerakoll	CICO	myk
9.	EPDM	Ecmas	Pidilite	STP
	Water proofing Membrane	Mapie	Ecmas	Asian
10.	PU Elastomeric Membrane (spray applied for Deck Waterproofing)	BASF	Fosroc	Sika
		Pidilite	Mapie	kerakoll
11.	Glasswool Insulation	UP Twiga	Poly Glass	Owncorning
12.	Rock Wool Insulation	Lloyds	Roxul Rockwool	
13.	Swellable Bar	Pidilite	Fosroc	
			Sika	CICO
14.	Polycarbonate Sheet	Bayer	Lexan	Dpi Daylighting
		Coxwell	Danpal	
15.	Decking Steel Sheet	TATA Steel	Lloyds	JSW
16.	Shuttering Ply	Samrat	Century	Merino
		Kitply	Greenlam	Jayna
17.	Rebarring Chemical	Hilti	3M India	Birla
18.	Fire Sealant	Hilti	3M India	Fischer



19.	Parallel Threaded Couplers (Compliant to IS 16172:2014)	Dextra	Halfen Moment	G-Tech
20.	Extruded Polysterene Board	STP	UP Twiga	Owens Corning, Shalimar, Technicol
22.	AAC Mortar	Fosroc	Roff	Sika
22a	AAC Blocks	Magicrete building solution pvt ltd	Biltech Building elements limited	Nova Blocks industries
		Ultratech cement ltd	Brickshell	Everest
23.	Moisture Resistant Board	Saint Gobain	Gyprox	USG Boral
		Greenlam	Gyptech	Merino
24	Veneered Particle Board	Merino		Greenlam
		Kitply	Archid	Jayna
25	Laminated Particle Board / Laminates	Merino	Greenlam	Century
		Skydecor	Duro	Jayna
26	Flush door / Laminated Flush Doors	Century	Greenlam	Merino
		Duro	Archid	Jayna
	WPC Doors	Florista	Reynorch	Ecoste
27.	Toilet Cubicles	Merino	Greenlam	century
28.	Hardware for Fire Check Door	Dorma	Hettich	Hafale
29.	Plywood/ Veneer/Laminate	Merino	Greenlam	Century
		Everest	Greenply	

		Migua expansion joint	Herculus	Z-Tech
30	Expansion Joint - Modular	Vexcolt	Devin	Sainfield
31.	Polyster Powder Coating Paints Repellent /Weather Sealant	Nerolac	Berger	Akzonobel
			Wacker	
32.	Poly-Sulphide Sealant	Fosroc	Pidilite	Sika
		Myk Laticrete		Dow Corning
33.	Wall Putty	Birla Wall Care	JK White	Saint Gobain
		Asian paint	Sakarani	
34.	Curing Compound	Fosroc	Sika	Cico
		STP	Pidilite	BASF
35.	Oil Bound Washable Distemper	Asian Paints	Akzonobel Dulux	Berger
		ICI	Nerolac	
36.	Acrylic Distemper	Berger	Asian	Dulux
37.	Premium Acrylic Emulsion paints	Dulux	Nerolac	Asian Paints
		Berger		
38.	Cement Primer	BP White (Berger)	Decoprime WT (Asian)	Akzonobel (Dulux)
		Nerolac		
39.	Cement Paint	Snowcem Plus	Berger(Durocem Extra)	Nerolac (Nerocem with Titanium)

		Asian		
40.	Steel / Wood Primer	Akzonobel (Dulux)	Nerolac	Asian Paints
		Berger	Jenson & Nicholson	
41.	Textured Exterior Paint	Dulux	Asian paint	Luxture
		Ultratech	Unistone	Berger
42	Synthetic Enamel Paint	Akzonobel (Dulux)	Asian (Apcolite)	Kansai Nerolac (Synthetic Enamel)
		Berger		
43.	Epoxy Paint	Kansai Nerolac	Asian Akzonobel(Dulux)	FOSROC
		ICI		
44.	Epoxy Flooring	Pidlite	MAPIE	MYK
45.	Fire Paint	asian	berger	Akzonobel
46.	Heat Resistant Tiles	Swastik	Thermax	NTC
47	Gypsum Plaster	Ferrous Crete	Elite (90)	Ultratech
48.	Pre-Cast GRC & GFRC Jali	Unistone	Birla White GRC	Ecovision
49.	Stainless Steel	Salem Steel	Jindal Alloys	SAIL
50.	Welding Electrodes	Advani	Oerlikon	Modi
		L & T		

