

भारत सरकार  
GOVERNMENT OF INDIA  
चिकित्सा अधीक्षक का कार्यालय  
OFFICE OF THE MEDICAL SUPERINTENDENT  
सफदरजंग अस्पताल  
SAFDARJUNG HOSPITAL  
नई दिल्ली - ११००२९  
NEW DELHI - 110029

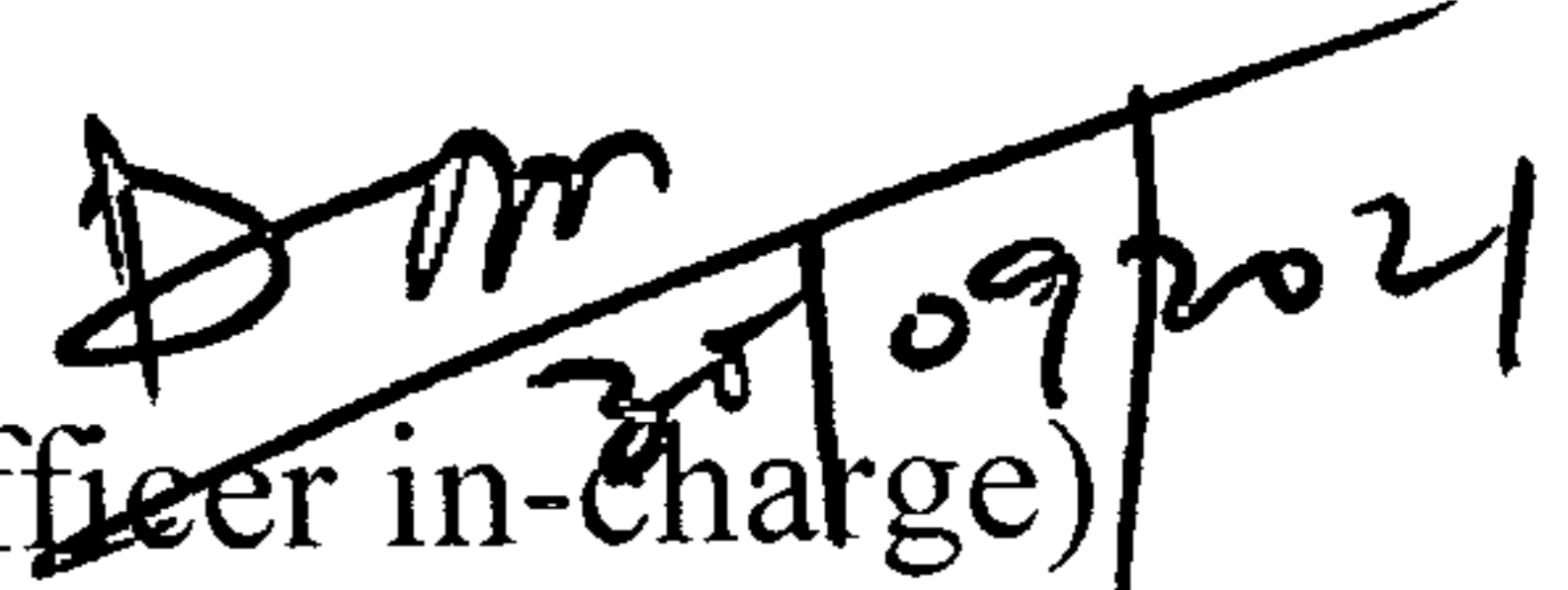
No. Q-1(12)M&E/2021

Dated: 30.09.2021

**Notification for procurement of the Proprietary Item**

This hospital proposes to procure the item "C-Mac Video Laryngoscope System with D-Blade with Flexible Intubation Video Endoscope (Five)" Qty. 01 Set (One Set) for the department of Anaesthesia (Make Shift Hospital for Covid-19 patients) of this hospital, proprietary basis. The Approx. cost of the item is Rs. 90,00,000/- (Rupees Ninety Lakh only) and the manufacturer firm is M/s Karl Storz Se & Co. KG, Germany.

If any bidder has any query/clarification about the status (Proprietary) of the item to be procured, the same may be sent to the Officer In-charge, Machinery & Equipment Section, Safdarjung Hospital, New Delhi-110029 or email at [officericme@vmmc-sjh.nic.in](mailto:officericme@vmmc-sjh.nic.in) on or before 31.10.2021.

