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| **S.No.** | | **Name Of Equipment** | **Qty** | **C.I.F Price** | | **F.O.R Price** | |
|  | |  |  | **Unit price** | **Total Price** | **Unit Price** | **Total Price** |
| **RADIOLOGY** | | | | | | | |
| 1. | | **X-Ray Machine 500mA, three phase 380 volts or more complete set with all standard accessories for its installation and commissioning:**  **50 kW or more High frequency X-Ray Generator , 4 ways floating top table with fixed height, floor mounted tube stand/floor to ceiling, manual collimator, 140 KHU X-ray tube, wall bucky stand, pair of HT cables 10m or more.**  Radiographic kVP 40~125kV or more in one kV step.  Radiographic mA 10~500mA or more  mAs range: 1.0~500mAs or more.  Exposure time: 2ms ~ 5s or better  two pointkVp and mAs selection and three point kVp, mA & time selection.  100 or more Anatomical program.  Electromegnatic brakes Longtudinal and lateral travel movement for table bucky,  Longitudnalbucky travel.  Cassette size : all rsizes.  Moving grid 8:1 chest stand and table.  Foot switch for electro megnatic brake control.  Tube support balancing system with counterweights and electromagnetic brakes.  Control panel with push button to control vertical, longitudinal and transverse travel.  Column rotation: 180 deg or better.  Manual collimator. LED/halogen light indicator for alignment with bucky.  Chest bucky stand with the cassettes formats all sizes on either orientation.  Moving Potter Bucky Vertical travel of bucky not less than 120cm.  Dual focus X-ray tube: Small focus 1.0 mm and Large focus 2.0 mm or better.  Maximum Tube voltage: 125KVp and Anode Heat capacity 140 K  Country of originshould be USA/western Europe/Japanwiththeirrespectivestandards MDD (CE) compliance/MHLW Japan/FDA 510K approved can be consider.  Warranty period shall be of three years starting from date of full functional commissioning | 1 |  |  |  |  |
| 2 | **X-Ray Illuminator Single**  Illuminator for viewing of x-ray firm  Size: 8x10 ~ 14x17”  Single view acrylic sheet of 2mm.  Fluent tube light with heavy duty switch.  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 33 |  |  |  |  |
| 03 | **Ultrasound Machine gray scale (black & white)**  High Resolution Portable B/W Ultrasound Machine having Digital Beam Forming System for Abdominal/Obstetrical/Gynae/Urology/small parts with the following Composition:  15” to 12’’or more TFT LCD monitor having wide viewing.  Choice upto four(04) transducer  STC gain six steps or more  B-mode imaging,harmonic imaging  Depth: 24 cm or more.  B/M scan, B (Single, Dual), B/M, M  3~5 MHz Multi Frequency Convex Probe.  Linear probe 5~10MHz (for small parts)  Comprehensive measurement package/functions for abdomen and obs/Gynae.  Built in battery.  CD/DVD writer or USB port.  B/W Ultrasound printer.  Voltage Stabilizer.  Mobile Trolley  Country of originshould be USA/western Europe/JapanwiththeirrespectivestandardsMDD (CE) compliance/MHLW Japan.  *Warranty period shall be of three years starting from date of installation / commissioning* | 2 |  |  |  |  |
| 4 | | **TankforFixer,Developer&Running wáter**  StainlesssteelTankCapacity 25 Liter  Local Manufacturers only can Participate directlyMust be CE Marked Product/ Export Quality  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 10 |  |  |  |  |
| 5 | | **Mobile X-Ray Machine 100mA complete set with all standard accessories for its installation and commissioning:**  High frequency X-Ray inverter type Generator  Having output power of 4kW or more  X-Ray tube 50 KHU or more  KVP range: 40-110kV or more  MA Range: 25-100mA or better,  mAS range: 1.0-200mAs or better  Centering light indicator  Standard power supply cable, standard x-ray exposure switch cable,  Vertical movement of the arm to lower or raise the tube collimator assembly, Rotation of the Collimator with reference to the power module (+/- 90deg) or better.  Country of originshould be USA/western Europe/Japanwiththeirrespectivestandards MDD (CE) compliance/MHLW Japan  *Warranty period shall be of three years starting from date of installation / commissioning* | 1 |  |  |  |  |
| 6 | | **Digital Color Doppler Ultrasound System for whole Body**  Original Trolley mounted Fully Digital multi beam former 128 or more physical channels.  Fast image processor and at least three active connectors.  Gray shades 256 gray shades or better.  Image depth: Image depth: 30 cm or more.  Monitor: 15” or more high resolution, Non flicker TFT/LCD/LED. 7” inch or more touch command screen.  Imaging modes:  B mode (2 D), Color flow mapping, M mode, Doppler Audio, PW must be continuously steerable, Power Doppler Imaging (PDI) Tissue harmonics, Compound imaging, Trapezoid imaging, Beam steering etc 3D/4D upgrade possibilities.  Data management facility & measurements package:  Digital acquisition, storage and preview of complete Ultrasound studies including static and dynamic clips, studies can be review and output to CD/DVD. Integrated internal hard disk (320GB) and CD/DVD writer/reader and USB storage memory. Comprehensive measurements package for general ultrasound color Doppler and echocardiography.  Complete with the following:  Convex probe Multi frequency between 2~6 MHz or better  Linear probe Multi frequency between 5~10 MHz or better  Endo cavity probe between 5~10 MHz or better  Choice upto 4 transducers  B- Mode imaging  Adaptive Doppler and color Doppler.  Black & White digital Ultrasound printer.  Sine wave on line UPS  Country of originshould be USA/western Europe/Japanwiththeirrespectivestandards MDD (CE) compliance/MHLW Japan.  *Warranty period shall be of three years starting from date of installation / commissioning* | 1 |  |  |  |  |
| 7 | | **Cassettes**  08x10”  10x12”  12x15”  14x14”  14x17”  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 Sets |  |  |  |  |
|  | | | | | | | |
| 8 | | **Water Distillatordeionzer complete**  Processing capacity: 4 liters or more  Procesing time: 7-8 hours or better  Automatic control thermostat with block system at the end of operation  Complete with 6active caol filters, 1 detergent, 1 container, for produced distilled water  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 9 | | **Water Bath**  Built-in stirrer . Microprocessor control  Volume: 30 Liters or better, Temperature Range: 5~99˚C  Temperature Precision/Stability: 0.1˚C/± 0.5˚C  Shaking Speed : 20-120 rpm  Make:UK/USA/EEC/Japan  Must be CE Marked  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 10 | | **Urine Analyzer**  Automatic calibration  Built-in thermal printer  LCD Touch Screen 5.5Inch or more  Leucocytes, Nitrite, Urobilinogen, Protein, pH, Blood,Test Principal: Photoelectric Colometry  Data Memory: 2000 Patients Results or more  Country of origin should be UK/USA/ EEC/Japan Incase Equipment is from other countries FDA 510K Approval is Mandatory  (References required from reputable institutes like Civil, AKUH, SIUT, Sir ZIAuddin hospital Indus hospital and Dow.)  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 11 | | **Incubator (Laboratory)**  Microprocessor Control.  Temperature control.  Liter: 110 or more  Temperature Range: 7 Above ambient to 75  Uniformity: at 37˚C (± C) : ± 1.0  Heating up time to 37˚C (min) : 40  Number of Shelves 02  Recovery time: 35 to 40  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 12 | | **A/B Scan (A/B Sun)**  Large Touch screen operation with high-resolution backlit color LCD.  