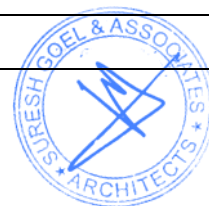
51	Stainless Steel Hardware	Dorma	Hafale	Hettich
		GEZE	Godrej	OZONE
52	Formwork systems	Peri	Doka	Symons
53	Aluminium Shuttering	Maini	S-Form	
		MFE Form Work	Mivan	
54	Metal Standing Seam roofing system.	MULTI-INFRATECH -Multi-Zip	LYSAGHT Flex-lok of Tata Blue Scope	Lloyd
55	Automatic Sliding Door	Dorma	Ozone	Geze
56.	Intumescent paint	PPCPL	Jotun paint	Starcoat 1800

FALSE CEILING

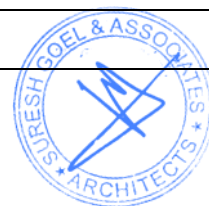
S. No.	Material	Approved Makes / Brands		
1	False Ceiling Gypsum	Saint Gobain	India Gypsum	Boral Lafarge
		Armstrong	Aerolite	
2.	False Ceiling – Metal	Saint Gobain	Hunter Douglas	Armstrong
		Bollard	Durlum	Western
3.	Gyp Board	Saint Gobain Gyp roc	Usg Boral	western
4.	Open Cell Ceiling	Armstrong	Bollard	Durlum
		Hunter Douglas	western	
5.	False Ceiling Grid System	Gyproc	Grid System	Bollard
		Gridline	Armstrong	Boral Lafarge
6.	Baffle Ceiling	Armstrong	Bollard	Hunter Douglas

7.	Accoustical Tile False Ceiling	Armstrong	Aerolite	Denosonic
8.	Acrylic Solid Surfaces	Hanex	L.G-Hymac	Dupont
9	Clean Room Puff Panel (wall & Ceiling	Iclean	Lloyd	
FLOORINGS				
S. No.	Material	Approved Makes / Brands		
1	Mosaic / Chequered Tiles	Bisazza	NITCO	Unitile
				ZICO
2.	Ceramic Tiles / Glazed Tiles	RAK	Somany	OASIS
		Asian (AGL)	Orient Bell	Kajaria
3.	Vitrified Tiles (Antiskid / Matt / Glazed)	OASIS	RAK	Kajaria
		Asian (AGL)	Orient Bell	Somany
4.	PVC Flooring	Armstrong	Tarkett	Pergo
5.	Cement Concrete Tiles / GRC Pavers (Designer Tiles)	Unistone	Ultra	Eurocon
		Laxmi	Zico	Nitco
6.	Paver Block & Kerb Stone	NITCO	Unitile	Ultra
			Zico	
7.	Tile / Stone Adhesive / Tile / Epoxy Grout	Pidilite	Rack TR Chemicals	MYK Laticrete
		Fosroc	BASF	Asian
S. No.	Material	Approved Makes / Brands		

8.	Dash / Anchoring Fasteners	Hilti	Fisher	Bosch
9.	Floor Hardener	Ironite	Fosroc	Hardonite
		Sikka		
10.	Laminated Floor	Armstrong	Action Tesa	Pergo
11.	Composite Marble / Granite / Engineered Stone	Asian	Johnson	Kalinga
12.	Water Based Melamine Polish	Asian Paint	Pidilite	ICI Dulux
		Berger		
13.	Fire Retardant Paint	Asian Paint	Berger Paint	Shalimar
14.	Clamp System For Dry Stone Cladding	Hilti	Fischer	Bosch
15.	Calcium Silicate False Ceiling	Everest	NCL	Aerolite
16.	Calcium Silicate Ceiling Tile / Board	Western	Aerolite	KnaufUSG Boral
GLAZINGS				
S. No.	Material	Approved Makes / Brands		
1.	Anodised Aluminum	Everite	Godrej	Hindalco
	Hardware (Heavy Duty)			
		Jindal	Indalco	Hindalco



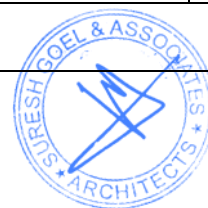
2.	Aluminum Structural Members – Windows, Glazing and Partitions	Nalco	RAC Extrusions	Alom
3.	Glazing Structural / Suspended / Skylight	Saint Gobain	Pilkington	Glaverbal
4.	Clear / Float / Frosted Glass	Saint Gobain	AIS	MODI Guard
5.	Glass Spider Fittings	Dorma	Hafale	Ozone
6.	Stainless Steel Railing, Accessories etc. in Grade SS 304 & 316	Dorma	D-line	Geze
		Ozone		
7.	Hermitically Sealed performance glass Toughened Glass	Saint Gobain	ASAHI	Modiguard
8.	Fire Rated Vision Panels	Pilkington	Schott	
		Saint Gobain	Glaverbel	
9.	Ceramic panel Cladding	Hunter Douglas		
10.	Aluminum Louvers	Hunter Douglas	NLF	Louverclad
11.	Aluminium Composite Panels	Alutech	Alucobond	virgo
		Aludecor	Alstrong	Alstone/Reynoarch
12.	G.I. Steel Door Frame	Synergy Thrislington	Navair	Shakti
13.	Friction Stay Hinges	Dorma	LG Sysmac	Dorset
14.	EPDM Gasket	Hanu	Anand	Osaka / Alps