  
(Officer in-Charge)

Machinery & Equipment Section  
Officer-in-Charge (M&E)  
वीएमएमसी एवं सफदरजंग अस्पताल  
VMC & Safdarjung Hospital  
नई दिल्ली-110029 / New Delhi-110029

## Specifications for Flexible Intubation Video Endoscope

Laryngoscope required with video illumination to visualize and document the operational area on screen. It should consist of following features:

### Monitor

- Screen 8 to 12 inch in size for display with touch screen to control features with HDMI output for connecting to a big screen which can display picture simultaneously on both screens.
- Monitor should have two ports to connect two flexible scopes at one time and picture can be swapped using touch screen.
- Monitor should be chargeable, to be supplied with charger and should have facility to be used while charging.
- Monitor resolution should be minimum 1920 X 1200 pixels in 16:9 format.
- Integrated recording of Video & still images should be possible on data card or USB drive with JPEG and MPEG format which can be easily transferred to the computer/laptop. Documented videos & still images should be easily recalled on the monitor.
- Monitor should have a facility to connect flexible scope directly without any special coupler or accessory.
- Monitor should have Picture-in-Picture & side-by-side mode to view images from 2 different flexiblescopes.
- Monitor should be splash proof according to IP 54 and should be shock resistant.
- Monitor should have lithium-Ion rechargeable batteries and run for at least 100 mins.when fully charged.
- Soft bag from same manufacturer should be supplied to place the monitor and system can also be operated without taking monitor out from the bag.
- Adult and Pediatric angulated Magill forceps from same manufacturer to be provided for foreign body removal and for assisting nasal intubation while using blades

### Flexible Intubation Video Endoscope - Adult

- It should be light weight, high resolution & potable flexible scope.
- ET TUBE HOLDER should be a part of standard accessory of flexible scope and should be from same manufacturer.
- There should be 5 cm interval markings on the scope.

*R. Singh*  
*M. R. Singh*

- Set should include- Suction Adaptors (Disposable), Cleaning brush & Leakage tester as standard accessories along with carrying case.
- Scope should be suitable for following applications-
  - Bronchoscopy
  - Endotracheal Intubation-nasal/oral
  - Foreign body removal
  - Bronchial Lavage
  - Inspection of the Airways
  - Dilatation Tracheotomy
- Technical Details of Flexible Video Endoscope-
  - Tip deflection UP/DOWN: 140°-160°/140°-160°
  - Angle of view 90-100 degrees
  - Working Length: minimum 65 cm or more
  - Total length: at least 90-100 cm
  - Working Channel diameter: max. 2.1 mm or less
  - Distal Tip Outer Diameter: 5.2mm - 5.7mm

Flexible Intubation Video Endoscope - Pediatric

- It should be light weight, high resolution & portable flexible scope.
- ET TUBE HOLDER should be a part of standard accessory of flexible scope and should be from same manufacturer.
- There should be 5cm interval markings on the scope.
- Set should include- Suction Adaptors (Disposable), Cleaning brush & Leakage tester as standard accessories along with carrying case.
- Scope should be suitable for following applications-
  - Bronchoscopy
  - Endotracheal Intubation-nasal/oral
  - Foreign body removal
  - Bronchial Lavage
  - Inspection of the Airways
  - Dilatation Tracheotomy
- Technical Details of Flexible Video Endoscope-
  - Tip deflection UP/DOWN: 140°-160°/140°-160°
  - Angle of view 90-100 degrees
  - Working Length: minimum 65 cm or more
  - Total length: at least 90-100 cm,
  - Working Channel diameter: max.1.5 mm or less
  - Distal Tip Outer Diameter: 4.1mm-4.5mm



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Blades

- Blades and connection cable should be fully immersible in disinfecting solution.
- Blades can be sterilized using Sterrad and Steris system. Thermal disinfection upto 93 degrees and Chemo-thermal disinfection upto 65 degrees should be permissible.
- Required standard **Macintosh and Miller blades** with titanium handles with integrated camera chip and LED light illumination.
- Blades should have anti fogging mechanism.
- Macintosh blade size 0 producing resolution of minimum 800p. —
- Macintosh blade size 2 producing resolution of minimum 800p. —
- Macintosh blade size 3 producing resolution of minimum 800p. —
- Macintosh blade size 4 producing resolution of minimum 800p. —
- Miller blade size 0 producing resolution of minimum 800p. —
- Miller blade size 1 producing resolution of minimum 800p. —
- Miller blade size 2 producing resolution of minimum 800p. —
- Special angulated Adult Blade for difficult intubation with device for introduction of suction catheter of size 16-18 Fr., angle of view should be 80 degree or more should be provided with stylet from same manufacturer.
- Special angulated Pediatric Blade for difficult intubation with device for introduction of suction catheter of size 16-18 Fr., angle of view should be 80 degree
- Stylet should not be required for intubation while using Macintosh blades.
- Accessories like protection cap for blades, tray for cleaning and sterilization of blades (at least two blades at a time) from same manufacturer should be provided.
- Stand to hang monitor with tray for laryngoscope blades should be provided from same manufacturer with height 120 cm, rollable with five legs and antistatic castors, crossbar 25 cm x diameter 25 mm for positioning the monitor, with tray, dimensions (w x d x h): 30 x 20 x 10 cm.