

**Tender Notice No.:4.3D/APMSIDC/Equipment/2020-21; Dt: 26.06.2020.**

**Clarifications requested by the bidders.**

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
<b>M/s Fine Vision</b>					
1	Operating Microscope for ENT	Pg. No. 77 Item No. 2.7 Point No. 7	Future Upgradability: Microscope should be upgradable to HD integrated camera 1080p	Need clarity if required HD integrated camera with the microscope with present order or we need to just show upgradability provision for future.	Need Microscope should have an integrated HD camera & recorder
<b>M/s. Bhargav Enterprises</b>					
1.	Operating Microscope for ENT	Pg.No. 42 Sl. No. 5	Average Annual turnover of the Authorized Bidder in the last three years i.e. 2016-17, 2017-18, 2018-19 <b>Rs.8,20,00,000</b>	Hence we kindly request you to reduce the turnover to 3.00 Cr for more participants	No change
<b>M/s. S K enterprises</b>					
1.	Micro Drill with Hand piece and bur head for ENT	Pg. No. 78 Item No. 2.11 Point No. 4	Maximum output power/motor torque should be 120W/6Ncm	Maximum output power/ motor torque should be in between 138W/4Ncm to 120W/6Ncm <b>Medtronic drill has a international power rating that suffice the surgeons requirement and provides better surgical outcome.</b>	Maximum output power/ motor torque should be in between 120W/6Ncm to 138W/4Ncm to
		Pg. No. 78 Item No. 2.11 Point No. 5	Motor speed range should be 300 - 50000 rpm	Motor speed range should be in between 200 - 80,000 RPM <b>Medtronic drill have a high speed console with best specifications of speed range (i.e) 200- 80000 rpm in the industry to provide better surgical outcome</b>	Motor speed range should be in between 200 - 80,000 RPM
		Pg. No. 78 Item No. 2.11 Point No. 10	Should be able to adjust speed of pump from foot pedal as well as main console	Should be able to adjust speed of pump from foot pedal or main console <b>Medtronic console comes with</b>	No change

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<b>intuitive touch screen with wide variety of programmable features for pump setting</b>	
		Pg. No. 78 Item No. 2.11 Point No. 14	Device should be European standard CE Approved	Device should be CE or FDA approved <b>Every company origin has different approval standards as per the country standards</b>	USFDA or CE approved
			<b>OTO Drill</b>		
		Pg. No. 78 Item No. 2.11 Point No. 3	Should have quick release locking mechanism with grooves which allows tool free clamping of the instrument	Should have comfortable release locking mechanism for surgeon's Ease <b>Medtronic drill have quick tool lock / release button that improve the ease of locking mechanism that resolves the purpose of the surgeon. Medtronic is the Pioneer in this segment and technology used is gold standard and state of art and is used since decades in all major government hospital and Private institutions</b>	No change
		Pg. No. 78 Item No. 2.11 Point No. 4	Should have removable sleeve tube retainer	Should have removable or Non removable sleeve tube retainer <b>Medtronic drill suffice the same purpose without the need of removable sleeve tube retainer, Medtronic is the Pioneer in this segment and technology is gold standard and state of art and is used since decades in all major government hospital and Private institutions</b>	Should have removable or Non removable sleeve tube retainer
		Pg. No. 78 Item No. 2.11 Point No. 5	Should have removable sleeve tube ,ideal for reprocessing	Should have removable or Non removable sleeve tube for ideal for reprocessing	Should have removable or Non removable sleeve tube for ideal for reprocessing

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<b>Medtronic drill does not require the removable sleeve tube technology for reprocessing.</b>	
		Pg. No. 78 Item No. 2.11 Point No. 8	Radius of action should have 78mm	Radius of action should have 78mm or more <b>Medtronic drill have a better radius of action that mentioned in specifications which helps surgeon with better clinical outcome.</b>	Radius of action should have 78mm or more
		Pg. No. 78 Item No. 2.11 Point No. 9	Cable length should be 3m	Cable length should be in range of 2m to 3m <b>The cable doesn't matters in regular procedures. The size is provided as per international standards</b>	No Change
		Pg. No. 78 Item No. 2.11 Point No. 12	Total length without cable should be 200mm	Total length without cable should be 17cm to 20 cm <b>Medtronic drill is designed as per the surgeons ergonomics and is specially kept smaller in length to reduce the weight of the hand piece which provides surgeon better grip</b>	Total Length without cable should be 17cm to 20 cm
			Hand piece for ENT Surgeries		
		Pg. No. 78 Item No. 2.11 Point No. 1	Maximum speed of ENT Surgery hand piece should be 50000 rpm	Maximum speed of ENT Surgery hand piece should be in the range of 50,000 to 80000 rpm <b>When high speed hand piece is available then why to settle with low speed, Higher speed will result in better surgical outcome and surgeon's ease Medtronic drill comes with higher speed which is required for faster debulking of mastoid bone with</b>	Maximum speed of ENT Surgery hand piece should be 50000 rpm or more