15	Glass Processor for making DGU / Toughing	Art N Glass		
		ASAHI	Gold Plus	Kaenat Glass
S. No.	Material	Approved Makes / Brands		
16.	Mirror Glass	Atul	Modi Guard	Saint Gobain
		Glalverbel	AIS	
17.	UPVC Doors & Windows	Fenesta	Wintech	kommerling
		Windowmagic		
18.	Poly Sulphide Sealant	Fosroc Wacker	Dow Corning	Rack TR
19.	Silicone / Weather			Rack TR
	Sealant	Fosroc Wacker	Dow Corning	

HARDWARE

S. No.	Material	Approved Makes / Brands		
1	Nuts / Bolts / Fastners / Screws	GKW	Atul	Hilti
2.	Door/Window Fittings	Godrej	Everite	GEZE
		Hardwyn	ozone	HAFELE
3.	Door Closer	Dorma	Godrej	Hettich
		Everite	hAFELE	
4.	Die Cast Patch Fittings	Dorma	Geze	AssaAbloy
		Hettich	Ozone	
5.	Fire Rated Doors	Iclean	Shakti Harmonn	Bhavani Fire
		Navair	Godrej	ASAHI

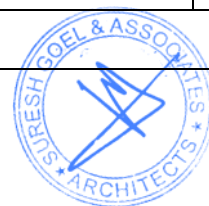


6.	Floor Springs	Dorma	Geze	Hettich
		Dorset	HAFELE	ozone
7.	SS Mortise lock with one dead bolt and pair of SS handles steel grade SS 316	Dorma	Godrej	Hafele
			ozone	GEZE
8.	SS Mortise latch & lock with six levers and pair of SS handles steel grade SS316	Dorma	Godrej	Hafele
			ozone	
9.	SS Tower bolt	Dorma	Godrej	Hafele
10.	SS Butt hinges with ball bearing grade SS 316	Dorma	Godrej	Ingersoll Rand
11.	SS Hardware fitting	HAFELE	Hafele	Godrej
12.	Pull handle back to back of length 150mm of Steel Grade SS 316	Godrej	Geze	Ozone
13.	Pull handle, single side of length 150mm of Steel Grade SS 316	Godrej	Geze	Ozone
14.	Aluminium lever Handles	Hardima	Godrej	Everite
15.	Lever handle in SS 316 finish	Dorma	Hafele	Godrej
16	Magic Eye	Dorma, Godrej, Ingersoll Rand		
PLUMBING & SANITARY				
S. No.	Material	Approved Makes / Brands		

1.	Sanitary Fittings & Accessories	Hindware (Italian collection)	Kohler	Cera
		Jaquar	Somany, Roca	Krovit
	Concealed cistern	Hindware	Kohler	Roca
		Geberit		
	WC connector	Geberit	Kohler	Viega
	Auto Urinal Flush System	Duravit	Kohler	Roca
Grohe		uronics		
2	CP Brass Fittings	Jaquar	Kohler	Parryware
		Hindware		Johnson
3	G.I. / M.S. Pipe	Tata, SAIL	Jindal (Hissar) Keshoram	Eletrostal
4	G.I. Fittings	Unik	Surya	Zoloto
5	SS Pipes 316	Jindal	Aquinox	
6	HDPE Pipes	Reliance	Supreme	APL Apollo
7	DI Pipes	Electrosteel	Jindal	Tata Ductura
8	DI Fittings	Kartar	Electrosteel	Kalinga
9	CI Fittings	Neel	Kartar	RPMF
10	Float Valve	IVC	Leader	Zoloto
		KSB		
11	UPVC Pipe and Fittings	Astral	Supreme	Finolex



