



Dated. 07-12-2020.

BID INVITATION EXTENSION NOTICE

The Bid invitation for the purchase of following Items advertised through Newspapers **The Dawn** & **Express** dated **15-11-2020** vide IPL No. 9730. and uploaded on PPRA Website 13-11-2020 bid opening due date which is **08-12-2020** of the following bids is hereby extended upto **12-12-2020**. The timing for submission and opening of Bid will remain same.

Sr. No.	Item Description	Qty	Mode of purchase
	Establishment of Institute of Peds Cardiology & Cardiac Surgery		
1.	Heart Lung Machine with heater cooler system	1	C&F
2.	Air Filtration Sterilizer system for ICUs	4	FOR
3.	Tilt Table (Head up tilt test system) with CRT Optimizer	1	FOR
	Establishment of Institute of Peds Surgery & Allied Surgery		
4.	Ultrasonic Surgical Aspirator for Neurosurgery with straight and curved hand pieces	1	C&F
	Audiology Equipment		
5.	VNG (Video Nystagmus Graph) system	1	FOR
6.	Clinical Audiometer	1	FOR
7.	Free Field Hand Held Audiometer	1	FOR
8.	Binocular Indirect Ophthalmoscope with adjustable inter pupillary distance, halogen illumination	2	FOR
9.	Low Vision testing kit with 29 items caring in case	1	FOR
10.	Miscellaneous Equipment for Ophthalmology	As Per List	FOR
11.	Instruments for Ophthalmology	As Per List	FOR
12.	Digital Camera	2	FOR
13.	Multi Media Projector	1	FOR
14.	O2 Cylinder with Fitting & Stand	8	FOR
15.	Head Unit (Panel Service)	13	FOR
16.	Suction Ventury	30	FOR
17.	POP cutter (Imported)	6	FOR
18.	Paediatric Orthopedic Drill with attachments (Imported)	4	C&F
19.	M. Magnifying Loops with LED head light (Imported)		
	2.5X	8	FOR
	3.0X	6	FOR
	3.5X	3	FOR
20.	Humby Skin Graft Knife	4	FOR
21.	Phototherapy Unit (imported)	2	FOR
22.	Resuscitation trolleys (Local)	1	FOR

MEDICAL DIRECTOR
The Children's Hospital, Lahore.

MINUTES OF THE PRE BID MEETING FOR THE PURCHASE OF MEDICAL EQUIPMENT/ MISCELLANEOUS ITEMS/ INSTRUMENT FOR THE FOLLOWING ADP SCHEMES HELD ON 25-11-2020 AT 11:30 A.M. IN THE CONFERENCE ROOM OF THE ADMIN BLOCK IN THE CHILDREN'S HOSPITAL, LAHORE.

1. Bids regarding the purchase of Medical Equipment/ Miscellaneous items/ Instruments for the following ADP Schemes was advertised vide bid notice No./ P.C/49905/1-22 CH&ICH dated 09-11-2020.
2. Tender Published in newspaper on 15-11-2020 under IPL No.9730 (Daily Express & The Dawn) as well as on PPRA website and ready for sale.
3. A Pre-Bid Meeting held was on 25-11-2020 at 11:30 am (As per schedule already given in the advertisement).
4. Meeting starts with the recitation of Holy Quran. It was briefed to the Chairperson that pre bid meeting scheduled as per PPRA rules to clarify the queries of the company in order to avoid any misunderstanding during bidding process.

The proceeding are as follows;

1. Heart Lung Machine

A Panel of Cardiac Surgeons (Dr. Muhammad Asim Khan, Dr. Syed Salman Shah and Cardiac Surgeon of PIC) along with Chief Perfusionist Mr. Azhar Iqbal briefed the committee that existing PVMS of heart lung machine is for adult and have some limitation for neonatal patient. On their request some extra features are added mentioned in PVMS specification document points are mentioned as follow.

(Heart lung machine for neonates and pediatric having certain feature to ensure the patient safety.

1.The machine must have the ability ,I addition to standard monitoring ,to continuous monitor in line perfusion and metabolic parameter such as venous blood temperature, saturation ,hematocrit and that should be displayed on an electronic, LED monitor/Console.

