



Lady Reading Hospital (LRH)
Medical Teaching Institution (MTI)
Peshawar
Contact No: 091-9211927

BID SOLICITATION DOCUMENTS
For

REF: (ME- 23 Procurement of Medical Equipment's 2024-26)

Note: The prospective bidder is expected to examine the Bidding Documents carefully, including all Instructions, Terms & Conditions, and Specifications etc. Failure to furnish all information required by the Bidding documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect would result in the rejection of the Bid.

Manager Material Management
LRH/MTI Peshawar

AD Legal
LRH/MTI Peshawar

HOD Gynae
LRH/MTI Peshawar

HOD ENT
LRH/MTI Peshawar

Manager Inpatient
LRH/MTI Peshawar

Bio-Medical Engineer
LRH/MTI Peshawar

Director Finance
LRH/MTI Peshawar

Nursing Director
LRH/MTI Peshawar

Associate Hospital Director
LRH/MTI Peshawar

Medical Director
LRH/MTI Peshawar

Hospital Director
LRH/MTI Peshawar

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1. INTRODUCTION:

Lady Reading Hospital-Medical Teaching Institution (LRH-MTI) Peshawar invites item wise sealed bids from the Manufacturer/Authorized Dealers for procurement of **“ME- 23 Procurement of Medical Equipment’s 2024-26”** for Hospital Open Competitive Bidding under rule 6(2) (b) **“Single Stage Two Envelope”** bidding procedures of Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Rules 2014.

2. INSTRUCTIONS TO BIDDERS:

1. This Bidding procedure will be conducted in light of Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Laws, Rules made there under along with Standard Bidding Documents.
2. Both Technical Bids and Financial Bids must be submitted in two separate sealed inner envelopes marked “1-Technical Bids” and “2-Financial Bids” which should be packed in one outer envelope.
3. The technical bids will be opened on / /2025 at **11:30 AM** in presence of the bidders/representatives who choose to attend while the financial bids will be opened later on after the evaluation of technical bids. Financial bids of only technically qualified responsive bidders will be opened while the financial bids of technically unqualified bidders will be returned unopened.
4. An affidavit is mandatory, without indicating the figure in the Technical Bid that bid security is placed in the financial bid. Duly attested by notary public.
5. Pre-bid meeting with the interested bidders will be held on / /2025 at **11:00 AM** hrs in MMD Office of the Institution.
6. Any bid received after the deadline for submission of bids shall not be entertained and shall be returned unopened to the Bidder.
7. All the bidders are required to provide annexure wise complete requisite documents with page marking for their Technical Evaluation / Qualification as prescribed under the rules.
8. The bid should be complete in all respect and must be signed by the bidder.
9. All prices should quote in Pak rupees PKR & CNF and should include all taxes applicable by Govt. (at any stage of tender process/till the validity of rates). If not specifically mentioned in the Quotation, it will be presumed that the prices include all the taxes.
10. Bidders are essentially required to provide correct and latest postal/email/web addresses, phone/mobile/fax numbers for actively and timely communication.
11. For any query, clarification regarding Services / Bid Solicitation Documents, the applicants may send a written request at least one day prior to the opening date.
12. The Bidder may after its submission withdraw its bid prior to the expiry of the deadline prescribed for submission of bids. Withdrawn bids will be returned unopened to the Bidders.
13. Any bid not received as per terms and conditions laid down in this document are liable to be ignored. No offer shall be considered if:
 - a. Received without earnest money;

- b. It is received after the date and time fixed for its receipt;
- c. The tender document and the bid is unsigned;
- d. The offer is ambiguous;
- e. The offer is conditional i.e. advance payment, or currency fluctuations etc.
- f. The offer is from blacklisted firm in any Federal / Provincial Govt. Dept.:
- g. Only typed tender on original prescribing letter pad, sealed & signed (Every Page) should be submitted, the quoted Price must be preprinted and hand written quoted price will not be acceptable. The tenders must be according to hospital specification; alternate rates will not be acceptable

- 14. Usage of correction fluid & corrections are strictly prohibited unless duly initiated.
- 15. Any erasing / cutting etc. appearing on the offer, must be properly signed by the person signing the tender.
- 16. Bids will be rejected if the Bid is in some way connected with bids submitted under names different from his own.
- 17. In case of Bid Tie, the decision will be taken by making toss/draw/Recall sealed quotation in front of the bidders.
- 18. Any direct or indirect effort by a bidding firm to influence this institution during the process of selection of a bidder or award of contract may besides rejection of its bid result into its disqualification from participation in the LRH-MTI Peshawar's future bids.
- 19. The bidder shall provide an undertaking that the bidder has not been declared black listed by any Governmental/ Semi-Governmental institutions.
- 20. Bidders shall not be eligible to bid if they are under a declaration of Ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with the Section 44(1) KPP Rules 2014.

3. GENERAL CONDITIONS: -

- 1. LRH-MTI Peshawar shall evaluate the proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements.
- 2. Alternative bid shall not be considered and shall be rejected by the Competent Authority.
- 3. LRH-MTI Peshawar may increase or decrease the quantity of the items required, as per KPPRA rules.
- 4. At any time prior to the deadline for submission of bids, LRH-MTI Peshawar may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.
- 5. If a bid is not substantially responsive, it will be rejected by the Procuring Entity and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
- 6. LRH-MTI Peshawar may accept or reject any or all of the bids under Rule 47 of KPPRA Rules, 2014.
- 7. Additional documents will not be acceptable after Bid Submission.
- 8. **Rates will be valid till 30 June 2026.**

INVITATION FOR BIDS
Lady Reading Hospital
Medical Teaching Institute
Peshawar
Phone: 091-9211927

INVITATION FOR BIDS

Hospital Director, Medical Teaching Institute, **Lady Reading Hospital Peshawar** invites sealed bids from Manufacturer/Importers/Authorized Distributors under National Competitive Bidding for the procurement of **“ME- 23 Procurement of Medical Equipment’s 2024-26”** for Hospital, under rule 6(2)(b) **“Single stage Two envelope procedure”** of KPPRA Rules 2014, from Manufacturer/Authorized Dealers registered with the Income / Sales tax, reflected on Active Taxpayer List of FBR.

The bidders are required to submit bid security @ **1,500,000/-PKR** in the name of Hospital Director LRH-MTI Peshawar. Pre-bid meeting with the interested bidders will be held **on / /2025 at 11:00** AM at Material Management Department of the institution.

The tenders complete in all respect must reach the undersigned by **11:00 AM on / /2025**, which will be opened at 11:30 AM on the same day in conference room / AHD office of the Hospital in the presence of the procurement committee and the bidders / representatives who may choose to attend.

Competent Authority reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Rules 2014.

4. BID Security

- i. Bid security @ **1,500,000** (refundable) drawn in favor of “Hospital Director LRH-MTI Peshawar”
- ii. The bid security in the shape CDR will be accepted only.

The bid security may be forfeited:

- i) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- ii) In the case of a successful Bidder, if the Bidder fails to sign the contract or to furnish performance Guarantee.

5. BID VALIDITY:

- i) The bids should be valid for 180 days.
- ii) In exceptional circumstances, LRH-MTI Hospital may solicit the Bidder’s consent to an extension of the period of validity reasons shall be recorded in writing. The request and the responses there to shall be made in writing. The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

6. BLACKLISTING OF DEFAULTED BIDDER/CONTRACTOR

Conditions for Blacklisting of Defaulted Bidder/Contractor under rule 44 of KPPRA Rules 2014

The following are the events which would lead to initiate (Rule 44 of KPPRA Rules 2014) blacklisting/debarment process;

- Consistent failure to provide satisfactory performances.
- Found involved in corrupt/fraudulent practices.
- Abandoned the place of work permanently

Conditions for debarment of Defaulted Bidder/Contractor

Failure or refusal to;

- Accept Purchases Order / Services order terms;
- Make supplies as per specifications agreed:
- Fulfill contractual obligations as per contract
- Non execution of work as per terms & condition of contract.
- Any unethical or unlawful professional or business behavior detrimental to good conduct and integrity of the public procurement process.
- Persistent and intentional violation of important conditions of contract.
- Non-adherence to quality specifications despite being importunately pointed out.
- Security consideration of the State i.e., any action that jeopardizes the security of the State or good repute of the LRH- MTI Peshawar.

Procedure for blacklisting and debarment

1. Competent authority of Lady Reading Hospital -MTI Peshawar may on information, or on its own motion, issue show cause notice to the bidder.
2. The Show Cause notice shall contain the statement of allegation against the Bidder.
3. The bidder will be given maximum of seven days to submit the written reply of the show cause notice.
4. In case the bidder fails to submit written reply within the requisite time, the competent authority may proceed forth with ex-pa rte. against the bidder.
5. Direct to issue notice of personal hearing to the bidder/ authorized representative of the bidder and the competent authority shall decide the matter on the basis of available record and personal hearing, if availed.
6. The competent authority shall decide the matter within thirty days from the initiation of proceedings.
7. The order of competent authority shall be communicated to the bidder by indicating reasons.
8. The order past as above shall be duly conveyed to the KPPRA and defaulting bidder within three days of passing order.
9. The duration of debarment may vary up to five years depending upon the nature of violation.

