

When was it last purchased?

In what quantity?

Cost;

3

Source

Test/ procedures done in this period:

Revenue generated in this period:

Average annual consumption

Shelf life

Period for which this purchase will last Number of tests likely to be done with this quantity:

5. For furniture, please provide the following information:

Exact location and use

Existing furniture at that place

Justification for this purchase

Possible sources (name all sources you know) from where item may be obtained (name, address, phone no, fax no, email, etc of contact person)

डॉ० जितेंद्र चतुर्वेदी
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एम्स काशी/AllMS, Rishikesh

INDENTOR

Signature.....

Name..Dr. Jitender Chaturvedi... Dr. Nishant Goyal

Designation..Assistant Professor.. Assistant Professor

Date..... डॉ० निशान्त गोयल

Phone/Pager Dr. NISHANT GOYAL
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HEAD OF DEPARTMENT/SECTION

Signature.....

Name..Dr. Ragnish K. Arora

Designation..Associate Prof. & Head

Stamp..... डॉ० रघुनीश कुमर अरोड़ा
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<p>destination.</p> <p>e. The system must offer live video streaming to a wireless device or a network IP address.</p> <p>f. The system must provide an interface and a function for fast internet remote diagnosis to be operated via the central touchscreen user interface.</p> <p>g. In addition to monitors on base unit an External 55" 4K 3D video monitor, with mobile stand should be provided.</p> <p>12. Should operate between 220 v 50-60 Hz fitted with Indian type plug</p> <p>13. 100 sterile drapes and an additional hard disc of 2 TB capacity (not requiring additional power) should be provided along with.</p> <p>14. A macintosh based latest generation desktop computer of 21" or more screen size, at least 16 GB RAM, 1 TB or more ROM, with pre-installed genuine video editing software should be supplied along</p>			
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3. For equipment, please provide the following information

Detailed description of the actual use of the equipment- **required for nearly all modern day neurosurgical procedures.**

Is the equipment to be used for patient care or research: **patient care**

If both, state % of time to be used for patient care: % of time to be used for research **NA**

Is this/ similar equipment already available in the department? **No**

When purchased? Cost at that time: Present functional status:
Tests/ procedures done on this equipment in last year:

Revenue generated by this equipment in last year:

If yes, what is the justification for this purchase?

Is this/similar equipment available in any other department in the Institute?

If yes, what is the justification for this purchase?

4. For Consumables, please provide following information:

Description of stocks available

Man

A

Spine

Man

light image both in the oculars as well as on the monitor.

- j. The system must offer Picture-in-Picture functionality for the infrared and white-light image. The fluorescence-based video angiography system must support parfocal recording of white light and near infrared fluorescence detection for all working distances and zoom settings without requiring manual adjustments.

9. Stand:

- a. should offer easy maneuverability and transport with a contrives Technology
- b. The system must be able to operate without counterweights that increase the required floor space opposite of the system
- c. The system must be able to automatically move to a parking position-should park in its parking position commanding from user interface
- d. The system must be able to automatically move into a draping position, which can be adapted/changed by the end user, to assist the draping of the system.
- e. The system must offer an electronic dampening system to increase stability of the microscopic view.
- f. The system must provide an automatic balancing of all system axes without any manual interaction or axis adjustments.
- g. The automatic balancing of the system must be possible in any position within the system head tilt and swivel movement range.
10. **Draping** of the system must be facilitated by an automatic air vacuum.

11. Data management / Networking / Connectivity:

- a. The system must offer a function to wirelessly upload demo licenses to activate specific product functionality.
- b. The system must feature a Wireless LAN Access Point to access patient data files as well as video/photo files.
- c. The system must be able to connect to a network storage and upload/download pictures and videos.
- d. The system must be able to connect to a network storage and offer parallel recording ~~of~~ this

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- g. The integrated Micro-Inspection Tool must be fully autoclavable and machine washable.
- h. The integrated Micro-Inspection Tool must use an angled design to ensure a free line of sight through the system on the situs.
- i. The integrated Micro-Inspection Tool must use a working distance between 5 mm and 30 mm for Neuro and Spine applications without the need to refocus.
- j. The integrated Micro-Inspection Tool must feature an automatic off mode.
- k. The system software must provide a function to digitally align the viewing direction of the integrated Micro-Inspection Tool to the system.

8. **Intraoperative fluorescence/angiography:**

- a) The system must offer an option for fluorescence-based video angiography detecting with Full-HD resolution.
 - b. fully integrated (not requiring additional hardware components) blood flow assessment tool supporting objective analysis of ICG based video angiography data.
 - c. should provide an objective summary of the ICG fluorescence distribution in the recorded field of view supported by color encodings.
 - d. Should provide a summary to objectively assess the sequence of the fluorescence appearance in the recorded vessels.
 - e. The analysis tool must provide a summary supporting the interpretation of blood flow speed.
 - f. An optional setup phase for indocyanine green (ICG) video angiography guiding in optimal adjustment for blood flow assessment must be available.
 - g. The system must provide automatic fluorescence detection in order to skip blank recording sequences when replaying the fluorescence video.
 - h. The system must provide a functionality to automatically adjust the brightness of the ICG video to avoid overexposure.
 - i. The system must be able to show an overlay of the ICG fluorescence signal on the white

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Peta

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4. Hand grips-

- a. should be multifunctional, user programmable and adjustable. There should be magnetic clutches to all system axes. It should be possible to balance and move the microscope by a single press of button.
- b. XY robotic movements should be possible in 6 axes with variable speed
- c. The XY lateral movement should be motorized.
- d. The system must be able to offer a manual movement function, allowing for positioning the system freely within the entire working distance range while keeping the focal point in the center of the field of view ("manual PointLock").
- e. The system must offer a motorized positioning function from the handgrip and Foot Control Panel (FCP) to change the viewing angle to the focal point in the center of the field of view. ("Motorized PointLock").
- f. The system must offer a function to memorize focal point positions.

