

LIST OF APPROVED MAKES

	NOTES: -	
1	Contractor shall supply ISI marked material as per the makes or brands indicated below as approved by the Engineer-in-Charge. In case the firm is not manufacturing ISI marked material for any of the brands, first quality material shall be accepted. The samples of the material shall in either case have to be got approved from the Engineer. In case Engineer -in-charge feels that some material /brand is not meeting the project requirements/client requirements or proper specifications, the same shall not be allowed even if its brand name is included in list of approved make/brand above. No claim of contractor on this account shall be entertained for difference in cost etc	
2	Material where no make / brand has been mentioned, ISI marked samples shall be submitted by the Contractor for approval of Engineer. For those classes of materials, where no firm exists with ISI mark, sample of first quality material of the firm shall be submitted for the approval of the Engineer.	
3	Any variation from the above mentioned makes/brands will require specific approval of the Engineer. Equivalency of any item/material shall be determined by the present day cost of item/material. The items falling within plus / minus (\pm) 2% of cost shall be treated as equivalent. Rates shall be collected only from the main suppliers/manufactures for comparison	
4	It will be contractors' responsibility to ensure the quality of products listed in approved list of brands. Contractor will have to replace the defective and substandard materials at his own cost.	
5	No material shall be used by the contractor as long as samples have been approved by Engineer/ Engineer-in-charge in writing and keep the record at site as per procedure	
SN	ITEMS	APPROVED MAKE
	CIVIL WORKS	
1	Cement	ACC, J.K. Cement, Binani, Ambuja, Birla Uttam, Vikram, Lafarge India Cement (Cement from mini cement plants shall not be allowed).
2	Steel	TATA TISCON, SAIL, VIZAG Rashtriya Ispat Nigam Ltd.,
3	Particle Board for panelled shutters, Ply, commercial board, Laminate, Flush Doors etc.	Century / Green Ply, Greenlam, Merino, Duroboard of Sarda Plywood, Garnet, Archidply, Mayur, Jyoti Ply, Formica, Amulya, Nuwud
4	Glass	Saint Gobain, Ashahi, Pilkington
5	Paints, Texture Paint and Distemper	Asian, Nerolac, ICI Dulux, Berger, Jenson & Nicolson, Spectrum.
6	Water Proofing Cement Paint	Snowcem Plus
7	Water Proofing Compound	CICO, Fosroc, SIKa, Krytone
8	Ceramic / Vitrified Tiles	Johnson, Kajaria, RAK, NITCO, Restile.
9	Wall Putty	Birla, JK, Asian,
10	Door Closer	Dorma, Ozone, HAFELE, Assa Abloy, Yale
11	Aluminium works, Accessories and Hardware	Jindal, Hindalco, Crown, Hindustan, Indian, Bharuka, Mahavir
12	White Cement	Birla White, JK.
13	Dash Fastener, Anchor Bolts	Hilti, Fischer, Bosch
14	Door Locks	Harisson or equivalent
15	Chequered Cement Concrete Tiles	Eurocon, Modern, Hindustan, NITCO
16	Grass Paver Blocks	Unistone, NITCO, Pavit
17	Floor Spring for Aluminium Doors	Everite, Dorma, Ozone, Assa Abloy, Yale
18	Stainless steel pipe, flat and box	Jindal, SAIL, Salem Steel, Cavelier
19	Fire Resistant Doors	GMP Technical solutions, Guardian Shakti Met, Godrej, Sukri Fire Doors, ALBA, Eureka Forbes, Minimx, Gandhi Automation, Navair
20	Fire Retardant Paint	Navair, Viper, Acro
21	Fire Rating Fittings	Hettich, Godrej, Dorma, Hardwyn, Ingersoll (Rand), Assa Abloy, Yale
22	Wooden Flooring	Kronotex / Pergo / Quickstep, Haro, Berry, Armstrong
23	Fire Rated Glass	Pilkington, Saint Gobain, Asahi