7. DISPUTES AND CONTROVERSIES/DISPUTE RESOLUTION

1. The purchaser shall constitute a committee comprising of disagreed & notified by the competent authority proper powers and authorizations to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.
2. Any bidder feeling aggrieved by any act of the purchaser after the submission of his bid may lodge a written complaint concerning his grievances not later than 03 days after the announcement of the bid evaluation report.
3. The grievance redress Officer shall investigate and decide upon the complaint within 06 days of the receipt of the complaint. The report along with decision shall be forwarded to the purchaser officer within the prescribed period.
4. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
Note: Grievance notified & designated who can invite appropriate official as co-opted member for grievance.
5. Any dispute or difference arising out of the Agreement which cannot be amicably settled between the Parties, shall be finally settled by KPPRA whose decision will final and binding on both the parties.

8. STATEMENT OF REQUIREMENT WITH SPECIFICATION

S.No	Specifications
1	Laparoscope with hand instrument HD camera
2	Complete Bronchoscopy set with Audio, Video system Forceps
3	Orthopedic Drill with complete Accessories
4	Microscope with Attachment
5	Cautery Machine
6	Ultrasound Machine
7	OT Tables
8	Adjustable Lights
9	Defibrillator
10	Delivery Beds
11	Anesthesia Machine
12	Head lights
13	Patient Beds (Electrical) set
14	Monitors with central display on counter
15	ECG Machine
16	Portable X Ray Machine (Digital)
17	Portable Ultrasound Machine
18	Suction machine
19	Ceiling OT Light
20	Spica Table
21	Patient /Cardiac Monitors
22	Bipolar Leads
23	Mastoid Bars size 3,4,5 and 6
24	Mastoid Drill hand piece

SPECIFICATION GYNE LAPAROSCOPE WITH FULL HIGH DEFINITON CAMERA SYSTEM		
S No.	Description	Qty
	LAPAROSCOPE INSTURMENTS FOR GYNECOLOGICAL PROCEDURE WITH FULL HIGH DEFINITION CAMERA SYSTEM	
1	Forward-Oblique Telescope 30°, diameter 5 mm, length 29 cm, autoclavable, fiber optictransmission light incorporated, color code: red	1
2	Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: red	1
3	Trocar, size 11 mm, color code: green, INCLUDING: Trocar only, with pyramidal tip Cannula without valve, with insufflation stopcock, length 10.5 cm Multifunctional Valve	2
4	Trocar, size 6 mm, color code: black, INCLUDING: Trocar only, with blunt tip Cannula without valve, with insufflation stopcock, length 10.5 cm Multifunctional Valve, size 6 mm	2
5	Trocar, size 6 mm, color code: black, INCLUDING: Trocar only, with pyramidal tip Cannula, without valve, with insufflation stopcock, length 10.5 cm Multifunctional Valve Seal Set 50/4 26G Mandrel, for opening automatic valves	2
6	Trocar, size 6 mm, color code: black, INCLUDING: Trocar only, with blunt tip Cannula without valve, with insufflation stopcock, length 10.5 cm Multifunctional Valve, size 6 mm	2
7	VERESS Pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1 mm, length 13 cm	1
8	Reducer, 11/5 mm	1
9	KELLY Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, INCLUDING: Plastic Handle, without ratchet, with larger contact area	1

	Outer Tube, insulated		
	Forceps Insert		
10	Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm,		1
	atraumatic, fenestrated, single action jaws,		
	INCLUDING:		
	Plastic Handle, without ratchet, with larger contact area		
	Outer Tube, insulated		
	Forceps Insert		
11	Claw Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, 2 x 3		1
	teeth, single action jaws,		
	INCLUDING:		
	Plastic Handle, with hemostat style ratchet, with larger contact area		
	Outer Tube, insulated		
	Forceps Insert		
12	Bowel Grasper, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action		1
	jaws,		
	INCLUDING:		
	Plastic Handle, without ratchet, with larger contact area		
	Outer Tube, insulated		
	Forceps Insert		
13	SAWALHE Tissue Forceps, rotating, dismantling, without connector pin for unipolar coagulation, with		1
	LUER-Lock irrigation connector for cleaning, double action jaws, size 10 mm, length 36 cm,		
	INCLUDING:		
	Metal Handle, without ratchet, with larger contact area		
	Outer Sheath, insulated		
	Forceps Insert		
14	METZENBAUM Scissors, rotating, dismantling, with connector pin for unipolar coagulation, with LUER- Lock		1
	connector for cleaning, double action jaws, curved, length of jaws 15 mm, size 5 mm, length 36 cm,		
	INCLUDING:		
	Plastic Handle, without ratchet, with larger contact area at the finger ring		
	Metal Outer Sheath, insulated		
	Forceps Insert		
15	Coagulating and Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5 mm,		1
	working length 36 cm		

16	Coagulating and Dissecting Electrode, spatula-sheaped, blunt with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	1
17	Suction and Irrigation Tube, with lateral holes, anti-reflex surface, with two-way stopcock for single-hand control, size 5 mm, length 36 cm	1
18	Macro Needle Holder, straight handle with ratchet, ratchet position on top, jaws curved to left, with tungsten carbide inserts, size 5 mm, length 33 cm	1
19	Clip Applicator, dismantling, rotating, size 10 mm, length 36 cm, with ratchet to lock the jaw holding the clip, INCLUDING: Metal Handle, with ratchet Metal Outer Sheath Insert, for use with Ethicon Titanium-Clips(medium large)	1
20	Unipolar High Frequency Cord, with 4 mm plug, length 300 cm,	2
21	Uterine Manipulator, INCLUDING: Handle Manipulator Rod, including Working Inserts Cap,diameter 34 mm, length 36 mm Cap, diameter 24 mm, length 36 mm Cap, diameter 42 mm, length 36 mm	1
22	Uterine Cannula, with LUER- Lock connector for cleaning, INCLUDING: Uterine Cannula Cone, large Cone, small	1
23	KELLY Grasping Forceps, CLERMONT-FERRAND model, rotating, dismantling, with connector pin for bipolar coagulation, suitable for dissection, double action jaws, size 5 mm, length 36 cm, color code: lightblue, INCLUDING: Plastic Handle, without ratchet Metal Outer Sheath Forceps Insert	1
24	Bipolar High Frequency Cord, length 300 cm	2
25	Plastic Container, for sterilization and storage, with removable instrument rack and	1

	insert tray for storage of	
	up to 12 instruments with diameter 2.5 to 10 mm and up to 6 trocars, perforated, with transparent lid,	
	external dimensions (w x d x h): 532 x 254 x 165 mm	
26	Wire Tray, for the cleaning, sterilization and storage of two rigid endoscopes and one light cable, including	1
	holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h) : 487 x 125 x	
	54 mm, for rigid endoscopes up to diameter 10 mm and working length 32 cm	
27	Full HD Camera System for both Flexible & Rigid endoscopy.	1
	Camera System (CCU & Camera head) should be 1920 x 1080p with 2 camera inputs for Flexible video endoscope connection and rigid camera system as well.	
	The system must comprise of following	
	Full HD 1080p Video Processor CCU with integrated documentation functions for image and	
	video capturing with CMOS FULL HD camera Heads with following technical data or Better or Equivalent	
	· Connections :- 1 x DVI-D	
	· Max. Resolution :- 1920 x 1080p	
	· USB membrane Keyboard with Touch pad	
	· Should have internal Storage of 50 GB or better	
	· Special Features:	
	· Should be compatible with multiple camera heads, multiple connectors for different	
	· camera heads present.	
	· Still image capturing in Full HD (JPEG) Format via camera head buttons	
	· Video Capturing in Full HD Quality (MPEG4 Format) via Camera head buttons	
28	CMOS FULL HD Camera Head, compatible, progressive scan, soakable, gas- and plasma-sterilizable, with focal	1
	length f = 16 mm, 2 freely programmable camera head buttons	
	Technical data:	
	• Image sensor: 1/3" CMOS chip	
	• Pixels: 1920 (h) x 1080 (v) pixels per chip.	
	Sensor type: CMOS	
	• Aspect Ratio: 16:9	
	• Progressive scan (full frame) for Integrated zoom lens	
	• f = 16 mm	
	• Display of 50 or 60 frames per second. Lens:	
	• Control buttons: 3 (2 of them freely programmable).	

