Notice Inviting e-Tender

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Supply and Commissioning of Various Medical Equipment for the ENT Department of Midnapore Govt. Medical College and Hospital

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT–005/2024	**Dated–02.01.2024**

2nd call for Bid Reference No. WBMSCL/NIT-636/2023 Dated : 31.10.2023

Amendment-I

REVISED TECHNICAL SPECIFICATION
Schedule – VI

Navigation System for functional endoscopic Sinus surgery

ENT Navigation system:–

ENT navigation system should include below features:–
1. High performance image–guided surgery platform that works with window/linux/unix/ operating system environment
2. System should have low/economical recurring disposables cost.

3. System should offer DICOM, HDMI, CD/DVD/, USB data transfer to navigation system
4. System should offer external input panel for HDMI, S,Video, BNC, USB and network ports.
5. System should offer 1 monitors one for surgeon and one for technician. Surgeon monitor should be of minimum 27" and or suitable size full HD and one touch screen tablet as an additional monitor.
7. System should have inbuilt UPS.
8. System should have digital multiaxial stabilization system.

Instruments:-

1. Instrumentation should be designed specification for image guided surgery.
2. System should have wireless active or passive instrument tray containing a.straight suction b.70 degree suction c.90 degree suction d.straight probe e.patient head frame f.Registration probe
3. System should offer total control of software from sterile field.
4. No additional personnel required to run the system during surgery.
5. Durability: Instruments should be autoclavable.
6. Integrated instruments along with universal adapter kit to navigate hospital trolley instruments like suction, drills, etc.
7. Validation of navigable instruments can be done easily.
8. System should provide Recalibration of factory calibrated navigable range of instruments in case instrument alignment is out.
9. The system should provided dynamic referencing so that registration is not lost even of patient & camera moves.
10.system should have all types of navigated blades
11.system should have navigated maliable suction
12. **Certification** : The system should be either USFDA / Euripean CE (four digit notified body)/CE/UKCERT/CDSCO/TUV/BIS

ENT Softwarwe:-
 Thesoftware is the interface that links the surgeon to the navigation system and should be:-
1. User friendly software and intuitive.
2. Easy to maintain and support.
3. System should accept image fusion/ correlation between multiple CT images.
4. System should be able to view to see 3-D image of patient anatomy.
5. System should have annotation points which can be seen during surgery.
6. System should give audio feedback during registration.
7. System should incorporate rescue points to reciver navigation registration during surgery in case of registration accuracy loss during surgery.
8. System should be able to mark danger areas & system should alert when reaching the market areas.
9. System should have ENT work flow oriented sequences.
10. System should provided easy and fast registration process.
11. System should provided pinless navigation.
12. System should be capable of doing following procedures:-

 oo Endonasal Apporoach

ọọ Trans Nasal <mark>Approach</mark>
o ENT workflow oriented sequences
o Capable for FESS & Skull base surgeries.

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Should have the feature of following registration:-
o Paired points (sticky markers or anatomic landmarks)
o Surface matching (fiducial-less: no image add-on on preoperative)
CT/MRI/CTA/MRA/DTI/FMRI/PET/SPECT images)
O Automatic Registration
NOTE: Any other essential hardware/software/items required to make all above things functional should be quoted, otherwise it will be treated that same will be supplied free of cost.
All products should be same manufacturer
Certification : Should have any one of the following certificates US FDA / European CE (four digit notified body)/CE/UKCERT/TUV/CDSCO/BIS