

HSCC (INDIA) LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
E-6(A), Sector-1, NOIDA (U.P) - 201301

Date: 04.06.2024

AMENDMENT NO. - VI

Subject: Tender for “Construction of Super Speciality OPD Block at Masjid Moth in AIIMS, New Delhi and their Maintenance during Defect Liability Period on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis”

Tender No: HSCC/AIIMS/OPD -AIIMS/EPC/2024/40 dated 15/03/2024

This has reference to above tender, the following Amendment may be noted which shall be treated as part of the contract to be uploaded & submitted along with their tender/ bid:

1. The Last date of submission & opening of bids has been extended as follows:

Last date to fill/upload the tender: **upto 15:00 hrs. on 11.06.2024**
through e-Tendering

Date of Opening of bids/tender : on 11.06.2024 at 16:00 hrs.

2. The validity of Bid Security/ Earnest Money Deposit (EMD) to be submitted by the bidder along with their bid in case of Bank Guarantee (BG) shall be minimum period of 180 (One Hundred Eighty) days i.e. valid upto **23.11.2024**.
3. Refer Vol.-V (Technical Specifications & Make List) – Revised List of Approved Makes for - Electrical & HVAC Works are enclosed. Prospective bidders are advised to follow the “Revised List of Approved Makes for - Electrical & HVAC Works” only.

All other terms & conditions remain unchanged.

Prospective bidders are advised to regularly visit through HSCC e-tender portal **<https://hscenivida.com>** & HSCC website <http://www.hsccltd.co.in> as corrigendum/amendments etc. if any, will be notified on this portal only and no separate advertisement will be made for this.

(– sd –)
General Manager (Projects)
HSCC (India) Ltd.

Revised - List of Approved Makes

for

Electrical Works

&

HVAC Works

LIST OF APPROVED MAKES FOR ELCTRICAL SYSTEM

Contractor shall use the materials of approved make as indicated below unless specified in BOQ or as approved by the HSCC engineer incharge. The contractor shall ensure the correct selection of the approved make meeting the specifications and application duties. Before placing order for procurement, the sample of approved make shall be got verified for its suitability to the specification and application duty. However, HSCC engineer incharge reserves the right to opt for the best preferred listed make. The contractor shall quote the rates for the material and equipment as per the list of approved makes. In the event of the contractor wants to use alternate makes other than those stipulated for non availability, monopolistic attitude with proof, the contractor can send a proposal after ensuring that what he proposes at the least meets both the quality and safety standard of the stipulated makes, and the financial benefit, if any, that will occur to the client. He shall also stand full guarantee to his alternate proposal. The alternate makes can be used only after an approval accorded by the client/HSCC., whose decision will be final in this matter.

Sr. No.	ITEM	MAKES
1	HT VCB Panel Board/ RMU	Siemens/L&T/ABB/Schneider
2	Transformer	ABB/Indotech/ Siemens/ Voltamp /Crompton Greaves/ Kirloskar.
3	Main LT Panel/ APFC panels / Active Harmonic Filter (AHF)	Siemens/ L&T/ABB /Legrand/ Advance Panels/C&S/Tricolite/Risha Control Engineers Pvt. Ltd/Supertech control System
4	Electrical (Floor Panels)/ Capacitor panel below 600kvar	Tricolite/ Control & Switchgear/Risha Control Engineers Pvt. Ltd./ Siemens/ L&T/ABB /Legrand./Advance Panels/KEPL/Supertech Control System
5	Capacitor	Epcos/Schneider/ L&T/ Ducati
6	APFC Relay	Epcos/ L&T/ Biluk/ Ducati/Schneider/C&S
7	Synchronization Panel/AMF Panel	OEM of the DG set or above panel manufacturer as mentioned against s.no.-3
8	PLC	Schnider/ Allenbradeley/ Siemens/L&T/Honeywell
9	Rubber mat (ISI mark)	Jyoti / Maruti
10	Diesel Engine:	Cummins/ Caterpillar/ Perkins/ Kirlosker Oil Engine Ltd/ Stamford/AVK/KEC/Kirlosker Oil Engine Ltd./Crompton Greaves
11	Alternator:	
12	Anti-vibration mounting:	Dunlop/ Gerb/ Resistoflex / Kanwar
13	AMF Relay	wood ward/Schneider/Siemens/ Allen Bradlee
14	Auto Transfer switch	Cummins/Emerson/Asco/GE/ ABB/ Panasonic
15	Bus Duct/Rising main	Siemens/ Legrand/C&S
16	Battery:	Panasonic/Hitachi/Cummins/Exide/ Amco
17	Automatic Battery Charger	Max Power/Amar Raja/Chabbi Electrical/ Statcom Power
18	ACB	L &T 'U' Power(Omega)/ Siemens 3WL/ ABB-Emax2/ Legrand(DMX)/Aadhunik/C&S Winmaster -3
19	Moulded Case Circuit Breaker	L &T – (D sine/DL) / Siemens-VA/ ABB-TMA / /Legrand-DPX/Aadhunik/C&S Winmaster -2