2. The machine must have the ability to be upgradable i.e there must be the provision to add Mast pump heads and hereby increase pump head capacity as this is essential for pediatric and infant cardiac surgery where more vents are required than in adult cardiac surgery.

3. Pump head must be rotatable to 180 ° so that adjustment in tubing length can be made in order to decrease priming volumes in neonates and infant.

5. Pump Head of the machine must stop automatically and immediately if the pump head cover is opened as the margin of error and risk for tubing rupture and air embolism is very small in infants and neonates.)

These are required for safest proceedings for neonates of patient weighing less than 5 kg. Four company representatives attend the meeting M/s Vertex Medical, M/s Mediland, M/s Universal Enterprises, M/s Medtronic. Three companies show the consent that the product comply on these amended specification except M/s Mediland. After detail discussion and recommendation of cardia surgeons it was decide to add those point for the better patient care. Machine is quoted without Heating cooling unit.

2. Air Filtration Sterilizer system for ICUs

It was brief to committee that 10 ICU rooms were designated for the insulation of Air filtration units .The dimension of ICUs rooms were given to firm representative of companies for precise working and selection of units to fulfill the requirements as per PVMS and dimension of ICU rooms It was decided that participating firms must

present their product for demonstration in order to ensure the working efficacy it was recommended to perform pre and post culture test and particle count of the successful firms.

The mode of procurement and it remain same as published i.e FOR

3. POP Cutter (Imported)

It was decided with the mutual consciences that point number 1 & 5 in PVMS relating to filtration and micro filtration will be excluded due to budget constrain. One extra blade of both sizes will be added in accessories.

4. M. Magnifying Loops with LED head light (Imported)

It was decided that three LED head light with one extra pack of battery will be supplied with loops. Mode of payment remain same as published in newspaper i.e FOR

5. Suction Venturi:

Estimate price published in newspaper is written Rs.15, 000/ piece, read as Rs.30, 000/ piece.

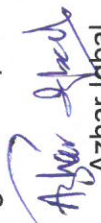
6. Ultrasonic surgical aspirator:

Estimate price published in newspaper is written Rs.3,000,000/, read as Rs.13, 000,000/.

Accessories added in PVMS as per end user request.

7. Orthopedic Drill:

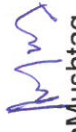
It was finalized to procure orthopedic drill as per PVMS (two hand piece) and participants were advised to quote the price item wise like attachment etc. instead of quoting the lamp sum price .


Azhar Iqbal
Chief Perfusionist


Engr. Irfan Haider
Bio Medical Engineer/
Purchase Officer / Co-ordinator

Engr. Shujaat Ali
Bio Medical Engineer


Dr. Aneela Shaheen
WMO Audiology Department


Dr. Asma Mushtaq
S.R Paediatric
Ophthalmology

Dr. Laeeq-ur-Rehman
Senior Registrar Paed
Neurosurgery


Dr. Aslam Khan
Assistant Prof. of Plastic &
Reconstructive Surgery

Dr. Mumtaz Hussain
Assistant Professor Paeds
Orthopaedic Surgery


Dr. Imran Hashim
Assistant Prof. Paediatric
Surgery


Dr. Syed Salman Shah
Assistant Prof. of Paed
Cardiovascular Surgery


Dr. Muhammad Asim Khan
Associate Prof. of Paeds
Cardiovascular Surgery

Dr Tayyab Pasha
Prof of Cardiac Surgery
Jinnah Hospital, Lhr.