SN	ITEMS	APPROVED MAKE
24	Glass Patch Fitting	Dorma, Geze, D-Line, Assa Abloy, Yale
25	Glass door & Glass partition	Spacewood / Assa Abloy / Yale
26	Anti Termite Chemical (Chloropyriphose / Lindane	De-Nocil, Cynamide, Dursban, Markfed,
27	Ready-mixed Concrete	Birla (Grasim), L&T, Ultratech
28	Concrete Admixture	Fosroc, SIKA, Krytone
29	Bitumen Impregnated Fibre Board	Shailtex, Supreme, Duraboard
30	Aluminium Composite Panel	Alstrong, Eurobond, Alucobond, Alex Panel, Alstone
31	False Ceiling	Hunter Douglas, Dexune, Lindner, USG, HARSONS GREEN, India Gypsum, Armstrong, AMF, Saint-Gobain, Daikin
32	Stainless steel nuts, screws, washers and pressure plate screws	Nettlefold or equivalent make
33	EPDM Gaskets	Anand Reddiplex, Eriviro Seal
34	Water proofing Chemical	Fosroc / BASF / EUCLID, UMB, KRYTON, XYPEX, CICO, PIDILITE, DUPONT, Flowcreeet, Vandex, Tremco
35	Non shrink admixture / Supreplasticizer (Retarder or escalator)	Fosroc / BASF / EUCLID
36	Spider Glazing Fitting & Automatic Sliding Door	Dorma, Geze, D-Line
37	Acoustic Material	Traulit, Ecophone, Dexune, Armstrong
38	UPVC Joinery	Pranav Doors / Rehau / Salamander
39	UPVC Hardware	Pulse / Kinlong / GQ
40	Artificial Grass	Best Turf , Field Turf, Magic Turf
41	GRC Jally	Unistone or equivalent
42	Epoxy Grouting Mortar / Admixture	MBT, SIKA, STP, Endura, Dubond, Kerakoll,
43	Expansion Rebar Anchor Fastener	Hilti, Bosch, Fisher
44	Aluminium Building Expansion Joints	Manufactured by Vexcolt and supplied by M/s Tristar Intec Pvt. Ltd. M/s Watson Bowman, ACME and supplied Sanfield India Ltd., Manufactured by M/s C/S Expansion Joint and supplied by M/s Z-Tech India P. Ltd., Manufactured by J Sons, Metco, CS Group, P.D. Projects
45	Adhesives	Pidilite, Araldite, Century
46	Roof Sheetting	GE, Zestha, Midori, Damplon, Standing Seam
47	Silicone Sealant	G.E. Bayer Silicone, Dow Corning, Wacker, Remmers
48	Furniture	Godrej, Herman Miller, Haworth, Spacewood, Steelcase
PLUMBING WORKS		
1	EWS / IWC	Hindware,Jaquar. Kohler
2	W.C. seat cover	Hindware,Jaquar. Kohler
3	Flushing Cistern	Hindware,Jaquar. Kohler
4	Urinal / Sensor type urinal	Hindware,Jaquar. Kohler
5	Urinal partitions	Hindware,Jaquar. Kohler
6	C.P. brass flush valve for WC and Urinals	Hindware,Jaquar. Kohler
7	Automatic flushing system for Urinals	Hindware,Jaquar. Kohler
8	Wash basin	Hindware,Jaquar. Kohler
9	Toilet paper holder	Jaquar. Kohler, Hindware
10	C.P. brass fittings such as bib cock, two way bib cock, pillar cocks, stop cocks, angular stop cocks, C.P. flexible pipes / hose connection, C.P. brass waste, C.P. brass cast bottle trap, C.P. brass shower rose / shower assembly, long body bib taps, C.P. brass health faucets, single lever mixing fittings, sink mixture etc.	Hindware , Jaquar.
11	Stainless Steel Kitchen Sink	Nirali, Neelkanth, Jayna
12	Soap dish	Jaquar. Kohler, Hindware