Complete measurement and calculation record within seconds .  Capture mode automatic and manual.  Ability to store up to five different user profiles.  USB for EMR archiving, SD disk for patient data storage.  A-Scan 10mm Calibration cylinder.  10 Lens Database.  Portable and compact weighing, Built in thermal printer.  Spring loaded Soft touch probes.  A-probe frequency: 10 MHz.  Measurements: ACD, Lens, Vitreous, Axial, Standard  Deviation, Individual Zone Velocity.Examination modes: Direct contact,Immersion,  Dense cataract, Aphakic, Pseudophakic, 4- GateManual.  IOL programs: Regression II, Theoretic T, Binkhorst, Holladay, Hoffer Q, Haigis. Post refractive formulas:Latkany Myopic Regression and Arambersi Double-K. Measurements limits: AXL- 18-45.  Clinical accuracy: ±0.10mm. Electrical accuracy: ±0.023mm  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 13 | | **Platelet Agitator**  Storage of 15 random bags or 5-10 apheresis bags  Built-in motion alarm with adjustable volume and delay.  Single fan for forced air cooling QPS (Certified to UL and CSA Standard)  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 14 | | **Microtome**  Precision micrometer feed mechanism with a ‘mono block’ system. Ergonomic microtome design safety locking device to lock the hand wheel. Section counter with reset. Front or lateral coarse feed. Patented knife carrier system. Micrometer mechanism and coarse feed system in an enclosed housing vertical specimen movement on backlash and maintenance-free cross roller bearings. Trimming Automatic  Specimen Movement Vertical, retraction in return stroke Section Feed 0.5-60 um  Feed time for 2um 0.5um  Feed time for 10um 1um  Feed time for 20um 2um  Max Horizontal range 28mm  Vertical stroke 64mm  Capacity 1100 ml  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 15 | | **Hematology Analyzer**  3 parts differential  18 or more hematological measured parameters . WBC, RBC, Hb, MCV and PLT.  Colored display .  -WBC-LYM#-MID#- GRN#LYM%-GRN%- HGB-RBC-HCT-MCVRDW-  MCH-MCHCPLT- MPV-PCT-PDW-WBC, RBC and PLT histogram  Alarm system with auto diagnostic capabilities  72 or more samples/ hour capacity .  Blood sample volume upto 10ul  CBC test should incorporate within one minute & minimum quantity should be used  RS232 interface  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 16 | | **Electrophoresis Fully Automated**  Truly Walk-away automation  1 gel run in maximum 45 minutes”  Dry Temperature controlled Migration Chamber  High Efficiency Peltier driven temperature  Unique flexible migration chamber, 2 or 3 electrodes  Easy result interpretation  Report what you see combining visual inspection of the gel and graph  Minimize unnecessary immunofixation testing, Maximize first line negative tests using  GOLD STANDARD Agarose Gel electrophoresis  Disposable Sample Plate  Country of origin should be UK/USA/ EEC./Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 | Deleted by PD in Khairpur Scheme |  |  |  |
| 17 | | **Glucometer**  Measurement Range 20 to 600 mg/dL or 1.1 to 33.3 mmol/L, Sample Sites Finger tips, Forearm or palm  Sample size 1 µL, Test Time Approximately 10 seconds, Power source One 2032 or equivalent 3.0V coin cell battery, Battery Life 12 months or approximately 1,000 tests, Memory plus Up to 300 records with time and date EZ Last 30 results, no averaging, no date/time  Make: UK/USA/EEC/Japan.  Or CE Approved  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 8 |  |  |  |  |
| 18 | | **Microscope**  Microscope for sharp and distinctive images.  With built in tension adjustable focusing system.  Optical System: Color Corrected infinity optical system  Observation Tube: Widefield Binocular 30˚  Widetrinocular 30˚-light distribution:10:0/20:8  Maintenance free, sealed, brass shaft, focus mechanism.  Pre-Centered and Pre-Focused condenser, LED illumination with continuous intensity control, Dust cover.  Country of origin should be UK/USA/ EEC./Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 7 |  |  |  |  |
| 19 | | **Laser Diode Microscope complete set**  Scan head: User interchangeable scan head  Dicroic mirrors  PC controlled pinholes on a rotating drum  Scaning: Upto 3frames/sec  Didirectional scanning  Scan Repetition through software  x-axis line scan theda axis scan upto 2048 x 2048 pixel  resolution 12 bit gray scale  extended red response  side window photo multiple channels  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 1 |  |  |  |  |
| 20 | | **Fresh plasma separator**  Self-loading pumps, auto priming advance optical sensors and easy to read display.  Safety feature for redundant air detectors, fluid sensor. System should be capable of built in wireless communication. Wi-Fi, Ethernet or RS 485;  Automatic air removal system; up to 5 scales;  16 or more pre-loaded procedures; Flow regulator with high precision optical sensor.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 2 |  |  |  |  |
| 21 | | **Electronic Balance**  Capacity & Resolution: 400g x 0.01g  Percentage: Resolution: 0.01/ 0.1 / 1%  Stabilization Time: 2 sec, Typically  Sensitivity drift: (10 ppm/°c (10ºc-30ºc)  Linearity: +/-0.02 g  Repeatability/st D.Dev:0.01g  Display Refresh: 5 or 10 times  Operating temperature: +5ºc-40 rh less than 85% no condensation  Country of origin should be UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 1 |  |  |  |  |
| 22 | | **Electrolyte Analyzer**  Sample: Whole Blood, Serum, Plasma,  Sample Size: 60µl Whole Blood, Serum or Plasma, Electrode solution can be refill  60ul Capillary Sample  Detection Range, Blood Na+:20-200mmol/L  K+:0.2-40mmol/L, Cl-:25-200mmol/L, Analysis Time, 60 sec (Blood), Data Storage 200 patient results, 270 normal/abnormal QC results, Reproducibility Typical within run (n=20), Blood, Serum, Plasma, Na+:CV≤1%(80-200 mmol/L), K+:CV≤2%(1-10 mmol/L), Cl-:CV≤2%(80-200 mmol/L) Output : touch screen LED Graphic display, 40 column printer, Serial Port (RS-232), Auto Sampler port  US FDA Approved  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 1 |  |  |  |  |
| 23 | | **Biochemistry Analyzer** | 2 | Discuss Due to budget 450,000 |  |  |  |
| 24 | | **Fully automated Chemistry Analyzer**  Automated clinical chemistry analyzer having several different analysis modes including Absorbance, 1 point end, 2 point end, 1 point rate, 2 point rate and Kinetic,immunoturbimatric assay. Random access with reusable plastic or pyrex cuvettes with throughput 100 or more tests per hour, maximum filling reagent capacity.  Should be built in inventory management system automatically tests and reports.Optical design user-selected monochromatic or dichromatic results. 8 wavelengths ranging from 340-700nm; 340,405,505,546,630 nm + Two Optional.Linear ranges-0.2-3.0A  Must have 120 or more programmable tests.  Reaction Volume: 250 µl , Long life IAD filters  Sample type: Serum, plasma,  Sample Volume: 3-30 µl  Reagent position :maximum 37; dilution predilution,dispencing single or multiple  Maximum number of reaction 40  Reaction time: Max 15 min  Should be with PC & Laser printer  US FDA Approved  Country of origin: UK/USA/EEC/JAPAN  *Warranty period shall be of three years starting from date of supply* | 1 |  |  |  |  |
| 25 | | **Centrifuge Machine 12 head**  Complete with 12-place angle rotor.  Microprocessor-controlled with LCD Display  Head: 12 nos  Noise Level under 16dBA @ Maximum Speed  Maximum Speed: 5300RPM or more  Maximum RCF: 3030 x g or more  Country of origin should be UK/USA/ EEC./Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end*. | 8 |  |  |  |  |
