

MINUTES OF THE PRE BID MEETING FOR THE PURCHASE OF ELECTRO MEDICAL EQUIPMENT/ MISC. ITEMS/ IT ITEMS & ELECTRIC ITEMS UNDER ADP SCHEMES "ESTABLISHMENT OF SECOND UNIT OF NEONATOLOGY" HELD ON 12-08-2021 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 Electro Medical Equipment/ Misc. items/ IT items & Electric Items under ADP Schemes "Establishment of Second Unit of Neonatology" was advertised vide bid notice No./ P.C/36375/1-20 CH&ICH Dated 02-08-2021.
2. Tender Published in newspaper on 04-08-2021 under IPL No.7734 (Daily Express & The Nation) as well as on PPRA website on 05-08-2021 and ready for sale.
3. As per advertised tender a Pre-Bid Meeting held on 12-08-2021 at 11:30 am (As per schedule already given in the advertisement).
4. Meeting starts with the recitation of the Holy Quran. It was briefed to the Chairperson that pre-bid meeting scheduled to clarify the queries of the company in order to avoid any misunderstanding during the bidding process.
5. Detailed discussion made by the Pre-Bid Committee with the representative of the firms & following discussion was made by the committee.

1. (A) Non-invasive Cardiac Monitor (B) Invasive Cardiac Monitor (As a package)

The company representative raised the question regarding the clarification of ECG leads provision in PVMS there is two option 5 and 10 leads.

After due deliberation 10 leads are considered as final and all firms must quote 10 lead option whereas 5 leads are omitted.

Query related to IBP transducer and adopter quantity
50 transducers and 3 adopter cables required against each monitor.

2. Ventilator with Compressor & Humidifier (Neonatal) (HFO)

The screen size of the ventilator (HFO) is 12 inches.

3. Ventilator With Compressor & Humidifier (Neonatal)

Screen size of the ventilator is 15 inches.

4. Anesthesia Machine

The specs floated was of the basic unit of Anesthesia machine, as per our work requirement (Specialized surgeries) the hospital required Anesthesia work station, copies of specifications are available in the Purchase Department.

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5. (A) Bilirubinometer

Thermal printer as optional but mandatory to quote

(B) Centrifuge Machine

In publish specs it was written Hematocrit capillary tube 1.5/2ml read as up to 100ul.

6. Multimedia Projector

Quantity of Multi Media Projector should be read as two units (02 Nos.) instead of (3 Nos.) and the estimated cost for 2 units is Rs. 600000/- Six Lac. Some changes were made in specifications all concerned firms can received new specification from Purchase Department or download from the Children's Hospital, Lahore website i.e. www.chich.edu.pk.

• **Certification of product:**

The medical equipment offered from foreign countries of USA, Europe, and Japan shall be eligible to participate and must bear FDA510k, CE(MDD), or MHLW (Ministry of Health, Labor and Welfare) standard, respectively Suggestion of Dual certification by companies is rejected.


• **Security Deposit.**


As per PPRA Rules CDR/Bank grantee both are acceptable.

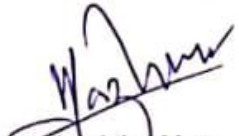
• **Bidder past performance of the quoted product:**

Performance of the quoted product must be of same manufacturer and model

Performance certificate must be of recent years which will clearly show the performance of equipment and services of a firm for last 1 year.



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



Engr. Shujaat Ali
Bio Medical Engineer


Mazhar Iqbal Noor
Computer Programmer / IT
Incharge

Dr. Imran Hashim
Associate Prof. of Paediatric Surgery

Dr. Farah Haroon
Associate Prof. of Neonatology
Department / Enduser


Prof. Dr. Tipu Sultan
Prof. of Paediatric Neurology /
Head of Neurology Department/
Chief Purchase Officer


Prof. Dr. Khawaja Ahmed Irfan Waheed
Professor of Neonatology / Enduser

It is submitted for information & approval please

M.D.



Clinical Specialty	Anesthesia & Ventilator
Generic Name	ANESTHESIA WORKSTATION
Clinical Purpose	The anesthesia workstation is used by anesthesiologists and nurse anesthetists to support the administration of anesthesia. The most common type of anesthetic machine is the continuous-flow anesthetic machine, which is designed to provide an accurate and continuous supply of medical gases (such as oxygen and nitrous oxide), mixed with an accurate concentration of anesthetic vapor (such as isoflurane), and deliver this to the patient at a safe pressure and flow. Anesthesia work station incorporate a ventilator, suction unit, and patient monitoring devices.

TECHNICAL SPECIFICATIONS

Anesthesia work station machine to administer anesthetic agents in precise control and flow manner.

The machine will equip to monitor the vital sign parameters and anesthetic agents during operation.

It should stay on the theatre (for mobile use) housing

3-gases O₂/N₂O/AIR.

Provision of communication port for sharing and transfer of data.

Unit shall comprise of the following components:

Electronically/digitally control, mixing and monitoring of anesthetic gases (O₂, AIR, and N₂O) both by digits as well as virtual tubes.

Built-in illumination system.

Non-interchangeable pipeline inlets

Pipeline & cylinder gauges for O₂, N₂O and AIR

Central gas/ electronically driven unit.

Pin index cylinder yokes for Oxygen & N₂O (One each), as backup.

