

Minutes of the Pre Bid Meeting held at HLL Office, Golden Jubilee Block Poojapura on 16.11.2016 at 11.00 am for the Supply Installation Testing and Commissioning 2 no:s of Modular Operation Theatre Tertiary Cancer Centre, Kozhikode.

TECHNICAL AMENDMENTS FOR THE TENDER

Existing BOQ

2 NO:S MODULAR OT'S - TERTIARY CANCER CARE CENTRE					
S.N	NAME OF THE ITEMS	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
1	Prefabricated SS 304 room walls	Sq M	150		
2	PVC Flooring for Modular OT	Sq M	85		
3	Self Levelling Compound	Ls	2		
4	Anti microbial Painting	Sq M	150		
5	False ceiling as per tender specification	Sq M	85		
6	Touch screen control panel as per tender Specification	Nos	2		
7	LED X ray Viewing Screen as per tender Specification	Nos	2		
8	Storage Shelves as per tender Specification	Nos	4		
9	Hatch Boxes as per tender Specification	Nos	2		
10	Pressure Relief Dampers	Nos	2		
11	Hermetically sealed automated door as per tender Specification	Nos	2		
12	Operating List Board as per tender Specification	Nos	2		
13	Medical Gas copper pipeline inside the OT and the Provision to connect to Pendant Systems	Ls	1		
	15mm OD X 0.7mm thick	Mtrs	60		
	22mm OD X 0.9mm thick	Mtrs	30		
14	Outlets with probe				
a	Oxygen	Nos	4		
b	Vacuum	Nos	4		

c	Medical Air 4 Bar	Nos	4		
d	Nitrous Oxide	Nos	4		
15	Supply installation testing and commissioning of Medical gas hose assemblies. Hoses shall be color coded throughout their length as specified in British standards .	Mtrs	40		
16	Double arm movable pendant	Nos	2		
17	OT Light LED with camera & Monitor	Nos	2		
	TOTAL				

AMENDED BOQ

2 NO:S MODULAR OT'S - TERTIARY CANCER CARE CENTRE					
S.N	NAME OF THE ITEMS	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
1	Prefabricated SS 304 room walls	Sq M	150		
2	PVC Flooring for Modular OT	Sq M	85		
3	Self Levelling Compound	Ls	2		
4	Anti microbial Painting	Sq M	150		
5	False ceiling as per tender specification	Sq M	85		
6	<i>Laminar Flow Air System and Exhaust cabinets as per tender Specification</i>	<i>Nos</i>	<i>2</i>		
7	<i>Peripheral Lighting and Clean Room Luminaries as per tender Specification</i>	<i>Nos</i>	<i>16</i>		
8	Touch screen control panel as per tender Specification	Nos	2		
9	LED X ray Viewing Screen as per tender Specification	Nos	2		
10	Storage Shelves as per tender Specification	Nos	4		
11	Hatch Boxes as per tender Specification	Nos	2		
12	Pressure Relief Dampers	Nos	2		
13	Hermetically sealed automated door as per tender Specification	Nos	2		

14	Operating List Board as per tender Specification	Nos	2		
15	Air conditioning duct only with in the OT.	Nos	2		
16	Distribution Box and Internal electrical wiring inside the OT and Provision for connecting to pendants	Nos	2		
17	Medical Gas copper pipeline inside the OT and the Provision to connect to Pendant Systems	Ls	1		
	15mm OD X 0.7mm thick	Mtrs	60		
	22mm OD X 0.9mm thick	Mtrs	30		
18	Outlets with probe				
a	Oxygen	Nos	4		
b	Vacuum	Nos	4		
c	Medical Air 4 Bar	Nos	4		
d	Nitrous Oxide	Nos	4		
19	Supply installation testing and commissioning of Medical gas hose assemblies. Hoses shall be color coded throughout their length as specified in British standards .	Mtrs	40		
20	Double arm movable pendant	Nos	2		
21	OT Light LED with camera & Monitor	Nos	1		
	TOTAL				

Added Para

Bidder should provide provision for mounting OT light in all MOTs.

Added Para

14	LAMINAR AIR FLOW SYSTEM
14.1	The ceiling filtration system should be designed to ensure unidirectional distribution of sterile air of the surgical theatre to ensure the cleanliness of all the area covered by the air flow.
14.2	The Laminar flow system should comprise of thick extruded aluminum profiles frame and sealed gasket. The filters installed in the plenum should be suitable for application for laminar flow and clean rooms. These filters should meet following specification.