	<ul style="list-style-type: none"> • Special features: 		
	<ul style="list-style-type: none"> • CMOS-chip technology for brilliant images. 		
	<ul style="list-style-type: none"> • Image acquisition in format 16:9, with 1920 x 1080 pixels and progressive scan 50 Hz or 60Hz. 		
	<ul style="list-style-type: none"> • Digital through and through: Conversion of optical images to 		
	<ul style="list-style-type: none"> • digital signals at the earliest possible site: The CMOS sensing chip. 		
29	LED light source 150 with one light port		1
	Technical data:		
	Lamp type: High performance LED. Color temperature: approx. 6000 K.		
	Light intensity adjustment: Continuously manual		
	Power supply: 100-240 VAC. Frequency: 50-60 Hz.		
	Certified to: IEC 60601-1, IEC 60601-2-18, UL 60601-1, CSA M601.1,		
	CE according to MDD, protection class I / safety class CF.		
	Special features:		
	Extremely long average lamp life time of 30,000 hours.		
30	Fiber Optic Light Cable, with straight connector, extremely heat- resistant, enhanced light transmission,		1
	diameter 4.8 mm, length 250 cm		
31	27" FULL HD Monitor, screen resolution 1920 x 1080, image format 16: 9, power supply 100 – 240 VAC,		1
	50/60 Hz, 5 V DC output (1 A), VESA 100 adaptor, Video inputs: 2x DVI, 1x 3G-SDI, 1x VGA, 1x S-Video, 1x		
	Composite, Video outputs: 1x DVI, 1x 3G-SDI, 1x Composite,		
	Specifications :		
	Screen diagonal	27"	
	Resolution	1920 x 1080 pixels	
	Aspect ratio	16 : 9	
	Contrast ratio	1000:1	
	Brightness	900 cd/m2 (type)	
	Max. viewing angle	178° vertical / horizontal	
	Video inputs	2x DVI-D, 1x 3G-SDI, 1x RGBS (VGA), 1x S-Video, 1x Composite	
	Video outputs	1x DVI-D, 1 x 3G-SDI, 1x Composite,	
	RS-232C connector	1x	
	USB output	5V/1A	
	Mount	100 mm VESA	
	Power supply	external	
	Unit properties	Picture-in-Picture	
	Power consumption	72 W	
	Power supply	100 – 240 VAC	
	Power frequency	50/60 Hz	
	Dimens. w x h x d	660 x 400 x 87 mm	
	Weight	8.5 kg	
	Cleaning	wipe disinfection	

	Degree of ingress protection	IP32	
	including:		
	1x External 24 VDC Power Supply		
	1x Mains Cord		
	1x cable cover		
	4x mounting screws M4		
32	Electronic CO2 insufflator with gas heating		1
	Technical data:		
	Gas flow: 0.4-40 l/min.		
	Pressure: 0-30 mmHg (4000Pa).		
	Two insufflation modes: High flow mode (0 to 40 l/min.) and in addition innovative sensitive mode for sensitive applications (e.g. in pediatrics).		
	Electronic control and 7" color touch screen.		
	Power supply: 100-240 VAC, 50/60 Hz.		
	Average power consumption: 240 VAC: 230 W, 100 VAC: 130 W.		
	Certified to: IEC 60601-1, CE label acc. to MDD, medical product Class IIb.		
	Type of protection against electrical shocks: Protection Class 1.		
	Degree of protection against electric shocks: Applied part type CF.		
	International protection code (IP Code): IP21.		
	Special features		
	Heatable insufflation tube for heating the CO2 gas up to patient body temperature.		
	Individually programmable procedure list for starting device with personal presets.		
	Should be controllable from camera head buttons		
33	Trolley Locally Supply/Local Made		1

**SPECIFICATION
for Complete Bronchoscopy set with Audio, Video system Forceps**

S.No	Description	Qty
	<u>RIGID BRONCOSCOPE PEADS</u>	
1	DOESEL-HUZLY Bronchoscope, size 6, outer diameter 8.9 mm, inner diameter 7.5 mm, length 30 cm	1
2	DOESEL-HUZLY Bronchoscope, size 4.5, outer diameter 8.0 mm, inner diameter 6.6 mm, length 30 cm	1
3	DOESEL-HUZLY Bronchoscope, size 3.5, outer diameter 6.2 mm, inner diameter 5 mm, length 30 cm	1
4	Prismatic Light Deflector, autoclavable, with connection to fiber optic light cable, not to be used with	1
5	Glass Window Plug	1
6	Rubber Telescope Guide, for use with telescopes or optical forceps	1

7	FLUVOG Adaptor, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable	1
8	Adjustable magnifier, swing-away type, with ring adaption, autoclavable	1
9	Adaptor, for respirator	1
10	Instrument Guide for Suction Catheter, short, outer diameter 15 mm, length 30 cm, for use with the bronchoscope series	1
11	Injection Cannula, LUER-Lock, outer diameter 3.5 mm, length 63 mm, for use with the bronchoscope series	1
12	Telescope 0°, diameter 2.9 mm, length 36 cm, autoclavable, fiber optic light transmission incorporated, color code: green	1
13	Telescope Bridge, for fixed position between Telescopes and Bronchoscopes as well as Esophagoscopes	1
14	Optical Forceps, flat, serrated, 2 x 2 jaws, double action jaws, with spring-action handle, working length 34 cm, incl. cleaning adaptor, for use with Telescope	1
15	Optical Forceps, alligator, serrated, double action jaws, with spring-action handle, working length 34 cm, incl. cleaning adaptor, for use with Telescope	1
16	Optical Forceps, with KILLIAN bean jaws, blunt grooved, double action jaws, with spring-action handle, working length 34 cm, incl. cleaning adaptor, for use with Telescope	1
17	Optical Forceps, universal, serrated, with spring-action handle, working length 34 cm, incl. cleaning adaptor, for use with Telescope	1
18	Forceps, alligator, serrated, width of jaws 3.5 mm, double action jaws, sheath diameter 1.5 mm, working length 35 cm, with LUER-Lock irrigation connector for cleaning	1
19	Forceps, pointed, serrated, width of jaws 3.1 mm, double action jaws, sheath diameter 1.5 mm, working length 35 cm, with LUER-Lock irrigation connector for cleaning	1
20	Forceps, bean jaws, blunt grooved, width of jaws 5 mm, double action jaws, sheath diameter 1.5 mm, working length 35 cm, with LUER-Lock irrigation connector for cleaning	1

21	Forceps, universal, serrated, width of jaws 3.5 mm, double action jaws, sheath diameter 1.5 mm, working length 35 cm, with LUER-Lock irrigation connector for cleaning	1
22	Rigid Suction Tube, outer diameter 3 mm, working length 35 cm	1
23	Cotton Carrier, working length 35 cm	1
24	Sponge Holder, spring handle, working length 35 cm	1
25	Foreign Body Basket, with ring handle, working length 35 cm	1
26	Wire Tray, for the cleaning, sterilization and storage of instruments and accessories for bronchoscopy and oesophagoscopy, including silicone telescope holders and lid, external dimensions (w x d x h) : 640 x 216 x 78 mm	1
27	LED 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz	1
28	Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm	1
	<u>RIGID BRONCHOSCOPE ADULT</u>	
1	Universal Bronchoscope, size 8.5, outer diameter 11.2 mm, inner diameter 10.5 mm, length 43 cm, INCLUDING: Universal Bronchoscope Fiber Optic Light Carrier	1
2	Universal Bronchoscope, size 6.5, outer diameter 9.2 mm, inner diameter 8.5 mm, length 43 cm, INCLUDING: Universal Bronchoscope Fiber Optic Light Carrier	1
3	Glass Window Plug	1
4	Rubber Telescope Guide	1
5	FLUVOG Adaptor, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable	1
6	Injection Cannula, LUER-Lock, outer diameter 3.5 mm, length 63 mm, for use with the bronchoscope series	1
7	Instrument Guide, for suction catheter	1

8	Adjustable magnifier, swing-away type, with ring adaption, autoclavable	1
9	Adaptor, for respirator	1
10	Telescope 0°, diameter 5.5 mm, length 50 cm, autoclavable, fiber optic light transmission incorporated, color code: green	1
11	Optical Forceps, large jaws, alligator, serrated, double action jaws, working length 45 cm, with spring- action handle, incl. cleaning adaptor, for use with Telescopes	1
12	Optical Forceps, bean jaws, blunt grooved, double action jaws, with spring-action handle, working length 45 cm, incl. cleaning adaptor, for use with Telescopes	1
13	Optical Forceps, round, spoon- shaped, double action jaws, working length 45 cm, incl. cleaning adaptor, for use with Telescopes	1
14	Forceps, alligator, serrated, width of jaws 3.3 mm, double action jaws, sheath diameter 2.5 mm, working length 50 cm, with LUER-Lock irrigation connector for cleaning	1
15	Forceps, pointed, serrated, width of jaws 2.7 mm, double action jaws, sheath diameter 2.5 mm, working length 50 cm, with LUER-Lock irrigation connector for cleaning	1
16	Forceps, round, spoon-shaped, width of jaws 5.5 mm, double action jaws, sheath diameter 2.5 mm, working length 50 cm, with LUER-Lock irrigation connector for cleaning	1
17	Forceps, bean jaws, blunt grooved, width of jaws 7.5 mm, double action jaws, sheath diameter 2.5 mm, working length 50 cm, with LUER-Lock irrigation connector for cleaning	1
18	Suction Tube, diameter 4 mm, working length 50 cm	1
19	Cotton Carrier, working length 50 cm	1
20	Sponge Holder, with spring handle, working length 50 cm	1
21	Foreign Body Basket, with ring handle, working length 50 cm	1
22	Wire basket, for cleaning, sterilization and storage of endoscopes and accessories for Bronchoscopy, including silicone telescope holders and lid. External dimensions (w x d x h): 640 x 150 x 77 mm	1

23	LED 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz	1
24	Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm	1
Sr. No	<u>ORTHOPEDIC DRILL AND REAMER</u>	Qty
1	Easy handling - Titanium housing allows mechanical alkaline reprocessing	1
	Reliable - battery and control electronic are not sterilized	
	Dual trigger handpiece for forward and reverse option	
	<u>Specification:</u>	
	250W	
	WEIGHT 1250 GRAM	
	oscillating mode and tapping mode	
	Washable handpiece with all attachments	
2	LI-ION OR NIMH BATTERY	1
3	LID	1
4	Oscillating Saw	1
	>Powerful - up to 250 watt	
	>Reliable - battery and control electronic are not sterilised	
	>Easy handling - Titanium housing allows mechanical alkaline reprocessing	
	>360 DEGREE ROTATABLE SAW BLADE FOR OPTIMAL ACCESS VISIBILITY WITHIN THE OPERATING SITE	
	<u>Specification:</u>	
	Weight 1,600g	
	Maximum Power Consumption 250w	
	rpm 0-13,000 1/m	
5	LI-ION OR NIMH BATTERY	1
6	LID	1
7	DRILL ATTACHMENT LARGE JACUB CHUCK	2 qty with each drill
	GB621R WITH JACUB CHUCK 0.5-7.4 MM	
	5 NM	
	RPM 0-1000 1/min	
	Cannulation 4.0 mm	
8	GB641R K-WIRE ATTACHMENT 0.6 - 4.0MM	2 qty with each drill