Sr. No.	ITEM	MAKES
20	Power/auxiliary Contactors, timers, Relay, starters	ABB/ Schneider/ L&T/ Siemens/ Legrand/ C&S
21	SFU with HRC	L&T/ Siemens/ ABB/ Schneider/C&S
22	Change over switches/Isolators	Siemens/ABB/L&T/ Schneider/C&S
23	Instruments (Analog & Digital)	L&T/ AE/ Siemens/ Schneider/ABB/Conzerve/ Minilec/ Rishab/C&S/HPL
24	Timers	ABB/ Schneider/ L&T/ Siemens/ Legrand/ C&S
25	Cast resin current Transformers:	AE/ L&T / Kappa /C&S
26	Selector Switches:	L&T- Salzer /KAYCEE/ Siemens/C&S
27	Push button, Indicating Lamps LED:	L&T(Esbee) / Siemens/ Schinder
28	Auto manual changeover switches (3Way)	Kaycee/L&T/ Schnieder/Siemens/C&S
29	HT/LT- XLPE cables	Universal/ Rallison/ Havells/KEI/Nitya Electricals/ Bonton
30	Copper Control cable	Universal/ Rallison/ Havells/KEI/Nitya Electricals/ Bonton
31	Copper conductor PVC insulated wires, Co-axial , Telephone wires & LV cables	Havells/Rallison /Finolex /Delton/Nitya Electricals/ Bonton
32	Compression Glands & Lugs	Comet/ Dowells/Jainson/ HMI/ Gripwell
33	PVC Tape	Steel Grip/3M/
34	Cable Jointing kit	Raychem / 3M/
35	Cable Trays/ Raceways	OBO/ Legrand/ Anant power
36	LED Light fitting & Fixture	Philips / Panasonic /Wipro/Bajaj/ Havells /CLAIR/ Insta-power
37	Lighting Control	Lutron/ Philips/ ABB/ Schneider/ Legrand/ Honeywell
38	Occupancy Sensor	Philips/Honeywell/Schneider/Lutron/Legrand/Bajaj/ Wipro/ panasonic
39	Ceiling fans	Orient/ Usha/ Havells / Bajaj
40	MS conduit & Accessories	BEC/ Steel Kraft
41	PVC conduit & Accessories (ISI Marked)	Supreme/Prince/Finolex/BEC
42	MCB distribution Boards	L &T/Legrand/ABB/Panasonic/Havells/C&S/HPL
43	RCCB/MCB	L & T / Legrand-DX3/Philips/Havells/ABB-SB/Panasonic/C&S /HPL
44	Modular Switches & sockets Outlets	Legrand-Myrius or Anti bacterial /ABB(Tvisha)/ Panasonic /C&S/HPL
45	Metal clad Socket outlets With boxes	L & T /Hager/ Siemens/ ABB/Legrand/C&S