| 26 | | **Blood Bank Refrigerator**  Capacity 200 Liters or more / 100 Bags/450/500ml  Cabinet to have smooth stainless steel interior.  Microprocessor control panel with digital display.  Integrated Data log system.  04/04 shelves. Refrigerant Gas R404a  Lockable doors automatic defrosting  Interior lighting. Data logger  Audible & Visual alarms.  Door: Single Glass Door  Country of origin should be UK/USA/ EEC./Japan/  Who approved CE & TUV  Installation Should be 100 or more units.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 27 | | **Blood Sample rotor**  3ml to 10ml test tubes more than 6 tubes capacity variable speed more than 20O angle  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 28 | | **Blood bag sealer**  Automatic sealing operation.high grade metal electrodes for perfect sealing  Removable caps; Audible beep & LED signal indicate dirty Electrodes,sparking or over heating.  LED indicator  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 3 |  |  |  |  |
| 29 | | **Blood Bag rotator**  3D rotation, with 5-40r/min speed. Rotating angle 20°. Max bearing capacity : 0.8kg;Adjustable low & high flow alarms;  (10-990ml) up to 1000 donations can be stored,  Automatic Clamp of tubing at the end of donations, RS232 cable for barcode reader  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end.* | 3 |  |  |  |  |
| 30 | | **Arterial Blood Gases Machin**e  Type : Parameter  pH : pH  Blood gases: pCO2, pO2  Electrolytes: K+, NA+,Cl  Hemotocrit: Hct  Shelve life of solution: 3-4 month  Pouch volume: -440ml  Flucuid cycles: 230  Storage tempreture:12-12\*/54-77\*F  Full visual graphic array (VGA)  Full active thin transistor (TFT)  Resistive Touch Screen  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
|  | | | | | | | |
| 31 | | **Skin Graft Masher**  Single cuts graft , geometrical shaped mash and enlarge skin surface.  Predetermine graft expansion by graft caring plates .multiple plate system .graft thickness adjustment for thin and thick grafts. Unit complete with skin graft carrier , lights for graft carriers.  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 32 | | **Zimmer Electric / Pneumatic Dermater**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 33 | | **Surgical instrument set**  Metal Ruler 6’’ (1 Nos)  Scalpel Handle #3 (1 Nos)  Scalpel Handle#4 (1 Nos)  TC Wire Cutting Scissors Angled 4 3/4’’ (1 Nos)  Rochester-OchsnerFoersepsCvd 5 ½’’ (1 Nos)  Allies Tenaculum Forceps Delicate 5 ¾’’ (2 Nos)  TC Derf NH Serr 4 ¾’’ (1 Nos)  TC-Crile-Wood NH NarroeSerr 6’’ (1 Nos)  TC Ryder Micro NH Serr 6’’ (1 Nos)  Stevens Tenotomy Scissors Delicate S/S 4 ½’’ (1 Nos)  Stevens Tenotomy Scissors Delicate B/B 4 ½’’ (1 Nos)  Metzenbaum Scissors Cvd 4 ½’’ (1 NOs)  Reynolds Sciss Nar Tip Cvd 6 (1 Nos)  Semkin Dressing Forceps Delicate 5’’ (1 Nos)  Semkin Tissue Forceps 1x2 Teeth Delicate 5’’ (2 Nos)  Miller-Senn Retractor Double End Sharp 6’’ (1 Nos)  Iris Scissors str 4 1/8’’ (1 Nos)  Iris Scissors Cvd 4 1/8’’ (1 Nos)  Mayo ScissorsStr 5 ½’’ (1 Nos)  Mayo ScissorsCvd 5 ½’’ (1 Nos)  MetzenbaumScissorsCvd 6’’ (1 Nos)  Hartmann Mosquito ForcepsStr 3 1/2 ‘’ (3 Nos)  Hartmann Mosquito ForcepsCvd 3 1/2 ‘’ (3 Nos)  Halsted Mosquito Forceps Str 5’’ (6 Nos)  Halsted Mosquito Forceps Cvd 5’’ (6 Nos)  Adson Dressing Forceps Serr 4 ¾’’ (1 Nos)  Adson Tissue Forceps Slide grasping 4 ¾’’ ( 1 Nos)  Allis Forceps 4x5 Teeth 6’’ (1 NOS)  Extra Delicate Allis Forceps 4x5 Teeth 5’’ 91 Nos)  Freer Dissector Double End S/B 7 (1 Nos)  Joseph Hook 1 Prong Sharp 6 ¼’’ (2 Nos)  Backhaus Towel Clamp 3 ½’’ (2 Nos)  Backhaus Towel Clamp 5 1/4’’ (6 Nos)  Cushing Nerve and Vein retractor 9 (1 Nos)  Frazier Suction Tube 7 French (1 Nos)  Frazier Suction Tube 8 French (1 Nos)  Crile Retractor D/E 4 ½’’ (1 Nos)  US Army Retractor (Set of 2) 8 1/2 ‘’ (1 Nos)  Senn retractor Double End Sharp 6 ¼’’ (1 Nos)  Ballenger Sponge Forceps StrSerr 7’’ (2 Nos)  Ballenger Sponge forceps CvdSerr 7’’ (2 Nos)  Foerster Sponge Forceps StrSerr 9 ½’’ (2 Nos)  Made from imported stainless steel, Rust resistant and satin finish  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 34 | | **Pneumatic Tourniquet set**  Specification:  Display  mounting on mobile stand  Protocol printer  Integerated rechargeable battery for surgical use with 04 hours backup  Integerated cable & tubing holder integerated compressor  Automatic pressure regulation in the event of under & over pressure  Pressure calibration builtin cuff, arm & leg pressure 30to 600 mmHg.  **Integrated error analysis easy maintenance**  **Make: UK/USA/EEC/Japan**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 35 | | **Plastic Cutter**  Compact lightweight plaster cutter equipped with a cooling fan  With blade lock and adjustable guide and cutting depth guage  Wide range of saw blades  Stainless Steel Blades  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 36 | | **Oxygen flow meter**  Flow 0~15 liter  With BS probe  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 142 |  |  |  |  |
| 37 | | **OT Table**  Multipurpose Hydraulic Operation table  Systems operatable by foot pump for hydraulic function.  Movement for Systems by manual gas pistons & hydraulic.  Table top Board divided in 05 sections  Table Elevation & decrease system, by hydraulic piston commanded by foot panel.  Head Rest Detachable & adjustable by piston  Surface of the table board in radio transparent material, tunnel with guides for X-ray Cassettes  Table Top Dimension L X W X H: 2000x500mm or more From 650 to 850mm or better  Lateral Tilt: -20˚ to + 20˚  Back Section,Adjustable from +80˚ to -40 ˚  Maximum Patient Weight: 200 or more  **Standard Accessories:**  Anesthesia Screen ARC, in Stainless Steel  Head Rest Padded, Detachable  X-Ray Cassette  Mattress  Iv Stand  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 38 | | **LED Ceiling Mounted OT Lights b**  with all Standard Accessories  High performance LED illumination for every type of surgery  Cold Light  White Light  Excellent contrast in the operating field  Shadows reduction in the surgical field and total illumination of the surface and at depth –  Frequency 50/60 Hz  Light source technical data  Light Source : LEDs  Average life : 50,000 hrs or more  Lighting at the centre, Ec @ 100cm  Diameter of operating field Min 185mm/Max 340mm  Illumination Minimum 2 x120,000 lux @ 1 meter-  Total Lux @ 240000 or more  Color temperature, CCT 4,500° K ± 2%  Color rendering index, Ra 95±1  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 4 |  |  |  |  |
| 40 | | **Minor Set**  Bowl Lotion 250 mm (2Nos)  Gallipot/Cup S/S 180 ml (2Nos)  Tray Kidney shape with Lid S/S (2Nos)  Forceps artery Kocher COF BJ.S/S 180 mm  (20 Nos)  Forceps Dissecting Plain serrated Jaws S/S  150 mm (6 Nos)  Forceps Dissecting narrow, serrated Jaws S/S  200 mm (1 Nos)  Forceps Dissecting Waugh, fine serrated Jaws 1x2  Tth 200 mm (1 Nos)  Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150  mm (4 Nos)  Forceps Towel Holding cross Action S/S 100 mm  (8 Nos)  Forceps Towel Moynihan, Double Teeth (bj) 190  mm (4 Nos)  Forceps Sponge Holding Rampley BJ S/S 240 mm  (5 Nos)  Handle size 3 for scalpel blades size 10-15 (1  Nos)  Handle size 4 for scalpel blades size 20-24 (1  Nos)  Needle Holder Kilner’s 165 mm (1 Nos)  Needle Holder Mayo Hegar BJ. S/S 180mm (2  Nos)  Scissors Blunt Point Straight SJ. S/S 180 mm(1  Nos)  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 10 |  |  |  |  |