		APL Apollo		HSIL (TRUFLO)
12	PVC Pipe & Fittings	APL Apollo	Supreme	Finolex
		Surya	HSIL (TRUFLO)	
13	CPVC Pipes & Fittings	APL Apollo	Astral	Supreme
		Finolex	Surya	
		SFMC	HSIL (TRUFLO)	
14	Centrifugally Cast (Spun) Iron Pipes & Fittings	NECO	SKF	RPMF
15	Centrifugally Cast (Spun) Iron (Class LA) Pipes	NECO	RPMF	TATA Keshoram
16	Centrifugally Cast (Spun) Ductile Iron Pipes & Fittings	RPMF	Jindal (Hissar)	Kalinga, Keshoram
17	C.I. Manhole covers, Frames & GI Gratings	NECO	RIF	RPMF
		SKF		
18	SFRC Manhole covers & gratings	KK	OCR	Pargati
		T-CON		
19	RCC manhole Covers & Frames	KK manhole	Grating Co. Pvt Ltd	
20	D.I. Manhole Covers & Frames	Neco,	Raj Iron Foundry Agra	Kartar
21	Gun Metal Valves, Globes	Kartar	Castle	Zoloto

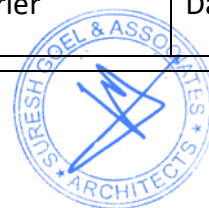


22	NRV - Ball type - Sewage application	Danfoss	ZOLOTO (AUDCO)	
23	Bellow Type, Pressure Reducing Valve	CIM	Danfoss	Honey well
24	Floor Taps	Jayana	Chilly	Nirali
25	Water Meter	Prima	Zoloto	Cassle
		Capstan		
26	Brass Stop & Bib Cock	Zoloto		
		Cassle	Astral	
27	Non Return Valve (Check valve) 1/2" to 1 1/4"	Zoloto	Cassle	
		Kartar		
28	Brass Ferrules	Dhawan Sanitary Udyog	Kalsi	Annapurna
29	Polythylene water storage tank	Sintex	Polycon	APL Apollo
		Vectus		
30	Insulation for hot water pipes	Thermafex	Armafex	Careflex
		Lloyd		
31	Insulation for external/ exposed hot water pipe	Thermafex	Armafex	Careflex
		Lloyd		
32	Pipe protection for external water supply pipes	Thermafex	Armafex	Makpolykote
33	GI/MS Pipe Protection Wrapping & Coating	IWL - Pypkote	Rustech - Coatek	

34	Stainless Steel Sink	Neelkanth	Nirali	Jayna
		Cera		
35	Stoneware Pipes	Perfect	Hind	Burn
		Anant	PARRY	SFMC
36	Gully Traps	Perfect	Hind	Burn
		PARRY	SFMC	Anant
37	RCC Pipes (NP-2)	Lakshmi	Sood&Sood	Jain & Co.
			Balaji	Raj Cement Product
38	Atactic Polypropylene	STP	HTL	Hydro Tech
		Pidilite	Texsa	Bengal Bitumen
39	C.P. Waste, Spreaders, Urinal Flush Pipes	Jaquar	Parko	
40	Check Valve - Dual Plate	Advance	Cassle	Kirloskar
41	Ball Valves / wafer type valves	Zoloto	Cassle	IBP
42	Check Valve Forged Screwed	Cassle	Sant	ZOLOTO
43	Ball Cocks	Cassle	Sant	L&K
44	Air Release Valves	Sant	Leader	Zoloto
45	Pipecoat	IWL Ltd	Pypkote	STP
46	CI Double Flanged Sluice Valve	Kirloskar	Cassle	
		Kejriwal		



47	Adhesives	Nuwood	Duratuff	Pidilite
48	PE-AL-PE	Kitec	Jindal	Supreme
49	Solar Water Heating System	Tata BP	Honey Well	Solar
50	Water Heater (Geyser)	Venus	Bajaj Spherhot	
		Racold	Havells	
51	Hand Drier	Euronics	Duravit	Grohe Kohler
52	Backflow preventer (Water Hammer)	Normex	Kessel	Lahri
53	Drinking Water Cooler	Blue Star, Usha	Voltas	Oasis
54	Anti-Vibration Mounting & Flexible connections	Resistoflex	Dunlop	Flexionics
55	Electronic Flow Meter	Blue Star	Usha	Voltas
56	Temperature Sensor/ Gauge	Forbes Marshall	Danfoss	Wika
HVAC / VENTILATION SYSTEM				
S. No.	Material	Approved Makes / Brands		
1	Chillers	York	Carrier	Daikin