Sr. No.	ITEM	MAKES
46	Solar Power system(PV Cell)	TATA Power Solar, BHEL, BEL / Inter Solar/
47	Chemical Earthing	OBO Bettermann / Erico/Furse / Ingesco/ VNT/
48	Aviation Light	Bajaj/ Philips/Trilux/ wipro
49	UPS system	Vertiv/ Numeric/ Socomec/Fuji electric
50	High Mast/Poles & Special Pole /external poles	Phillips/Bajaj/ Jindal/Havells
51	PC with CPU and monitor etc	HP/ Compaq/Dell/IBM
52	Public address system	Bosch/ Bose/ Honeywell /Harman/ Martin Audio
53	CCTV camera	Bosch/Sony/Honeywell-S60
54	LCD/LED Monitor	Sony/Panasonic/Samsung/LG
55	Fire Detection System Addressable	Honeywell-Notifier/Bosch/ Siemens /Schneider
56	FDA Conventional	Honeywell/Bosch/Schneider/Cooper/Ravel
57	IPBX system	Avaya/Alcatel / Atos(unify)/Matrix/ Coral/ Panasonic/ Nortel/Cisco
58	Nurse Call bell system	Honeywell/Schreak/ Rauland/ZKR
59	Lifts/ Dumb Waiters/Escalators	Otis / Mitsubishi/ Scheindler/ Fujitech / Hitachi
60	IBMS Approved vendor	Siemens/ Honeywell/ Johnson controls/ ABB/Schneider
61	DDC Controllers	Siemens/ Honeywell/ Johnson controls/ ABB/Schneider
62	Building management System	Honeywell-Trend/L&T- Atmos/Siemens/Schneider/Johnson-Metasys
63	Field Devices	Honeywell/L&T/Siemens/Schnider/carrier/Johnson/Dwyer
64	Access Control System	Honeywell-Prowatch/Schneider/Lenel/Cardex/ Bosch
65	Boom barrier	Magnetic/ Somfy/ RIB/FAAC/ Park+
66	CAT 6 UTP, CAT 6A UTP/STP, Optical Fibre-cable	Molex/Systimax/Panduit/Belden
67	SCADA	siemens/schnider/ABB/Honeywell/Fuji

LIST OF APPROVED MAKES : HVAC WORKS

S.No	Materials	PROPOSED MAKE
1	Centrifugal /Screw/ Scroll Chilling Units with VFD (ARI Certified)	Carrier/ York /Kirloskar/Daikin/Trane /Danhum Bush
2	Heat Pump	Carrier/York/Kirloskar/Daikin/Trane/ Bluestar/ Danhum Bush/Swegon Blue
3	Primary Chilled water/Secondary/ Chilled water Condenser Water/Hot water Pumps	Xylem/Grundfoss/Armstrong/wilo-Mather & Platt
4	Pumps Monoblock	Kirloskar/Beacon/Xylem/Grundfoss
5	VFD with controls	Xylem/ Danfoss/ Grundfoss/ Wilo-Mather Platt/ Armstrong
6	Cooling Towers (CTI Approved)	Paharpur/Bell/Mihir/Flowtech/Advance
7	Electric hot water generator	Rapid cool/ Emerald/ Khokhar
8	Air Handling Units (High Static) with cooling coils	Caryaire/Systemair/VTS/ Edgtech /Zeco
9	Centrifugal Fan for AHU's	Nicotra/ Flakt/ Kruger/VTS/Systemair
10	VFD for AHU	Danfoss/ ABB/Fuji
11	Ultra Violet Germicidal Irradiation/ PHI	Ruks/Trimed/RGF/Steril-Aire/Honeywell/Airquality/signify/Ultrapur
12	Fan Coil Units	Same as AHU
13	Air washer	System Air/ Roots Cooling/ Ambiator/Zeco/ and same as AHU
14	Scrubber (Wet/Dry)	Wet : same as AHU, Dry: Espair/Trion/Thermax/ Rydair/Dustech
15	Humidifier	Rapid cool/Emerald/Khokar
16	Fan section	Same as AHU
17	Centrifugal/Axial Flow Fans/Tube Axial(AMCA Certified)	Flakt/ Nicotra/ Kruger /System air /Air flow
18	Propeller Fans	GEC (Alsthom)/ Khaitan/Usha/Marathon/ Bajaj/Havells
19	Precision AC units	Emerson/ Blue box/ Stulz/ Hiross/Voltas/Bluestar/Hitachi
20	Window/split AC	Hitachi/ Daikin/ O-general /Voltas/ Bluestar/LG
21	VRV/VRF	Hitachi/Daikin//Mitsubishi Electric /Midea/Toshiba/LG/Samsang
22	Inline Fans	Flakt/ Nicotra/ Comefri/ Kruger/ SystemAir/Ostberg/Airflow
23	Heat recovery unit complete with Heat recovery wheel	Flaktwoods/ Novelaire/ DRI/ Greenheck/ Bryair
24	Main AC Panel (only TTA Panels)	Siemens/ L&T/ABB /Legrand/ Advance Panels/C&S/Tricolite/Risha Control Engineers Pvt. Ltd/Supertech control System
25	AHU/ventilation electrical panels (Only for PTTA Panels)	Tricolite/ Control & Switchgear/SPC Electrotech/Risha Control Engineers Pvt. Ltd./ Siemens/ L&T/ABB /Legrand./Advance Panels/KEPL/Supertech Control system
26	Electric Motors	Siemens/ Kirloskar/ ABB/ Crompton Greaves/Havells

