

JAWAHARLAL INSTITUTE OF POST GRADUATE MEDICAL EDUCATION AND RESEARCH

(AN INSTITUTE OF NATIONAL IMPORTANCE)

TENDER DOCUMENT

For the work of

Establishment of IVF LAB at WCH Block for JIPMER, Puducherry.

**PART-C
Price BID Format**

TENDER NO. [HLL/IDS/IVF-JIPMER/16/03](#)

Dated: 26th May 2016

HLL LIFECARE LIMITED.

Price Bid format

Work: Establishment of IVF Lab and its OT at Fourth floor, IPD, WCH Block, JIPMER, Puducherry.

THE ABSTRACT OF BILL OF QUANTITIES SHALL BE INVARIABLY FILLED. THOSE WHO BIDDERS DO NOT FILL WILL BE NON-RESPONSIVE AND WILL BE DISQUALIFIED FROM EVALUATION AND WILL BE TREATED AS TECHNICALLY NOT QUALIFIED.

**ALL ROWS SHALL BE FILLED, THIS IS MANDATORY
(IF NIL OR NA, THAT MAY ALSO BE SHOWN)**

BILL OF QUANTITIES

ABSTRACT

Sl. No.	Item	Estimated cost
	PART- I	
1	Civil works	
2.	Electrical works	
3.	UPS System	
4.	HVAC Works	
5.	Medical Gas System	
a)	Service tax component to be paid by the bidder	
b)	Service tax component to be directly paid by the HLL in case the bidder is a Proprietary firm	
	TOTAL [INCLUDING 100% SERVICE TAX (a +b)]	

	PART- II	
1	Medical equipment	
2	Furniture	
a	Taxes and duties applicable if any and specified	
	TOTAL [INCLUDING TAX on DDP basis (a)]	
	GRAND TOTAL = PART I+ PART II	

Establishment of IVF Lab and its OT at Fourth floor, IPD, WCH Block, JIPMER, Puducherry.					
Sl.No .	Description	Quantity	Unit	Rate	Amount in Rs.
A	CIVIL WORKS				
1	Wall Panelling : Supply and installation of 80mm thick puff insulated wall panel with PPGI inside and IS 304 SS grade 1mm thick lamination outside. Finished to a clean room standards. The core of sandwich panel shall be filled with ridged poly-urethane foam which has to be injected under high pressure with minimum density of 40kg/m3. The individual wall panels shall be fixed using tongue and groove technology. The gaps between panel shall be suitably filled with metal filler / epoxy or any other approved sealant, all as specified and directed by Engineer-in-charge.	120.00	sqm		
2	Ceiling : Supply and installation of 60mm thick and puff insulated ceiling panel with inside PPGI and outside with IS 304 SS grade 0.8mm thick lamination. Finished to a clean room standards. The core of sandwich panel shall be filled with ridged poly-urethane foam which has to be injected under high pressure with minimum density of 40kg/m3. The individual ceiling panels shall be fixed using tongue and groove technology. The gaps between panel shall be suitably filled with metal filler / epoxy or any other approved sealant.	50.00	sqm		

3	Door : Supply and fixing 49mm thickpuff insulated stainless steel clean room doors(laminated with 1mm thick SS 304grade lamination both sides) door shutters with suitable frame, locking arrangement, automatic door closer, handles etc complete. Vision panel shall be provided. The gasket used shall comply with clean room standard.	6.00	sqm		
4	Providing and fixing static SS pass box of size 450x450mm inbetween IVF Lab and OT . For material transfer(Inclusive of cutting and making good the same).	1.00	no		
5	Flooring : Providing and fixing anti-static seamless, stain free, conductive of high frequency electric charges. Providing and fixing 4mm thick epoxy self levelling floor over a coat of epoxy primer of approved colour of coverage 250gram/sqm using steel trowel with notches to give a jointless monolithic, smooth, over existing floor, surface thoroughly cleaned for oil or grease by suitable solvents, at all levels as per manufacturers' specification. Also include all materials, preparation and levelling concrete, with providing 0.2mm thick & 20mm wide copper strip at 2ft center to center both ways and three layers of 450grams pe rsqm fiber laminated with resins and protection with plastic sheet, and removing the same brfore handing over, work at all levels etc., complete as directed. The flooring shall be provided with 100mm curved skirting along the walls.	53.00	sqm		