SN	ITEMS	APPROVED MAKE
13	Liquid soap dispenser	Jaquar, Kohler, Hindware
14	Towel ring / Towel rail	Jaquar, Kohler, Hindware
15	Coat hook / Robe hook	Jaquar, Kohler, Hindware
16	Glass Mirror	Modi Guard, Saint gobin, Atul
17	P- Trap (Floor Trap)	Supreme, AKG, Prince
18	Floor Drain	Supreme, AKG, Prince
19	Stainless Steel Grating for P- Trap Cockroach Trap	Vijay, Sanjay Chilly, Near, Chilly
20	C.P. Grating for Floor P - Trap	Vijay , Sanjay Chilly, Chilly
21	GI Pipes (IS : 1239 and IS : 3589)	Astral, APL Apollo, Tata Steel / Jindal (Hissar)
22	GI pipes fittings	Unik / Zoloto M / R Brand
23	PVC / uPVC Pipe & Fittings	Supreme, AKG, Prima
24	GM / Forged Brass Ball Valves	AIP, C & R, Zoloto
25	Sluice Valves	Zoloto , AIP, Leader
26	Butterfly Valve	KSB, Zoloto , AIP, Leader
27	Non Return Valve / Check Valve	Zoloto , AIP, Leader
28	Motorised Butterfly Valve	Zoloto , AIP, Leader
29	Air Release Valve	Zoloto , AIP, Leader
30		
31	Y Strainer	Zoloto, Emaral, Venus
32	Level Controller (Water)	Sant, Active Controls, Technika
33	Level Indicator (Water)	Sant,, Active Controls, Technika
34	Paints	Nerolac, Asian, Burger
35	MH / Water Tank Plastic Steps	KGM, Neco, Kartar, Rif
36	Insulation for Hot Water Pipes	Armcel – Armaflex (UK) / Eurobatex – Union Foam (Italy) / K-Flex
37	Electric Water Heater / Gyser	Jaquar, AO Smith, Bajaj,
38	Pypcoat for Burried Piping	IWL / Coaltek / Polycam
39	Welding Rods	Advani, Essab, Sant
40	CPVC Pipes	AKG, Astral, Supreme
41	CPVC Pipes & Fittings	AKG, Astral, Supreme
42	Water Cooler	Oasis India, Blue star, Aquaguard
43	Submersible Pump	Wilo, Lubi, GRUNDFOS,
44	RCC Pipe	Pragati, Krishna Spun Pipe, OM spun pipe
45	Stoneware pipes & Gully Trap	Anand, BK Ceramics industries
46	C.I Manholes cover	Neco, Kartar, Rif
47	SFRCC Manhole Cover & Grating	ABC-Accurate, Surabh
48	Starter panel	L&T, Advance, Luubi
49	Cable	Skytone, Polycab, Batra Henlay
50	Solar Water System	Sunbirds, Bosch, Uratom
ELECTRICAL WORKS		
SNO	Details of Materials / Equipment	Manufacturer's Name
A	MEDIUM VOLTAGE EQUIPMENT	
1	VCB : 11 KV	ABB Larsen & Toubro Schneider Electric Siemens
2	11 kV/ 433 V Dry Type Transformer	Schneider Electrical

SN	ITEMS	APPROVED MAKE
		Sudhir Intra Power
		Indian Transformer
		ABB
3	HT Jointing Kit : 11 KV	Birla-3M
		IKEBANA
		M-Seal
		Raychem
4	HT Jointing Kit : 11 KV	Birla-3M
		IKEBANA
		M-Seal
		Raychem
5	Protection Relays	ABB
	Numeric Type	Areva
		L&T
		Schneider Electric
		Siemens
6	Potential Transformer	ECS
		Jyoti
		Kappa
		Pragati
7	Current Transformer	ECS
	(Cast Resin Epoxy Coated)	Jyoti
		Kappa
		Pragati
8	Static Power Meter & Logger	ABB
	(Trivector Meters)	EI Measure
		Larsen & Toubro
		Schneider Electric
		Secure
9	Electronic Digital Meter	ABB
	(A/V/PF/HZ/KWH)with LED Display.	Automatic Electric
		Larsen & Toubro
		Schneider Electric
		Secure
10	HRC Fuse and Fuse Fitting	GE
		Siemens
11	Battery Charger	Caldyne
		Chabbi Electricals
		Star Cap. Engg.
		Volstat
12	Sealed Maintenance Free Batteries	Exide
		Global
		Hitachi
		Shinkobe
13	11 KV HT Cable	Polycab
		Skytone
		Phinolex
		Universal
B MEDIUM VOLTAGE EQUIPMENT		
1	Power Distribution Panel	Adleck Power