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<b>improves surgical outcomes</b>	
		Pg. No. 78 Item No. 2.11 Point No. 2	Hand piece , straight, length 70mm for use with straight shaft burrs and length of insertion part should be 21mm	Hand piece , straight, length 70mm for use with straight shaft burrs <b>Medtronic hand piece is made as per international standards and is tailor made in away to perform all kinds of surgeries in this segment</b>	Hand piece , straight, length 70mm for use with straight shaft burrs and length of insertion part should be 21mm or Hand piece , straight, length 70mm for use with straight shaft burrs
		Pg. No. 78 Item No. 2.11 Point No. 3	Hand piece ,angled ,length 70mm for use with straight shaft burrs and length of insertion part should be 21 mm	Hand piece ,angled ,length 70mm for use with straight shaft burrs <b>Medtronic hand piece is made as per international standards and is tailor made in away to perform all kinds of surgeries in this segment</b>	Hand piece ,angled ,length 70mm for use with straight shaft burrs and length of insertion part should be 21 mm or Hand piece ,angled ,length 70mm for use with straight shaft burrs
			<b>Burr for ENT Surgeries Hand Piece</b>		
		Pg. No. 78 Item No. 2.11 Point No. 1	Stainless steel rose burr, Head size 1mm, length 44mm	Stainless steel burr , Head size 1mm, & length ranging in between 70mm & 85 mm <b>Medtronic has wide range reusable burs with various lengths that suffice the surgeon's requirement. We have stainless steel burs with head size ranging from 7.0mm to 0.5mm.</b>	Stainless steel burr , Head size 1mm, length 44mm or length ranging in between 70mm & 85 mm
		Pg. No. 78 Item No. 2.11 Point No. 2	Stainless steel rose burr, Head size 0.5mm, length 70mm	Stainless steel burr , Head size 0.5mm, & length ranging in between 60mm & 85 mm <b>Medtronic has wide range reusable</b>	Stainless steel burr , Head size 0.5mm, & length ranging in between 60mm to 85 mm

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<b>burs with various length that suffice the surgeon's requirement. We have stainless steel burs with head size ranging from 7.0mm to 0.5mm.</b>	
		Pg. No. 78 Item No. 2.11 Point No. 3	Tungsten carbide rose burr, Head size 1.8mm, length 70 mm	Tungsten carbide burr, head size range in between 1.5mm & 2.0mm&length ranging in between 60mm & 85 mm <b>Medtronic has wide range reusable burs with various length that suffice the surgeon's requirement. We have Carbide with head size ranging from 7.0mm to 0.5mm.</b>	Tungsten carbide burr, head size range in between 1.5mm & 2.0mm&length ranging in between 60mm to 85 mm
		Pg. No. 78 Item No. 2.11 Point No. 4	Diamond burr, Head size 0.6mm length 70mm	Diamond burr, Head size 0.6mm length range in between 60mm & 70mm <b>Medtronic has wide range reusable burs with various lengths that suffice the surgeon's requirement. We have diamond bur with head size ranging from 6.0mm to 0.5mm.</b>	Diamond burr, Head size 0.6mm length range in between 60mm or 70mm
		Pg. No. 78 Item No. 2.11 Point No. 5	Diamond burr, Head size 2.3mm length 95mm	Diamond burr, Head size range in between 2.5mm & 2.0 mm &length ranging in between 60mm & 85 mm <b>Medtronic has wide range reusable burs with various lengths that suffice the surgeon's requirement. We have diamond bur with head size ranging from 6.0mm to 0.5mm.</b>	No change
		Pg. No. 78 Item No. 2.11 Point No. 6	Stainless steel round burr, Head size 2.3 mm, Length 57 mm	Stainless steel round burr, Head size 2.3 mm, Length range in between 57 mm & 66 mm <b>Medtronic has wide range reusable burs with various length that suffice</b>	Stainless steel round burr, Head size 2.3 mm, Length range in between 57 mm or 66 mm

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<b>the surgeon's requirement. We have Stainless steel bur with head size ranging from 7.0mm to 0.5mm.</b>	
		Pg. No. 78 Item No. 2.11 Point No. 7	Stainless steel round burr, Head size 0.6 mm, Length 70 mm	Stainless steel round burr, Head size ranging in between 1.0 mm& 0.5mm, Length range in between 60mm &85 mm <b>Medtronic has wide range reusable burs with various lengths that suffice the surgeon's requirement. We have Carbide with head size ranging from 7.0mm to 0.5mm.</b>	No change
			<b>POINTSTO BE ADDED IN CONSOLE SECTION</b>	Should have in built scope Lens cleaning system <b>Medtronic Endoscrub lens cleaning system helps the surgeon maintain maximum visualization without removing the endoscope by flushing the debris from the lens tip and avoids fogging of the endoscope lens. Preserves the orientation of the surgical field and saves time for the surgeon</b>	Should have in built scope Lens cleaning system
				Should have provision to integrated facial nerve monitor for live detection of nerve during operation <b>Medtronic stimburgaurd offers simultaneous stimulation of nerve while drilling to avoid facial nerve damage .It offers 1-3mm advance warning of bur's proximity to the facial nerve during otologic procedures for better surgical outcome</b>	Should have provision to integrated facial nerve monitor for live detection of nerve during operation

