

**Amendment No: 1**

to

**Tender no. HLL/ID/JIPMER/UHC –02/15/36 Dtd:08.01.2016**

for

**CONSTRUCTION OF URBAN HEALTH CENTER AT KURISIKUPPAM FOR JIPMER**

at

**JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION & RESEARCH ,  
PUDUCHERRY****Ref:** Tender no. HLL/ID/JIPMER/UHC –02/15/36 Dtd:08.01.2016

The following amendments are incorporated in the referred tender document:

**PART I , Technical Bid, Page 2****For:**

<b>EVENT</b>	<b>DATE</b>
Starting date of sale of documents	08.01.2016
Last date of sale of documents	30.01.2016
Last date for submission of queries	20.01.2016
Pre-Bid Meeting	20.01.2016 at 2.30 PM
Last date and time for submission of completed Tender	01.02.2016 at 3:00PM
Date and time for Opening of Technical Bid	02.02.2016 at 11:00AM

**Read As:**

<b>EVENT</b>	<b>DATE</b>
Starting date of sale of documents	08.01.2016
Last date of sale of documents	04.02.2016
Last date for submission of queries	20.01.2016
Pre-Bid Meeting	20.01.2016 at 2.30 PM
Last date and time for submission of completed Tender	05.02.2016 at 3:00PM
Date and time for Opening of Technical Bid	05.02.2016 at 03:30PM

**PART I , Technical Bid, Page 3**

**For:**

Last date and time of receipt of Tender: - 01.02.2016 at 03:00PM

Date and time of opening of Tender: - 02.02.2016 at 11:00AM

**Read As:**

Last date and time of receipt of Tender: - 05.02.2016 at 03:00PM

Date and time of opening of Tender: - 05.02.2016 at 3:30PM

**PART I , Section I ,Technical Bid, Page 4**

	<b>FOR</b>	<b>Read As</b>
6.	Tenders, which should be placed in sealed envelopes, as prescribed in Para 11 of Section II (Information & Instructions to Tenderers), will be received by the Chief Project Manager,HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006, Tele Fax: 0413 2272054 upto 03.00 PM on 01.02.2016. The Technical Bid will be opened by him or his authorized representative in his office on 02.02.2016 at 11:00AM.	Tenders, which should be placed in sealed envelopes, as prescribed in Para 11 of Section II (Information & Instructions to Tenderers), will be received by the Chief Project Manager,HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006, Tele Fax: 0413 2272054 upto 03.00 PM on 05.02.2016. The Technical Bid will be opened by him or his authorized representative in his office on 05.02.2016 at 03:30PM.

**PART I , Section I ,Technical Bid, Page 12**

<b>FOR</b>	<b>Read As</b>
<p><u>8.0 ELIGIBILITY CRITERIA FOR QUALIFICATION</u></p> <p>The tenderers who meet the following criteria only shall be considered for price bid opening</p> <p>8.1 The applicant should have satisfactorily completed during the last five years ending last day of the month March 2014.</p> <p>a) Three similar works each costing not less than Rs. 1.42 crores or</p> <p>b) Two similar works each costing not less than Rs. 2.14 crores or</p> <p>c) One similar work costing not less than Rs. 2.85 crores.</p> <p>The similar works specified above shall mean Institutional or Business Buildings only as classified in Part 4 of NBC 2005. 'Cost of work' shall mean gross value of the completed work including the cost of materials supplied by the Employer/ Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer / Project Manager or equivalent.</p>	<p><u>8.0 ELIGIBILITY CRITERIA FOR QUALIFICATION</u></p> <p>The tenderers who meet the following criteria only shall be considered for price bid opening</p> <p>8.1 The applicant should have satisfactorily completed during the last five years ending last day of the month <b>March 2015</b>.</p> <p>a) Three similar works each costing not less than Rs. 1.42 crores or</p> <p>b) Two similar works each costing not less than Rs. 2.14 crores or</p> <p>c) One similar work costing not less than Rs. 2.85 crores.</p> <p>The similar works specified above shall mean Institutional or Business Buildings only as classified in Part 4 of NBC 2005. 'Cost of work' shall mean gross value of the completed work including the cost of materials supplied by the Employer/ Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer / Project Manager or equivalent.</p>

**PART II , General Conditions of Contract, Page 11**

**For:**

**Item Rate Tender & Contract for Works**

(i) To be submitted by 03:00 PM on 01.02.2016 to **Chief Project Manager HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006,**

(ii) To be opened in presence of tenderers who may be present at 11:00 AM on 02nd February 2016 in the office of **Chief Project Manager, HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006,**

Issued to: \_\_\_\_\_

(Contractor)

Signature of officer issuing the documents \_\_\_\_\_

Designation \_\_\_\_\_

Date of Issue \_\_\_\_\_.