| 41 | | **Portable LED OT light**  Mobile spot Light  Minimum 35,000LUX/0.5m or more  Color temperature: 4000K or more better  Flexible arm with up & down movement and 360 degree rotation.    **Make: UK/USA/EEC/JAPAN**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 7 |  |  |  |  |
| 42 | | **Laryngoscope**  fiber optic laryngoscope with blades and halogen light source in the handle  sterilizable with re-chargeable batteries.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 43 | | **Lapartomy set**  Knife Handle No.3  Knife Handle No.4  Knife Handle No.7  Forceps Holder, 8”  Forceps Holder, 10”  Forceps Holder, 12”  Mayo Disc. Scrs, 6 ¾” Str  Mayo Disc. Scrs, 6 ¾” Cvd  Metzenbaumscrs, 7” Cvd  Halstead Mosquito Fcps, Straight, 5”  Halstead Mosquito Fcps, Curved, 5”  Forceps, Kelly, 5 1/2” Str  Forceps, Kelly, 5 1/2” Cvd  Forceps, Rochester-Pean, 6 ¼” ,Cvd  Forceps, Rochester-Pean, 10 ¼” ,Cvd  Forceps, Rochester-Ochsner , 10” , 1x2 th  Forceps, Mixter, 9”  Forceps, Foerster Sponge, 9 ½” , Serr, str  Forceps, Allis Tissue, 6” , 4x5th  Forceps, Babcock Tissue, 6 ¼”  Forceps, Babcock Tissue, 6  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 44 | | **General Surgery Set Complete in All Respect**  Bowl Lotion 250 mm (2 Nos)  Gallipot/Cup S/S 180 ml (2 Nos)  Gallipot/Cup S/S 250 ml (2 Nos)  Tray Kidney shape with Lid S/S 200x30 mm (2 Nos)  Tray Kidney shape with Lid S/S 300x50 mm (2 Nos)  Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos)  Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos)  Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)  Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)  Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)  Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos)  Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)  Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos)  Forceps Towel Holding cross Action S/S 100 mm (8 Nos)  Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos)  Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos)  Handle size 3 for scalpel blades size 10-15 (1 Nos)  Handle size 4 Scalple blades size 20-24 (1 Nos)  Needle Holder Kilner’s 165 mm (1 Nos)  Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos)  Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos)  Scissors Mayo’s CO Flat 200 mm S/S (1 Nos)  Scissors Mayo’s Straight 200 mm S/S (3 Nos)  Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos)  Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)  Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos)  Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos)  Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos)  Retr. Walton, malleable copper 13mm length 305mm (1 Nos)  Needle Aneurysm S/S. Small 146 mm (1 Nos)  Pin Safety Mayo, forceps holding, 120mm (4 Nos)  Suction Tube Mclndoe (1 Nos)  Suction Tube Poole’s S/S 225 mm  Sterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)  Wire Cutting, Tungsten. Carbide inserts 180 mm.  Made from imported stainless steel, Rust resistant and Satin finish  Export Quality Material  **Local Manufacturers only can Participate directly Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 45 | | **Instrument Cleaner Super Sonic**  Ultrasonic frequency 40,000 Hz  Tank Material Stainless  Tank Capacity: 600ml  Timer 180S,360s,,Digital timer  Power 35W  Unit Size 175x 110x155mm(LxWxH)  Tank Size 150x85x65mm (LxWxH)  Make: UK/USA/Europe/Japan.  Warranty period shall be of two years starting from date of full functional commissioning | 1 |  |  |  |  |
| 46 | | |  | | --- | | **Diathermy (Electrosurgical Unit)**  High frequency surgical diathermy for mono polar and bi polar cutting and coagulation for use in general surgery, ENT, Gynecology, Urology, Orthopedic, etc.  Output frequency 300Khz  Output power 300 W  Monopolar cutting 300 W  Blend: 230W or more.  Monopolar coagulation  crest 120  Spray 120  Bipolar Cutting  Bipolar coagulation : 70 W or more  Complete with following accessories:  Power cable, Monpolar Footswitch, Bipolar Footswitch, Reusable Diathermy pencil, Knife blade electrode straight 2.8cm or better with shaft, Loop-electrode diameter of 9mm or better with shaft, Titanium forceps , bipolar cable, Disposable patient plate & trolley  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | | 4 |  |  |  |  |
| 47 | | **Dressing set**  Forceps, dissecting, Straight, 1/2 teeth, 130 mm x 2  Forceps, sinus, 180mm x 1  Forceps, Dissecting, Straight, Plain, 115 mm x 1  Forceps, Sponge holding, 200mm x 1  Scissors, Mayo, Straight, 150mm x1  Scissors, dressing, Straight, 165mm x 1  Scissors, ligature, spencer, 130mm x 1  Bowls, lotion, s/s,         5 liter x 1  Bowl lotion, s/s, 0.2 liter x 2  Kidney Dish, 24cm x 2  Instrument container, s/s with cover, 300x200x50mm x 1  Made from imported stainless steel, Rust resistant and stain finish  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 25 |  |  |  |  |
| 48 | | **Disinfection Instrument washer double door**  Fully automatic operation,fromprewarsh,wash,rinse to dry,high class stainless material transparent glass with lighting east to check chamber size: w520xd530xh600mm, 165 liters spray. 3 rotational cleaning arms with water spray nozzle.dry stage drying tempreture 121\*c and keep 85min for sterilizing.  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 49 | | **Anesthesia Machine with built in Ventilator**  Specifications:-  Patient type: neonates, Peads & adult  VENTILATION MODES:  The modes of ventilation should include: Volume Ventilation (CMV, Assist CMV), Pressure Support Ventilation (PSV), SIMV, SPONT, MANUAL,SIGH, Apnoea BACK-UP, CPAP, Bilevel, & NIV. Manual breath lock and inspiratory/expiratory hold.  TECHNICAL SPECIFICATIONS:  The patient range should be from neonate, pediatric and adults with easy operation.  Breaths Rate for CMV+, PCV+, P – SIMV+ should be from at least 6 bpm to 140 bpm  PEEP & CPAP from 0 cmH2O up to 35 cmH2O  Tidal Volume from minimum 5 ml to 2000 ml or more for Volume mode  Inspiratory minute Volume  Expiratory minute volume  The I: E ratio: 1:4 - 4:1  ALARMS:  Operator adjustable alarms should include low/high minute volume, high pressure, low/high tidal volume, apnea rate  Oxygen concentration, disconnection, loss PEEP  Apnoea Alarm  Display:  Screen size not less than 12” Inch or more TFT Color Screen with Loops, Graph & Monitoring on the same window  EVENT LOG:  Memory Storage up to 100 Events  Power Supply:  100-230V  Internal Battery Operation 1 Hour or more  Supplied should be with supporting arm, trolley, breating circuits for adult, paeds and neonates , power cord and operating manual  **Medical Air Compressor or Turbine system**  CE & IEC Certified.  Make :UK/USA /Europe  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 50 | | **Circus session Set**  Made from Imported Stainless Steel, rust resistant and satin finish  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 51 | | **Bone Small Fragment Fixation Set**  Small Fragment Instrumentation Set  Containing:  Tap for screws Ø 3.5mm, length 110/50mm  Tap for cabcellous bone screws Ø 4.0mm, length 110/85mm.  Drill bit Ø 2.5mm, length 110/85mm, 2-flute, for quick coupling.  Drill bit Ø 3.5mm, length 110/85mm, for quick coupling.  DCP drill guide 3.5, for neutral and load position.  Drill sleeve insert 3.5/2.5, length 42mm.  Double drill guide 3.5/2.5  Triple drill guide 2.0, with 3 holes.  