6	Dismantling and redoing of all types of false ceiling using 15mm thick (600mmx600mm) mineral fibre board tiles duly hanged from the top including making good all damages, electrical fixtures and fittings etc complete.(for laying exhaust duct and reouting Medical gas pipe line)	40.00	sqm		
7	Enabling works : All as directed by Engineer-in-charge				
	Material and labour for removing existing doors along with frames and making good the damages etc complete.				
	Material and labour for remaining existing existing pass box and making the opening for receiving new SS pass box.				
	Materials and labour for removing existing pass box and closing the opening with masonry and plastering, painting etc complete.				
	Dismantling existing counters making good all the damages to wall and floor etc complete				
	Removing existing false ceiling complete with all electrical and other fittings etc complete.				
	Closing existing windows / structural glass without affecting the elevation of the building before panelling.				
	Removal of plastering wherever required, re-plastering the removed area and painting etc complete.	-	LS		

8	Providing and fixing for following Aluminium work for door, windows , ventuilators and partitions with extruded built up standard tubular section /appropriate Z sections and other sections of approved makes confirming to IS 733 and IS 1285 fixing with dash fastners of required dia and size including necesarry filling of the gaps at junctions i.e at the top, bottom and sides with required EPDM rubber/ neoperene gasket etc. Aluminium sections shall be smooth rust free straight mitred and joined mechanically where evere required including cleat angle, aluminium snap beading for tracing/ pabelling/ CP brass/ stainless stell screws, all complete as per archetecturral drawings under the directions of Engineer in charge for Male and female change room aluminium partition with sliding door(Sliding door shall be measured seperately)	-			
8a	for Male and female change room aluminium partition with sliding door(Sliding door shall be measured seperately as per item b)				
8b	Fully Novapan ply with aluminium partition	15.00	sqm		
8c	Sliding door	6.00	sqm		
9	Providing partly glazed aluminium partition for keeping gas cylinder in Anderology room with sliding door(Sliding door shall be Measured seperately as per item b)	10.00	sqm		
A	TOTAL - CIVIL WORKS				
B	ELECTRICAL WORKS				

10	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	600.00	Metre		
11	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	200.00	Metre		
12	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
12a	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	75.00	Metre		
12b	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	454.00	Metre		
12c	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	200.00	Metre		
12d	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	80.00	Metre		
12e	4 X 16 sq. mm + 2 X 16 sq. mm earth wire	80.00	Metre		
13	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
13a	4 Pair	115.00	Metre		
14	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				

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14a	20 mm	230.00	Metre		
15	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
15a	Telephone socket outlet	5.00	Each		
16	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
16a	1 or 2 Module	5.00	Each		
17	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 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	26.00	Each		
18	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 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	15.00	Each		
19	Supplying and drawing of UTO & Pair CAT 6 LAN Cable in the existing surface / recessed steel/ PVC conduit as required.	115.00	Each		
20	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connection etc as required.				
20a	100Amp.16KA , TPMCCB	1.00	Each		

21	Suppling and fixing of following amps surface/recess mounting, vertical type, 415 Volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (But Without MCB's and Incomer) as required. Note: Vertical type MCB DB is normally used where 3 phase outlets were required.				
21a	4 Way (4+12), Double door	1.00	Each		
22	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. As required.(But without MCB/ RCCB/ Isolator)				
22a	12 way (4 + 36), Double door	1.00	Each		
23	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.				
23a	Single pole	48.00	Each		
23b	Single pole and neutral	5.00	Each		
23c	Double pole	5.00	Each		
23d	Triple pole	5.00	Each		
23e	Triple pole and neutral	5.00	Each		
24	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
24a	63 amps	1.00	Each		

25	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
25a	63 amps	1.00	Each		
26	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	5.00	Each		
27	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5.00	Each		
28	Supplying and fixing 20 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5.00	Each		

29	Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5.00	Each		
	Earthing				
30	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1.00	Each		
31	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	1.00	Set		
32	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe on earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	40.00	Metre		
33	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	80.00	Metre		
34	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	15.00	Metre		
	ELECTRICAL MISCELLANEOUS WORKS				
35	Supplying and fixing of copper strip of size 50mm width thickness 0.5mm(for antistatic earthing in all the labs)in floor, surface and furnitures etc complete with all accessories inclusive of fixing and pasting	5.00	Kgs		
36	Removing of existing AC ducts and closing / opening wherever required along with making good all the damages with required spares and materials etc. complete.	1.00	LS		
37	Supplying & laying of GI duct for exhaust, with all accessories complete including	25.00	m		