SN	ITEMS	APPROVED MAKE
		Sudhir Power Ltd
		Tricolite
		Precision System Control
		Vidyut Control India Pvt Ltd
2	Final Distribution Board	ABB
		Hager
		L&T
		Legrand
		Siemens
		Schneider Electric
3	Isolation Transformer DB (For OT/ICU/ICCU)	Pieco Electrical
		L&T
		ABB
		Siemens
4	Air Circuit Breaker (3/4 Pole)	ABB(E - Max)
		Legrand (DMX3)
		Schneider Electric (MVS)
		Siemens (3 WL)
		HPL(Intelli Protect)
		Larsen & Toubro (U-Power)
5	Moulded Case Circuit Breaker (MCCB)	ABB(C Max)
		Legrand (DPX3)
		Larsen & Toubro(D- Sine)
		Schneider Electric (CVS)
		HPL(Intelli Tab/Tab)
		Siemens (3VL)
6	Motor Protection Circuit Breaker(MPCB)	ABB
		L&T
		Schneider Electric
		HPL
		Siemens
7	Miniature Circuit Breakers	ABB
		Hager
		L&T
		Legrand
		Siemens
		HPL
		Schneider Electric
8	Residual Current Circuit Breaker (RCCB)	ABB
		Hager
		L&T
		Legrand
		Siemens
		HPL
		Schneider Electric
9	Power/Aux. Contactor	ABB
		Hager
		L&T
		Legrand
		Siemens
		HPL
		Schneider Electric

SN	ITEMS	APPROVED MAKE
10	Auto Change Over Switch	Control & Switchgear
		HPL
		Hager
		L&T
		Socomec
11	Automatic Transfer Switch (ATS)	ASCO
		Cummins
		GE Power Control
		SOCOMECE
12	Control Transformer/Potential Transformers	Automatic Electric
		Gilbert & Maxwell
		Indcoil
		Pragati
		Precise
13	Current Transformer (Epoxy Cast Resin)	Automatic Electric
		Gilbert & Maxwell
		Indcoil
		Precise
14	Protection Relay (Numeric Type)	ABB
		Areva
		L&T
		HPL
		Siemens
15	Indicating Lamps LED type and Push Button	GE Power Controls
		Larsen & Toubro (ESBEE)
		Schneider Electric
		Siemens
		Vaishno Electricals
16	Overload relays with built in Single Phase preventer	ABB
		GE Power Controls
		Larsen & Toubro
		Mitsubishi Electrical
		HPL
		Schneider Electric
17	Electronic Digital Meters (A/V/PF/Hz/KW/KWH) with LED Display	Automatic Electric
		L & T
		Schneider Electric
		Secure
		Socomec
		HPL
18	Static Power Meter & Logger (SPML)With RS 485 port	Conzerv
		Larsen & Toubro
		Schneider Electric
19	Power Capacitor	ABB
		EPCOS
		Legrand
		Larsen & Toubro
		HPL

SN	ITEMS	APPROVED MAKE
		Neptune Ducati
		Schneider Electric (Meher)
20	Automatic Power Factor Correction Relay with Thyristorised Output	BELUK (Germany)
		EPCOS
		HPL
		Neptune Ducati
21	Thyristerised APFC Control Panel & Detuned Filter	ABB
		EPCOS
		Larsen & Toubro
		Schneider Electric (Meher)
		Neptune Ducati
22	PVC insulated XLPE aluminium/copper conductor armoured MV Cables upto 1100 V grade	Batra Henlay
		Finolex
		Polycab
		ESC Cable
		Skytone
23	LT Jointing Kit / Termination	Birla-3M
		Raychem
		REPL
		Safe Kit
24	Cable Glands Double Compression with earthing links	Baliga Lighting
		Comet
		Cosmos
25	Bimettalic Cable Lug	Comet
		Cosmos
		Dowell's (Biller India)
		Hax Brass (Copper Alloy India)
26	PVC insulated copper conductor stranded flexible wires (FRLS)	Batra Henlay
		Finolex
		Polycab
		ESC Cable
		Satellier
		Skytone
27	Mettalic / GI Conduit (ISI approved)	RM-Con(AKG)
		BEC
		NIC
		Satellier
		Vimco
28	PVC Conduit & Accessoires (ISI approved)	AKG
		BEC
		Vimco
		Satellier
		Precision
29	Lead Coated Flexible GI Conduit	PLICA India Pvt. Ltd.
		Flexicon
		ABB – Lumina/ Classic
30	Switch & Socket	Clipsal
		Crabtree
		M K India
		Legrand