Depth gauge for screws Ø 2.7 to 4.0 mm, measuring range upto 60mm.  Screwdriver, hexagonal, small, with holding sleeves.  Screwdriver shaft, hexagonal, small, Ø 2.5mm.  Handle with quick coupling, self-holding, length 110mm.  Screw forceps, self-holding, length 85mm.  Sharp hook, length 155mm.  Bending iron for plates 2.4 to 3.5, length 145mm.  Bending iron for plates 2.4 to 3.5, length 145mm.  Bending template for LC-DCP 3.5 and DCP 3.5, length 87mm.  Bending template for LC-DCP 3.5 and DCP 3.5, length 114mm.  Bone holding forceps, self centering, speed lock, length 190mm.  Reduction forceps with points, ratchet lock, length 130mm.  Reduction forceps, toothed ratchet lock, length 140mm.  Reduction forceps, with points, wide, soft lock, length 127mm.  Reduction forceps, toothed, soft lock, length 146mm.  Bone holding forceps, self centering, soft lock, length 191mm.  Bone liver, width 15mm, length 160mm.  Bone liver, small, short narrow tip, width 8mm, length 160mm.  Periosteal elevator, slightly curved, straight edge, width 6mm, length 187/87mm.  Bone liver, small, short narrow tip, width 6mm, length 160mm.  Counter sink 3.5  LCP drill guide 3.5, for neutral and load position.  LCP drill sleeves 3.5, for drill bits, Ø 2.8mm.  LCP drill bit Ø 2.8mm with stop, length 165mm, for quick coupling.  Bone holding forceps, self centering, soft lock, length 191mm.  DLS drill guide 3.7, for drill bits Ø 3.1mm, length 165mm, 2-flute, for quick coupling.  Drill bit Ø 3.1 w/stop caliber L250/225.  Locking drill sleeves Ø 3.1 percut.  Made from imported stainless steel, Rust resistant and stain finish  **Uk/USA/EEC/Japan/China also**  **Local Manufacturers can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 52 | | **Autoclave double steam str. Single door (CSSD)**  40 liters or more, manual control system. Eco friendly and economically design with over temperature, pressure & elec. Over load protection with emergency exhaust switch with low water buzzer with over heat/temp. indication light chamber. Temperature upto 121oC;Digital PID Controller with Timer and Tunning:  CE Marked  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 53 | | **Autoclave steamgenrated. Double door (CSSD)**  150 liters, manual control system. Eco friendly and economically design with over temperature, pressure & elec. Over load protection with emergency exhaust switch with low water buzzer wit hover heat/temp. indication light chamber  CE Marked  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 54 | | **Autoclave**  40 liters or more, manual control system. Eco friendly and economically design with over temperature, pressure & elec. Over load protection with emergency exhaust switch with low water buzzer with over heat/temp. indication light chamber. Temperature upto 121oC;Digital PID Controller with Timer and Tunning:  CE Marked  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 55 | | **Rigid Oesophagoscope**  Esophagoscopelarge,length 43cm size 6.5mm  Esophagoscopemedium,length 30cmsize 4mm  Esophagoscopesmall,length 26cm size 3mm  Camera for ultra high sensitive endoscopyCCDtechnology.complete with light source  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 56 | | **Rigid Bronchoscope**  Optically fully integeratedribidbronoschope for procedures of bronichial system.  Telescope for bronoschope with integerated optical view.  Light source  Light guide cable  Integerated irrigation channel  Foreign body forceps  Biopsy forceps & instruments  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
|  | | | | | | | |
| 57 | | **ICU Ventilator with all Standard Accessories**  Specifications:-  Patient type: neonates, Peads& adult  VENTILATION MODES:  The modes of ventilation should include : AVM/ASV  Volume Ventilation (CMV, Assist CMV), Pressure Support Ventilation (PSV), SIMV, SPONT, MANUAL,SIGH, Apnoea BACK-UP, CPAP, Bilevel, & NIV. Manual breath lock and inspiratory/expiratory hold.  TECHNICAL SPECIFICATIONS:  The patient range should be from neonate, pediatric and adults with easy operation.  Breaths Rate for CMV+, PCV+, P – SIMV+ should be from at least 6 bpm to 140 bpm  PEEP & CPAP from 0 cmH2O up to 35 cmH2O  Tidal Volume from minimum 2 ml to 2000 ml for Volume mode  Inspiratory minute Volume  Expiratory minute volume  The I: E ratio: 1:4 - 4:1  ALARMS:  Operator adjustable alarms should include low/high minute volume, high pressure, low/high tidal volume, apnea rate  Oxygen concentration, disconnection, loss PEEP  Apnoea Alarm  Display:  Screen size not less than 12” Inch or more TFT Color Screen with Loops, Graph & Monitoring on the same window  EVENT LOG:  Memory Storage up to 100 Events  Power Supply:  100-230V  Internal Battery Operation 4-6 Hour or more  Supplied should be with supporting arm, trolley, breating circuits for adult, paeds and neonates , power cord and operating manual  **Medical Air Compressor or Turbine system**  CE & IEC Certified.  Make :UK/USA /Europe  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 6 |  |  |  |  |
| 58 | | **Suction Machine**  Suction Machine with two polycarbonate collection Jars.  4 antistatic castors , 2 with brakes.  Piston type, oil free.  Pump flow: 40L/min .  overflow prevention.  Hydrophobic PTFE filter.  3 m PVC Suction tube.  Metallic handle, Metallic curved and straight catheter .  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* |  |  |  |  |  |
| 59 | | **Steamer**  Portable Steam Sauna  With 5-Star Stand  With Ozone Lamp  Rotatry head  Time Contral  Make: UK/USA/ EEC /Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 8 |  |  |  |  |
| 60 | | **Pulse Oximeter**  Dynamic color changes correlated to the patients pulse  Oxygen saturation range SPO2: 0-100%  Built in Rechargeable Battery  High & Low adjustable alarms on SPO2 and Pulse rate  Memory of 100 hours or better and heart rate trends.  Complete with Adult Finger Clip Sensor, Pediatric Finger Sensor,  Power Cord, Rechargeable Battery, Operation Manual  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 12 |  |  |  |  |
| 61 | | **Nerve Stimulator**  Combined with NMS-STIM (Neuromuscular stimulation) and ETS (EMG Triggered Stimulation)  Lightweight and portable  Automatic and manual threshold settings  Software for detailed progress tracking  Dua channel digital EMG unit  Range: 0.2UV to 2000uV  Sensitivity: 0.1uV  Accuracy: 4% of uV  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 62 | | **Infusion pump**  Volumetric peristaltic infusion pump. Flow rate 0.1 to 99.9 ml/h. Unit compatible with most IV set. Memory function incase of power failure to retain the most recent flow rate & total volume. Comprehensive alarm for Air in line, occlusion, door open, low battery, infusion complete, empty container. Built in battery charger. Unit complete with IV sets.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 12 |  |  |  |  |
| 63 | | **ECG Machine with Trolley**  **ECG machine 12 lead, 6 channel with standard Accessories.**  Specifications:-  6-Channel Interpretive  Electrocardiographs with LCD Screen 5” or more  Having the following specifications  12-Lead ECG Simultaneous Display  An LCD Screen shows 12-lead ECG waveform at a glance for easy reviewing  It also helps save paper. You can confirm noiseless waveforms before recording.  Data Storage and Transfer  To save recording paper, report printout can be turned off when data is transferred.  High Level 12-Lead ECG Analysis  12-lead ECG acquisition and analysis 6-Channel Recording  roll or Z-Fold Paper  Thermal Printer  AC & Battery operated  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 3 |  |  |  |  |