	hanging in the ceiling, walls where ever necessary. (300mmx300mm).				
38	Supply, Installation, Testing & Commissioning of high speed 3 star rated exhaust fan made of metal of 300mm diameter in GI duct with all accessories complete	1.00	Nos		
	Total – ELECTRICAL				
C	CENTRALISED UPS SYSTEM (POWER BACK UP SYSTEM)				
39a	Supply, Installation, Testing & Commissioning of 5 KVA DSP based Online UPS with IGBT rectifier, IGBT inverter, nominal input voltage of 480V, 4 wired with 3 pole breaker and output nominal voltage 480V, 5 KVA power output with 93% full load capacity with multifunction LCD status console, Emergency power off operating at temperature of 0-40 degrees. Make (APC, EATON/EMERSON)	1.00	Set		
	Double Conversion Technology with Static Bypass For 60 minute backup to the stated load complete with all necessary hardware & accessories, etc. complete as required.				
39b	Required number of VRLA Battery - 12 V for Battery backup upto 60 minutes With Battery cabinets and Cables along with necessary hardware, accessories - Battery Breaker, Racks, Linkset & Battery to UPS Cables etc. complete as required. (Make of batteries- Exide / Amaron / Amco)	1.00	Set		
	Network management card (OC WAP Card) for the UPS to connect to the server. (If required.)				
39c	Delivery & Installation charges	1.00	Set		
	Full set as above				
	Total – UPS				
D	LIGHTING AND AIR CONDITIONING SYSTEM FOR IVF AND OT				

40	Supplying, installation testing and commissioning of Air Purifier System of 8 TR ,High static unit with Air cooled gas based (R-407-C) High static air-purifier for OT-capacity 8 TR-125mm wg static pressure , 4000 cfm air flow , 20/22 degree Celsius ,45-65% Rh ,80% re cycling air , 20%fresh air , 10 micron HDP pre-filter at suction side , 5 micron HDP-fine filter at delivery side , thermostat , and humidistat , de humidifier ,double skin puff insulated AHU , with Nikotra / Kruger fan ,Blue star condensing unit with Danfos scroll compressor , Microprocessor control panel, copper piping , gas filling etc.	2.00	Each		
41	UV LIGHT: Supply and fixing of Ultraviolet lights comprising of 30 watts UV tubes are fixed to the Frame . The SS frame is manufactured from 1.2 mm, Type 304, stainless steel.The unit is easy to disinfect and maintain.	4.00	Each		