		1250 RPM	
9	GB663R	DRILL BIT ATTACHMENT	2 qty with each drill
		drill attachment	
		Cannulation 4.0 mm	
		RPM 0-1000 1/min	
		Torque 5NM	
10		REUSABLE SAW BLADE CUTING LENGTH 0.5 MM/0.5MM TOTAL LENGTH 20MM/20MM	2 qty with each drill
11		REUSABLE SAW BLADE CUTING LENGTH 0.5 MM/0.7 MM TOTAL LENGTH 35MM/10MM	2 qty with each drill
12		REUSABLE SAW BLADE CUTING LENGTH 0.5 MM/0.7 MM TOTAL LENGTH 35MM/20MM	2 qty with each drill
13		REUSABLE SAW BLADE CUTING LENGTH 0.5 MM/0.9 MM TOTAL LENGTH 50MM/25MM	2 qty with each drill
		<u>SPECIALIZED CONTAINER SYSTEM WITH FIXATION BASKET 5000 TIME AUTOCLAVABLE</u>	
14		ECCOS SET DRILL	1
15		BOTTOM FOR 1/1 CONTAINER HEIGHT: 120MM	1
16		PRIMELINE PRO 1/1 LID RED	1
17		CHARGER	1
		For Li-ion and NIMH Batteries	
		<u>specifications:</u>	
		100 - 240 v	
		50/60 Hz	
		4 tunnels for charging batteries (4 batteries charge at a time)	
18		Oil Spray (For lubrication)	3 qty with each drill
19		MAINS CORD 5M LONG	1

MICROSCOPE with attachment	<ul style="list-style-type: none"> • Optical carrier in swivable and tiltable suspension • Mobile floor stand with lock in provision equipped with electronic brake system, rotatable joint arms and overhead clearance • Effortless positioning in all directions via gross focus handles for all movements for ear, nose and throat surgery with hand controls for all functions • Automatic balancing • Active vibration damping strengthened by robotic movements • Automatic drape function with a set of drapes • Motorized x & y movement with adjustable speed • Motorized fine focusing and continuously variable focusing from 200 to 600 mm via front lens, with adjustable speed • Motorized zoom 1:6 with adjustable speed • Fully integrated fiber optic light emitting diode illumination with automatic adjustment of light intensity for the selected working distance and magnification with automatic
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	<p>adaptation of luminous field, equipped with enhanced depth of field</p> <ul style="list-style-type: none"> • Tilttable binocular tube 0 to 180° with adjustment of inter pupillary distance • Wide angle oculars 10X with dioptic adjustment • One set of sterilizable caps • Dust cover • Operable on 220 V AC, 50 Hz • Integrated beam splitter • Video camera three chip full high definition (1080p) originally integrated in the optical head, integrated high definition recorder with integrated 1 TB hard disc drive and USB port for recording on external media, integrated monitor. • Stereo co-observation attachment with three axis inclination and image erection, straight binocular tube, wide angle oculars 10X with dioptic adjustment
<p>Cautery Machine</p>	<ul style="list-style-type: none"> • Microprocessor based solid state electrosurgical unit for normal and under water cutting • Should have easy electrode application system • At least 300 programs must be available in device • Separate controls for monopolar and bipolar coagulation • Should have atleast touch screen of 3 inch TFT display with 4 or more LCD Displays • RF power for monopolar cutting not below 300 watts • Monopolar coagulation 300 watts or better • At least 5 - 8 blend modes • Bipolar coagulation not below 50 watts with floating output • Spray coagulation • Bipolar cutting power 350 W or better • Earth free patient circuit • Complete with following accessories • Foot switch, reusable patient plate, monopolar handle with cord and surgical needles • (Knife, ball electrode, loop electrode and needle 12 • Non-stick bipolar forceps with cord cable (Straight & bayonet & Angled shaped allelectrosurgical unit to conform to IEC 601-1 standard • Locally trolley with imported lockable wheels • The system must have automatic self-test <p>220V 50Hz 1-Phase</p>
<p>Ultrasound Machine</p>	<p>High End Color Doppler Ultrasound:</p> <p>Fully Digital Beam Former Having 4000,000 or More Digital Processing Channels with Integrated Data Management System Having 1000 GB Hard Disk Drive for Still and Cine Clips Storage</p> <ul style="list-style-type: none"> • Modes <p>2D/M-Mode, Doppler, Pw, Hprf Doppler, Color Flow Imaging</p> <ul style="list-style-type: none"> • Tissue Harmonic Imaging

- System Capability 1.5 – 18 MHz or more
- Viewing Depth: 40cms or better.
- Frame Rate: 2000 FPS or better.
- Built-In Cine Loop: 20000 Frames or better.
- Real time freeze & image magnification ability better than 4x Pre & Post Processing
- Sweep Speed: Slow, Medium, Fast
- 12” or better Touch Command screen with gesture Control & angle adjustable for easy Operation of the System.

Doppler Mode Specifications:

- System Must be Trolley Mounted
- On Line 5-Ports or more for Trans-thoracic Probes
Doppler Beam Steering and Bi-Directional Stereo Audio
- Color Doppler
- PW Doppler Must Be Continuously Steerable In Color Blood Flow Imaging Mode in Real Time
- Colorized Spectrum Display
- Tissue Harmonic Imaging with Three or more Frequencies
- Built in battery for backup of at least 60 mins or more
- 2D Image with Color Flow
- Power Doppler
- DICOM
- Auto Image Optimization/Quick Scan for Single Button Optimization of All Scanning Parameters Including STC Overall Gain and Doppler Spectrum.
- Compound Scanning Using Frequency as Well as Spatial Compounding.
- Trapezoid Imaging for Linear Probes
- Live strain rate Elastography with quantification for body organs specially breast to visualize lesions

Measurement Package:

- To provide comprehensive software package for measurement of distance circumference, area, time, depth etc.
- System Must have 3D software for the acquisition of 3D Images.
- Automatic measurement for intima-media thickness
- Automatic measurement for pediatric hip for neonates
- Automatic calculation of Bladder Volume
- Comprehensive software package for Needle Visualization

System Complete with Following Facilities and Accessories:

- 21-Inches or better Color Monitor

Standard Probes:

- 1.5 – 5.0 MHz or More Multi-Frequency Convex Probe
- 3.0 – 13 MHz or More Multi-Frequency Linear Probe
- 3.0 – 12 MHz or More Multi-Frequency TVS Probe

STD Recording Devices:

- Built-In / Separate Compatible Imported Online Ups (Minimum Backup Time >

	<p>10Minutes)</p> <ul style="list-style-type: none"> • B/W Thermal Printer (Model/Make must be mentioned)
<p>OT Table</p>	<p>It shall be battery powered and electric /electro-hydraulic operating table.</p> <p>It shall have safe working load of at least 445 kg or more guaranteeing highest safety and stability.</p> <p>It shall be with modular design tabletop. And the back plate should be able to split to 2 pcs, in between should be about to add the extension plate to extend the length of OT table;</p> <p>To have a better C arm performance, the head plate and leg plate of the table should be able to exchange the position;</p> <p>The table base with stainless steel cover should be less than 140mm for C arm free movement.</p> <p>The table base should be flat design, and the column should use bellow-free design to make the clean of table easier;</p> <p>It shall be with One-button Connection Design make it easy just one click to change table components module.</p> <p>it should be water-proof and anti-static material and can be washed by water directly; each joint should be sealed by ultrasonic not glue and sewing.</p> <p>The thick of the mattress should be more than 75mm.</p> <p>It shall have the electric-hydraulic movements including tabletop up and down, back plate up and down, turn left and right, trendelenburg and reverse trendelenburg, lock and unlock.</p> <p>It should have bi-directional electric longitudinal shift function not less than 350mm for free access to C-arm.</p> <p>It shall be more than 3 ways to control the table, including corded and Bluetooth wireless hand control , backup column control Panel and optional manual override system.</p> <p>The remote hand control be with more than 3.5'color LCD that will show the information on the display, such as tilt or slope degree, battery, brake, normal/reverse patient orientation, etc..</p> <p>The remote hand control shall be with the backlight for operating in a dark environment</p> <p>The remote hand control shall support automatic reset to zero/leveling position by pressing one button. It also shall be with Flex, reflex position short cut keys.</p> <p>It shall be with 4 double-swivel castors that enables the user move the table 360° freely.</p> <p>Electric brake by hand/column control provides higher stability.</p> <p>It shall have a battery inside the table, which can work 50-80 operations for two weeks</p> <p>Manual Override System allows table articulation movements and release the brake in the event of primary control or power/battery malfunction, through an independent hydraulic circuit . All the hydraulic movement (table height adjustment, Trendelenburg and reverse</p>