| 64 | | **Defibrillator**  with all Standard Accessories  **Specifications:**  Biphasic technology  Defibrillator Biphasic upto 270 Joules atleast  (***Mandatory***)  Charging time: Less than 10 sec for 270 J  ECG­:-6 Channel ECG  Leads: I, II, III, aVR, aVL, aVF  Heart rate: 50-300 per min  Display: TFT LCD 5’ Inches or More  Built-in Printer with Memo Print  Data management:-  Removable storage unit: 01GB or more with voice recording up to 80 Hours or more  Rechargeable external battery with minimum 04years shelf life  Monitoring time 03Hours or more Extendable  Complete with all standard Accessories  External Paddles for Adult & Built-in Pediatrics Paddles  ECG Leads minimum 05 cable set  Ultrasound Gel  Power Cord  (References required from reputable institute like SIUT,Civil,JPMC,Indus,Dow,Tabba,AKUH)  Installation must be more than 50 units atleast  Make: USA/EEC/Japan/UK  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 11 |  |  |  |  |
| 65 | | **Autorefractometer (antorefrectors)**  Rotatory Prism Technology  Simultaneous display of right/left  CPU for measurements  Built in thermal printer  Various interfaces with optional computerized lens meter and Computerized vision testers.  range: 0o to 180o (1o or 5o steps)  Minimum measurable pupil diameter: Ø2.0mm. PD measurement: 20 ~85mm (1mm Step). Output: RS-232C / USB 1.1.  Make: UK/USA/ EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 66 | | **Dynamap (Vital Sign Monitor) with NIBP &SPO2.**  The unit should have function for monitoring, displaying, reviewing, storing and alarming of multiple physiological parameters of patients, including Pulse Oxygen Saturation (SpO2), Pulse Rate (PR), Non-invasive Blood Pressure (NIBP).  The monitor is intended to be used in outpatient departments and emergency treatment rooms of hospitals, community clinics, private clinics and other medical institutions.    Display: Min 7” or more Color Anti-glare TFT LCD  **data storage**  Clinic mode   Patient quantity:800 or more better  Recording number:upto 10000 or more  NIBP measurement record:5000 or more  Single Patient Mode:  Patient quantity:1  Trend data:resolution 1Min slot can store more than 90 hours  5Min slot can store 400 hours  10Min slot can store 900 hours  Alarm events:1000  Make:UK/USA/EEC/Japan Incase Equipment is from other countires FDA 510K Approval is Mandatory & Installation should be 200 Units in Pakistan.(also references required from reputable institutes like AKUH,SIUT, Sir ziauddinhpspital Indus hospital and Dow.)  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 25 |  |  |  |  |
| 67 | | **Central Monitor**  Multi-Channel 17-Inches or more colored Central Monitor with recording facility On Laser Printer  digital HR with high and low alarms on all parameters selected on bedside monitors.  Other parameters to be monitored as selected in the bedside monitors with automatic recording on alarm  System should be quoted with 12 Nos.  bedside monitor and central monitor to show 12 patient data.  However, system should have capability of upgradation  to display up to 16-patients data on the screen and system  should have facility for 2nd displays  monitor which can operate separately different  information to monitor many patient data.  Hard wire system with capabilities of Tele Monitoring as a future upgrade.  Capability to store 72-hours trend data and  up to 250 arrhythmia episodes of 8-seconds each  and up to 4000 ST events for each patient  Capability to store 72-hours  full disclosure ECG as well as 5 other waveforms for each patient.  Built-in automatic Arrhythmia analysis and ST analysis  Make:UK/USA/EEC/Japan Incase Equipment is from other countires FDA 510K Approval is Mandatory & Installation should be in Pakistan.(also references required from reputable institutes like AKUH,SIUT, Sir ziauddinhpspital Indus hospital and Dow.)  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 68 | | **Cardiac Monitor**  Multi Parameter monitor  Colour 12" TFT Monitor  Parameters:  (ECG/RESP - NIBP - SPO2 - 2TEMP - 2IBP)  ECG:  Selectable 3 to 5 wires  Heart rate range: 25-250 bpm  Defibrillator and electro surgery protection  SpO2:  Pulse rate range: 25 to 250bpm  Temperature:  Range 0-50 ° C  Respiration:  Breath rate range: 6-150 BrPM  IBP:  Sensor Impedance: 300-2500Ohm  - ST segment and arrhythmia analysis  - Internal battery  Standard supplied accessories:  **Make: UK/USA/Europe** | 35 |  |  |  |  |
| 69 | | **Transfer Pump from UGT to OHT**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 70 | | **Tympanometer**  Portabletympanometer with two probes tones 226 for adults and 1000 Hz for infant.  Reflex screening, Reflex threshold and Reflex decay PC connectivity with software  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 71 | | **Stethoscope**  High quality stethoscope with stainless steel chestpiece,stainless steel double inner spring PVC tubing for unsurpassed acoustic  performance. With foam lined box and 2 extra sets of soft eartips.Chestpiece: Ø 45 mm (adult), Ø 35 mm (paediatric).  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 71 |  |  |  |  |
| 72 | | **Sphygmomanometer**  Sphygmomanometers with fabric cuff with velcro  closure, reliable manometer with clip to be fixed on the cuff.  Scale 0-300 mmHg.  Air release at closed tap max 4 mm Hg/minute. Manual setting of deflation possible up to 2/3 mm Hg.  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 71 |  |  |  |  |
| 73 | | **Laryngoscope**  fiber optic laryngoscope with blades and halogen light source in the handle  sterilizable with re-chargeable batteries  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 74 | | **Snellen chart**  Snelle eye chart with numbers,alphabet and light readable from 10-20 fts  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 75 | | **Slit Lamp**  Stereoscopic converging binocular microscope.  3 Step magnifications changing by rotating drum. Long life and power-saving LED illumination. Superior function and compact design. Joy stick device, Easy coarse and fine adjustment for vertical and lateral movement of main body by one hand. Microscope Magnification10X, 16X, 25X. Eye piece 12.5X. Diopter adjustment :-5D ~ +3D. Total magnification. Field of view:.10X (∅22.5mm), 15.98X (∅14.1mm), 25.53X (∅8.8mm)Slit Illumination Light source:LED(Light Emitting Diode)Aperture diameter :Continuous from 1 to 14, ∅0.3, 1, 5, 10, 14mm. Slit width Continuous from 0 to 14mm. Slit length Continuous from 1 to 14mm. Slit angle 0° to 180°. Filters Blue, Red-free. Primary input: AC 120/220 50-60Hz.  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 76 | |  |  |  |  |  |  |
