CARDIO-THORACIC & NEURO-SCIENCES CENTRE
AIIMS, NEW DELHI – 110029
DEPARTMENT OF NEUROSURGERY

Prebid meeting held on 08/04/2026

Ref.: T. No. 165/CNC/NS/2025-26/St.

Specification of **High End Intraoperative Ultrasound for Surgery (MII List Sr. No.190)**	**Quantity: 01No.**

Revised Technical Specifications

1. Should have High Resolution Imaging and Doppler for Clinical Needs
2. Should have short boot time
3. Should have graphic processing unit for faster work processing.
4. Should have speckle reduction technology for enhancing tissue margins for better anatomical visualization and to improve better organ anatomy from different angles
5. Should have optimization of ultrasound image formation by using multi-channel synthesis technology to reduce noise and artifacts or equivalent property
6. 19" or more flat panel monitor, should have **Articulated Arm and optional facility to swivel and Portrait and Landscape rotation to fit in compact space of busy OR.**
7. Should have **glass touch/touch keyboard** interface for easy cleaning and Disinfection. Keyboard user interface should have at least 10" LCD display. Keyboard user interface should have touch and haptic feedback capabilities. Keyboard user interface should be fully customizable and should have facility to change / remove necessary buttons to the display so that display looks simple for operator.
8. Should have height adjustable mechanism with control panel.
9. Should have facility to compensate the motion related imaging artifacts
10. Should have technology to maintain auto focus/pixel focussing for entire imaging depth
11. System should have auto axial and lateral gain facility
12. Should have DICOM capabilities
13. Should have Wifi capabilities
14. Should have storage for ultrasound images. Minimum 500 GB.
15. Should be able to integrate with existing GE PACS in CN centre or any other future PACS system. Integration will be the responsibility of the ultrasound vendor.
16. Should have 3D freehand facility optionally
17. Should have an internal hard drive to store images
18. Should be of latest generation digital beam former technology
19. Imaging Modes: System should have following modes: B mode, M Mode, Color Doppler, Power Doppler, Pulsed Wave Doppler, Continuous Wave Doppler, Tissue Harmonic Imaging
20. Should have facility to connect at least four transducers
21. Transducer should have pin less connector for easy insertion and to reduce noise
22. Should have wireless sterilizable remote control/foot switch for surgeon's control from sterile field
23. System should have Neurosurgery application package
24. System should be able to communicate with surgical robot software (optional feature, price to quoted separately)
25. System should have digital/manual integration with brain lab system
26. Cranial Probe – 02 Nos., Burhole Probe-01 Nos., Hockey Stick Probe-01 Nos.
27. **Should have facility to allow compare between previously stored image from live ultrasound image with the same size.**
28. **Should allow to choose up to four stored images from the exam to assess various views of Ultrasound images acquired during different stages of the procedure.**
29. **Should enable comparison between previously saved image or clip to live ultrasound image.**
30. **System/online educational videos to train or refresh memory of the surgeon or nursing staff on Transducer orientation, how to connect needle guides / biopsy attachments etc.**

31. The following transducers are to be supplied along with the scanner: The cost of these transducers must be quoted separately.
    i. No of cases for which reusable probe can be used should be certified by parent company to enable life cycle cost comparison with competition.
32.
    i. 5-13MHz multi frequency micro convex transducer with small footprint suitable for scans after craniotomy. Should be compatible with all modern sterilization methods like, immersion, Sterrad and Steris. Should be supplied with disposable/reusable biopsy attachment. Transducer should have programmable **button/ foot switch to enable** start, stop and switching of Transducers.
    ii. Burr Hole transducer: Should have frequency falling in range between 3-11 MHz, with small footprint. Should fit in burr hole to be utilized during ventricular taping/shunt placement and spine studies. Should be compatible with all modern sterilization methods like, immersion, Sterrad and Steris. Should be supplied with disposable biopsy attachment. Transducer should have programmable button/footswitch **to enable start, stop and switching of Transducers**.
    iii. 6 to 15 MHz High frequency intra operative linear array transducer with optionally deflectable tip for getting access to hard-to-reach areas. Should be compatible with all modern sterilization methods like, immersion, Sterrad and Steris. Transducer should have programmable button/footswitch to enablestart, stop **and switching of Transducers.**
33. The system must have USFDA and CE approval and Equivalent to Indian Standard Certificate. USFDA certificate and CE certificates must be submitted separately. The company should also provide a list of its installations in India, along with 5 different contact numbers/details of end users for feedback.
34. System must be provided for live demonstration during surgery in neurosurgery department for more than a week. All items and software as are being quoted should be made available to users for technical evaluation.
35. Any deviations from the specifications must be highlighted prominently and must be brought to the notice of the user department at the time of technical evaluation. A table regarding this must be submitted with the bid document and every point as mentioned in the specifications must be answered as yes/no or feature present/absent. Non-compliance/false information in this regard will mean automatic disqualification.
36. Service centre should be in Delhi/NCR and service engineer must be available during routine hours.
37. The cost of every consumable and spare part must be quoted separately. User department will not be liable for separate payment of any spare part, that has not been quoted earlier, in case of any malfunction. This item will be considered as covered under the warranty/CMC agreement.

OTHER TERMS & CONDITIONS

1. The cost of all Consumables/Accessories/spares/parts should be quoted upfront and should be valid for 10 years. Cost of any Consumables/Accessories/spares parts not quoted will be considered **FREE OF COST**.
2. Warranty: **02 years onsite comprehensive** (including labour/accessories/spares parts) **+08 years CMC** (including labour/accessories/spare parts).
3. In no case the instrument should remain in non-working condition for more than 7 days, beyond which a penalty as the per the rules of the institute will be levied.
4. The vendor should have a good service and application back up along with instruments to provide an effective trouble shooting and support. (response time < 24 hours).
5. Original Manufacturer or their subsidiary or authorized dealer who is quoting should be present in India having selling experience of more than 5 years with at least 5 installations in government institutes/hospitals.
6. **Demonstration is Mandatory, failing which your bid will be disqualify/rejected.**
7. **The date of delivery for Hockey Stick Probe should be at least 6 months.**