			Trane	
2	Chilled/ Condenser Pumps:	Kirloskar	Bell & Gossett	Wilo (Mather+Platt)
		Grundfos		
3	Cooling Towers	Mihir	Advance	Paharpur
4	Hot Water Generator	Rapid Cool	Emerald	Sandhu
5	Air Handling Units & TFA:			
5a.	Air Handling Units (Eurovent certified)	VTS	System Air	Stulz
		Flaktwood	Edgetech	Zeco
5b.	Cooling Coil	As per manufacture standard of AHU		
5c.	Fan	Kruger / Comferi	Airflow	Nikotra
6	Fan Coil Unit & Cassette Unit	Sinko	Carryaire	Trane
7	Split AC	Daikin	Hitachi	Toshiba
		Carrier		
8	M.S. Pipes: - Any dia	Tata	Jindal Hissar	Sail
9	Butterfly Valves	Advance	L&T	Danfoss
		VTM	Axim	
10	Motorized Butterfly Valve	Belimo	Danfoss	Siemens
		Oventrop		

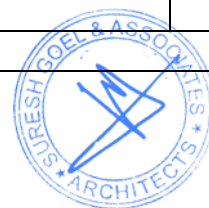
11	Pressure independent control valve (PICV)	Belimo	Danfoss	Siemens
		Oventrop		
12	Check Valves	Advance	L&T	Danfoss
		VTM	Axim	
13	Ball valve	Zoloto	Audco	RC
		VTM	Axin	
14	Balancing Valves	Danfoss	Advance	Danfoss
		VTM	Axin	
15	2-way Modulating Valves with Thermostat	Belimo	Honeywell	Siemens
16	2-way on off valve with thermostat for FCU	Belimo	Honeywell	Siemens
17	Expansion Bellows	Resistoflex	Easyflex	Areaflex
		Dunlop	Axin	
18	Pot/Y-Strainers	Sandhu	Rapid Cool	Emerald
		Axin		
19	Suction Guide with Strainer	Anergy	Armstrong	Emerald
		Axin		
20	BTU meter	Belimo	Siemens	Honeywell
		Shenitech		
21	RH Sensor	Belimo	Honeywell	Siemens

		Omnicon		
22	Thermostat	Danfoss	Belimo	Honeywell
		Siemens	Omnicon	
23	Pressure Gauge (Industrial Type)	Feibig	H. Guru	Emerald
		Axin		
24	Differential Pressure Switch	Siemens	Rapid Contro	Anergy
		Sant		
25	Thermometers	Feibig	H.Guru	H.Guru
		Emerald	Axin	
26	Closed Expansion Tank	Anergy	Bell & Gossett	Sandhu
		Emerald		
27	Air Separator	Anergy	Emerald	Sandhu
28	Auto Air Vent	Anergy	Rapid Cool	Oventrop
29	Plug Valve	Anergy	Rapid Cool	
30	G.I. Sheets	Sail	Tata	Jindal
31	MS. Sheets	Hindalco	Balco	NALCO
32	Fire Dampers	Systemair	Caryaire	Ruskin
		Greenheck		
33	Damper Actuator	Belimo	Sinider	Sinider
34	Grills/Diffusers	Systemair	Caryaire	Titus
		Trox		
35	Fresh Air Louvers	Systemair	Caryaire	Titus



		Trox		
36	Resinbonded Glass Wool Insulation	UP TWIGA	Owens Corning	Kimmco
		K-flex		
37	Protective Coating over insulation (Lag coating)	Pidilite	Foster	Idendan
		CISBOND		
38	Resinbonded Glass Wool Acoustic Insulation/Wood slates	UP TWIGA	Owens Corning	Kimmco
		K-flex	Bajaj acoutex	
39	Insulation Adhesive	Pidilite	Foster	CISBOND
		Henkel		
40	Factory Made ducting	Rolastar	Ductofab	Zeco
		Technofab	Ecoduct	
41	Filters (in Air-conditioning system)	Thermodyne	Purolator	Anfilco
	Ventilation Fans:	Mackmark		
42	Tube/Vane Axial	Kruger	System Air	Greenheck
43	Inline (Centrifugal)	Kruger	System Air	Caryaire
		Ostberg		
44	Propeller Fans	Kruger	GE	Crompton
45	Air Washer/Scrubber	Edgetech	Zeco	System Air
		VTS	Crystal Air	
46	Fan	Kruger	Nikotra	Comferi