SN	ITEMS	APPROVED MAKE
		Great white
		Philips
31	Industrial Socket	
	Splash Proof	Clipsal
		Legrand
		Neptune Balls
		Schneider Electric
32	Industrial Socket	
	Metal Clad	Hansel
		MDS
		Legrand
33	Ceiling Fan	Crompton Greaves
		Havells
		Polycab
		Luminous
34	Lighting Fixture	
	a. Halogen/PL/Metal Halide) / Fluorescent/LED	Polycab
		Philips
		Bajaj
		Wipro
	b. External Lighting Fixture	Polycab
		Philips
		Bajaj
		Wipro
	c. Aviation Obstruction Light (LED Type)	Actos
		Bajaj
		Binay
35	Electronic Ballast for Fluorescent (To be selected as per fixtures' manufacturer)	Bajaj
		Havells Sylvania
		Osram
		Opal
		Philips
		Polycab
		Wipro (APF)
36	Lighting Control Equipments/ Dimmers	ABB
		Lutron
		Schneider Electric
		Wipro
37	UPS	APC Merlin Gerin
		Eaton
		Consul Neowatt
		Mitsubishi
		Socomec
38	Battery	Exide
		HBL Life
		Standard Furukawa
		Luminous
		Amaron
39	Inverter	Luminous

SN	ITEMS	APPROVED MAKE
		Microtek
40	Battery Charger	Caldyne Chhabi Electricals Indiana Joshi Electricals Maheshwari Electricals Profab Engineer Rico Steel
41	Lighting Poles (HEX / Angular Pole/ MS Tubular (Decorative)	Bajaj Electricals HOMDEC Lighting Keselec K-Lite
42	Lightning Protection System	ABB-Pulsar APS LPI Indelec
43	Lighting & Surge Voltage Protection	ABB Hager Obeo Betterman Schneider Electric
44	230/12 V Step Down Transformer with BUILTIN Isolation Transformer	Talema Volstat
45	Energy saving Units	FMS Inncom Inn Link Systems Pumba Electronics
46	Exit Signage's	Legrand MK Prolite Philips Thorn Heinrich
47	Solar Power Pack	Central Electronics Ltd. Smart Rays Kotak Urja Rhine Solar Tata BP Solar
48	Cable tray/Raceway	Ricco Slotco Indiana Maheshwari
C	DG Set	
1	Diesel Engine	Cummins India Caterpillar Perkins Volvo Koel Kirloskar
2	Alternator	Caterpillar Stamford Koel Green Leroy Somer

SN	ITEMS	APPROVED MAKE
3	Fire Sealant & Fire Retardant Paint	BTHM Engineering Birla 3 M HILTI Promat
4	M.S. Pipe	AST Jindal Tata Steel Zenith
5	Vibration Isolators	Cori Dunlop Flexionics Kanwal Industries Corporation Resistoflex
6	Noise Control Silencer / Muffler (Residential Type Silencer)	Intertec Sound Control India
7	Fiberglass/Insulation	Owens Corning UP Twiga
8	Welding Rod	ADOR Advani Cosmos ESAB Super Bond (S)
9	MCCB/ACB	ABB Larsen & Toubro Schneider Electric Siemens Legrand
10	Anti-vibration mountings	Gerb, KOEL
11	Batteries	Amar Raja Exide HBL Nife Standard Furukawa Luminous
12	Battery Charger	AE Amar Raja Caldyne HBL Nife
13	Butterfly valves	Audco Advance
14	Gate/NRV/Check valves	Audco (above 50mm)
15	Strainers	Emrald
D	Elevators & Escalators	
1	Elevators & Escalators	Mitsubishi Electric corporation. Kone Elevators India Pvt. Ltd. Otis Elevators Schindler India Pvt. Ltd. Thyssenkrupp Johnson
2	Moulded Case Circuit Breaker (MCCB)	ABB

