

**TECHNICAL SPECIFICATION**  
**BLACK & WHITE ULTRASOUND SYSTEM**

Real time high resolution, ultrasound complete unit best for abdomen, Obs/Gyn, General use, small parts & peripheral vessels. Capable of high quality images, complying best and latest technology and should be future clinical needs.

**1. Technical specification:**

Ultrasound scanner with integrated trolley with probe, soft touch alphanumeric key board with track ball (size to be mentioned)

- With panel switches & controls easily operable
- Integrated High Resolution TFT/LCD Monitor 15" or more
- Probes & Gel holder-conveniently placed
- Standard accessories, manual, catalogue of quoted model.

Following Transducers is to be supplied:

2.0-5.0 Mhz. Multi Frequency Convex Transducer — One

**2. Technical Data:**

- All probes should be electronic transducers and multi frequency preferably three frequencies and should give Aperture & depths of scanning.
- Controls for Depth, gain compensation, body markers with transducers scanning depth 30 cm or more.
- Real time Continuous dynamic focus.
- Auto Annotation facility anywhere on image.
- Image display in B, B/M & M Mode (2B&2D)
- Zoom facility minimum five times and scrolling.
- Shades for grey 256
- Inbuilt cine memory.
- Unit should be capable of measuring BPD, CRL, FL, AC and other GA parameters.
- Facility for image magnification, inversion, changing, scan, direction, freeze facility.
- 8 Step STC/TGC should be available.
- Frame rate minimum 50 FPS.
- Minimum 200 patient's memory.
- Minimum 5 independent programmable switches.
- Caliper with trackball for the measurement of distances circumferences, area volume etc.
- Should be possible to make different measurement on single image.
- Alphanumeric keyboard.
- Panel Switches & foot controls.
- Patient reports for Obs / Gyn including fetal growth trend, including Histogram facility for tissue Texture & Trend graph for IUGR cases, Urology and orthopedics.
- Give the gain adjustable/Range & its steps.
- Calculations needed; Velocity, Heart rate, Volume addl. Modes.

**3. The System should have the following Accessories:**

- Sony/ fuji make B&W thermal printer with 50 rolls
- One KVA Online suitable UPS.
- 1.5 Ton 5 Star split AC with voltage stabilizer should be supplied with machine with complete installation (Hitachi/ O-general/ DAIKIN/ Mitsubishi).

**Additional Requirements for A/C unit:**

- 3 mtr copper piping with superlon insulation for suction line (copper pipe of minimum 0.70 mm thickness)
- 3 mtr copper piping with superlon insulation for Discharge line (copper pipe of minimum 0.70mm thickness)
- 3 mtr PVC piping for drain or as required (15mm dia. flexible type)
- 3 Mts. Indoor-Outdoor unit connecting power cable and required cable from power socket to stabilizer and from stabilizer to A.C. unit with suitable MCB box & power socket top plug.

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- Base plate for hanging indoor unit
- MS Stand for outdoor unit

**4. Other Requirements:**

- **Guarantee:** Three years on unit including probes & AC from the date of the installation.
- **CMC:** CMC may be given for seven year (on yearly basis) after guarantee period of three years.
- The product should be USFDA/European CE approved. (valid documentation should be submitted in technical bid)
- The manufacture should be ISO-9001: 2008 & ISO-13485: 2003 certified. (valid documentation should be submitted in technical bid)
- The company should submit technical compliance sheet as per technical specifications mentioning the make & model of quoted item in the Technical bid.
- The company should have a local Service center.
- Installation will be done by supplier free of cost.
- An uptime of 98% is to be ensured during guarantee & CMC period
- The Company should submit original catalogue and data sheet (signed & stamped) of quoted item at the time of bid submission. Any declaration/ undertaking in this regard shall not be considered.

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**Executive Director (EPM)**  
**Rajasthan Medical Services Corporation Ltd.,**  
**Jaipur**