	<p>Trendelenburg, left and right tilt, sliding function, etc) can be achieved by the foot pedal and function selection knob, even electro isolated.</p> <p>Technical Specification</p> <p>The highest adjustable 600-1050mm</p> <p>Longitudinal shift ≥ 350 mm</p> <p>Turn left $\geq 25^\circ$</p> <p>Turn right $\geq 25^\circ$</p> <p>Trendelenburg positio $\geq 36^\circ$</p> <p>Reverse Trendelenburg position $\geq 36^\circ$</p> <p>Back plate up position $\geq 80^\circ$</p> <p>Back plate down position $\geq 40^\circ$</p> <p>Flex position $\geq 220^\circ$</p> <p>Re-flex position $\geq 110^\circ$</p> <p>“0”position by one electric button</p> <p>Leg plate with gas spring assisted up $\geq 20^\circ$</p> <p>Leg plate with gas spring assisted down $\geq 90^\circ$</p> <p>Head plate up $\geq 45^\circ$</p> <p>Head plate down $\geq 90^\circ$</p> <p>Accessories</p> <p>Arm board - 1 pair</p> <p>Anaesthesia screen I shaped with clamp-1 no</p> <p>Body strap – 1 no.</p> <p>Body Support - 1 pair</p> <p>leg support – 1 pair</p> <p>Complete Gynae accessory:</p> <p>Waterproof rating with test certificate IPX5</p>
<p>Adjustable Lights</p>	<p>1. DESCRIPTION OF FUNCTION</p> <p>LED Surgical lights illuminate the surgical site for optimal visualization of small, low-contrast objects at varying depths in incisions and body cavities.</p> <p>2. GENERAL REQUIREMENTS</p> <p>a) The light shall adopt latest LED technology to create a homogeneous light patch without emitting any inf rad rays.</p> <p>b) Light intensity shall be adjustable at least between 5%-100% and at least 10 different levels.</p> <p>c) Control panel should be equipped in the lighthead as standard configuration with Ambient mode through separate control key</p> <p>d) The maximum movement angle of the spring arm shall be at least up 45° and down 45°.</p> <p>e) The thickness of the light head shall be no more than 50mm.</p>

	<p>f) Each LED shall be replaceable individually with the new one to save cost in case of failure, instead of replacing the module with several LEDs.</p> <p>3. TECHNICAL REQUIREMENTS</p> <p>Central luminance (lx) $\geq 130,000$ lx</p> <p>Light Field Diameter (D10)(mm) ≥ 22cm</p> <p>Color Temperature (K) 4,350K</p> <p>Color Rendering Index Ra ≥ 96</p> <p>Color Rendering Index R9 ≥ 96</p> <p>Depth of Illumination(L1+L2) (mm) $\geq 1,200$mm</p> <p>Dimming Range: 5~100%</p> <p>Ambient(Endoscopy) Illumination 6,500lx</p> <p>Radiant energy(average) ≤ 3.6mW/(m²*lx)</p> <p>Number of LED Bulbs on the Light Head: 18</p> <p>LED Service Life: $\geq 60,000$hrs</p> <p>Light Head Dimension: 520mm</p> <p>Light Head Weight:≤ 5.6 kg</p> <p>Max. power consumption of all light sources ≤ 65W</p> <p>Power Supply: 100~240VAC, 50~60Hz</p>
Defibrillator	<p>Applicable people Adult, pediatric, neonate</p> <p>Biphasic truncated exponential (BTE) waveform, auto-compensation according to patient impedance</p> <p>Max energy output 360J</p> <p>Defibrillation mode under manual mode Synchronization and Non-Synchronization not less than 23 levels for energy selection</p> <p>Charging time With battery: less than 3 seconds to 200J</p> <p>Screen 8 inch LCD or better color capacitive touch display, protected by tempered glass 1024X768 pixels</p> <p>Not less than 5 waveforms, Trace freeze function, Screenshot function, Auto-brightness</p> <p>Support gesture control</p> <p>Sweep speed 6.25, 12.5, 25, 50mm/s</p> <p>Boot time No more than 2 seconds</p> <p>There should be indicators both on screen and external paddle showing the contact impedance status between the patient and paddle/pads. The impedance value on display is configurable.</p> <p>Energy selection can be done through both the device panel and external paddles</p> <p>Patient impedance range 25 to 300Ω for external defibrillation</p> <p>ECG recovery time after defibrillation No more than 2.5 seconds</p> <p>Automatic rhythm analysis in manual</p> <p>Operation guide in manual defib mode</p>

	<p>AED Voice guide, Voice recording</p> <p>Shock able rhythm VF, VT (HR>150bpm and QRS width>120ms)</p> <p>Shock series Shocks: 1, 2, 3, configurable. Default escalating energy sequence meeting AHA 2020 guideline</p> <p>CPR feedback</p> <p>Parameters monitored Standard: rate, interruption time</p> <p>Pacing Modes Fixed mode and demand mode</p> <p>Waveform Mono-phasic square wave pulse</p> <p>Pulse width 20ms, 40ms, ±5%</p> <p>Pacing rate 30ppm to 210ppm</p> <p>ECG 15 to 300bpm for adult;15 to 350bpm for pediatric and neonate. HR accuracy: ±1% or ±1bpm, whichever is greater. ECG size: 0.25, 0.5, 1, 2, 4cm/mV, Auto. ECG cascade</p> <p>ST/QT monitoring</p> <p>Graphical visual alarm guide</p> <p>AC input 100V-240V</p> <p>Battery Lithium-ion battery, support not less than 300 shocks @ 200J, or 6.5 hours monitoring, or 4.5 hours pacing at one charge with a new battery.</p> <p>Auto record Charge events, shock events, marked events, auto test report, parameter alarms, ARR alarms, if configured on</p> <p>Recording speed 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s</p> <p>Record waveform length 8s, 16s, 32s, STAT</p> <p>Printing waveforms Max. 3</p> <p>Event recording Up to 1000 events for each patient.</p> <p>Waveform storage Up to 120 hours of consecutive ECG waveforms</p> <p>Voice recording At least 8 hours for each patient</p> <p>Tabular Trends At least 200 hours of all measured parameters; resolution:1 min</p> <p>Data can be export to a PC through a USB flash memory</p> <p>Auto test while power off Standard, including max. energy discharge</p> <p>Graphic visual troubleshooting guide</p> <p>Environmental and physical requirements</p> <p>Water/solids resistance ≥IP55</p> <p>Data transfer (optional) Send real-time data to CMS or HL7 service via Wifi or wired network</p>
<p>Delivery Beds</p>	<ul style="list-style-type: none"> • 3 Motors or better • Electronic adjustments of backrest and height • Trendelenburg and Reverse Trendelenburg must be present

- Anesthesia machine should be Modular design and Modules can be swapped in both Anesthesia and Monitor.
- Anesthesia Machine should have separate module for NMT and BIS to display measurement on ventilator screen. (optional price must be quoted for BIS and NMT)
- Heated Breathing System
- Auto-seal O2 sensor design, which means circuit could automatically sealed when changing O2 sensor.
- Slectatec back bar with interlocking function for minimum two vaporizers or more
- O2 Vaporizer: Isoflurane & Sevoflurane (Manufactured by same Manufacturer)
- Four Electrical outlet sockets or more
- The unit should include Active / Passive anesthesia Gas Scavenging system
- Independent ACGO Function
- Emergency Oxygen cylinder for backup on machine

Built-in Anesthesia Ventilator:

- Advanced Anesthesia Ventilator with Adult, Child and Infant capability
- Electronic / Microprocessor Controlled and Pneumatically driven
- Display: Large 15" or better full color TFT/LCD Display, Touch –Screen display parameters, all settings and Alarm Parameters with Back-up touch pad.

Ventilation Modes:

- Manual/ Spontaneous Ventilation
- Volume Control VCV (IPPV/mode)
- Pressure Control PCV with volume guarantee
- SIMV Volume Control + SIMV Pressure Control
- Pressure Support with Apnea
- Cardiac Bypass Mode

Ventilation Monitoring:

- Fio2
- Inspired and Expired Volume
- Spirometer Loops
- PAW, Pressure Waveform, Flow Waveform
- **Inverse I:E** 4:1 - 1:10 or better
- **Tidal Volume:** 10 to 1500ml or better
- **BPM Rate:** 2 to 100 bpm or better
- **PEEP:** off, 2 to 50mH2O or better
- **Pressure Inspired:** 03 to 80cmH2O or better
- Pressure Limit: 10 to 100cmH2O or better
- Pressure Support Range: 03 to 60cmH2O or better

Power Supply: 220V/50HZ AC

Battery Backup: Minimum 1.5 Hours or better

User Set Alarm:

- Air Pressure High
- Air Pressure Low
- MV High
- MV Low

- High Oxygen
- Low Oxygen

Static Alarms

- Apnea
- Power Fail
- Battery Low

Multi Gas Monitoring Module for Anesthesia Workstation

- Side-stream measurements with accessories such as sampling line and water trap.
- Method: Infrared / Absorption Gases: Agent Halothane, Isoflurane, Enflurane, Sevoflurane and Desflurane CO₂, N₂O and O₂
- Automatic Anesthesia Agent Identification display
- User selectable Alarm limits

Modular Vital Sign Monitor Attached with Anesthesia Machine

- Monitor should be Modular support with ETCO₂, IBP and Basic function support ECG, NIBP, TEMP, RESP, HR, SPO₂, ST Analysis built in.
- At least 7 parameter Anesthesia Patient monitor
- It should have 15" or more TFT LCD touch display with 12 waveforms or better.
- It should have following as standard configuration: ECG, HR, RESP, NIBP, SPO₂ and TEMP, ST analysis, ETCO₂, 2xIBP Diathermy/electro surgical protection.
- Should have alarms for warnings
- Trend: Store and review 48 hours or more