5. Mouth switch facility is required

6. **A wireless foot control paddle** should be provided

7. Integrated Micro-Inspection Tool

- a. The system must include a stand integrated Micro-Inspection Tool for endogenous visualization of tissue out of the line of sight of the system
- b. The integrated Micro-Inspection Tool must simultaneously provide a straight look and a 90° view without changing optics
- c. The integrated Micro-Inspection Tool must feature a HD resolution.
- d. The integrated Micro-Inspection Tool must not require additional footprint in the OR.
- e. The Central Computing Unit, Recorder, User Interface and Monitor of the integrated Micro-Inspection Tool must be integrated into the system.
- f. The recording system must be able to capture the microscopic and integrated Micro-Inspection Tool view into a single stream.

John

A

Gunn

P. B. B.

- d. **Focus** : system should have 2 dot laser auto focus and have point lock focus , focus of the system should not disturb while moving the head of the system

2. **Camera:**

- a. Integrated stereo video 4K, 3D, 2 x 3chip, 2160p camera without any external attachment and without externally visible wire, the quality of 3D camera should be good enough to operate with the help of 3D monitor itself.
- b. Facility of integrated HD video recording and editing should be there with inbuilt Hard drive of adequate memory (give details of hard disc memory).
- c. Data retrieval should be possible by USB 3.0 and/or DVD

3. **Eye pieces & tubes-**

- a. 12.5 X magnetic wide field eye pieces with integrated eye cups, adjustable / suitable even for glass wearers from -5 to +5 diopters.
- b. Face to face attachment for spinal surgery
- c. Stereo co observation binocular tube
- d. Tubes must be available that can be stretched & folded; providing a comfortable working position during surgery
- e. Tubes should provide an integrated magnification changer facilitating Procedures where high magnifications are needed. (Foldable tube f170/f260, including the facility for additional 50 % magnification and integrated rotate function)
- f. When tilting the system head laterally the co-observer tube must not move in order to reduce intraoperative rebalancing.

AIIMS RISHIKESH**INDENT FOR PURCHASE OF STORES****(FORM P-2)**

1. Please fill a separate form for each item
2. Please fill completely in triplicate. Incomplete forms and those with illegible writing may not be accepted.

Specifications	Quantity	Approx. unit cost	Total cost
<p>An operating microscope with on table angiography facility as well as integrated camera is required for department of neurosurgery</p> <ul style="list-style-type: none"> • Should have USFDA and ECE certifications • Warranty of 5 years followed by CMC of 5 years • Rates of all accessories and consumables (eg drapes) should be quoted along with and these will be free zed for 2 years. <p>Technical specifications-</p> <ol style="list-style-type: none"> 1. Optics: <ol style="list-style-type: none"> a. Motorized zoom- 0.4-2.4 X (zoom ratio 1:6) b. Working distance: system should have working distance 200 to 625 mm. (The total working distance range must be at least 425 mm without changing or adding lenses) c. Light source : 2 x 300 W xenon lamps (or better) with automatic lamp exchange. • The system must offer an electronically controllable second light beam path to brighten up shadowed areas in the field of view. • In order to protect tissue from inadvertent light exposure the system must offer respective safety mechanisms. <p>System information when exceeding individual light threshold, automatic iris control for adjusting illumination linked to working distance. Surgeon and assistant must be able to see commonly used system parameters, such as working distance, magnification and light intensity, within the field of view in the oculars.</p>	One unit	4.5 crores	4.5 crores

P-3 FORM

(to be attached with P-2 form for Proprietary items)

AIIMS Rishikesh

PROPRIETARY ARTICLE CERTIFICATE

It is certified that the items - operating microscope with on table angiography facility as well as integrated camera required in the P-2 form should be purchased from m/s Carl Zeiss limited. To the best of my knowledge m/s Carl Zeiss limited, are the sole manufacturer/agents for above item,

Similar items manufactured by other firm(s) shall not be suitable for our purpose for the following reasons:-

To the best of our knowledge, facilities of focal length of 625 mm which allows maximum working distance, ability to lock focal point while moving the microscope, integrated endoscopic tool, and blood flow analysis module for angiography are available only in microscope made by m/s Carl Zeiss limited.

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Jitender
(Sign of Indenter)

Dated

Designation Assistant Professor

Department Neurosurgery

Recommendation:

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Assistant Professor
Neurosurgery

Signature of Head of Department/Section

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N. S. Prasad
Dr. N. S. Prasad

N.B.: The indenter before recording the above certificate should satisfy himself that the article is genuinely of proprietary nature manufactured under patent laws.