

**NOTICE INVITING TENDER FOR INSTALLATION OF HVAC-
NEGATIVE PRESSURE SYSTEM IN NEW ICU OF DISTRICT
HOSPITAL, KOLLAM**



**HLL INFRA TECH SERVICES LTD.
Facility Management Division,
Golden Jubilee block
HLL Bhavan
Poojappura P.O.
Thiruvananthapuram-695012**

CONTENTS

Sl. No.	ITEM	Page No.
1	Notice Inviting Tender	3
2	General Terms and Conditions & Special conditions	4-5
3	Price Schedule	6-12
4	Schedule -A	13

NOTICE INVITING TENDER

(Successful Bidder Name and Address with Contact Number)

Sub: **Tender for Installation of HVAC-Negative pressure system in new ICU of District Hospital, Kollam.**

HLL Infra Tech Services Ltd (HITES), a Fully Owned Subsidiary of HLL Lifecare Limited, a Government of India Enterprise, invites sealed and super scribed quotation from the qualified service providers in the relevant field for the following work at **District Hospital, Kollam.**

1. A complete set of tender document can be had from the **‘Office of Deputy Vice President (FM), Facility Management Division, HLL Infra Tech Services Ltd, HLL Bhavan, Poojappura P.O., Thiruvananthapuram-695012** on all working days from 9.15 am to 5.45 pm as per below schedule at free of cost.
2. The tender document will be available up to 15.00 Hrs. on the day of the opening of the bids.

- | | |
|------------------------------------------|----------------------------|
| a) Issue of tender document | - 28.09.2020 to 03.10.2020 |
| b) Last date and time of receipt of bids | - 05.10.2020 at 15.00 Hrs |
| c) Date and time of opening of bids | - 05.10.2020 at 15.30Hrs |

Thanking you
Yours Faithfully,

S/d

**Deputy Vice President (FM)
Facility Management Division
HLL Infra Tech Services Ltd.**

Terms and Conditions

1. Eligibility criteria:

Bidders should have executed satisfactorily at least 1 job preferably of similar kind (Specifically for Covid 19 Emergency Response Preparedness) and contract should be valuing not less than 50 % of the estimated cost during the last one year. Bidders should have minimum of one year experience in the relevant field.

The total estimated amount of **Rs.7,51,929.00 (Rupees Seven Lakhs, Fifty One Thousand, Nine Hundred and Twenty Nine Only)** for Mechanical, Electrical and Civil works.

2. The schedule of quantities (Annexure – I) is appended. Bidders are advised to go through the entire general terms and conditions of this contract carefully.

The filled & duly signed quotations should be submitted on or before 15.00 Hrs on 05.10.2020 to;

**The Deputy Vice President (FM)
Facility Management Division
Golden Jubilee Block, HLL Bhavan,
Poojappura P.O., Trivandrum-695012**

The bids will be opened at 15.30Hrs on 05.10.2020 at the office of HLL Infra Tech Services Ltd, Golden Jubilee Block, HLL Bhavan, Poojappura, Thiruvananthapuram in the presence of interested bidders or their authorized representatives who choose to attend at the time of opening of tender.

3. The work shall be completed within **20 days** from the date of commencement as per the work order. Date of commencement will be the date of handing over the site or the date of issuing work order whichever is later.
4. The contractor shall visit the site before quoting the rates and clarifications if any, can be had from the undersigned before submitting the quotation.
5. Rates quoted should be inclusive of cost of materials, tools/equipments/labour charges, conveyance to site, handling charges, loading and unloading charges, hiring charges, clearing of debris, statutory payments, all taxes etc complete.
6. The Management reserves the right to accept or reject the Quotation either partially or fully without assigning any reason what so ever.
7. The work should be carried out without causing any inconvenience to the public and shall ensure that no damages are caused to the existing site premises.

8. During the execution of work the contractor or authorized representative should be present at site.
9. The Successful Contractor shall maintain the lockdown protocols if any, to complete the works at site.
10. All Materials, Equipments/Tools required for the work should be arranged by the Contractor and brought to the site for the timely completion of the work.
11. The materials used shall be as per specifications and of good quality.
12. The Contractor has to arrange necessary insurance coverage for the machine, workmen etc. deployed by him. He shall arrange all safety measures to protect his workmen and also the properties of HLL Infra Tech Services Ltd.
13. **Penalty for delay:** The work is to be completed in all respects within **20 days** of date of commencement. A penalty of 0.5% of the total contract value will be applicable for delay of each week after the scheduled completion date to a maximum of 5% of the contract value.
14. **Measurement & Payment terms:** The method of measurement of completed work shall be in accordance with the relevant IS codes for method of measurement. Payment will be made on Running account bills on completion of work as per the order to the complete satisfaction of engineer in charge. The Quantity shown in the schedule is an approximate estimated quantity .No extra rate will be entertained if the quantity exceeds due to the site condition while executing the work.
15. Final payment shall be paid only after clearing the site as per direction of Engineer-in-charge.
16. **Settlement of Dispute:** Arbitration shall not be the means of settlement of dispute or claims or anything on account of this Contract. If any disputes and difference arise out of the contract, they are to be settled by a civil court at Trivandrum

For HLL Infra Tech Services Ltd.