**Read As:**

**Item Rate Tender & Contract for Works**

(i) To be submitted by 03:00 PM on 05.02.2016 to **Chief Project Manager HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006,**

(ii) To be opened in presence of tenderers who may be present at 03:30 PM on 05th February 2016 in the office of **Chief Project Manager, HLL Lifecare Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605 006,**

Issued to: \_\_\_\_\_

(Contractor)

Signature of officer issuing the documents \_\_\_\_\_

Designation \_\_\_\_\_

Date of Issue \_\_\_\_\_

**PART III Special Conditions of Contract & Price Bid, Page 15**

**For:**

Internal Electrical Installation:

The Specialist Agency should have satisfactorily completed under their own name at least two internal electrical installations for similar buildings each costing not less than 1.50 crores (at least one of them in Central Government/Central Government Autonomous Bodies/Central Government PSUs) during last five years ending last day of the month of May 2011. Certificate of satisfactory completion/commissioning and working of the plant with date of completion, value as per final bill paid duly certified by authorized official not below the rank of Executive Engineer/ Project Manager to be enclosed. They should have a valid electrical license of applicable class issued from the State Govt. of Puducherry.

**Read As:**

Internal Electrical Installation:

The Specialist Agency should have satisfactorily completed under their own name at least two internal electrical installations for similar buildings each costing not less than 1.50 crores (at least one of them in Central Government/Central Government Autonomous Bodies/Central Government PSUs) during last five years ending last day of the month of **May 2015**. Certificate of satisfactory completion/commissioning and working of the plant with date of completion, value as per final bill paid duly certified by authorized official not below the rank of Executive Engineer/ Project Manager to be enclosed. They should have a valid electrical license of applicable class issued from the State Govt. of Puducherry.

**PART III Special Conditions of Contract & Price Bid, Page 17 to 24**

**For:**

**1. LIST OF APPROVED MAKES / AGENCIES FOR CIVIL & PLUMBING MATERIALS**

<b>S. No</b>	<b>Materials</b>	<b>Manufacturers / Agencies</b>
1	Ready mixed Concrete	UltraTech, RMC, RAMCO, ACC, Birla
2	Ordinary Portland Cement (Minimum 43 Grade)	UltraTech, RAMCO, India Cements, Birla (Grasim), ACC
3	Reinforcement/Structural Steel (Each LOT shall accompany manufacturer's Test Certificate)	SAIL, TISCO, RINL or BIS approved manufacturers
4	Stainless Steel	Salem Steel or as approved by E-in-C
5	White Cement	JK Cement, Birla White
6	Sand	Only River sand after approval of the sample by E-in-C
7	Bricks, Stones slabs, Lime, Neeru Stone aggregate	Samples to be got approved by E-in-C before use
8	Vitrified Tiles	Nitco, Johnson, Naveen, Euro, Morbito,
9	Flush doors	Kutty Flush Doors, Mysore Boards, Indian Plywood Mfg, Co, 'KIT' Ply' brand or any BIS approved brand
10	Fire check steel doors	Godrej, Sukri, Pacific works controls
11	FRP Doors	Fibrevent, Techno skills or Equivalent (or as approved

		by E-in-C)
12	Aluminium Fittings	Everite, Garnish, Crown Classic
13	Hydraulic floor Spring	Everite, Garnish, Hardwyn
14	Aluminium Extruded Sections	Jindal, Hindalco, Indalco
15	Aluminium Doors/Windows	As approved by E-inN-C
16	Paints, Distempers	Jenson & Nicholson, Asian, ICI, Nerolac
17	Glazing	Float Glass of Modiguard or Saint-Gobain
18	Water proofing Works	As approved by E-in-C
19	Hydraulic Door Closers	Hardwyn, Everite, Garnish
20	Water Proofing Cement Paint	Showcem India, ICI, Nerolac
21	Ceramic Glazed Floor Tiles	Nitco, Orient, Kajaria, Somany, Naveen
22	Super plasticizer	CICO, MC Bauchemie (India) Pvt Ltd, Roffes Construction Chemicals, Pedilite Industries
23	PVC Flooring	Armstrong
24	False Ceiling (a) Fibre (b) Galvanized Steel (c) Calcium Silicate	Armstrong, Gyproc (Saint-Gobain) Armstrong, Gyproc (Saint-Gobain) Aerolite, Gyproc (Saint-Gobain)
25	Cast Iron Pipe and Fittings (Soil Pipes)	BIC, HEP, NECO, Ajmera
26	RC Hume Pipes	Indian Hume Pipe Co, Spun Pipe Co., Sementia, CH Patel & Co or Equivalent