Standard Accessories Adult & Paeds:

- 5 Lead patient cable ECG, Software for both 3 & 5 lead monitoring
- SPO₂ connecting cable
- SPO₂ Reusable finger sensor for adult, pediatric and neonate each
- NIBP connecting Hose with cuff for adult, pediatric and neonate each
- Temperature probe peripheral
- Main cable
- ETCO₂ Accessory
- Instruction manual
- 2 IBP cable for IBP monitoring with 5 disposable domes

Battery:

- Operating time under the normal use and full charge: 04 hrs or more

Power supply:

- Power Voltage: 220V-240V 50/60 Hz
- Battery backup 02 hour or more
- Monitor, Vaporizer must be from same manufacture as of Anesthesia Main Unit

The Quoted equipment must have two certifications (CE / FDA / MHLW)

S No.	Description
	HEAD LIGHT
1	LED Headlight white light, lightweight model, control unit and rechargeable battery box on headband, charging unit, illumination area adjustable from 30 – 150 mm in diameter with 40 cm working distance, INCLUDING: LED Headlight Control Unit Battery Box Battery Pack USB Charger Headband Neoprene Cushion for Headband

Technical Specifications of Medical Items For Bolton Block

Item Name	Item Specifications
Patients Beds (Electrical)	<p style="text-align: center;">General description & Specifications</p> <ul style="list-style-type: none"> • 4 motors • Electronic adjustments of backrest, footrest, height • Trendelenburg and Reverse Trendelenburg functions • Fowler, Vascular and Cardiac positions • Auto-contour • Function-Lock System to prevent unauthorized use • Angle indicator for backrest adjustment and • Auto-regression system • Electronic CPR • Auto-CPR button • Electronic Scale System • Lockable and fold-away PP side rails • Lockable and detachable Polypropylene head and foot boards • 4 section, detachable mattress platform • Electrostatic powder coated metal frame • Gradually adjustable footrest • Drainage bag hooks at both sides • IV pole sockets located at four corners • Protective plastic corner bumpers • Central lockable castors • Height adjustable stainless steel IV pole <p style="text-align: center;">Electrical and Technical Data</p> <ul style="list-style-type: none"> • Power 200-240VAC

	<ul style="list-style-type: none"> • Electrical shock protection, Class 1, Type B • Liquid ingress protection, IPX4-IP66 • Battery backup • Overall length 210cm or better • Overall width 99 cm or better • Height Range 35-75cm or better • Trendelenburg 0-15⁰ or better • Reverse Trendelenburg 0-15⁰ or better • Back rest angle maximum 70⁰ or better • Leg rest angle maximum 35⁰ or better • Caster diameter 15cm or better • Safe working load 250 Kg or more • Oxygen bottle holder <p>Bedside Cabinet, ABS</p> <ul style="list-style-type: none"> • Wooden construction • PVC covered borders • ABS platform, drawer and cabinet door • Functional drawer • Cupboard with shelf • Lockable castors <p>Overbed Table, Gas Spring</p> <ul style="list-style-type: none"> • Epoxy powder coated metal frame • Height adjustment by gas spring • ABS platform • Lockable castors
<p>Monitors with Central Display on Counter</p>	<p>Patient Monitor 5 parameter (5ch ECG, SpO2, NIBP, TEMP, Resp) for Adult, Pediatric and Neonate patients</p> <p>Display for easy Viewing 15” or better color TFT/LCD/ LED for easy set-up User selective 10 or better traces/ waveform display.</p> <p>Display screen support Up to 10 waveform channels</p> <p>ECG, SpO2, NIBP, 2-TEMP, and Respiration</p> <p>23 or more Arrhythmias analysis should be detected and alarmed</p> <p>Multi-lead ECG algorithm</p> <p>Multi-lead ECG algorithm is implemented to analyze the ECG signals from multiple leads to ensure the measurement accuracy when one lead is interfered</p> <p>Smart Lead-off detection enables the continues monitoring if the electrode is disconnected</p> <p>S-T and QT Analysis</p> <p>Pacemaker detection.</p> <p>Support heart rate analysis and dynamic NIBP analysis</p> <p>Support Drug, Hemodynamic, Oxygenation, Ventilation, Renal calculations and Titration table</p> <p>.</p> <p>Support 24 hour ECG summary analysis</p> <p>Can Support Clinical Assistive Applications for decision making : EWS score, GCS scoring , ST graphic , or more</p> <p>Save up to 500 or more Event management and 48 hours or more waveforms</p> <p>Up to 72 hours of graphic and tabular trend of all parameters,</p> <p>View other bed function enables user to check data of any patient in the same network without</p>

the requirement of central station

Support OxyCRG screen suitable for neonates :Up to 24 hours of OxyCRG events

PERFORMANCE:

Heart rate: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-350bpm or better

Respiration

Respiration rate: 2~150bpm or better on either side.

SPO2:

Range: 0 ~ 100% or better on either side

Temperature:

Range; 0 -50C° (32 - 122F°)

NIBP:

Range: Adult: SYS 25-290mmHg DIA 10-250mmHg Average: 15- 260mmHg

Pediatric: SYS:25-240mmHg DIA:10-200mmHg Average:15- 215mmHg

Neonatal: SYS:25-140mmHg DIA:10-115mmHg Average :15- 125mmHg

Alarm

Alarm: All parameters on/off selective independently

Power input 220Vac,50Hz

With Battery Backup time: Minimum 05 hours or better

ACCESSORIES:

- ECG 5 Lead cable. 1
- Disposable Electrodes Adult, Neonate & Paeds. 20 each
- SPO2 Finger probe with fixed wire (each for adult, Paeds and neonate) 2
- NIBP Reusable Neonate, Paeds & Adult Cuff 2
- NIBP Hose 1
- Temperature sensor & cable 1

Central Station along with Patient Monitor (Optional)

- Unit shall be capable of monitoring a minimum of 8 beds and a maximum of 32 beds.
- Shall provide Most recent 240 hours of tabular trends and graphic trends for all parameters
- Shall allow instant alarm bed viewing
- Each bed monitor window shall always be displayed
- The user shall be able to easily configure the display
- Shall be capable of producing a shift report including graphic trends report, tabular trends
- Report, full disclosure overview report, full disclosure detail report, waveform segment report, event report, 12-lead interpretation report, multi-lead ECG report, ST report, ECG summary report, Arrhythmia statistics report etc
- Provide graphical analytic tool for myocardial ischemia which can help to quickly view the ST value changes

Shall be supplied with the following:-

- Installation Kit including Hub Controller, cabling (according to the need of institution)

	<ul style="list-style-type: none"> • Laser Printer Interface, Laser Printer (Model and Make must be mentioned) • Central Monitor Size (Model and Make must be mentioned): 42” or better • Software from same manufacturer with all certificates <p>Branded CPU (Model and Make must be mentioned):</p> <ul style="list-style-type: none"> • Intel Core i5 or better • Processor 2.40GHz or better • 4GB RAM or better • 1TB internal Hard Disk or better • DVD R/W • With Keyboard and Mouse • UPS with 20mints backup <p>The parameters displayed on the monitors should also be displayed on the central station monitor and should be compatible with each other.</p>
<p>ECG Machine 03 Channel</p>	<p>03 channels ECG Machine Should be portable and lightweight ADC:24bits, resolution:1uV/LSB or better Voltage 220 volts, 50Hz Display 5” or more Simultaneous 12 leads acquisition Must have continuous display of patient heart and rate Must have integrated pediatric analysis Support the 12-lead ECG analysis program for complete ECG Analysis reports with measurement data table should be provided. Must be able to indicate at least four critical values that require immediate clinical attention Automatically extend a rhythm record once Critical values are detected. The critical values include: Acute ATEMI, Extreme Tachycardia/Bradycardia, Significant Arr and prolonged QTc interval Special pediatric ECG analysis based on V4R. Auto pace maker detection <u>Printer:</u> High Resolution and in built thermal array printer. Battery Capacity: Must be 5 hours without printing or 500 ECGs or better Can save up to 700 ECGs in internal memory or more Complete with Patient Cable 2. Reusable Electrodes Set. ECG Rolls 20 Nos. Gel 5 liters and Standard Accessories with each unit</p>

**Portable X
Ray
Machine
(Digital)**

DIGITAL RADIOGRAPHY MOBILE X-RAY MACHINE 500 mA

SPECIFICATIONS:

The Digital Mobile X-ray Machine must be Picture Archiving Communication System- (PACS) ready and able to retrieve and send imaging studies to the SPMC PACS through wireless and wired LAN.

The machine can temporarily store images in Dicom format (the supplier must provide the maximum number of images that can be stored)

The machine should have a column that supports the tube arm.

The tube arm can reach up to 2300mm or better from floor to accommodate larger beds and crowded rooms.

The machine should be motor driven operation. The system should have bins for the detectors.

An integrated system and screen that automatically logs the operator into the software and displays the patient work list.

The machine shall be provided with technique selector and digital display for KV, mA and or mAs, exposure time and microprocessor controlled anatomical programming function keys

The machine have integrated 15 inch or higher touch panel color LCD monitor for image display

The system must be capable of integrating with the existing PACS/MIS at no extra cost.