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>Should be able to connect multiple hand pieces at a time like Debrider hand pieces (Up to 7500 RPM in Oscillating mode &amp; 30000 RPM in Forward mode), Otologic drills (Up to 80000 RPM), Stapedectomy Drill ( upto 16000 RPM)</p> <p><b>Medtronic console is a one stop solution for entire ENT solution will allows the surgeon to perform a wide range of Rhinology, Nasopharyngeal, laryngeal, Bronchial, Otologic &amp; middle ear surgeries.</b></p>	<p>Should be able to connect multiple hand pieces at a time like Debrider hand pieces (Up to 7500 RPM in Oscillating mode &amp; 30000 RPM in Forward mode), Otologic drills (Up to 80000 RPM), Stapedectomy Drill ( upto 16000 RPM)</p>
				<p>Should have an option of emergency switch</p> <p><b>Emergency manual finger switch helps the surgeon to complete the surgery in case of any technical issue with foot pedal. Surgery will not be halted due to any technical issue of footswitch.</b></p>	<p>Should have an option of emergency switch</p>
<b>M/s. Vishal Surgical Equipment Company</b>					
1.	Bronchoscope Adult and Child	Pg.No. 75 & 76 Sl. No. 2.5	Bronchoscope Adult and Child	<p>Following items are missing which are mandatory for functionable working set request you to kindly add the following:</p> <p>1. Telescope is missing in the specification of pediatric Bronchoscope Request you to kindly, add Telescope for Pediatric Bronchoscope tubes. compatible to the five pediatric bronchoscope tubes asked, further can be connected to optical forceps. "Telescope either 0 / 30 deg, diameter 2.9 mm and length 36 cm,"</p>	<p>Add</p> <p>1. Telescope is missing in the specification of pediatric Bronchoscope Request you to kindly, add Telescope for Pediatric Bronchoscope tubes. compatible to the five pediatric bronchoscope tubes asked, further can be connected to optical forceps. "Telescope either 0 / 30 deg, diameter 2.9 mm and length 36 cm,"</p>

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>2. Telescope is missing in the specification of Adult Bronchoscope. Request you to kindly add Telescope for Adult Bronchoscope tubes. compatible to two Adult bronchoscope tubes asked, further can be connected to optical forceps. "Telescope either 0 / 30 deg, diameter 5.5 mm and length 50 cm,"</p> <p>3. Recommend and request you kindly even add Paediatric &amp; Adult Optical forceps enabling removal of foreign body under precise optical control enabling to remove quickly and with utmost safety.</p> <p><b>Paediatric Optical Forceps (kindly choose the types according to your requirement)</b></p> <p>a. Optical forceps 2 x 2 teeth, for grasping coins and flat foreign bodies.</p> <p>b. Optical alligator forceps for grasping hard foreign bodies.</p> <p>c. Optical forceps for grasping peanut and soft foreign bodies.</p> <p>d. Optical forceps for Biopsy and for general foreign body removal.</p> <p><b>Adult Optical Forceps (kindly choose the types according to your requirement)</b></p> <p>a. Optical alligator forceps for grasping hard foreign bodies.</p> <p>b. Optical forceps for Large jaw for removing large fragment tissue</p> <p>c. Optical forceps for Biopsy and for</p>	<p>2. Telescope is missing in the specification of Adult Bronchoscope. Request you to kindly add Telescope for Adult Bronchoscope tubes. compatible to two Adult bronchoscope tubes asked, further can be connected to optical forceps. "Telescope either 0 / 30 deg, diameter 5.5 mm and length 50 cm,"</p> <p>3. Recommend and request you kindly even add Paediatric &amp; Adult Optical forceps enabling removal of foreign body under precise optical control enabling to remove quickly and with utmost safety.</p> <p><b>Paediatric Optical Forceps (kindly choose the types according to your requirement)</b></p> <p>a. Optical forceps 2 x 2 teeth, for grasping coins and flat foreign bodies.</p> <p>b. Optical alligator forceps for grasping hard foreign bodies.</p> <p>c. Optical forceps for grasping peanut and soft foreign bodies.</p> <p>d. Optical forceps for Biopsy and for general foreign body removal.</p> <p><b>Adult Optical Forceps (kindly choose the types according to your requirement)</b></p> <p>a. Optical alligator forceps for</p>