27	Stoneware Pipes & Fittings	Dalmia, Parry, TACEL or equivalent
28	Cast Iron Pressure Pipes & Fittings	Tisco, BRM, KESORM or Equivalent
29	GI Pipes (ISI marked)	TATA, Zenith, Jindal, Gujarat Steel, ITC
30	GI Fittings (ISI marked)	'R' Brand, UNIK or equivalent
31	Gunmetal Valves & Fittings	Premier, Leader, Zoloto, or ISI marked brand
32	CI Sluice Valves, Check valves	IVC (Calcutta) Kirloskar/ Upadyaya/or with ISI mark
33	CP Brass Sanitary and water supply Fittings	Jaguar/Essess/SOMA/BILMAT/ Dripless or equivalent approved by E-In-C
34	Vitreous China Sanitary ware	Hindustan, EID Parryware, Cera
35	WC Seats & Covers	Commander, Diplomat, Admiral
36	Polyethylene/Polypropylene CISTERN	EVERLAST, FLUSHFLO, ESYFLO, CHALLENGER, CHAMPION, COMMANDER, MARVEL, Slimline
37	CI Fixtures, CI Cover & Frame	Ashok Iron Works/Bombay Iron Works/A Husainji / Ismaelji, Neco, BIC, RIF
38	CPVC Pipes	Astral Polytechnik, Ashirvad, Ajay Industrial corp
39	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
40	Plywood Products, Parcticle Boards & Veneers	Duroply (Green Marked, BWR Century Plywood, Green Plywood Kitply, Mysore Boards
41	Adhesive	Pidilite, Araldite
42	Plastic Laminates	Formica, Greenlam, Bakelite HYLAM



43	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
44	Tile Joint Filler	Bal Adhesives & Grouts, "ROFFE" Rainbow Tile Mate, Silicon Sealnet of GE Bayer Silicon/"Zentrival FM" of MC-Bauchemie (India) P Ltd
45	Resin Bonded Glass Wool	Crown Fibre Glass/Rock lloyd or equivalent approved by E-in-C
46	MS Tubes	TATA or equivalent
47	Roof Water Proofing	India Water Proofing, CICO, SIKA
48	Silicon Sealant	GE Bayer Silicone, SIKA
49	Anchor Fastener	Hilti, Bosch
50	Formwork Release Agent	Fosroc, MBT, MC Baucheme CICO, ADO Conmat
51	EPOXY	FOSROC. SIKA Qualcrete, Aradlite MBT
52	Water proofing System	CICO, FOSROC, SIKA, Supreme Siltech Chemicals, ADO Conmat
53	Modular Operation Theatre	MGI India P Ltd, PES or Equivalent
54	Stainless Steel Sinks	Prestige/AMC/Jayna/Kingston/Neelkanth
55	CP Waste, Spreaders for Urinals	Jaguar / Essess
56	Sensor based Auto Flushing System for Urinals	AOS Systems/Angash
57	SFRC Manhole Covers	Southern Concrete Industries, Rajvaibav Enterprises or equivalent
58	UPVC Pipes/Fittings	Supreme/Prince/ Finolex

59	Mirror	Atul / Modifloat/Saint Gobain/Golden Fish
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#### 4. LIST OF APPROVED MAKES FOR ELECTRICAL AND SUBSTATION ITEMS

S. No	Materials	Manufacturers / Agencies
1	H.T.Panel	Crompton/ABB/Alstom/Siemens/Ashok Leyland
2	Transformer	Crompton/kirloskar/Voltamp/Alstom/(DRY, Cast Resin) / BHEL/ Universal
3	Bus trunking/Rising mains	(Along with all accessories) L&T /Schneider/GE/Control &Switchgear)
4	LT Panels	GE/ABB/L&T/SIMENS/SCHNEIDER
5	ACBs	Same as in (4)
6	MCCBs	Same as in (4)
7	MCBs with DBs	Legrand/Hager/Alstom/Merlin/Gerin/ Havells/Standard/Indo-asian
8	Accessories of HT/LT Panels	As per manufacturer's specified make
9	HT/LT UG cables	Cable corporation/Universal/Gloster/Havells/NICO /Polycab
10	Wiring cables	Polycab/Havells/RR Cables/Finolex
11	Switches (SFU)	GE/ABB/L&T/Siemens/Schneider
12	Modular Switches (SFU)	Legrand /Crabtree/EssEsskay(signature)MK/clipsal/Northwest