Dr. Zafar Tufail
Prof of Cardiac Surgery PIC,
Lahore

Dr. Nabeela Talat
Prof. of Paeds Surgery
Chairperson

Clinical Specialty	Cardiac Surgery
Generic Name	Heart Lung Machine
Clinical Purpose	Cardiopulmonary bypass (CPB) is a technique that temporarily takes over the function of the heart and lungs during surgery, maintaining the circulation of blood and the oxygen content of the body. The CPB pump itself is often referred to as a heart-lung machine "the pump"
TECHNICAL SPECIFICATIONS	
• 05 Pump Complete Modular Pumps console with all Modular Parameter • 04 Single roller pump+1 Twin Pump or Two Small roller Pump • Dual Pressure module • Temperature module • Monitor interface module • Power supply module • Battery backup minimum 90min. • Level sensor • Ultrasonic Bubble detector • Flexible Led Lamp • Mechanical /Electronic Gas blender • Cardioplegia Monitoring Unit • System Control Panel • Venous occluding clamp. • 05- Pump Console: • Heart Lung machine should have modular system. • The Console should have 05 pump attachment. • Smooth stainless steel, painted metal and aluminum. • Entire system should operate on battery system for a minimum of 90 Minutes For arterial pump battery backup should be 180 minute or more. • Switch over from main power to battery backup should be automatic and immediate. • Battery Unit should be built in to the pump base. • It should recharge automatically when the system is operating with main power supply. • Pump-console should have single cable connection from external power supply. • Provision for a connection to PC. • 24 Volt operated socket for all pumps to avoid risk. • Should have hand crank facility as a safety feature with each pump • All the pump should have facility of pulsatile mode System Control Monitor: Should display follow below components. • Pulsatile operation display. • Pressure monitoring display. • Temperature monitoring display. • Timer system display. • Battery voltage display. • Safety buttons • Alarm for shut down for any pump Cardioplegia monitoring unit: • It should display Volume ratio, timer, temperature, and pressure of full control of independent cardioplegia line.	

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Dr. S. S. S.

Dr. S. S. S.

- Master follower function and pump to stop

Single Roller Pump:

- The unit should have 5-pump compactly arranged with Universal connection
- Monitoring flow rates in LPM & RPM should be digitally display on the pump or equivalent
- Modules pump should have easy access connection for interchanging the pump with console.
- Pump should be peristaltic for durability and convince of handling.
- Roller pump should have a self-diagnostic circuit with provision to detect and display critical alarm conditions
- Each individual roller pump should be capable of running independently.
- Each Pump should operate onto 24 Volt.
- Roller Pump Range: 0-250 RPM
- Display of all pump condition on pump.
- Calibrations preset for $\frac{1}{4}$, $\frac{3}{8}$ & $\frac{1}{2}$ tubing.
- It should have Reverse flow capability.

PRESSURE MONITOR: (Four pressure module)

- Facility to monitor pressures.
- Along with necessary pressure transducers Kit, cables and domes reusable, with accurate digital display and alarm facilities audio and visual.
- It should have trend indicator and trend readout.
- Pole mounts for transducer Kit.

TEMPERATURE MONITOR:

- 04 temperature displays on Control panel for patient monitoring and for cardioplegia monitoring with digital display in Celsius.
- It should have trend indicator and trend readout.

Air –Emboli module.

Level sensor:

- With alarm settings. Should be able to provide both alert alarm for audible and visual alarms or low blood level alarm
- Level sensor pads 100 pcs.

Air Bubble detector:

It should be ultrasonic in nature.

Micro –bubble detection: Yes

Bar Leds, sensor fault, override facility.

Sensor should be compatible with all tubing sizes. $\frac{3}{16}$ " $\frac{1}{4}$ " $\frac{3}{8}$ "

TIME MONITOR:

Minimum 3 time displays.

- With stop, reset and start function

Comprehensive foreign application training of perfusionist

Comprehensive higher end service training of Biomedical Engineer at site of manufacturer.

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saturation ,hematocrit and that should be displayed on an electronic, LED monitor/Console.

2. The machine must have the ability to be upgradable i.e there must be the provision to add Mast pump heads and hereby increase pump head capacity as this is essential for pediatric and infant cardiac surgery where more vents are required than in adult cardiac surgery.

3. Pump head must be rotatable to 180 ° so that adjustment in tubing length can be made in order to decrease priming volumes in neonates and infant.

4. Pump Head of the machine must stop automatically and immediately if the pump head cover is opened as the margin of error and risk for tubing rupture and air embolism is very small in infants and neonates.

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items.

Country / Origin of Manufacturer:

USA / Europe / Japan

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58.No.02.

