

अखिल भारतीय आयुर्विज्ञान संस्थान ALL INDIA INSTITUTE OF MEDICAL SCIENCES

साकेत नगर भोपाल (मध्य प्रदेश) — 462020 Saket Nagar, Bhopal (M.P.) - 462020 web site: www.aiimsbhopal.edu.in

Ref. No.: Stores/2023-24/ENT-SurgerySimulator/2199

Dated: 22/03/2023

Subject: Regarding Procurement of "ENT Surgery Simulator, Make: "VOXEL-MAN, Eppendorf, Germany" on Proprietary basis -<u>Inviting</u> comments thereon.

The request received from Department of ENT-HNS, AIIMS Bhopal for the procurement of **ENT Surgery Simulator, Make: "VOXEL-MAN, Eppendorf, Germany** on Proprietary basis", through its Indian Supplier M/s DSS Imagetech Pvt. Ltd., New Delhi, on Proprietary basis.

The Notice is being uploaded for general information of Aspirant Manufacturer/Dealer/ Distributor to submit their objections/proposal, if any, on proprietorship of these items.

In case, the product of any Manufacturer/Authorized distributor/dealer conforms to the enclosed specifications, they may submit their proposal for the supply same item along with the following:-

- (i) Details of the required product brochure;
- (ii) Point-by-point compliance of the enclosed specifications, along with all relevant documentary evidence.

The objection/ proposal should be sent in sealed cover to, The I/c Senior Procurement cum Stores Officer, 1st Floor, Service Building-II, AIIMS, Saket Nagar, Bhopal (462020) so as to reach on or before **29/03/2023** upto**17:00 Hrs.,** failing which it will be presumed that no any other vendor is interested to offer comments/protest and case will be decided accordingly on its merit.

The reference number: Stores/2022-23/ ENT-Surgery Simulator/2199, Date:22/03/2023, due on: 29/03/2023 should be super scribed on sealed envelope.

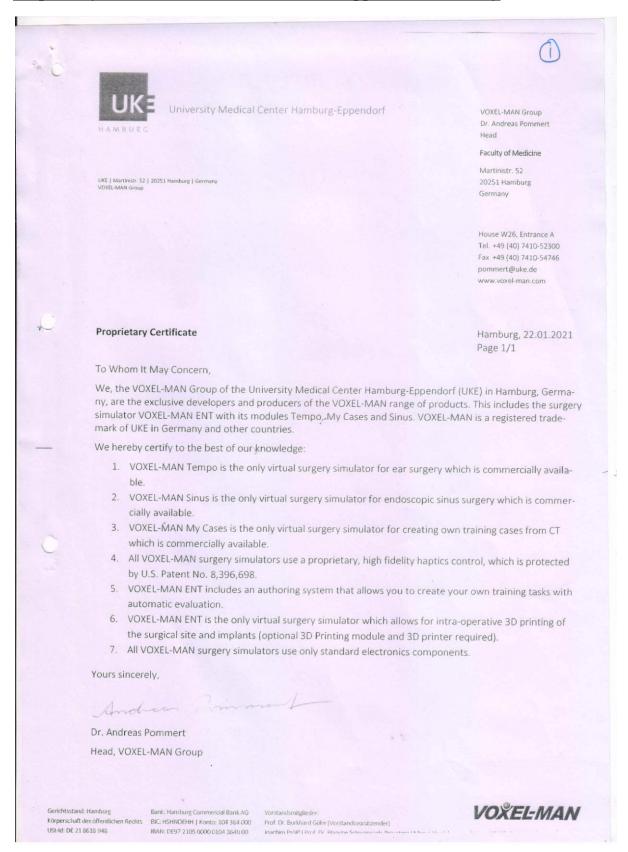
Yours Faithfully,

Sd/I/c Senior Procurement cum Stores Officer
Central Stores,
AIIMS Bhopal

Enclosure:

- 1. Proprietary Certificate M/s VOXEL-MAN, Eppendorf, Germany
- 2. Authorization Certificate M/s VOXEL-MAN, Eppendorf, Germany
- 3. Technical Specifications of Product
- 4. Schedule of Requirement

Proprietary Certificate - M/s VOXEL-MAN, Eppendorf, Germany



Authorization Certificate - M/s VOXEL-MAN, Eppendorf, Germany



Technical Specifications of the item



Specifications for ENT Surgery Simulator

The simulator features should be highly realistic with force feedback, movements of the patient or endoscope should be real time, pre-defined tasks with automatic skills assessment, bleeding and suction, authoring your own cases and tasks, online updates, and a compact setup with a 3D flat panel display.

- · System should have wide spectrum of cases
- · Should have automatic recording and administration of training results
- Should have objective evaluation of performance (skills assessment)
- Reduced need for supervision
- Reduced need for cadaveric specimens
- · Reduced laboratory and material costs
- · Should have ability to training with own patient cases
- Ideal as warm-up prior to an intervention

Basic Hardware

- System should be table mounted for the ease of working
- The workstation should have the ability to adjust height as per the training requirements
- · Should have a 3D flat panel display
- Working table should have two agronomic arm rests
- Two force feedback devices whose styluses serve as instruments (e.g. drill, endoscope, suction)
- Should have a space navigator for controlling the viewing direction and magnification
- . Should have a keyboard in a drawer and a mouse
- · The computer hardware should be placed below the table for the easy operations
- · Should have a foot pedal for controlling the drill.
- · System should be offered with 3D optical glasses

User Interface and Display

- · System should have fully graphic user interface
- Should have 3D display of the patient, with 3D glasses for tempo cases
- Should have endoscopic camera view for sinus cases
- Patient may be freely positioned and zoomed in real time, using a space mouse
- System should offer navigation aids for the novice, that may be switched off for the advance users
- Navigation CT with three orthogonal cross-sectional images of the patient at instrument position, with removed tissues marked
- Should have warnings about structures at risk near the instrument (Tempo, Sinus)
- Acoustic facial nerve monitor (Tempo)

Virtual Patient

- · Should have below modules
 - a. Temporal Bone Surgery
 - b. Endoscopic Sinus Surgery
 - c. My Cases
- 7 (Tempo) resp. 2 (Sinus) pre-defined training cases, representing natural variability
- Should have visualization of bone and major structures at risk (Tempo, Sinus)
- Possibility to upload own patient cases from CT or CBCT in DICOM format and work on bone model (My Cases)

Virtual Instruments

Instrument movement controlled with force feedback device

Carely

- Metal and diamond burs of various shapes and diameters, controlled with foot pedal
- Straight and angular endoscopes, variable angle of view (Sinus)
- Debrider, controlled with foot pedal (Sinus)
- Blakesley forceps, ostrum antrum punch, ethmoid cutter (Sinus)
- Visual, haptic and acoustic feedback

Recording Ability

- Preparations and results are automatically stored and may be recalled by trainee and/or tutor
- Video capture of complete session
- Visualization of learning curves of individuals and groups

Tasks and Skills Assessment

- Pre-defined tasks for selected cases for antrotomy, mastoidectomy (with various subtasks), and open mastoid cavity, with automatic skills assessment based on master preparations
- Should alert when approaching or injuring structures at risk
- Possibility to define own master preparations and tasks

Software Updates

Should have facility to download the latest software updates as when offered by the company

Schedule of Requirement:

S.No	Particular's	Quantity	Manufacturer
1	ENT Surgery Simulator	01	VOXEL-MAN, Eppendorf, Germany through its Indian Supplier M/s DSS Imagetech Pvt. Ltd., New Delhi

^{**} Note: Please don't quote the prices of the above schedule requirement