13	Piano Type switches and Boxes	Anchor/Leader
14	Cubicle Type Fuse Unit	Siemens /GE/L&T/Siemens/Schneider
15	SFUs/Isolators	Siemens/GE/L&T/ABB/ SCHNEIDER
16	Starters / Contractor/Bi metal Relay	Siemens/L&T/ABB
17	Push Button/Indicating Lamps (LED type)	Siemens/L&T/ABB
18	CTs	Kappa
19	Control Fuse Base with HRC fuse	GEC / Alsthom
20	Selector Switch	Salezer
21	Measuring Instruments	AE/IMP/Rishab
22	MS Conduit	Supreme /BEC/NIL /or any Other ISI marked
23	PVC Conduit	Precision/Avon Plast/Clipsal
24	Accessories for PVC Conduit	Precision/Avon Plast
25	Capacitors	Universal / Siemens/L&T / GE
26	Relays	L&T/EE/GE
27	Digital Meters	Enercon/Alacrity/L&T
28	Jointing Kits	Rey Chem/3 Birla

## 5. LIST OF APPROVED MAKES FOR FIRE HYDRANT SYSEM

S. No	Materials	Manufacturers / Agencies
1	Diesel Engine	Kirloskar/Cummins
2	Fire Pumps	Kirloskar/Mather & Platt/Seimens
3	Electrical Motors	Kirloskar / Seimens
4	MS Pipes ('C' Class)	TATA / ZENITH
5	Butterfly Valves	Intervolve / Audco/ Leader
6	BALL VALVE (15-40 mm Dia)	RB/ITAP/Leader
7	Sluice Valves	Kirloskar/Kalpana/UNIK'R' Brand
8	Non-Return Valve (Flap Type C I)	Intervolve/Audco
9	Hydrant Valves	Newage/Minimax/Peter Autokit
10	Hose	Newage, Premier Extra, Padmini, Aqua Dura
11	Fire Extinguisher	Safex/Minimax/Peter Autokit
12	Pressure Guage	HD/Waree/H-GURU/Fiebig
13	Pressure Switch	Danfoss/Indfoss
14	Termination Lugs	Dowells/Usha
15	PVC insulated Copper Wires	FINOLEX/WINCAP/POLYCAB
16	Cables	Universal/CCI/Gloster
17	SFU's/FSU's	Ee/L&T/C&S
18	HRC Fuses	Havells/Ee

19	Over Load Relays	Ee/L&T
20	Single Phase Preventer	L&T/ Minilac
21	Indicating Lamps & Push Buttons	L&T /Technic
22	Air Break Contractors	Seimens/L&T/ABB
23	Sprinkler Head	HD/Tyco/Reliable/Fireasfe
24	Sprinkler Icv	HD/Tyco/Viking/Reliable/Fireasfe/Wormacd
25	Gunmetal Branch Pipe	Newage/Minimax/WINCO/Kailash
26	Threaded pipe fittings	R Brand/Unik
27	Air Release Valve	Rb/Tbs/Cimbrio
28	First Aid Hose Reel Drum	Minimax /Newage
29	First Aid Hose pipe	Padmini/Swastik/Usha Fire
30	Suction Strainer	Grandprix /Jaypee/Kirloskar/Leader
31	Battery	Exide/Amco
32	Pipe Protection	Pipe Kote (4mm Thick)
33	Pipe Support	Hi-Tech /Fabricated As per Site Conditions
34	Nozzle	Newage/Winco/Kailash
35	Foot valve (Gunmetal)	Neta/Leader
36	Foot Valve (Cast iron)	Kirloskar

## 6. LIST OF APPROVED MAKES FOR FIRE DETECTION SYSTEM

S. No	Materials	Manufacturers / Agencies
1	Addressable Smoke and Heat Detectors and Multi Criteria	Notifier/Edwards/Bosch
2	PVC Insulated Copper Cables	Finolex/Lapp/Belden
3	Addressable Panel	Edwards/Bosch Notifier
4	Duct Detectors/Manual Call Box/input Module/Control Module	Zicon, Firepro, Honeywell, Siemens, Schneider, Bosch
5	Strobe	System Sensor /UL listed
6	Conduit	BEC/Vimco