S/d
Deputy Vice President (FM)
Facility Management Division

PRICE SCHEDULE
Mechanical

SL No	Description	Unit	Qty	Rate	Amount
1	Supply, installation, testing and commissioning of Air Cooled High Wall mounted Split Air Conditioner of following capacity consisting of high wall mounted type room unit (fan coil) with cordless remote control and one number outdoor condensing unit comprising of energy efficient suitable rotary Inverter compressor for operation on single phase, 230 V, 50Hz supply, Eco friendly refrigerant (R410/R407) fixing the outdoor unit on a raised platform as per manufacturers recommendation and fixing of room (fan coil) unit on wall, standard 4 m distance refrigerant copper piping with 13mm nitrile rubber insulation, providing and making interconnection between room & condenser as per site conditions, comprising of 1" dia drain PVC pipe with insulation 4m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit, ODU MS stand, first charge refrigerant gas, suitable stabilizer etc complete as required.				
a	2 TR 5 star rated as per BEE	Nos	2		
2	Additional Copper Pipe, Sleeve and Cable	Rmt	20		
3	Supply, installation balancing and commissioning of 1500 CFM inline type High Static Exhaust fan with speed regulator	Nos	1		
4	Supply, installation balancing and commissioning of Site fabricated GSS sheet metal ducts with 0.63mm thickness, rectangular ducting complete with neoprene rubber gaskets, elbows, splitter, dampers, vanes ,hangers, supports, bird screen etc	Sq m	65		
5	Supply and Installation of Powder coated extruded aluminium construction LINEAR GRILLES with removable core as per approved drawings and specifications.	Sq m	2		

6	Supply and fixing of HEPA Filters having filtering efficiency of 99.7% down to 0.3 microns , suitable for fixing in the Return air plenum boxes				
a	610 x 610 x305	Nos	1		
7	Supply, fabrication, installation and testing the FLEXIBLE CONNECTIONS constructed of fire resistant double resin sleeve as per the approved shop drawings.	Nos	2		
8	Supply, installation, testing and commissioning of drain piping of hard PVC pipe and fittings, insulated with 12 mm thick nitrile rubber. (32 mm dia)	Rmt	30		
9	Supply, Installation, Testing and Commissioning of GI VOLUME CONTROL DAMPERS complete with neoprene rubber gaskets, nuts, bolts, screw linkages, flanges etc. as per specifications.	Sqm	2		
10	Setting up of Scaffolding for ducting works	LS	1		
	Total				
	GST				
	Sub Total (A)				

Electrical Works

SL No	Description	Unit	QTY	Rate	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point			
	Group A		10		
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtrs	255		
3	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	Mtrs	70		
4	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required 4X10 sq. mm + 2X 10 sq. mm earth wire.	Mtrs	10		
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Nos	9		
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Nos	10		

7	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Nos	8		
8	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	Each	10		
9	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	63 A	Each	1		
10	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	63 A	Each	1		
11	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each			
	4 way (4 + 12), Double door		1		
12	Supply of 1x28W fluorescent tube fitting, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W T5 lamp etc complete as required.	Each	5		
	Total				
	GST				
	Sub Total (B)				

CIVIL Works

SL No	Description	Unit	Qty	Rate	Amount
1	For fixed portion: Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, metered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) :section details: Bottom:(110x40), Horizontal & Vertical:(50X40)	KG	155.00		
2	For shutters of doors, windows & ventilators: including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) section:(50x40)	KG	40.00		
3	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. 21.2.1 Pre-laminated particle board with decorative lamination on both sides	SQM	75.00		

4	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 4.0 mm thickness	SQM	12.00		
5	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. each 359.00	EACH	4.00		
6	Providing and fixing aluminium shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineering-charge 21.16.2 Powder coated minimum thickness 50 micron aluminium	EACH	4.00		
7	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stonework by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.21.8.1 Upto 5mm depth and 5 mm width	M	65.00		
8	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under , including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. 14.1.1 With cement mortar 1:4 (1 cement : 4 fine sand)	SQM	40.00		
9	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge	CUM	3.00		

10	Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand). 6.31.1 From ground level up to plinth level including with providing of drainage manhole brick work.	CUM	4.00		
11	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand	SQM	35.00		
	Total				
	GST				
	Sub Total (C)				
	Grand Total (A+B+C)				

SCHEDULE-A

SCOPE OF WORK

The scope of work includes Air Conditioning and Ventilation works with static pressure deduction units in ICU's. The ICU's shall be air-conditioned using energy efficient inverter split air conditioners. Ducted ventilation system shall be provided such an air change rate of 6-12 air changes per hour is ensured as per the standards. The air from the ICU's shall be exhausted to the atmosphere through HEPA filters installed in the ducted system. Including necessary civil and electrification works for the same.

For HLL Infra Tech Services Ltd.

S/d
Deputy Vice President (FM)
Facility Management Division