	Separators : continuous thermo plastic chord
	Sealant : Polyurethane
	Gasket : One piece polyurethane
	MPPS average efficiency: > 99.95%
	3 Micron DOP efficiency > 99.99%
	Final Pressure drop : 600 pa(max)
	Maximum Operating Temp : 60 degree Celsius
	Maximum RH : 40-50 %
14.3	The ceiling system should be equipped with “H 14” class HEPA filters position in the ceiling to achieve 0.25m/sec flow at the diffuser.
14.4	Filtration Ceiling System holding structure, Filter frames and top plenum should be made of Aluminium/Stainless Steel.
14.5	The filtration ceiling system should have diffuser/flow equalizer to achieve uniform & constant air distribution over the whole surface. It should be CE/UL certified
14.6	The air management system should be designed to achieve class 100 with the following parameters:
	Bacteriological class =B (5 CFU/m ³)
	Particle decontamination kinetics CP =5 min
	ISO 14644/1 classification = ISO 5
14.7	The positive pressure should be maintained inside the OT to prevent contamination due to air from outside the OT.

14.8	The supplier should provide test certificate for HEPA filter and laminar air flow systems from the original manufactures.
14.9	Size of laminar airflow system should preferably not be less than 10 feet X 10 feet. Minimum 8 feet X 8 feet.
14.10	Should be CE certified.
14.11	Provision for mounting OT light should be provided in all modular OTs.
	Note: Prospective bidders are advised to collect the information regarding CFM and AHU capacity from the respective institute site. Total flow rate of filter bank shall match the CFM of AHU.
15	EXHAUST AIR CABINETS
15.1	Return air exhaust grill should be provided in the OT.
15.2	The exhaust air cabinets should be openable and cleanable.
15.3	These cabinets should have suction from bottom and top also.
15.4	Designed flow rate should not be less than 1000 m ³ /hr. Distribution of exhaust air volume should be divided between fluff strainers to maintain the required pressure within the theatre without causing turbulence.
15.5	The Exhaust air cabinet should be manufactured and supplied by the supplier of wall and ceiling system supplies.
15.6	Return air exhaust cabinet should be made from SS304 and should be from the same manufacturer of wall panel. Also it should match perfectly with the ceiling system aesthetically

16	PERIPHERAL LIGHTING AND CLEAN ROOM LUMINARIES
16.1	To provide peripheral lighting and clean room luminaries with intensity min 500 Lux, it should be 8 in numbers for each OT. Should be with highly specular anodized aluminum reflectors and optical antiglare system.
16.2	Luminaries cover should be made of highly resistant, disinfectant proof laminated safety glass with stylish fine grained surface, glass pane with white coated steel frame.
16.3	The reflectors should be of high quality, cleanable and non-deteriorating.
16.4	The white luminaries body should be made of sheet steel/ perfectly powder coated, supplied ready for connection optionally for individual or series circuit with digital electronic control gear in multi lamp technology.
16.5	Recess frames should be gas tight. The fitting should be flush with the ceiling and should be removable from top or bottom. The light fitting should be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the OT. Light should not interfere when green mode endoscopy is performed
16.6	Peripheral lighting should be done according to IP65(international protection rating 65)
16.7	Control equipment for the general lighting and the light dimming should be provided in the theatre control panel

Added Para:

1	WALL PANELING SYSTEM-SS
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1.16. Preferred Make : TATA/Jindal/SAIL

3	PVC FLOORING
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3.15 Preferred Make: Gerfloor / Tarkett

SPECIFICATION OF DOUBLE DOME LED OT LIGHT WITH CAMERA & MONITOR

Added Para:

1. OT light should be US FDA/ European CE certified. The copy of certificate should be enclosed with the technical bid.

Additional conditions

HLL officials requested the bidder to visit the site before quoting for the tender and have their own assessment. HLL officials informed that Form 16 and Form C will not be issued by HLL and TIN no. of HLL should not be mentioned in any of the documents as HLL is acting on behalf of the client in the capacity of consultant alone.

Clause 37(i) of GCC is amended as follows

Sales Tax/VAT (except Service Tax), or any other tax or Cess in respect of this contract shall be payable by the contractor and HLL/Client shall not entertain any claim whatsoever in this respect. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to the contractor by HLL after satisfying with documentary proof that it has been actually and genuinely paid by the contractor.

The same changes shall be applicable wherever the service tax is mentioned in the tender document ie in Vol II- GCC, Additional conditions III, & IV and so on.

The Bidders shall submit the compliance for technical specifications as per the requirement. It was decided to extend the submission and opening of the tender to **25.11.2016 at 3.00 pm and 3.30 pm respectively.**

All the bidders are requested to download the **New price bid** with amended items in BOQ and technical specifications as per the prebid meeting which is also uploaded in HLL website along with pre bid meeting minutes.

The minutes of prebid meeting and **New Price Bid** forms part of the tender document and the vendors are requested to mandatorily seal and sign the pre bid minutes and submit it along with the technical bid.