| 77 | | **Posterior VitRactomy**  set of contat lenses (with concave surface) silicon ring,stainless steel ring with two notches,central fundus lens (plano) biconcave 90D lens 20\* prism lens 30\* prims lens prismatic biconcave lens,magnifyinglens,wide fields lens.  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 78 | | **Phaco machine**  Peristaltic pump, Realistic venture effect. Cool Phaco technology. Micro Incision Cataract Surgery (MICS).Dual linear foot switch.Widest range of MICS instruments, 20 gauge forceps and scissors.Auto Self-Test and tuning..Mini Mega ultrasonic Tip. Separate control for Vacuum and Flow rate.  Cool Phaco:Frequency: 27 – 55 kHz, Pulsation: Cool flash technology  Aspiration:Flow rate: 1 – 50 ml, Vacuum: 1 – 550 mmHg  Vitrectomy:Pneumatic, nominal pressure: 1.4 bar (20 PSI), Stroke: 10 – imp/min  Diathermy:Power: 0 – 15W at 125 Ohms, Frequency: 1.5 MHz, Pulsation: 3 Hz  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 79 | | **Lens Meter**  Sensor with 108 multiple measurement points  New lens table expanding measurement  Range  User friendly titable LCD 5.7 inch touch color panel  Distortion check  Green transmittance measurement.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 80 | | **Keratometer**  Accurate refrection measurement with Large Pupil zone imaging method SLD and highly sensitive CCD  VA measurement with glare test  Simple capity assessment with retroillumintion image  Patient friendly accommodation measurement keartometry measurement with mire ring.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 81 | | **Instrument trolley**  Made from imported stainless steel, Rust resistant and Satin finish  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 33 |  |  |  |  |
| 82 | | **Field Analyzer**  Maximum temporal range (degrees) 90  Stimulus duration 200 ms  Visual field testing distance 30 cm  Background illumination31.5 ASB  Threshold test library  24-2, 30-2, 10-2, Macula  Threshold test strategy  SITA Standard, SITA Fast, Full Threshold, FastPac  Screening test library  Peripheral test patterns  Screening test modes  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 83 | | **Transfer Pump from UGT to OHT**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 84 | | **Television LED**  Make: UK/USA/ Europe/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* |  |  |  |  |  |
| 86 | | **Centralized Medical gases supply system**  **ITEM 1.**  AUTOMATIC MANIFOLD FOR OXYGEN FOR 2 X 10 CYLINDERS  1 No.  WITH CONNECTION TO VIE TANK.  The Control Panel should handle three sources i.e. Two sided cylinders  battery and one VIE Tank / Oxygen Generation System.  The Manifold shall be a fully automatic type & shall switch  from Tank / Generation System to Cylinders Battery and “Bank in Use” to “Reserve”  bank without fluctuation in delivery supply line pressure  The system should be able to maintain continuous supply in case of power failure.  Capacity: 70-90, M3/h.  Function:  Fully automatic self-contained shuttle-valve with no electrical power  required for switching, Microprocessor based control panel with display.  Units of measure (psi/Pa/Bar).  LCD /LED display for the left bank, the right bank,& VIE Tank / Oxygen Generation System for the supply pressure.  Complete with relief valve, Emergency shut off valve and battery / bank  room alarm for left and right cylinder bank, pressure reducers of Tank Panel.  Service and maintenance works can be carried out without stopping  operation.  In built VIE Tank / Oxygen Generation System connection controlled by Manifold.  **ITEM 2**  **AUTOMATIC MANIFOLD FOR NITROUS OXIDE (2 X 5) 1 No,**  The Manifold shall be a fully automatic type & shall switch from "Bank  in Use" to "Reserve" bank with out fluctuation in delivery supply line  pressure&with out the need for external power after the switch-over  the "Reserve" bank shall then become the “Bank in Use" and the bank  in use shall become the reserve bank. The System should be able  maintain continuous supply in case of Power failure.  Capacity 10 - 50 M3/ h.  Function:  Fully automatic self-contained shuttle-valve with no electrical power  required for switching, Microprocessor based control panel with display.  Units of measure (psi/Pa/Bar) LCD / LED display for the left  bank, the right bank & for the supply pressure.  Complete with relief valve, Emergency shut off valve and battery / bank  room alarm for left and right cylinder bank.  Service and maintenance works can be carried out without stopping  operation.  **ITEM 3**  **WALL OUTLET.**  Outlet should have double lock quick connect and gas specific. The latch /  Locking release mechanism should be incorporated on the gas outlet with  Geometrical key indexing and should have a parking facility so that in the  Event of release of probe by pressing the spring loaded center, the probe  / Flow meter does not fall down.  Gas outlets wall mounted, Complete in Box/casing gas Specific, Self sealing  valve, indexed to eliminate interchangeability/erroneous tapping of gas  and cover plate.  Oxygen Qty.92 Nos.  Nitrous Oxide Qty.6 Nos.  Compressed Air 4/5 bar Qty.92 Nos.  **ITEM 4**  **Air Venturi System with Gauge 25 Nos.**  The injector should be connected to wall source of pressure gas using  Direct probe or rail mounting system. Max. Vacuum 650 to 700 mbar.  System should be supplied with 02liter Un Breakable &Sterilizable  Collection jar.  **ITEM 5(a)**  **Multiple Zone Valve Box with Monitoring Gauge forthree gases 3 No.**  Microprocessor controlled with digital display of pressure.  Each wall type zone valve box shall consist of the following Components.  A steel valve box which can house two to four shut-off-ball valve with tube  extensions.  **ITEM 5(b)**  **Multiple Zone Valve Box with Monitoring Gauge for two gases 4 Nos.**  Microprocessor controlled with digital display of pressure.  Each wall type zone valve box shall consist of the following Components.  A steel valve box which can house two to four shut-off-ball valve with tube  Extensions.  **ITEM 6**  **CEILING PENDANTS:**  Flexible Ceiling Type Outlets:  Oxygen 12 Nos.  Air 12 Nos.  N2O 6 Nos.  **ITEM 7**  **OXYGEN FLOW METER WITH HUMIDIFIER & PROBES: 80 Nos.**  With autoclave able and unbreakable humidifier bottle and probe.  **ITEM 8**  **COPPER PIPING (IMPORTED FROM UK, GERMANY, USA):**  Supply and installation of seamless copper pipe, deoxidized and  for use in **piped medical gas systems**,  Therefore it is guaranteed that the tubes are  leak-tight, free of pores, blisters etc, Tube  is drawn seamless, according to **HMT 2022 (HTM 02-01) Or equivalent**.  Material :-  Copper tubes, including fixing clips for  ceiling and walls, sleeves, reducers, tee's  bends and soldering material.  1350Meter Size 15 x 1.  1500 Meter Size 12 x 1.  **ITEM 9**  **ANESTHESIA SCAVENGING SYSTEM 6 Nos.**  Anesthetic gas scavenging systems designed to remove exhaled anesthetic  gas mixtures from operating theatres driven by Air/Oxygen at 05 bar or  through vacuum plant, anesthetic rooms and recovery area.  **ITEM 10**  Motor 7.5KW (10HP)  Each 10 HP Motor Produces 1200 Liters and 4 motor supplies 4800 Liters min when duplex compressor in use and more than 2400 minimum Liters per minute in each Skid Mount compressor with Hepa filter  Working Pressure: 9.5 KG/CM2G (135 PSI)  **Air Dryers**  2 x Dryer  Volume Flow Rate @ Inlet: 1200 lit/min @80 ⁰C  Max. Operating Pressure: 14 barg.  Max. Ambient Temperature: 45 ⁰C  Pressure Dew Point: +3 ⁰C  Power Source: 230V / 1PH / 50HZ  **Filtration**  2 x Pre-Filter – 1200 lit/min (3 Micron) ½”  4 x After-Filter – 1200 lit/min (0.01 Micron) ½”  1.9) By Pass System (Local with Imported Fittings):  Isolation Valves, Adaptors, Regulators & Pressure Switches.  **Electrical Panel**  Simple Controlled Electrical Panel, Pressure based Automatic Switching between Compressors, Contractors, Overload, Power Indication Lights and Circuit Breakers.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 86. | | **Telephone Set**  Panasonic/Sony/LG  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 43 |  |  |  |  |