LIST OF APPROVED MAKES : HVAC WORKS

S.No	Materials	PROPOSED MAKE
27	ACB	L & T 'U' Power(Omega)/ Siemens 3WL/ ABB-Emax2/ Legrand(DMX)/C&S
28	MCCB	L & T – (D sine/DL) / Siemens-VA/ ABB-TMA //Legrand-DPX/C&S
29	MCB/ RCCB	L & T / Legrand-DX3/Philips/Havells/ABB-SB/Panasonic/C&S/HPL
30	Power/ Auxiliary Contactors/ Timers/ Relay/ Starters	L&T/ Legnard / Siemens/ ABB/ Schneider/C&S
31	Change over switch/ Isolators	Schneider/ Siemens/ ABB/ GE/ L&T/C&S
32	Instruments (Digital/Analog)	L&T/ AE/ Siemens/ Schneider/ABB/Conzerve/ Minilec/C&S
33	Push Button/Indicating Lamps	L&T (Esbee)/ Siemens/ Schneider/C&S
34	Selector Switches	L&T- Salzer/KAYCEE/ Siemens/ C&S
35	Cast Resin Current Transformers	AE/ L&T/ Kappa/ C&S
36	HT/LT- XLPE Cables	Universal/ Finolex/ Rallison/Havells/KEI/ Bonton
37	Control Cables	Universal- / Finolex/ Rallison/ /Havells/KEI/Nitya Electrical/Bonton
38	PVC Tape	Steelgrip/ 3M
39	Cable Trays/ Raceways	OBO/ Legrand/ Anant power
40	Compression Glands & Cable Lugs	Comet/ Dowells/ Jainson/ HMI/ Gripwell
41	Factory fabricated duct	Ductofab/ Rolastar/ Technofab / ZECO/Waves/Betaflo
42	G.I. Sheet	TATA/ SAIL/ Jindal/ JSW
43	Grilles/Diffusers/Volume Control damper	Systemair/ Caryaire/ Mapro/Titus/Conair
44	Fire Dampers	Caryaire/Systemair/ Ruskin/Airflow
45	Aluminium Sheets	Balco/ Nalco/ Hindalco/Jindal
	Pipes	
46	G.I & MS pipes factory rolled	Jindal / Tata / SAIL/ MSL
	Valves	
47	Butterfly /Ball valve with Y strainer/Gate/Globe valve	Audco/ Honeywell/Advance/Danfoss/Zoloto/Sant
48	Motorised butterfly valve(actuator)	Belimo/ Honeywell/ Siemens/Danfoss/
49	Non Return Valve	Advance/ Audco/Honeywell/Danfoss/Zoloto/Sant
50	Balancing Valves	Advance/ Audco/ Danfoss/ Honeywell/Danfoss/Zoloto/Sant
51	Pressure independent Balancing valve	Danfoss/ Flowcon/ TA/Honeywell/Siemens/Belimo
52	Pot-strainer & Y-strainer	Emerald/ Sant/ Rapid cool/VTM
53	Pressure Gauge	Fiebig/ Emerald/ Japsin/H Guru
54	Thermometer	Fiebig/ Emerald/ Japsin/H Guru
55	Flow Switch	Rapid Control/ Anergy/Emrald