**Read As:**

### 1. LIST OF APPROVED MAKES / AGENCIES FOR CIVIL & PLUMBING MATERIALS

S. No	Materials	Manufacturers / Agencies
1	Ready mixed Concrete	RMC/RAMCO/ACC/Birla/Ultratech
2	Ordinary Portland Cement (Minimum 43 Grade)	ACC/UltraTech/India Cement/ Birla/Ramco
3	Reinforcement (Each LOT shall accompany manufacturer's Test Certificate)	SAIL/ TISCO( TATA)/ RINL/ VSP/ JINDAL
4	Stainless Steel	Salem Steel
5	Structural Steel	Conforming to BIS 2062 and approval of source by Engineer (TISCO/SAIL/VSP/JINDAL)
6	White Cement	JK Cement/ Birla White/Asian
7	Sand	Sand / M Sand ( Crushed aggregate) to comply with CPWD spec / relevent IS code spec.
8	Bricks, Stones slabs, Lime,	Material / Sample to be got approved before use

	Neeru Stone aggregate	
9	Vitrified Tiles/Anti Skid Cermaic Tiles	Johnson, Nitco,Kajaria /RAK/Premium/I Quality
10	Flush doors	Samrat,Kanchan Prima, Swastik (Kitply), Century/Kutty/ Greenply/ Uniply/ Archid
11	FRP Doors	Fibrevent / Techno skills/Meena Fibre
12	Aluminium Fittings	Everite, Garnish,Crown Classic
13	Hydraulic floor Spring	Dorma/Everite/Hardwyn/Garnish
14	Aluminium Extruded Sections	Jindal/ NALCO/Hindalco/ Indalco
15	Aluminium Doors/Windows	As approved by E-IN-C
16	Paints/ Synthetic enamel Paint/Distempers/ Acrylic emulsion/Cement primer/Deluxe multi surface paint	Asian, Nerolac, Berger, I Quality
17	Glazing (high performance glass for DGU and SGU)	Saint Gobain / Asahi / Pilkington/Modi float
18	Glass	Saint Gobain / Asahi / Modiguard
19	French Spirit Polishing	Sheenlac/MRF/Touchwood
20	ACP	Alucobond/Alcopla/Eurobond
21	Precast Cement Concrete Tiles	Eurocon/ Ultra make/Approved by E- In- C
22	Paver Block	As approved by Engineer In Charge
23	Water proofing Works	FOSROC/ SIKA / Pidilite / CICO/Penetron / Polyplus
24	Hydraulic Door Closers	Hardwyn, Everite, Garnish
25	Water Proofing Cement Paint	Snowcem India/ ICI/ Nerolac/ Berger/ asian
26	Ceramic / Glazed Floor Tiles	Nitco, Johnson,Kajaria, Somany - Premium I Quality
27	Super plasticizer	CICO, Roff / Pidilite
28	False Ceiling (a) Fibre (b) Galvanized Steel (c) Calcium Silicate	Armstrong / AMF Armstrong/Hunter Douglass Aerolite / Promat/Saint Gobain Armstrong
29	Stainless Steel Works	As approved by Engineer-in-charge
30	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
31	Adhesive	Pidilite, Araldite
32	Plastic Laminates	Formica, Greenlam, Bakelite HYLAM
33	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
34	Tile Joint Filler	Bal Adhesives & Grouts,"ROFFE" Rainbow Tile Mate, Silicon Sealnet of GE Bayer Silicon/"Zentrival FM" of MC-Bauchemie (India) P Ltd
35	Resin Bonded Glass Wool	Crown Fibre Glass/Rock lloyd
36	MS Tubes	TATA / Lloyd/NSL/JINDAL
37	Roof Water Proofing	SIKA/Pidilite/Fosroc/ BASF