The machine must have integrated or provided with ID barcode reader

The supplier must provide integrated battery charger/s for detector batteries

The X-Ray Generator of the machine shall have the following capability:

- High frequency inverter type generator 30KW or more

- Maximum KV setting up to 145kVp or higher
- Maximum tube current not less than 500 mA
- mAs setting up to 320 mAs or higher
- Power supply: Single phase at 100 – 240 Volts
- inverting frequency: $\geq 460\text{kHz}$

The X-ray Tube and collimator must be of the following specification

- Should be rotating anode, dual focus
- Focal Spot Size: small focus range within 0.3-0.7mm / large focus range within 1.0-1.3 mm
- Anode Heat Capacity: 100 kHU or higher
- Collimator adjusting knobs must available on both front and back sides
- Collimator, high voltage generator and FPD (Flat panel detector) manufactured by the same brand of x-ray system itself. From other brands or OEM solutions are not acceptable in order to make sure good compatibility and stability

The x-ray mechanical movement and battery must be of the following specification

- System moving mode: electric & manual, and moving can be controlled by a remoter
- The system battery is lithium, Pb-acid not acceptable which is old technology and pollution to environment.
- X-ray system must be equipped with at least 3 independent batteries to reduce system failure risk, and supports the function of instant exposure plugged in when the battery runs out.
- Rotation angle of X-ray tube assembly around vertical axis (RVA): $\geq - 340^\circ \sim +340^\circ$
- Rotation angle of X-ray tube assembly around horizontal axis (RHA): $\geq - 180^\circ \sim +180^\circ$
- The tube arm can reach up to 2300mm from floor
- X-ray tube supporting arm stretching range: $\geq 600\text{mm}$
- 360° inductive handle on the x-ray tube head to unlock the movement of bionic arm, button or handle switch is not acceptable.
- inductive handle on the bionic arm to unlock it's movement

Flat panel detector

- FPD lock function integrated in the FPD slot: equipped
- Battery capability, full charged can take ≥ 850 exposures
- FPD battery charging integrated in the FPD slot, once the FPD put in the right position, it will be automatically charged and cut off when fully charged, manual cable connection and external charging is not acceptable.

	<ul style="list-style-type: none"> • Image transmission mode: wireless • FPD pixel size: $\leq 140\mu\text{m}$ or better • Matrix: $\geq 2500 \times 3000$ or better • Spatial resolution of 3.5 line pairs/mm or more <p><u>Image processing workstation system</u></p> <ul style="list-style-type: none"> • RAM: $\geq 4\text{GB}$ or better • Type of hard disk: solid state hard disk • Wireless and wired dual mode data transmission • Size of touch screen: ≥ 19 inches or better mandatory • Display resolution: $\geq 1280 \times 1024$ or better • compatible with existing RIS and HIS systems • Support user-defined patient list display • Basic post-processing functions of image, such as image preview, zoom, window width/level adjustment, annotation, reverse color, flip, rotation, length measurement and correction, cropping function, region of interest and angle measurement • Support DICOM3.0, including DICOM SEND, DICOM PRINT, DICOM STORAGE COMMITMENT, DICOM WORKLIST
<p>Portable Ultrasound Machine</p>	<ul style="list-style-type: none"> • A dedicated POC (Point of care) Ultrasound for Anesthesia, Emergency, Critical care & ICU having 21" or better fully touch screen <ul style="list-style-type: none"> • 21" or better Large image and high definition (1080*1920) fully touch display • Intuitive touch control even with gloves on • Transducer cable management for avoiding wheel rolling compaction • Retractable power cable for easy movement of machine • Built-in battery for upto 60 Mins or more • 10s screen locking feature for disinfection • High quality materials selection with high chemical resistance and durability • Supporting wide range of disinfectants • Imported trolley • Automatically gain full screen view from distance <p>Standard Transducers</p> <ul style="list-style-type: none"> • 2-5 MHz multiple frequency convex probe for FAST Exams • 4-11 MHz multiple frequency linear button probe for Anesthesia, ICU and critical care exams • 2-5 MHz sector probe for cardiac exams in Traum <p>System must have following dedicated softwares:</p> <p>Needle navigator: Real-time needle navigation technology based on 3D magnetic field</p> <p>Needle enhancement software: Easy needle approach to target and enhanced accuracy</p>

	<p>for guided procedures</p> <p>Smart FHR OB1</p> <p>Fetal Heart Rate measure and monitoring for first trimester (10-14 weeks)</p> <ul style="list-style-type: none"> • Auto measure fetal heart rate in B-mode • Real-time monitor and display the result <p>Automatically detect three diameters of bladder, and calculate the bladder volume</p> <p>Dedicated inbuilt educational tool</p> <ul style="list-style-type: none"> • Include FAST, Focused Echo, Nerve, Abdomen, Thyroid, Breast, Testicle and OB/GYN applications • Complete protocols for EM, CAR, MSK, ABD, OBG, VAS and SMP <p>Vascular, Small Parts, Orthopedics.</p> <ul style="list-style-type: none"> • Power Supply: 220 VAC, 50Hz • Standard Configurations: <p>Main Unit</p> <ul style="list-style-type: none"> • 3 active Probe Connector. • Tissue Harmonic Imaging. • B, B/B,M& B/M Mood • USB Ports minimum 2 • Measurement and Calculation Software Packages • Thermal Printer (Branded, model and make must be mentioned) • 50 Roles Thermal Paper. • With built in/external UPS system for minimum 1 hour backup. • Ultrasound Gel 20Ltr • With built in mounted trolley.
<p>Suction Machine:</p>	<p>Technical Specification</p> <p>Housing: Plastic moulded cabinet</p> <p>Capacity: -700 mm Hg ± 10 mm regulable, flutter free vacuum control knob, 100 ltrs/ min</p> <p>Pump Type: Double piston pump</p> <p>Jars: 2 x 2.5 ltr. wide mouthed (Polycarbonate) with changeover lever. Provided with handle for hygiene while emptying/cleaning. Safety jar with mechanical / electronic overflow motor shut off system and bacterial filter.</p> <p>Tubing: 10 mm ID x 2 mtr. (PVC)</p> <p>Vacuum Gauge: Bourden type 6.25 cm dia 0-760 mm Hg calibration.</p> <p>Power: 220 V, 50 Hz,</p> <p>Single Phase Noise Level: 60 dB</p>
<p>Ceiling OT Light</p>	<ul style="list-style-type: none"> • The light system shall have double domes, one major and the other satellite. • Light intensity shall be adjustable at least between 8%-100% and at least 10 different levels or better • Stopless rotation: all lighthouse joints support stopless rotation • The lighthouse shall be shape to avoid laminar flow influence by turbulence, with verified certificate Din-1946 Part 4

- Protection against harmful ingress of water or particulate matter: \geq IP54
- The maximum movement angle of the spring arm for display shall be at least up to 45° and down to 70° or better
- Various color temperature adjustment, from 3,500-5,100K or better

TECHNICAL SPECIFICATIONS

- Central Illuminance (lx) \geq 160,000 lx or better
- Light Field Diameter adjustable from 140~300mm or better
- Color Temperature adjustable from 3,500-5,100K in 5 ranks as an option or better
- Color Rendering Index Ra \geq 99 or better
- Color Rendering Index R9 \geq 97 or better
- Dimming Range: 20~100% or better
- Ambient(Endoscopy) Illumination: D50/D10: 60% or better
- Radiant energy(average) \leq 3.5mW/(m²*lx) or better
- Shadow dilution with one lateral mask: 76% or better
- LED Service Life: \geq 60,000hrs or better
- Power Supply: 100~240VAC
- Protection against harmful ingress of water or particulate matter \geq IP54
- Quick lock system: easy transfer the camera among different operating rooms with no special tools needed

Integrated digital camera system in one dome

- Two Mega Pixels HD (1920 × 1080 pixels) Camera
- Light Camera to be Fixed in one Dome of Light
- Medical grade LCD 27" or better on third arm
- Supporting HDMI/YPbPr/HD-SDI/DVI-D/VGA input signal and Video output

Digital video recorder

- Supporting external USB storage device
- Default with camera control function
- Supporting video recording from other medical devices source

<p>Spica Table</p>	<p>A spica table is a device used by orthopedic surgeons to apply casts to a patient's hips or femurs. It helps keep the hip in the correct position while the cast dries.</p> <p>The extreme load capacity of up to 450 kg.</p> <p>All positions should permitted up to overall load of 250 kg.</p> <p>The longitudinal shift up to 350mm for free to access to C-arm. 595 mm lowest table position for neurosurgery, while 1,095 mm highest table position for orthopedics.</p> <p>Intelligent Collision Protection System to stop the table movement before collision occurs.</p> <p>Bluetooth hand control for unobstructed control in operating rooms.</p> <p>Triple-layer decompression pad to redistribute the patient's weight.</p> <p>Modular Design</p> <p>The modular design of the tabletop is tailored for various surgical discipline needs, which can also lower the cost for hospitals as they only need to buy the specific module, instead of a new table, for an additional surgical type.</p> <p>Huge Imaging Access</p> <p>1700 mm Head-end imaging area</p> <p>1500 mm Foot-end imaging area</p> <p>Bidirectional longitudinal shift</p> <p>Head-end shift:190 mm</p> <p>Foot-end shift:160 mm</p> <p>Carbon fiber tabletop</p> <p>Radiolucent carbon fiber tabletop provides better imaging</p> <p>Intelligent Collision Protection System</p> <p>Based on the Module Recognition System collision protection algorithm monitors the movement and avoid crash to the floor or table itself.</p> <p>Multi-layer Decompression Pad</p> <p>Flame resistant and fireproof</p> <p>Ultra-sonically welded seams and waterproof</p> <p>Superior internal air circulation design</p>
	<p>Patient /Cardiac Monitors</p>
	<p>Bipolar Leads</p>
	<p>Mastoid Bars size 3,4,5 and 6</p>
	<p>Mastoid Drill hand piece</p>

9. EVALUATION CRITERIA

The bids / proposals will be evaluated on the basis of advertisement, bid solicitation documents and the point system as specified below.