SN	ITEMS	APPROVED MAKE
		Larsen & Toubro
		Schneider Electric
		Siemens, Legrand
3	Miniature Circuit Breaker (MCB)	ABB
		L&T
		Schneider Electric
		Siemens, Legrand
4	Residual Current Circuit Breaker (RCCB)	ABB
		L&T
		Schneider Electric
		Siemens
5	Power/Aux. Contactor	ABB
		L & T
		Schneider Electric
		Siemens
6	PVC insulated XLPE aluminium conductor	Finolex
	armoured / unarmoured MV Cables upto 1100 V grade	Skytone
		Batra-Henlay
		ESC Cable
7	Cable Glands Double Compression with earthing links	Baliga Lighting
		Comet
		Cosmos
8	Bimettalic Cable Lug	Comet
		Cosmos
		Dowell's (Biller India)
		Hax Brass (Copper Alloy India)
9	PVC insulated copper conductor stranded flexible wires (FRLS)	Finolex
		Batra Henlay
		Skytone, Rajnigandha
		LAAP
		Grandlay
		ESC Cable
10	Metallic Conduit (ISI approved)	RM-CON
		BEC
		NIC
11	Accessories for Metallic Conduit (ISI approved)	Prakash Engineering Works
		Sharma Sales Corporation
		Super Sales Corporation
12	Fastners	Hilti
13	Welding Rods	Advani
14	Paints	Asian
		ICI
		Shalimar

SN	ITEMS	APPROVED MAKE
E DATA AND TELEPHONE		
1	Cat-6 Cable, Wires & Fiber Optic Cable	PANDUIT CORNING R & M SYSTIMAX SIEMON
2. a)	Patch Cords, patch panels, Face plate, Information outlet	PANDUIT CORNING R & M SYSTIMAX SIEMON
b)	Telephone Tag Blocks	KRONE
3	Data Switches, Receiver , Media Converter	ALCATEL CISCO EXTREME H.P
4	WiFi(AP's)	ALTAI COMPEX MOTOROLA RADMAX RUCKUS
5	EAPBX/Voice	Avaya NEC Alcatel
6	Metallic/PVC Conduit (ISI approved)	BEC RM-CON NIC VIMCO
7	Racks for Data Switches	HCL RITTAL VALRACK Heinrich
8	Telephone Armoured Cables	DELTON CABLES FINOLEX SKYTONE
F	EPABX	Makes
1	EPABX	NEC Alcatel Avaya
HVAC WORKS		
1	Rotary Screw Water-Cooled Water Chilling Machine (ARI Certified)	Carrier McQuay Daikin Dunham Bush(Voltas) Hitachi Trane York (JCI) VOLTAS LG
2	Water Cooled Centrifugal Chillers With VSD	Carrier

SN	ITEMS	APPROVED MAKE
	(ARI Certified)	McQuay Daikin
		Dunham Bush
		Hitachi
		Trane
		York (JCI)
		VOLTAS
3	Primary Chilled Water, Condenser Water & Hot Water Pump (Horizontal/End Section/Monobloc)	Armstrong
		DP Pump
		Grundfoss
		ITT
		Kirloskar
		Lubi
		Mather & Platt
		Xylem
4	Secondary Chilled Water & Hot Water pump with Variable Speed Pumping System including following :	Armstrong
		DP Pump
	Adjustable Frequency Drive	Grundfoss
	Automatic AFD Bypass	ITT
	Pump Controller	Kirloskar
	Differential Pressure Sensor /Transmitter	Lubi
		Mather & Platt
		Xylem
5	Variable Frequency Drive (For Pumps Cooling Tower & AHU)	ABB
		Allen Bradely
		Belimo
		Danfoss
		Siemens
		Vacon
6	Cooling Tower	Coron
		Delta
		Deon
		Flowtech
		Paharpur
7	Hot Water Generator (Electric Fired)	Emerald
		KEPL
		Rapid Cool
		Thermex
8	Air Handlers Unit	Carrier
		Deon
		Zeco
		Crystal Air System
		Flaktwoods
		Lloyd
		VTs
		Waves
9	Fan Coil Unit with AMCA Certified Fan for Sound & Performance	Carrier
		Deon
		Zeco
		Crystal Air System
		Flaktwoods
		Lloyd
		VTs
		Waves