38	Silicon Sealant	Dow Corning
39	Anchor Fastener	Hilti, Bosch
40	Formwork Release Agent	Fosroc, MBT, MC Baucheme CICO, ADO Conmat
41	EPOXY	FOSROC. SIKA
42	Cast Iron Pipe and Fittings (Soil Pipes)	BIC, HEP, NECO, Ajmera
43	CPVC FITTINGS	ASTRAL / ASHIRWAD/SUPREME/PRINCE/ FINOLEX
44	CPVC PIPES	ASTRAL / ASHIRWAD SUPREME/PRINCE/ FINOLEX
45	Stoneware Pipes & Fittings	Dalmia, Parry
46	Cast Iron Pressure Pipes & Fittings	Tisco, BRM, KESORM
47	GI Pipes (ISI marked)	TATA, Zenith, Jindal, Gujarat Steel, ITC
48	GI Fittings (ISI marked)	'R' Brand KS/UNIK
49	PVC PIPES	SUPREME / PRINCE /ASTRAL/FINOLEX
50	PVC FITTINGS	SUPREME / PRINCE /ASTRAL/FINOLEX
51	PVC floor Trap	SUPREME / PRINCE
52	CP Brass Sanitary and water supply Fittings	Jaguar (Florentine)/ESSESS/HINDWARE/PRAYAG PARRY/METRO/PARKO
53	Sanitaryware	Parryware/Hindware/Cera
54	Polyethylene/Polypropylene CISTERN	EVERLAST/FLUSHFLO/ESYFLO/ CHALLENGER/CHAMPION/COMMANDER, MARVEL /PARRY/HINDWARE
55	CI Fixtures	Ashok Iron Works/Bombay Iron Works/A Husainji / Ismaelji
56	Plywood Products, Particle Boards & Veneers	Duroply (Green Marked, BWR Century Plywood, Green Plywood Kitply, Mysore Boards/SHARON
57	Water proofing System	SIKA/Pidilite/Fosroc/ BASF
58	CP Waste, Spreaders for Urinals	Jaguar / Orient / Parko
59	SFRC Manhole Covers	KK/SK & Precast Concrete
60	PVC Pipes/Fittings	SUPREME / PRINCE /ASTRAL / Finolex
61	SS Sink	Nirali, Hindware, Franke
62	Mirror	Modifloat/Saint Gobain

## 2. LIST OF APPROVED MAKES FOR ELECTRICAL AND SUBSTATION ITEMS

S. No	Materials	Manufacturers / Agencies
1	H.T.Panel	Crompton/ABB/Schneider/Siemens
2	Transformer	Crompton/kirloskar/ABB/BHEL/Schneider
3	RMU	Crompton/ABB/Schneider/Siemens
4	DG Engine	Caterpillar/Cummins/kirloskar/
5	Alternator	Stamford/Caterpillar/Crompton greaves
6	Bus trucking/Rising mains	Schneider/Legrand Control & Switchgear
7	LT Panels	SIEMENS/SCHNEIDER/ ABB
8	APFC Panels	Sprague/EPCOS/INEL



9	ACBs	Same as in (7)
10	MCCBs	Same as in (7)
11	MCBs with DBs	Legrand/Schnider/Siemens/Havells
12	Accessories of HT/LT Panels	As per (1) and (7)
13	HT/LT UG cables	Universal/Gloster/Havells/Polycab,Cable corporation.Nicco
14	Wiring cables – FRLS grade	Polycab/Havells/RR Cables/Finolex,KUNDAN
15	Switches (SFU)	ABB/Siemens/Schneider/GE
16	Modular Switches (SFU)	Legrand/Carbtree/Panasonic/ANCHOR
17	Piano Type switches and Boxes	Anchor/Leader
18	Cubicle Type Fuse Unit	Siemens /GE /Schneider
19	SFUs/Isolators	Siemens/GE /ABB/ SCHNEIDER
20	Starters / Contractor/Bi metal Relay	Siemens /ABB/Schneider
21	Push Button/Indicating Lamps (LED type)	Siemens /ABB/Schneider
22	CTs	Kappa/Intrans/PGR power/Indus/Kapco
23	Control Fuse Base with HRC fuse	GE /Siemens/Schneider
24	Cable trays	Profab/ Elcon/OBO Bettermann/Copper B line
25	Measuring Instruments	AE/Conserv/Rishab
26	MS Conduit	Supreme /BEC/NIL
27	PVC Conduit	Precision/Avon Plast/Clipsal/Balco
28	Light Fittings	Philips/Wipro/Crompton/Havells
29	Capacitors	Siemens / Crompton greaves/Schnedider
30	Relays	GE /Siemens/Schneider
31	Digital Meters	Enercon/Alacrity/BHEL
32	Jointing Kits	Rey Chem/3 Birla