A proposal shall be rejected during the technical evaluation if the bid does not fulfill the minimum specified requirements OR if it fails to achieve the minimum score as indicated in the below mentioned table. Relevant certificates / documents must be attached.

Evaluation Criteria for Procurement of Equipment:

Total Marks (Technical Criteria + Financial Criteria): TM: 70 + 30 =100 Marks No chance will be provided for re-submission of secondary documentation. The bidders must carefully read the instructions; Non-compliance to the stated instruction may lead to their technical disqualification.

(Technical Evaluation Marks: 70)

TECHNICAL EVALUATION CRITERIA

S#	Description of Variables	Allocated Marks /Mandatory
1.	<p>Letter of Authorization</p> <p>The Authorized agent (importer) shall have to produce Exclusive letter of embassy attested authorization / Sole Agency Certificate from Manufacturer and in case of Manufacturer, documentary proof to the effect that they are the original Manufacturer of the required goods shall be provided or joint venture/ consortium/ alliance of the local Sole agents/manufacturers. In case of imported products, the authorization shall be attested from the embassy of Pakistan in the country of manufacturing or embassy of the manufacturing country in Pakistan or having the apostle certificate from the country of origin.</p>	Mandatory
	Warranty Period of five years both for spare parts and services from the date of Installation / Commissioning	
	Availability of workshop in Peshawar to be verified from Ownership / Rent Agreement.	
	Firm / bidder registration at relevant forum (SECP/ or Registrar of Firm / bidder/ FBR).	
	Firm / bidder registered with DRAP (Drug Regularity Authority of Pakistan) or PEC (Pakistan Engineering Council) in code ME06.	
	Annual Sales tax returns for last Three years	
	Annual Income tax returns for last three years	
	<p>Product International Certification</p> <p>Among the three certification mention below as 3, 4, and 5, a couple are required and neglecting to present them will lead to disqualification. Third certificate be presented for the subject in question, an additional 2 points will be awarded</p>	

Conformance to required Specification		
2.	Fully compliance with the required specifications as per Statement of Requirement. Minor deviations may be accommodated up to 4, subject to the condition that main function and performance in any aspect would not be affected. More than 4 minor deviations will be considered as major deviation and the bidder will be considered as non-responsive for the quoted item. (2 points for each deviation will be deducted).	25
3	Additional Features of the quoted equipment (02) marks will be given against each feature (max 04 marks)	4
4.	Certificate of US Food and Drug Administration (USFDA) for the quoted model. <ol style="list-style-type: none"> 1. Registration if the quoted product belongs to class I. 2. USFDA 510K if the quoted product belongs to class II. 3. Pre-Market approval (PMA) if the quoted product belongs to class III. 	2
5.	Certificate of European community (93/42/EEC Medical devices, 98/79/EC In vitro diagnostic medical devices (Full Quality Assurance or Product Quality Assurance) or Regulation (EU) 2017/745 on medical devices, Regulation (EU) 2017/746 on in vitro diagnostic medical devices for the quoted product / manufacturer. The certificate must be issued from the European Commission notify bodies. Or European Union Medical Device Regulation (EU MDR) for the quoted product	
6.	Certificate of Ministry of health labor and welfare Japan (MHLW) for the quoted model/Product/Manufacturer. (Translated English Version)	
6.	Valid ISO 13485 Medical Devices Quality Management Systems certificate of manufacturing plant from International Accreditation Forum (IAF) Accredited	2
7.	Valid ISO 45001 Occupational Health & Safety Certificate of manufacturing plant from International Accreditation Forum (IAF) Accredited Bodies.	2
8.	Valid ISO 9001 Quality management systems certificate of the manufacturer issued by authorized body duly accredited with International Accreditation Forum (IAF), (duly attested by senior executive of the firm).	2
9.	One mark for each after sale satisfactory performance certificate (verifiable) of the firm / bidder in last 10 years on letter head signed and stamped letter by the end-user for the quoted model or previous provided model of equipment from the public/private sector medical institution of Pakistan. Performance certificate shall be coupled with supply order / purchase order from public sector medical institution.	10
11.	Graduate Engineer with PEC Registration in electrical / electronics, biomedical / mechatronics / mechanical / industrial. PEC registration card of the engineer must be submitted. (2 marks for each Engineer), last three months' salary must be attached for proof.	4

12.	Professional Engineer with PEC in electrical / electronics, biomedical / mechatronics / mechanical / industrial. (2 marks for each professional engineer maximum 4 marks) PEC card must be submitted.	4
13.	List of related tools available at workshop. Details shall be submitted with technical bid.	1
14.	List of Testing and Calibration tools for the quoted items available at workshop. Details shall be submitted with technical bid. These marks shall be subject to inspection of the premises by the procurement entity	1
15.	Detail of Spare parts availability at workshop for the quoted items. Details shall be submitted with technical bid.	1
16.	<p style="text-align: center;">Financial Position of the company/firm:</p> <ul style="list-style-type: none"> • 06 Marks will be given to the firm having Capital Resource of Rs. 500 Million or above as at June 30th, 2024. • 03 marks will be given to the firm having Capital Resource of Rs. 50 Million or above upto 99.99 million as at June 30th, 2024. • 01 marks will be given to the firm having Capital Resource of Rs. 30 Million or above upto 49.99 million as at June 30th, 2024. 	6
17.	Valid ISO 9001 Quality Management Certificate of the firm / bidder from PNAC accredited bodies.	2
18.	Valid ISO 45001 Occupational health and safety management systems certificate of the firm / bidder from PNAC accredited bodies (Attested by senior executive of	2
19.	Valid ISO 13485 Quality Management Certificate of the firm / bidder from PNAC accredited bodies.	2
	Total Marks	70

Financial Evaluation and Scoring System for Bids

(Maximum Allocable Marks Score = 30 marks)

- The financial bids of technically qualified bidders will be opened publicly at the time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned unopened to the respective Bidders.
- Total Allocable marks for Technical Proposal = 70
- Total Allocable marks in Financial Proposal= 30
- Total Combined Allocable Score for individual bids =Marks obtained in Technical Evaluation Marks obtained in Financial Evaluation = 100

Scoring Methodology:

- Contract will be awarded to the best evaluated fair and responsive bidder whose product ranks highest in the Combined Evaluation scoring calculated through the Marks awarded to Technical Proposal and Financial Proposal as stated in the Bid Data Sheet of these Standard Bidding Documents.
- The Evaluation Methodology is a combination of non-price factors (in Technical Criteria) and price factor (in Financial Criteria); and each having points as elaborated in the evaluation preforms provided in these SBDs.

- Procedure for the Marks Scoring: Marks will be awarded or otherwise for various technical parameters to each quoted product based on the prescribed Technical and Financial criteria. The total combined marks will determine the highest-ranking product in each product category for contract award.
- The formula to calculate the marks for the price by the bidders other than lowest bidder is given below
- Financial Evaluation Score of individual quoted Product: = [Lowest quoted Price of the item ÷ Next higher proposed Price of the competing item] x Total allocable financial score.

Total Marks in Technical Criteria: **70**

Qualifying Percentage in Technical Criteria: **70%**

Qualifying Marks: 49

Financial Criteria (30 Marks):

S #	Parameters	Sub-Parameters	Total Marks:
	Price		30
		Lowest Price will get full marks. The formula to calculate the marks for the price submitted is: $\frac{[\text{Lowest Price (Fm)}/\text{Price of Bid under consideration (F)]} \times 100 \times 0.30$	30

Bids having items not fulfilling/in compliance with the required specifications shall be treated as non-responsive bids.

10. REDRESSING OF GRIEVANCES

1. The purchaser shall constitute a committee comprising of disagreed & notified by the competent authority proper powers and authorizations to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.
2. Any bidder feeling aggrieved by any act of the purchaser after the submission of his bid may lodge a written complaint concerning his grievances not later than 05 days after the announcement of the bid evaluation report.
3. The grievance redressed Officer shall investigate and decide upon the complaint within 06 days of the receipt of the complaint. The report along with decision shall be forwarded to the purchaser officer within the prescribed period.
4. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
5. Note: Grievance notified & designated who can invite appropriate official as co-opted member for grievance.

11. AWARD OF CONTRACT:

Contracts shall be confirmed through a written agreement signed by the successful bidder and the LRH-MTI Peshawar.

12. PAYMENT:

- a. No advance payment will be permissible.
- b. The payment will be made after successful supply, installation/inspection and test run of all requisite items.

13. Sub-Letting Contract:

The supplier shall not sub-let or assign this Contract or any part thereof without the written permission of the procuring entity. In the event of the Services provider subletting or assigning this Contract or any part thereof without such permission, the procuring entity shall be entitled cancel the Contract and to purchase the goods elsewhere on the supplier account and risk and the supplier shall be liable for any loss or damage which the procuring entity may sustain in consequence of arising out of such purchase.

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