Clinical Specialty	OT General Surgery
Generic Name	MOBILE AIR PURIFICATION SYSTEM
Clinical Purpose	Mobile air purification system is used to remove contaminants from the air in a room / theater.
TECHNICAL SPECIFICATIONS	
Air purification system for the removal of bacteria, viruses, mould spores and gases from indoor areas of hospitals, operation theatre/ICU and Wards. Gas absorber for the removal of gases and ozone. With filter less technology / In case of filter it should be ULPA filter Cleaning capacity maximum 430-450 m ³ /h or 200-230 m ³ /h (End user to specify). Minimum particle removal size less than 0.003 – 0.001 um. Cleaning efficiency 90-95 %. Automatic cleaning of the system. Sound level 42 dB or less	
Warranty: Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable lights ULPA filters items for 03 years.	
Country / Origin of Manufacturer: USA / Europe / Japan	





Sr. No-04

Clinical Specialty	ULTRASONIC SURGICAL ASPIRATOR
Generic Name	Ultrasonic Surgical Aspirator (CUSA)
Clinical Purpose	Specifically used in brain and spinal tumors for their removal without giving traction on normal Nervous tissues
TECHNICAL SPECIFICATIONS	
ULTRASONIC SURGICAL ASPIRATOR (CUSA) • For use in different brain and spinal operations. • Electric Ultrasonic aspirating system should have 100 Watt output power or more. • Irrigation flow maximum 25 ml to 50 ml/min. • Suction pressure 0-0.6 bar or better. • Steam autoclavable hand pieces. • Ultrasonic Surgical Aspirator system on mobile trolley with 4 wheel castors. • Variable energy and control aspiration. • Tissue selection mode. • Integrated cooling and suction facility. • Compatible module for electrosurgical unit. • Inclosing of the following accessories and hand pieces of: • One Console • Magnetostrictive Technology/ Piezo Electric and water cool hand pieces • Ultrasonic Surgical Aspirator with foot switch control system. • One Hand Piece straight with resonance frequency 36 kHz or more • Sterilization case for each hand piece • Ultrasonic bone sculpting saber tip • Micro Tip for transphenoidal work • Biopsy collection Trap • Irrigation Built in Optional: One Hand Piece angled with resonance frequency 23 kHz or more Accessories: Micro Tip 1 pack Curve Tip 5 packs Straight Tip 5 Packs Irrigation Tube 5Packs Nose Cone 3 Packs Filter 1 extra with standard Packing	
Warranty: Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.	
Country / Origin of Manufacturer: USA / Europe / Japan	

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Clinical Specialty	Audiology	
Generic Name	Clinical Audiometer	
Clinical Purpose	Advance level of audiometer for environmental testing of patients, hearing capacity using different techniques like Free Field Audiometry, Speech Audiometry, High Frequency and VRA Setup.	
TECHNICAL SPECIFICATION		
Frequency Range: Up-to 8kHz		
Pure Tune Audiometry		
Bone Conduction		
White Noise (Built-in): (-10 to 95) dB HL or better		
Narrow Band Noise		
Signal Type: (Steady / Continuous, Pulsed)		
Special Test: (ABLB, SISI, Tone / Decay Test)		
Accessories:		
AC Headset		
BC Headset		
Microphone (Talk Forward & Talk Back)		
Patient Response Switch		
Compatible Printer		
Optional Techniques:		
Speech Audiometry		
Free Field Audiometry (Free Field Audiometry: Frequency 125Hz – 8kHz and Free Field Audiometry Intensity: (-10 dB HL to 90 dB HL) or better		
High Frequency Audiometry (8kHz to 20kHz) or better		
VRA Setup		
Optional Accessories:		
Speech Audiometry Accessories		
Free Field Audiometry Accessories		
HF Head Set in Case HF Air Conduction:		
Special Test (MLB, Lombard Test, Stenger Test, High, Frequency Audiometry, Tinnitus Matching Test)		
VRA Setup Accessories:		