Pin index type cylinders will be provided with the unit (2xO₂ and 2xN₂O: BS standard)

Gas outlet and O₂ flush control

1 auxiliary O₂ outlet (preferably electronics).

Two Lockable castors

Stainless steel/fiber work surface

Absorber bag support arm

Integrated heated breathing system.

Three gas electronic digital flow meters for precise control and monitoring of gases.

Drawer unit 5-6" high.

Power outlet with 3/4 socket outlets to connect the auxiliary equipment.

CO₂ absorber 800 – 1,500 gm or better with changeable during the surgery.

Complete with valve for bag/ventilator, manometer, 0.5, 1.0, 1.5, 2 & 3 L breathing bags,

Breathing tube (adult and paed).
Mounts and Y-piece.

Additional breathing hose and connector (adult and paed).

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Scavenging system passive / active type.

Suction system.

ANESTHESIA VENTILATOR:

Anesthesia Ventilator with minimum 12" or more LCD /TFT Screen.

The ventilator shall be capable of ventilating Neonates /pediatric patients/Adult Patients) The ventilator shall have following features as a minimum requirement:

Volume Preset Time Cycled Ventilator (IPPV Mode)

Manual, spontaneous; Volume Mode (IPPV) / CMV

Pressure Mode (PCV)

Pressure Support (PS)

Pressure Control (PC)

Pressure Controlled and pressure support Modes

Synchronized volume controlled ventilation (SIMV) with PS

PS with apnea back up

Breathing Mode Selection (Standby / Volume / Spontaneous and Pressure)

Built in Oxygen Monitor

Inverse I:E ratio Capability

Gas Specific Input Connectors (Air or Oxygen ISO or ANSI Standards)

Tidal Volume P.C 5ml to 1400ml. & VC 20-1400ml.

Rate or Frequency 4 to 80 bpm

PEEP 3 to 20 cm of H₂O.

Inspiratory Pressure Limit

Pressure and Volume (Spirometry) Loops / Curve.

Oxygen / Electronically Driven

Power Supply 220 VAC , 50 Hz

Battery Backup (60 Minutes or more)

Low / High FiO₂ Alarm

Incorrect Rate or Ratio alarm

Mains Failure alarm

Low battery alarm.

Oxygen Sensor: Paramagnetic

Hypoxic Device.

The ventilator shall be supplied with complete drive hose and power cable.

Note: Three year and five maintenance kits (needs to replace annually) will be included in the warranty period as per manufacturer's guidelines.

Two pre calibrated Vaporizers of Isoflurane & Sevoflurane vaporizer, temperature and flow Cardiac bypass mode / HLM / Spontaneous Mode.

Anesthetic Agent monitoring (with in the anesthesia machine)

220V, 50 Hz operated.

Battery backup of at least 60 minutes

Online UPS with backup of 30 minutes for complete unit.

All Accessories to execute the functions



20/08/21



OPTIONAL:

MONITORING :

Modular Vital sign monitor.

Size of minimum 17" touch screen or more for display of vital sign parameters of neonates, infants and adults.

Measurement of ECG

NIBP with re-usable single hose cuff for neonates, child and small adults

SpO2 (Massimo Technology / Equivalent motion tolerant technology) with re-usable cable and sensors for neonates, infant, adult and small adults sizes (Qty 02).

HR

Temperature with nasal probe.

Respiration

Four Channel IBP

EtCO2 main / side stream (Complete with all sensors probes, reusable).

Note: Monitors must be supplied by the same manufacturer and must be compatible with the machine and ventilator.

ACCESSORIES:

2 NIBP Cuff each,

2 Spo2 probe,

2 ECG Leads

Four Channel IBP leads.

NIRS (Near Infra-Red Spectroscopy unit for Cerebral Pulse Oximetry for pediatric patients.

Complete with main unit with monitor and sensors including disposable head sensor/probe (Qty 50 Nos.)

NMT Neuro muscular transmission.

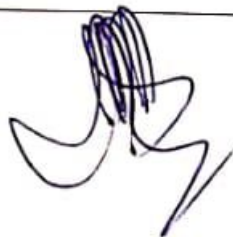
BIS Monitoring.

Warranty:

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

The warranty of equipment will be including batteries, oxygen sensor, all kinds of filters and flow sensor.

**Mandatory to attached list of annual maintenance kits as recommended by the manufacturer and should be replace after every year within the warranty period.



21/08/21
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SPECIFICATION OF MULTIMEDIA PROJECTOR

Technology	3 LCD Technology
Brightness	5000 Lumens or higher
Resolution	WUXGA (1920 X 1200) or higher
Contrast Ratio	16000:1 or higher
Aspect Ratio	16:10
Color Reproduction	Upto 1.07 billion colors or higher
Keystone Correction	Auto vertical: $\pm 30^\circ$ horizontal $\pm 30^\circ$
Throw Ratio	1.38 - 2.24:1 or higher
Zoom	Manual, Factor: 1 - 1.6 or higher
Lamp type	300W or higher
USB Display Function	3 in 1: Image / Mouse / Sound
Interfaces	USB 2.0 Type A, USB 2.0 Type B, RS-232C, Wired Network VGA in (2x), VGA out, HDMI in (2x)
Loud Speaker	16 Watt
Screen Size	29 inches – 280 inches or higher

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