47	Pump	Kirloskar	Beacon	Wilo
48	Filters	As per manufacturer's standard		
49	Heat Recovery Wheel units	DRI	Enventus (Ostberg)	Flakt
50	Heat Pipe	HPT	SPC	VTS
51	Vibration Isolator	Easyflex	Resistoflex	Dunlop
52	Anchor/Fastener	Hilti	Fisher	Gripple
		Rawlplug		
53	Duct Support	GPL	Gripple	Easyflex Zip-Clip
54	PUF Saddles	Lloyds	Beardsell	Malanpur
55	FCU link	ATS (CSI)	Oventrop	CIM
56	Sound Attenuator	Ruskin	Systemair	Trox
57	CO Sensor	Siemens	Omicron	Johnson
58	VFD	Danfoss	ABB	Siemens
		Fuji		
59	CO2 Sensor	Siemens	Omicron	Johnson
	Demand Ventilation System			
60	Equipment	Conaire	Glenstorm	Tristar
61	Motorized Assembly	Conaire	Glenstorm	Tristar
62	Integrator	Conaire	Glenstorm	Tristar
63		Finolex	Kissan	Prince

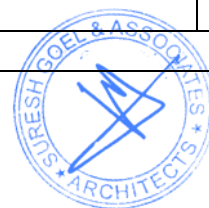


	High Density PVC Pipe	Supreme		
64	UVCI	Universal UV Solutions	UVTronix	Supco
65	Online Scale preventer	Scale Guard	Ristello	Supremo
66	Electronic Air Filtration System	Honeywell	Trion	Trane
67	VRF/VRV System	Daikin	Tosiba	Samsung
		Mitsubishi Electric		
68	Copper Refrigerant Pipe	Camipro	Rajco	Mandev
FIRE FIGHTING				
S. No.	Material	Approved Makes / Brands		
1	M. S Pipe	Tata	Jindal Hissar	Prakash Surya
		SAIL		
2	G. I Pipes	Jindal Hissar	Prakash Surya	SAIL
		TATA		
3	Forged Fittings	SS	VS	True Forge
4	ERW / butt Welded Fittings	MEC (Jainsons)	Unik	
5	Groove Fittings (UL listed)	Victaulic	Jainson	New
6		Sant	Leader	Zoloto

	Ball Valve / Gate Valve (Gunmetal)	CIM	Cassle	
7	Butterfly Valve	Zoloto	Kirloskar	Leader
		Audco		
8	Motorized Butterfly Valve	Advance	AUDCO	L&T
		Zoloto	Cassle	
9	Balancing Valve	Cassle	Utam& VTM	L&T
10	Non Return Valve	Cassle	Utam& VTM	L&T
11	Y-Strainer	Emerald	AUDCO	kirloskar
		Zoloto		
12	Pot Strainer	Rapidcool	Emerald	Sant
		AUDCO	Zoloto	
13	Thermometer	Emerald	Anergy	Honeywell
14	PICB Valve	Danfoss	Frees	Ovenrop
		Spirotech	Reflex	
15	Control Valve	Cassle	Viking (VL Listed)	
16	Airvent	Anergy	Siemens	Emerald/CIM /Advance/ Honeywell
17	Expansion Tank	Anergy	Emerald	
18	Hot Water Generator	Sant	Emerald	Rapidcool
19	Air Pressure Valve	Anergy	Flemco	Castle



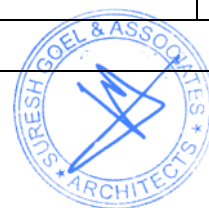
		SKS	Leader	
20	C.I. Double flanged sluice valves	Kirloskar	Zoloto	Sant
		IVC		
21	C.I. Double flanged Non-return valves	Kirloskar	Zoloto	Cassle
		IVC		
22	Dual Plate / Wafer Type Non-return valves	Kirloskar	Zoloto	Cassle
		IVC		
23	Foot valve with Strainer	Kirloskar	Leader	Zoloto
24	Y-Type / Pot / Suction Strainer	Kirloskar	Leader	Zoloto
		Tyco	Advance	
25	Fire Extinguishers	Zenith	Minimax	Safex
		Ceasefire	Newage	Safe Fire
26	First Aid Hose Reel Drum	Superex	Newage	Safex
		Safe Fire		
27	Thermo Plastic Hose Reels for Drums	Superex	Newage	Safex
28	R.R.L. Hose & C.P. Hose	Superex	Newage	Eversafe
		Safe Fire		
29		Superex	Newage	Eversafe
		Minimax	Lifeguard	Safeguard



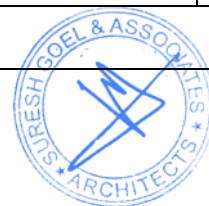
	Branch Pipe, Nozzle, Coupling etc.	Safe Fire		
30	Landing Valves	Superex	Newage	Eversafe
		Safe Fire		
31	Fire Brigade Connections	Superex	Newage	Eversafe
		Minimax	Safe Fire	
32	Fire Fighting Equipment not covered elsewhere	Superex	Newage	Eversafe
33	Hose Box	Superex	Newage	Eversafe
34	Sprinkler & Rosette Plates	Tyco	Viking	HD
		Spray Safe		
35	Flexible Connector (Drop) for Sprinkler	Easyflex	Viking	Newage
36	Flow Switches	System Sensor	Honeywell	Potter
		Tyco		
37	Inspector Test valve	Viking	Tyco	Hd
38	Pre-Fabricated Structural supports and clamps	Chilly	Hitech	Camry
		Easyflex		
39	Pressure Gauge	Emerald	Fiebig	H.Guru
		Danfoss		
40	Alarm Valve	Viking	Tyco	HD