### 3. APPROVED MANUFACTURERS LIST - ELV SYSTEM

<b>Public Address system</b>			
Arm. shielded multi pair communication copper cable	Polycab	Finolex	Varsha
Ceiling mounted speaker	Bosch	Philips	Sony
Wall mounted speaker	Bosch	Philips	Sony
Amplifier	Bosch	Philips	Sony
Goose neck microphone	Bosch	Philips	Sony
Table top micro phone	Bosch	Philips	Sony
Call station cum voice alarm router	Bosch	Philips	Sony
Rack	Rittal	Netrack	APW
<b>Voice and Data system</b>			
PVC rigid/flexible conduits	Avone	Emjay	Precision
GI Back boxes	MK	Legrand	BOSCH
6 core optic fiber cable	Legrand	Digi link	AMP

UTP Cat 5 / Cat 6 copper cable	Legrand	Digi link	AMP
Twisted pair multi core unarm. copper cable	RR cable	Finolex	Varsha
RJ 11 socket	Legrand	Digi link	AMP
Face plate	Legrand	Digi link	AMP
Patch cord - 1 mtr	Legrand	Digi link	AMP
Patch cord - 2 mtr	Legrand	Digi link	AMP
Terminal block for telephone	Krone	Connectwell	BOSCH
Patch panel	Legrand	Digi link	AMP
Ethernet switch	Legrand	Digi link	AMP
Rack	Legrand	Rittal	APW
EPABX	Nortel	Avaya	Alcatel/ SIEMENS
<b>Audio Video System</b>			
Projector	Panasonic	Sanyo	BOSCH
Speakers	Bosch	Philips	LG
Amplifiers	Bosch	Philips	LG
Projector screen	Draper	Liberty	Honeywell
Rack	Rittal	Netrack	APW
Cables	Polycab	Finolex	Varsha
<b>CCTV system</b>			
Coaxial cable - CCTV system	RR cable	Finolex	Varsha
Indoor fixed type camera	Panasonic	LG	Honeywell
PTZ camera	Panasonic	LG	Honeywell
Digital Video Recorder	Panasonic	LG	Honeywell
Hard Disk	Thoshiba	Samsung	Seagate
LCD monitor	Panasonic	LG	Samsung
PTZ controller	Panasonic	LG	Honeywell
Power supply unit	MK	-	Honeywell
Rack	Rittal	Netrack	APW
Projector screen	Draper	Liberty	Honeywell
Rack	Rittal	Netrack	APW
Cables	Polycab	Finolex	Varsha
<b>Access System</b>			
Cables	Polycab	Finolex	Varsha
Equipments	Cardkey	Honeywell	LG

#### **4. LIST OF APPROVED MAKES OF FIRE FIGHTING SYSTEM INSTALLATION**

<b>S. No.</b>	<b>Details of Materials / Equipment</b>	<b>Manufacturer's Name</b>
1.	Fire / Sprinkler Main Pump / Jockey	Kirloskar KSB Wilco - Mather & Platt Grundfos
2.	G.I. / M.S. Pipes (IS : 1239 / IS : 3589)	Jindal,ZENITH Prakash Tata Steel
3.	Standard M.S. Fittings	Seamless Fittings Pipeline Products
4.	DI / CI / Forged Steel Fittings	Jainsons Industries VS SS Fittings BM Fittings
5.	Double / Single Headed Landing Valve	New Age, Leader Safeguard Minimax
6.	Fire Hose	CRC Jayashree New Age Padmini Safeguard
7.	First Aid Hose Reel (LPCB Approved)	New Age Padmini Safeguard Minimax
8.	Branch Pipe	New Age Safeguard Minimax
9.	Fireman Axe	New Age Safeguard Minimax
10.	Installation Control Valve	Tyco,Audco,Leader Viking Victaulic
11.	Fire Extinguishers	Alert - Tyco Minimax Safefire Safeguard
12.	Water Flow Switch	Honeywell Rapid Control System Sensor Spray Safe
13.	Pipe clamp & supports	Chilly

		Euroclamp Kanwal
14.	GM / Forged Brass Valves	Danfoss, Newage RB Honeywell Zoloto
15.	Butterfly Valve/ check valve	Audco, Newage Danfoss Honeywell
16.	Air Release Valve	Arco, TBS,cimbrio OR RB Zoloto
17.	Anti-Vibration Mounting & Flexible Connections	Cori Dunlop Flexionics Kanwal Industrial Corporation Resistoflex
18.	Pressure Gauge	Emerald,HD,Waree Fiebig H Guru Wika
19.	Welding Rods	ADOR Esab Advani
20.	Fastener	Fisher Hilti
21.	Flexible hose for sprinkler	New Age,Tyco
22.	Sprinkler Head	HD, Tyco, Reliable, Fireshape