42	<p>HEPA FILTER AND VERTICAL LAMINAR FLOW FOR IVF AND OT: Supplying, installation, testing and commissioning of Ultra Clean Ventilation system. UCV 6F 4000 MPF For IVF OT TOTAL HEPA FILTERATION AREA – 2 Sq.ft x 3 set SS plenum and HEPA filters for Ultra Clean room of class ISO class5 Ventilation arrangement of A/C inside the theatre comprising of SS supply plenum (size 33 "L x 33"B x 12"H including the 3" flanges on all sides X 3 Sets ., material SS 304, 1mm, mat finish)</p> <p>HEPA filters 0.3microns, efficiency 99.99% EU13</p> <p>Sizes of –600mm x 600mm x 75mm HEPA filters will be fixed to the plenum using M8 x 25 304 tvs SS bolts and nuts.), SS perforated sheets (supply perforated sheet fascia size will be 95"L x 81"B' Material: 1 mm SS304, Mat finish. Hole size 6/8mm round shape with 95 % perforation. Return air perforated fascia size will be 9" x 24"(approx.), including the 1" border on all sides,</p> <p>Material: aluminum Mat finish. With 10 micron fine filter90 % perforation, the R/A perforated sheet will be fixed to the R/A riser using M4 x 12mm 304 Allen key type cheese head screws. The plenum shall be connected to supply air ducts carrying 5 micron filtered air at 125mm WG static pressure. The HEPA filters shall be made of aluminum body/ss and Hollingsworth USA media ,factory tested and certified. Test seals shall be provided in the filter casing in accordance with DIN 1946 and DIN4799. Calibration and Validation certificates shall be provided for each filter from the factory. Supply as well as return air ducting inside the OT (The ducts shall be fabricated from 0.9mm aluminum sheets). The supply ducts shall be insulated with 19mm Nitrile rubber and R/A duct using 9mm Nitrile rubber. Thehorizontal ducts shall be suspended by 8mm full thread rode and G I channels at an interval of seven feet at suitable heights.) inside the operation theatre.(This includes the ducting outside the IVF and OT, AHU, micro-veefilter and prefilter.). This cost shall includes copper piping, internal ducting for suction and outlet, discharge line, exhaust valve, hard shut valves, room thermostat, hard drawn copper piping etc complete(for ensuring the running of HVAC system in all respect complete. etc. othet than external ducting)</p>	6.00	Each		
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43	Supply, Installation testing and commissioning of 24G GI duct with insulated with Nitrile rubber of 13mm thick for supply and exhaust along with wire gauzed cement fixed insulation including core cutting / breaking wall etc complete.(For external ducting only)	130.00	sqm		
44	LIGHTING FOR IVF AND OT : Supplying and fixing of LED light fitting with of lux level equal to 1000 lumens as per design at the general area other than 40000 lumens with dimmable control at the working table suitable for fixing at the cut out of wall/ceiling/ spaces where ever provided (STERILE ZONE- Led Lights for IVF lab and OT). The light fittings shall be suspended in the ceiling/fixed to wall suitable to ceiling and wall types .	1.00	LS		
45	CONTROL AND MONITORING SENSOR:supply installation testing and commissioning of SENDOR for Monitoring control system for IVF and OT to monitor Temperature, Humidity, D pressure etc. with wired/wireless data logging system. (Hign end Model)	2.00	Nos		
46	Validation of clean room systemby third party of all area mentioned in the drawing.	1.00	LS		
E	MEDICAL GAS PIPE LINE SYSTEM				
	SCOPE OF WORK: Supplying, Installation testing and commissioning of the following Medical gas pipeline system of Copper pipe with OD 28mm, 22mm, 15mm & 12mm including isolation valves, alarm panel and outlets for Oxygen and Vaccum supply to Recovery area 3 beds at IVF Lab.				
47	Supply and fixing of cupper pipe 28mm OD with 0.9 mm thick, with all fittings and fixtures required for commissioning including cutting to existing pipeline for connection.ect. Complete all as directed by Engineer inchage.	18.00	mtrs.		

48	Supply and fixing of copper pipe 22 mm OD with 0.9 mm thick, with all fittings and fixtures required for commissioning including cutting to existing pipeline for connection.ect. Complete all as directed by Engineer incharge.	18.00	mtrs.		
49	Supply and fixing of copper pipe 15mm OD with 0.9 mm thick, with all fittings and fixtures required for commissioning including cutting to existing pipeline for connection.ect. Complete all as directed by Engineer incharge.	8.00	mtrs.		
50	Supply and fixing of copper pipe 12 mm OD with 0.9 mm thick, with all fittings and fixtures required for commissioning including cutting to existing pipeline for connection.ect. Complete all as directed by Engineer incharge.	8.00	mtrs.		
51	Outlets fitting for Oxygen -	3.00	nos		
52	Outlets fitting Vaccum -	3.00	nos		
53	BPC flow meter with Humidifier	3.00	nos		
54	Wall Mount Vaccum Jar unit 600 ml	3.00	nos		
55	2 gas Isolation Box	1.00	nos		
56	2 gas Alarm Pannel	1.00	nos		
E	TOTAL - MEDICAL GAS PIPE LINE SYSTEM				
	GRAND TOTAL(A+B+C+D+E)				

SECTION – XI PRICE SCHEDULE (for items mentioned in Part II only)

A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1	2	3	4	5							6
Item Sl. No.	Brief Description of Goods (with make & model)	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at Consignee Site) basis (Rs.)
				Ex - factory/ Ex - warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ VAT (if any) [%age & value] (c)	Transportation, loading/ unloading and Incidental costs till consignee's site (d)	Insurance charges for a period including 3 months beyond the date of delivery (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	
											4 x 5(g)

Total Tender price in Rupees: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section-XI – Price Schedule C

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

Seal of the Tenderer _____

B) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD
(applicable only for medical equipment's)

1	2	3	4					5
Schedule No.	Brief Description of the Goods	Quantity (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			A	b	c	d	e	

* After completion of Warranty period

NOTE:-

1. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
2. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. Cost of CMC will be added for Ranking/Evaluation purpose.
4. All software updates should be provided free of cost during CMC period.
5. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Name_____

Business Address_____

Place: _____

Signature of Tenderer_____

Date: _____

Seal of the Tenderer_____