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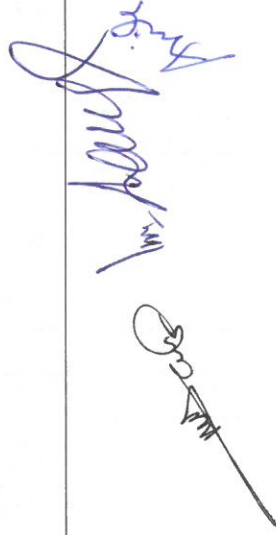
Visual Stimulator, LCD / LED Monitor, DVD Player, Toys, Light Effects, Powerful Free Filed System
Warranty: 3 year comprehensive warranty.
<i>The system must be quoted with all standard accessories pertaining to different quoted techniques.</i>

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Sr. No. 15

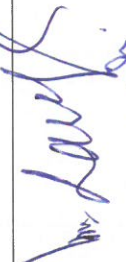
Clinical Specialty	Allied Equipment and Machinery		
Generic Name	MEDICAL GAS PIPE LINE SYSTEM		
Clinical Purpose			
TECHNICAL SPECIFICATIONS			
BED HEAD UNIT FOR WARDS ROOM			
• Each unit consists of: 1,000 mm and above • Horizontal type • Built in reading Light, with ON/OFF switch. • Provision for Nurse • Gas outlets (1x Vacuum, 2x Oxygen complete fitted). • Electrical provisions; • Electrical sockets: 4 Nos. & 2Nos. Multi Pin Plug and above schuko/ F-type All wiring conforms to standards, ground/earth • Separate ducts for Electrical & Gas Pipes.			
Subject to physical inspection locally made Bed head Unit with imported Gasses outlet and electric socket.			
Accessories:			
Warranty :			
3 year exclusive warranty.			


Mr. P. S. Suresh

Mr. A. S. Suresh

Sr. No. 17.

Clinical Specialty	Orthopedic Surgery
Generic Name	POP CUTTER
Clinical Purpose	This device is used for cutting of plaster cast
TECHNICAL SPECIFICATIONS	
1. High oscillating speed 16000 CPM or better 2. Low oscillating speed 6500 CPM or better 3. Sound level : 70 dB(A) or better 4. Sound level : 70 dB(A) or better	
Accessories: 2x Sawblade 65mm approx. 2 xSaw blade 50mm approx.	
Warranty : 3 year exclusive warranty.	



Sr. No. 18.

Clinical Specialty	Orthopedic Surgery
Generic Name	BATTERY OPERATED
Clinical Purpose	This system is operated by battery and used to operate power tools
TECHNICAL SPECIFICATIONS	
1. Cordless Battery operated electric hand piece with quick release drill attachments 2. Instrument forward reverse and oscillating mode. 3. Hand piece and all attachment fully machine washable 4. Control method: triggered 5. Speed: 0-1000rpm or better 6. Cannulation: 4.1mm or better 7. Saw type reciprocating 8. Speed: 6500 - cycle/min or better 9. Sagittal Saw/Oscillating saw: 10. Speed: 0-11000 cycle/min or better 11. Quick change attachments locking mechanism sagittal saw attachment, Burrs/Blades, Oscillating saw with separate Hand Pieces, 12. Wire and pin drive attachments. 13. K-wire driver, Reamer attachment and Drill Bit attachment.	
Accessories:	
Sterilization Container	
1 Extra Battery	
Warranty :	
5 year exclusive warranty.	





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Clinical Specialty	Orthopedic Surgery	
Generic Name	MAGNIFYING OPERATING LOOPS	
Clinical Purpose	Use in fine surgery especially surgery on nerves, tendons and small vessels	
TECHNICAL SPECIFICATIONS		
TYPE A		
Binocular alilean loupes with fatigueless view.		
Magnification: 2.5x – 3.0x and 3.5(End user specified)		
Working distance: 550-300 mm.		
Field of view: 115-70 mm.		
Titanium or sport frame designed specifically to use with loupes in different colors		
HEAD LIGHT:		
LED Head Light with Battery.		
Accessories:		
• Storage case • Magnification loupes and frame (in case of special frame) • Flip paddle • Protective lens cap • Protective shield • Screw driver • Cleaning cloth • Head strap • User Manual		
One Extra Battery for backup.		
Warranty :		
3 year comprehensive warranty includes frame loops etc.		
		