LIST OF APPROVED MAKES : HVAC WORKS

S.No	Materials	PROPOSED MAKE
56	Automatic Air Vent	Rapid Control/ Anergy/Emrald
57	Suction Guide	Anergy/ Rapid Control/ Emrald
58	Filters (pre,fine Hepa)	Thermadyne/ Spectrum/ Kirloskar /Anfilco/ Johnflower/ Dynafilter/AAF/Camfil
59	Expanded Polystyrene	Beardsell Ltd./ BASF / Lloyd/ Styrene packaging/Thermobreak
60	Glass Wool/Fibreglass rigid board/Pipe section	FGP Ltd./UP Twiga/ Kimmco/Owens corning
61	Pre-moulded PUF section for pipe & pipe supports	Malanpur /Superurethane/Lloyd/Supreme/Styrene Packaging
62	Crossed linked Polyethylene Foam	Trocellene / Supreme/Aeroflex/Vidoflex
63	Closed Cell Elastomeric Insulation	K-flex / Armacell/ Aeroflex/Supreme/Superlon
64	Mineral wool	Rockwool India Pvt Ltd/ Lloyd
65	Aluminium Tape	Johnson/ Birla 3M/ Garware
66	Expansion tank(pressurized) and Air Separator	Anergy/ Grundfoss/ ITT /Emrald/Reflex/Flamco
67	Bellows	Dunlop/ Kanwal/ Resistoflex
68	2/3-Way motorized valve for AHU/FCU	Johnson control/ Danfoss/ Siemens/ Belimo
69	Thermostats	Honeywell/ Johnson controls/ Belimo/ Danfoss/ Siemens
70	Humidistat	Honeywell/ Johnson control/ Belimo/ Danfoss /Siemens
71	Electric Strip Heaters	Escorts/ Daspas
72	Safety Thermostat for Heaters	Honeywell/ Siemens/ Danfoss/ Belimo /Siemens
73	Cooling/heating Mode Changer	Honeywell/ Siemens/ Danfoss/ Belimo/ Siemens
	Paints	
74	Enamel	ICI/ Asian/ Nerolac
75	Bituminus	Indian Oil / HP
76	Tarfelt (for underground chilled water pipe insulation)	Indian Oil / HP
80	VAV	Trane/ Trox/ Johnson Controls/ Belimo / Titus/Carryaire
81	Airflow Switch (Air & water)	Johnson control/ Honeywell/ Siemens
	Miscellaneous	
82	V Belt	Dunlop/ Fenner/Pix
83	Anchor fastners	Fischer/ Hilti
84	Dash fastner	Fischer/ Hilti
85	Welding rods	Advani/ L&T
86	Flexible pipe connection	Dunlop/ Kanwal/ Resistoflex
87	Hessian Cloth (fire rated)	Navair/ Pyrogaurd
88	Vibration isolator	Resist flex/ Dunlup/ Kanwal
89	Air Ozone	Ruks/ Trimed/ RGF

LIST OF APPROVED MAKES : HVAC WORKS

S.No	Materials	PROPOSED MAKE
90	Fire Sealant	Birla 3M/ Hilti/ Promat
91	Adhesive / UV coating	Pidilite / Star bond
92	Refrigerant Copper Pipes	Mandev Tubes/Rajco Metal/Mehta Tubes (Max Flow)/ Kwalitiy Tubes (Raj State)
93	Vacuum Degasser	Anergy/ Grundfoss/ ITT /Emerald/Reflex/Flamco