41	Ant suction & delivery flexible pipe connectors	Easyflex	Resistoflex	Dunlop
		SAIL	Tata Steel Ltd	RINL
42	Flexible Duct Connector	Mapro	Kanwall Industrial corporation	Resistoflex
43	Stainless Steel Branch Pipe	Safex	Padmini	GETech
44	Fireman Axe / Installation Control Valve	Safex	Padmini	GE Tech
45	2-way / 4-way FBC	Safex	Newage	GETech
46	Sprinkler Heads	Tyco	HD	Omax UL
47	Pipe Protection Pypcoat wrapping	IWL	Taxa	Mac-poly coat
48	Rubber Bellow	Kanwal Industrial Corporation	Resistoflex	AIP Valves
49	Deluge Valve	Safex	Tyco	HD
50	Flexible Drop (UL Approved)	Safex	HD	Kofulso
51	Anti Vibration Pad	Cori Dunlop	Diamond Pipe Support	Easyflex
		Flexionics	Resistoflex	Emerald
52	Motors for Fire Pumps	Siemens	Kirloskar	Crompton
		ABB		
53		Kirloskar	Mather & Platt	Grundfoss



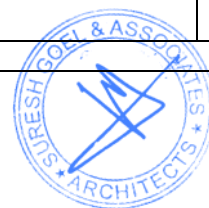
	Fire Pumps	Siemens	Schneider	ABB
54	Electrical Switch Gears	Siemens	Schneider	ABB
		L&T	Legrand	
55	Power and Control Cables	Universal	Polycab	Havells
		Finolex	Paramount	KEI
56	Control Panel of Terrace Pumps	Advance panel & Switchgear	Adlec	Tricolite Elect Industry
		Zeniya	Neptune	Precision System Control
57	Voltmeter & Ammeter	Schneider	Neptune	Rishabh
		Conserve		
58	Indicating Lamp and Selector Switches	BCH	Rishabh	Conserve
59	CT	AE	Kappa	Nutech Electrical
60	MCCB / MPCB / MCB/RCCB	Siemens	Schneider	Legrand
		ABB	Hager	
61	Contractors / Times, Overload Relays / Starter	L&T	Siemens	Schneider
62	Annunciation panels	PCD	Agni	Tricolite
		Adlec		



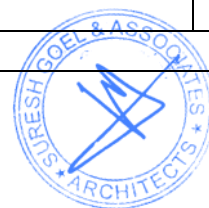
63	Single phase preventor	Minilac	L&T	Siemens
64	Anti Vibration Mounting	Kanwal Industrial Corporation	Resistoflex	Ewren
65	Starter	L&T	Siemens	Crompton
		GE	ABB	BCH
66	Current Transformer (Cast Resin)	AE	L& T	Kappa
67	Nuts / bolts	Lakshmi	Unbrako	
INSULATION				
S. No.	Material	Approved Makes / Brands		
1	Glass Wool	U.P. Twiga	Owen Corning	
2	Nitrile Rubber	Armacell	K-flex	Aerocell
3	Expanded polystyrene	SHI	Beardshell	Styrene packaging
4	Vibration isolator pads	Resistoflex	Kanwal	
5	Paracoat BPC	Paramount	Pidilite	
PUMPS AND WATER TREATMENT SYSTEM				
S. No.	Material	Approved Makes / Brands		
1	Pumps	Grundfoss	Xylem	WILLO
		KSB		



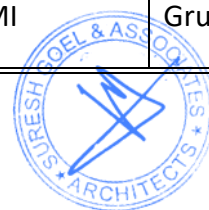
2	Submersible Drainage Pumps	KSB	Grundfoss	Crompton
3	Ball Valves	Cassle	SANT	Zoloto
4	Butterfly Valve	KSB	Cassle	AUDCO
5	C.I. double flanged sluice valve	Zoloto	Sant	Castle
		Kartar		
6	Non Return Valve	Zoloto	Sant	Castle
		Kartar	Leader	
7	Y – Strainers	Zoloto	Sant	Castle
		Kartar		
8	Float Switch	Nolta	Danfoss	Honey Well
9	Pressure Gauge	Fiebig	H. Guru	Danfoss
10	Dosing system	Milton Roy	Asialmi	Grundfoss
11	Liquid Level Controllers/ Liquid Level Indicator	Advance	Honey Well	Danfoss
12	Filter / Softener	Ion Exchange	Renaissance Aqua	Pentair
		Watcon		
13	Salt Saturator	Ion Exchange	Renaissance Aqua	Pentair
		Watcon		
14	Water Meter	Kent	Marshall	Sant