SN	ITEMS	APPROVED MAKE
10	ARI Certified Cooling/Heating Coil (AHU & FCU)	Carrier Deon Flaktwoods Lloyd Zeco
11	AHU Fans (AMCA Certified for sound & Performance)	Comefri Deon Humidin Kruger Nicotra
12	Heat/Energy Recovery Wheel	DRI Flakt wood Greenheck Novelair
13	Dry Type Scrubber	Ambassador Airflow Emerald Lloyd Ryd Air Roots Air System Trion
14	Air washer (Wetting Pad type / Nozzle type scrubber)	Humidin Airflow Emerald Lloyd Ryd Air Roots Air System Trion
15	Scrubber & Air-washer Fans (AMCA Certified for Sound & Performance)	Comefri Deon Humidin Kruger Greenheck
16	Chilled Water Pressurized Expansion tank & Air Separator	Anergy Armstrong Deon ITT Emerald Grunofoss
17	Pan type Humidifier	Emerald Rapid Cool
18	Pot Strainer/ Y Strainer	Anergy Emerald
19	Inline Fan	Airflow Greenheck Kruger Ostberg Volter
20	Axial Fan/Centrifugal Fan (AMCA Certified for Sound & Performance)	Airflow Greenheck

SN	ITEMS	APPROVED MAKE
		Humidin
		Kruger
		System Air
		Wolter
21	Propeller Fan	Anchor
		Bajaj
		GE
		Usha
22	Three Phase Motors	ABB
		Crompton
		Havells
		Siemens
23	Chilled & Condenser Water pipes	Jindal Hissar (Jindal Star)
		SAIL
	M.S. Pipe upto 200 MM Dia.	Tata Steel
		Mukut Steel
24	Chilled & Condenser Water pipes	Jindal Hissar (Jindal Star)
		SAIL
	M.S. Pipe above 200 MM Dia. Factory rolled	Tata Steel
		Mukut Steel
25	Y-Strainer/Pot-Strainer	Emerald
		Rapid Cool
26	Butterfly Valve	Advance
		Audco
		Emerald
		NVR
		Kitz
		Zoloto
27	Butterfly Valve with Actuator	Advance
		Audco
		Emerald
		NVR
		Kitz
		Zoloto
28	Balancing valve (Manual)	Advance
		Kitz
		NVR
		Zoloto
29	Balancing Valve Automatic	Danfoss
		Flowcon
		TA-Auto Flow
30	Three Way/Two Way modulating Valves, Thermostat/Humidistat	Anergy
		Belimo
		Siemens
		Danfoss
		Johnson
		Honeywell
		Sauter
31	Check Valve	Advance
		Danfoss

SN	ITEMS	APPROVED MAKE
		Emerald
		Kitz
		Honeywell
32	Balancing Valve cum flow control (Pressure independent dynamic) valve with modulating actuator	Anergy
		Danfoss
		Flowcon
		TA-Auto Flow
33	Ball Valve	Anergy
		Belimo
		Emrald/
		Kitz
		Rapid Cool
		Zoloto
34	Auto Air Vent Valve	Anergy
		Rapid Cool
35	Pressure Gauges	Fiebig
		Emerald
		H Guru
		Taylor
36	Industrial Type Thermometer (Alcohol filled V form)	Fiebig
		Emerald
		H Guru
		Taylor
37	GI Sheet	Sail
		Tata
		Jindal
38	Aluminum Sheet	Hindalco
		Balco
		Nalco
39	Insulated Flexible Duct	Atco
		Caryaire
		Ravistar (Systemair)
		Eco Duct
40	Duct & Pipe Support	Easyflex
		Gripple
		Resistoflex
41	CAV/VAV Boxes	Carrier
		Belimo
		Trox
		Titus
		Betec Cad.
42	Factory Fabricated Duct	Ductofab
		Ecoduct
		Rolastar
		Zeco
43	Fire & Smoke Damper Spring Type	Airflow
		Caryaire
		Ravistar(Systemair)
		Pineair