| 87. | | **Split Air condition 1.5 Ton**  Haier/LG/Dowlance/Orient/Equivalent  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 20 |  |  |  |  |
| 88. | | **Refrigerator 11CFT**  Haier/LG/Dowlance/Orient/Equivalent  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 09 |  |  |  |  |
| 89. | | **Projector Multi Media**  Panasonic/Sony/LG  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 01 |  |  |  |  |
| 90. | | **Generator 550 KVA**  With installation  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 91. | | **Electric water cooler**  Local/import  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 8 |  |  |  |  |
| 92. | | **Computer with monitor complete set**  Core 3i  3.3 Ghz optical super combo  500 GB HDD  4 GB DDR 3 RAM  19” LCD Monitor  Key Board & Mouse  Laser Printer  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 23 |  |  |  |  |
| 93. | | **CCT SYSTEM**  Video format: NTSC/PAL Picture element : NTSC: 510(H) x 492 (V)  Horizontal resolution : 380 TVL  Video output : BNC 1.0Vp-p75 ohm  Sensitivity : 0.25 lux/F= 1.2  S/N Ration: over 48 B  Electronic shutter : 1/50 (1/60 ~ 1/100,00 sec)  Back light comp: On/Off switch  Auto Gain control : On/Off switch  Fluroscent : On/Off switch  Auto White Balance  Auto Iris : Video Drive  Gamma correction : 0.45  Sync Mode: l line locked with LL on2, internal Sync with LL off.  Phase control V-phase +/-90 °  ***Must be CE Approved***  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 94. | | **Ambulance Bolan**  Supply of Suzuki Bolan with ambulance fabrication  Work Details:  Sliding/Fix stretcher  Oxygen cylinder kit complete with O2 flow meter and humidifier.  First Aid box complete  Emergency lights on roof complete with siren and hotter  Stickers on outer body, mentioning name of each respective THQ Hospital and word “Ambulance” on front and back.  Attendant seats  Complete flooring  With all accessories equipments with kits, cylinder and resuscitating equipment .complete with lights and other fixture like dustbin.  In hooks, cervical neck collar, face mask necessary for the ambulance.  Optional Items  i. AED Defibrillator.  Make: UK/USA/EEC/Japan.  ii. Suction Machine  Oil free, pistion pump for ambulance use.  Make: UK/USA/EEC/Japan.  iii. Multiparameter monitor  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  ECG /SpO2/NIBP/RESP/TEMP  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* |  |  |  |  |  |
| 95. | | **Cold Storage (For Morgue)**  Morgue for 4 to 6 body Storage with modular construction.  Complete with 2 bay. 2 tier304 grade stainless steel storage cabinet, 80 mm high density rigid insulation polyurethane insulation chiller, Stainless Steel height adjustable racking & rolling system, 304 grade Stainless Steel body storage trays, 10°C to -5°C cooling system with digital control panel, body transport trolley.  Make: UK/USA/EEC/Japan.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 96 | | **Opthalmoscope**  Lens range: 0D + 1D – 10 / 15 / 20 / 40 D :  Aperture: Large aperture,small aperture, micro aperture, slit aperture, cobalt blue aperture & fixation aperture.  Filter: red free filter / Polarizing filter.  Operation mode: Intermittent, On-time should not exceed to 2 min with off-time not less than 5 mins.  Includes: Desktop charger & rechargeable handle.  Make: USA/EEC/Japan.  Should be FDA, CE & TUV.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 2 |  |  |  |  |
| 97 | | **Dry Cabinet Single Door**  Made from Imported Stainless Steel, Rush Resistant and satin finish  Local Manufacturers only can Participate directly  Must be CE Marked Product/ Export Quality  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 98 | | **Fax Machine**  HP/Samsung/Sony  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 99 | | **Laser Jet Printer**  HP/Samsung/Sony  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 11 |  |  |  |  |
| 100 | | **Nebulizer**  Nebulization Rate: 0 t0 70ml/hour  Air Volume Flow rate: 0 to 10 l/min  Mist Density: 105mg/min  HF frequency: 2.4MHz  Timer: 0 to 15min / continuous mode  Includes: mobile stand  Make: UK/USA/EEC/Japan  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 7 |  |  |  |  |
| 101 | | **Retinoscope**  Rotation: ≥190 degree  Length of streak image: ≥30mm  Width of Length image: ≥1.5mm  Operation mode: Intermittent, On-time should not exceed to 2 min with off-time not less than 5 mins  Includes: Desktop charger & rechargeable handle.  Make: USA/EEC/Japan.  Should be FDA, CE & TUV.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 5 |  |  |  |  |
| 102 | | **Cryo Machine**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 103 | | **Chelation Therapy Infusión Pump**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 5 |  |  |  |  |
| 104 | | **Crush Trolley**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 20 |  |  |  |  |
| 105 | | **Desktop Microscope**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 106 | | **Dispencer for Scrub solution**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 06 |  |  |  |  |
| 107 | | **Electrocautery Unit**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 108 | | **Endoscope reprocessor**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 109 | | **Fiber Optic Dilaters**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 110 | | **Fine Set for Plastic & Vascular**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 4 |  |  |  |  |
| 111 | | **Fracture distractors**  Large Distractor complete  Threaded Rod ø14.0 mm,  length 480 mm, for Large Distractor  hreaded Rod ø 14.0 mm,  length 330 mm, for Large Distractor  Nut, knurled, for Large Distractor  Large Distractor – Tibia Technique Guide  Sliding Carriage with Adjusting Nut,  Double Joint, complete,  Holding Sleeve with Wing Screw,  length 55 mm, internal diameter 6.0 mm,  Holding Sleeve with Wing Screw,  length 105 mm, internal diameter 6.0 mm,  Drill Sleeve 5.0/3.5, long  Drill Sleeve 6.0/5.0, long with thread  Instrument Set for Large Distractor  in Sterilization Tray  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 112 | | **Gastroscope**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV.  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 113 | | **High Quality magnifying Loupes**  **Local Manufacturers only can Participate directly**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply of equipment to the consignee end* | 1 |  |  |  |  |
| 114 | | **Lift** | 1 |  |  |  |  |
| 115 | | **Locker Rack Metal**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 4 |  |  |  |  |
| 116 | | **Operating Table**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 1 |  |  |  |  |
| 117 | | **Rotary Sealing Machine with work station**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 118 | | **Stroboscope with Monitor**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 119 | | **Submersible pump for Tube well**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 120 | | **Sub Station Equipment** | 1 |  |  |  |  |
| 121 | | **Suction Machine**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 29 |  |  |  |  |
| 122 | | **Surgical Chair**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 2 |  |  |  |  |
| 123 | | **Surgical Magnet**  Make: USA/EEC/Japan.  Should be FDA, CE & TUV. | 1 |  |  |  |  |
| 124 | | **Syringe Cutter**  **Must be CE Marked Product/ Export Quality**  *Warranty period shall be of three years starting from date of supply o f equipment to the consignee end* | 7 |  |  |  |  |
| 125 | |  |  |  |  |  |  |