15	Water Treatment Plant	Ion Exchange	Brisanzi	Netsol
		Thermax	Hydro tech Paryavaran	
16	Vessels	Astral	KGM	Structural
17	Mechanical Seal	Burgmann	Sealol	
18	Grease Trap / Separator	ACO	Wade	Kassel
SEWAGE TREATMENT PLANT (STP)				
S. No.	Material	Approved Makes / Brands		
1	C.I. double flanged sluice valve	Kirloskar	Leader	Sant
2	C.I. Disk Type non return valves (65mm dia and above – Dual plate type)	Kirloskar	Leader	Sant
3	C.I. Strainer more than 65mm dia	Leader	Sant	Castle
4	PVC Valves	Cepex	Astral	Audco
5	C.I./D.I. Manholes cover	NECO	Kartar	SKF
6	Plastic Encapsulated Foot Rest	KGM	KK	SKF
7	Filter feed pump	Grundfoss	ITT	WILO / KSB
8	Hydro-Pneumatic Pumping Systems (Flushing, Soft and garden hydrant)	Grundfoss	ITT	WILO / KSB



9	Submersible Sump Pumps for collection chamber, equalization tank, Plant room drainage, Filter backwash sump	KSB	Grundfoss	Crompton
10	Domestic Hydro pneumatic transfer pump	Grundfos	DP-Holland	Willo- Mather
11	Pressure Transmitters / Hydrostatic Level Indicators	WIKA	Siemens	Johnson Control
12	Pressure Gauges	Fiebig	H. Guru	WIKA
13	Dosing System	ASIA LMI	Milton Roy	Grundfoss
14	Pump Vibration Pads & Suction & Delivery Flexible Connectors	Easyflex	Resistoflex	Dunlop
15	Pressure Sand & Activated carbon filter	M.S. Prefabricated	BRISANZA	FONTUS
16	Air Blowers	Everest	Beta	ABL
S. No.	Material	Approved Makes / Brands		
17	Ultra Violet Disinfection for Treated Effluent	Alpha UV	Sukrut	Neotec
18	Air Diffusors	BOBKAY	MM Aqua	REHAU
19	MBBR media for Aeration tank	MM Aqua	PP Aqua	Tecpro, INDION (ION Exchange)
20	Dosing Pumps	Milton Roy	Asia LMI	Grundfoss



21	Sludge Pumps (Centrifugal)	Kirloskar	Grundfoss	ITT Industries
22	Sludge Pumps (Screw)	Roto	UT Pumps	Stork
23	Tube Settler media	MM Aqua	PP Aqua	Tecpro
24	Centrifuge	Hiller	Alpha	Humboldt Wedag
25	Pressure Gauge	H. Guru	Fiebeig	WIKA
26	Level Gauge	H. Guru	Fiebeig	WIKA
27	pH Meter	Hach	Toshniwal	Ionix
28	Conductivity Meter	Hach	Toshniwal	Ionix
29	DO Meter	Hach	Toshniwal	Oakton
30	TDS Meter	Hach	Toshniwal	Oakton
31	Ultra Violet Water Purifier (WTP / STP)	Alfa UV Mumbai	Pentair	Eureka Forbes
32	Syphonic Roof Drainage System	Geberit	Saint Gobain	
33	Ozonisation System	Oraipl	Ozonics	Voltas
34	Geared Motor	Bonfiglioli	Grease Cotton	Motovario
35	Exhausters	Nicotra	Kruger	Green Heck
36	Compost Plant	Excel, Smart Enviro Bombay	Ecoman	Clean India
37	Preferred STP Assembler	Venza	Ion exchange	MCR venture

		Thermax		
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LIST OF ACCEPTABLE MATERIALS

Note:

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies. The Contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works proposed to be executed by the specialized agency, as specified.
2. Wherever applicable, the Engineer-in-charge may approve any material equivalent to that specified in the tender subject to proof being offered by the Contractor for equivalence to his satisfaction.
3. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature, in the particular specifications and in the list of approved materials attached in the tender, shall be used in the work.
4. All makes shall further confirm to standard specifications of each items as mentioned in technical specifications of tender documents.