SN	ITEMS	APPROVED MAKE
		Titus
		Greenheck
44	Fire Damper Actuator (Actuator shall be UL listed)	Belimo
		Danfoss
		Deone
		Siemens
45	Extruded aluminum Grills/Diffusers	Betec Cad.
		Caryaire
		Deon
		Pineair
		Mapro
		Greenheck
46	Pre, Fine & HEPA Filters	Spectrum
		Thermodyne
		Mechmark
		Klenzoid
		Purolator
		Deon
47	Flexible pipe Connector	Easyflex
		Resistoflex
		Flexionics
48	Flexible duct Connector	Easyflex
		Resistoflex
		Flexionics
49	Vibration Isolator	Easyflex
		Resistoflex
		Flexionics
		Dunlop
50	Closed Cell Elastomeric Nitrile Rubber for chilled water Pipe & Duct insulation (Along with Adhesive, Mechanical & UV Protection)	Armocell-Armflex
		K-flex
		Paramount
		Supreme
51	Extruded Polystyrene (For Underdeck/ Over deck Insulation)	Mettur Beardsell/
		Styrene Packing
		Owens Corning
52	Fibreglass (Al. Foil Faced)	U.P.Twiga
		Lloyd Insulation
		K-Flex
		Owen corning
53	UV Protective coating	Armocell Armachek
		Paramount
		Polybond
54	Paints	Birla 3 M
		Hilti
		Paramount
55	Tar Felt/CPRX compound	Shalimar tar product
56	Dash Fasteners	Fisher
		Hilti

SN	ITEMS	APPROVED MAKE
57	Welding Rods	Advani L&T
58	Copper Refrigerant Piping	Mandev Mehta Tube Rajco Shree Shyam
59	Copper Refrigeration Pipe Insulation	Armacell Aeroflex K-flex
60	Ozone Injection System	Ruks SPC Magneto
61	UVGI System (UL Listed)	Ruks SPC Magneto
62	PVC Drain Pipes	Supreme Astral Finolex
	FIRE FIGHTING	
1	M.S PIPE	JINDAL HISAR APL APOLLO TATA
2	FIRE AID HOSE REEL	NEWAGE MINIMAX M-TECH SPETRA FIRE
3	HOSE DRUM	NEWAGE MINIMAX SPETRA FIRE M-TECH
4	FIRE MAN AXE	NEWAGE MINIMAX SPETRA FIRE M-TECH
5	AIR VALVE	NEWAGE MINIMAX M-TECH
6	FIRE CABINET	NEWAGE MINIMAX SPETRA FIRE M-TECH
7	ENAMEL PAINT	NARALAC ASIAN BURGER
8	BUTTERFLY VALVE	KSB ZOLOTO AIP
9	NON RETURN VALVE	ZOLOTO Leader AIP
10	PRESSURE SWITCH	INDFOSS SWITZER EMRALD
11	PRESSURE GAUGE	FIEBIG GURU EMRALD

SN	ITEMS	APPROVED MAKE
12	ARMOUND CABLE	SKYTONE POLY CAP BATRA HINLAY
13	FIRE PUMP	WILO GRUNDFOS LUBI
14	FIRE EXTINGUISHER	NEWAGE MINIMAX SPETRA FIRE M-TECH
15	AIR VESSEL	NEWAGE MINIMAX M-TECH
16	Y-STRAINER	ZOLOTO LEADER EMERALD
17	FIRE HYDRANT	NEWAGE MINIMAX SPETRA FIRE M-TECH
18	SPRINKLER HEAD	NEWAGE TYCO MINIMAX
19	WELDING RODD	SANT Advani, Essab
	Fire Alarm System	
	Fire Alarm Panel, Detector & Devices	Tyco(Simplex)/Siemens(Cerberus Pro)/Notifie
	Fire Cable	Laap/Beldon/FRTEK/Satellier
	Access Control System	
	Controller	Conntinuum/Software House/CEM System
	Reader	HID/Morpho/Tyco
	Card	HID
	EM Lock	NCOM/BEL/ALGATECH
	8/4 Core Cable	Finolex/Lapp/Skytone/Satellier
	Nurse Call system	
	Nurse Call system	Honeywell/Daksh/Omnitech
	PA System	
	Public Address System ,Speaker, Amplifier	Heinrich/Bose/HRAMAN
	Conference System	
	Projector	Barco/Christie/Delta
	Video Conference	Polycom/Cisco/Sony
	Speaker	HEINRICH/ BOSE/HARMAN
	Amplifier	HEINRICH,Powersoft,CROWN
	Conference System	HEINRICH/Sennheiser/ Bayerdynamic
	Microphone	HEINRICH/Sennheiser/ HARMAN
	HDMI Switcher	HEINRICH/CRESTRON/Extron
	HDMI Cable	Heinrich/Kramer/AMX