**5. LIST OF APPROVED MAKES OF FIRE DETECTION AND ALARM SYSTEM INSTALLATION**

<b>S. No.</b>	<b>Details of Materials / Equipment</b>	<b>Manufacturer's Name</b>
1.	Smoke / Multi criteria/Detectors	Notifier Edwards Honeywell (XLS-3000), Bosch
2.	Heat Detectors	Notifier Edwards Honeywell (XLS-3000) Bosch
3.	Control Modules / Monitor Modules / Fault Isolators	Notifier Edwards Honeywell (XLS-3000)
4.	Main Control Panel	Notifier Edwards

		Honeywell (XLS-3000)
5.	Manual Call Stations / Hooters /Speakers	Notifier Edwards Honeywell (XLS-3000)
6.	Sealed Maintenance free Batteries	Exide,Amaron GS Batteries (Japan Storage Co. Ltd.) Hitachi
7.	PA System	Notifier BOSCH Ates Honeywell
8.	PVC insulated copper conductor FRLS cable	National Polycab Skytone

**6. LIST OF APPROVED MAKES FOR EQUIPMENT & MATERIALS**

<b><u>Sl. No.</u></b>	<b><u>Details of Materials / Equipment</u></b>	<b><u>Manufacturer's Name</u></b>
<b><u>1</u></b>	Elevators	OTIS Elevator Company Kone Elevators India Pvt. Ltd. Johnson lifts

**7. LIST OF APPROVED MAKES OF MATERIAL FOR STRUCTURAL GLAZING WORKS**

<b>1</b>	<b>Aluminium Extrusions</b>	<b>Hindalco, Nalco, Indal, Jindal.</b>
<b>2</b>	<b>Stainless Steel</b>	<b>Salem Steel.</b>
<b>3</b>	<b>EPDM</b>	<b>AMEE Rubber Ind., Bohara Rubber.</b>
<b>4</b>	<b>Fiber Glass Wool</b>	<b>U. P. Twiga Fiberglass Ltd., Lloyds insulations</b>
<b>5</b>	<b>Rock Wool</b>	<b>Vetrotex Ind., Lloyds insulations</b>
<b>6</b>	<b>Aluminium Composite Panel</b>	<b>Alucobond, Alcopla, Alpolic, Reynobond.</b>
<b>7</b>	<b>Clear Float Glass</b>	<b>Shanghai Pilkington/ St. Gobain/ Modi/ Asahi</b>
<b>8</b>	<b>Coated Glass</b>	<b>Shanghai Pilkington / St.Gobain / Asahi.</b>
<b>9</b>	<b>Spider Fittings</b>	<b>Dorma,</b>
<b>10</b>	<b>Aluminium Solid sheet</b>	<b>Hindalco, Nalco, Indal, Jindal</b>
<b>11</b>	<b>Powder Coating</b>	<b>Jotun</b>
<b>12</b>	<b>PVDF Coating</b>	<b>Duranar PPG</b>
<b>13</b>	<b>Expansion Anchor Fasteners</b>	<b>Hilti, Fischer (SS Grade 316)</b>

<b>14</b>	<b>Screws, nuts bolts, washers rivets.</b>	<b>Kundan, Arrow (SS Grade 304)</b>
<b>15</b>	<b>Chemical Anchors</b>	<b>Hilti, Fischer</b>
<b>16</b>	<b>Door &amp; Window Accessories</b>	
	<b>a. Lockset</b>	<b>Giesse, Hafele</b>
	<b>b. S.S. Friction hinges</b>	<b>Seccuristyle, Hafele</b>
	<b>c. Patch Fittings</b>	<b>Dorma</b>
	<b>d. Floor springs and Door Closers</b>	<b>Dorma</b>
	<b>e. Door Handles</b>	<b>Dorma</b>
	<b>f. Panic Bars</b>	<b>Dorma</b>
<b>17</b>	<b>Structural Silicon Sealant</b>	<b>Dow Corning</b>
<b>18</b>	<b>Weather Silicon Sealant</b>	<b>Dow Corning</b>
<b>19</b>	<b>Spacer tapes</b>	<b>Norton</b>
<b>20</b>	<b>Foam Spacers (Backer rods)</b>	<b>Norton</b>

**All other terms and conditions remain unaltered.**

**.....End.....**