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				general foreign body removal.	grasping hard foreign bodies. b. Optical forceps for Large jaw for removing large fragment tissue c. Optical forceps for Biopsy and for general foreign body removal.
2	Fess Set	Pg. No. 76 & 77 Sl.No. 2.6	Nasal endoscope 0 deg Nasal endoscope 30 deg Nasal endoscope 45 deg Nasal endoscope 70 deg	<p>The items appearing under this has already been selected and finalized under Nasal endoscope heading during your previous tender.</p> <p>However, referring previous tender and amendments issued under FESS SET, instrumentation and Camera system was included as part of FESS Set.</p> <p>FESS Set must consist of hand instruments, Camera, light-source and fiber optic cable for complete workable set.</p> <ol style="list-style-type: none"> <li>1. Hartmann Nasal speculum 01</li> <li>2. Septum needle angular LUER – lock 01</li> <li>3. Freer elevator double – ended 01</li> <li>4. Sickle Knife pointed -19cm 02</li> <li>5. Antrum curette 01</li> <li>6. Frontal sinus curette 01</li> <li>7. Suction tube with malleable and cut-off hole 02</li> <li>8. Antrum cannula LUER-lock-4nos 01</li> <li>9. Blakesley nasal forceps: straight 01</li> <li>10. Blakesley nasal forceps: 45-degree upturn 01</li> <li>11. Blakesley nasal forceps: 90-degree upturn 01</li> </ol>	<p>For FESS additional endoscopes are not required</p> <p>FESS Set must consist of hand instruments, Camera, light-source and fiber optic cable for complete workable set.</p> <ol style="list-style-type: none"> <li>1. Hartmann Nasal speculum 01</li> <li>2. Septum needle angular LUER – lock 01</li> <li>3. Freer elevator double – ended 01</li> <li>4. Sickle Knife pointed -19cm 02</li> <li>5. Antrum curette 01</li> <li>6. Frontal sinus curette 01</li> <li>7. Suction tube with malleable and cut-off hole 02</li> <li>8. Antrum cannula LUER-lock-4nos 01</li> <li>9. Blakesley nasal forceps: straight 01</li> <li>10. Blakesley nasal forceps: 45-</li> </ol>

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>12. Suction punch 01  13. Nasal cutting forceps 01  14. Nasal scissors straight-working length 13cm 01  15. Stammberger Antrum punch, -- left and right side backward cutting 01  16. Biopsy and grasping forceps-vertical opening, malleable sheath and cupped jars 01  17. Stambberger Punch, circular cutting diameter 3.5 mm working length 18cm 01  18. Stammberger Antrum punch, downwards &amp; forwards cutting – left &amp; right 01  19. Stammberger Bipolar suction forceps, 15deg, 45 deg upturned 11-13cm 01  20. Bipolar universal high frequency cord 01  21. Bipolar coagulation forceps, insulated angular, blunt with integrated suction channel, cut off hole length 19 cm 01. All the instruments, Camera System, Light source should be from one manufacturer.  <b>Camera System</b>  22. Digital Single-Chip Medical-Video-Camera – color system PAL with Image Processing software. High horizontal image resolution of more than 450 lines. Automatic white balance with memory function for true color settings. Should have Composite &amp; S-VHS compatibility. Facility of optionally available camera</p>	<p>degree upturn 01  11. Blakesley nasal forceps: 90-degree upturn 01  12. Suction punch 01  13. Nasal cutting forceps 01  14. Nasal scissors straight-working length 13cm 01  15. Stammberger Antrum punch, -- left and right side backward cutting 01  16. Biopsy and grasping forceps-vertical opening, malleable sheath and cupped jars 01  17. Stambberger Punch, circular cutting diameter 3.5 mm working length 18cm 01  18. Stammberger Antrum punch, downwards &amp; forwards cutting – left &amp; right 01  19. Stammberger Bipolar suction forceps, 15deg, 45 deg upturned 11-13cm 01  20. Bipolar universal high frequency cord 01  21. Bipolar coagulation forceps, insulated angular, blunt with integrated suction channel, cut off hole length 19 cm 01. All the instruments, Camera System, Light source should be from one manufacturer.  <b>Camera System</b></p>

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>head which can be connected to any flexible fiber endoscope or rigid endoscope.</p> <p>23. System should be supplied with a 24/26" high resolution TV.</p> <p>24. Light source : LED 150 watts light source 01</p> <p>25. Fiber Optic Light Cable:</p> <p>26. Video Trolley:</p> <p>27. Sterilization/Disinfection Tray</p> <p>28. 10 minutes instruments sterilitant – 6 bottles</p> <p>29. Stabilizer</p> <p>30. Cleaning Kit for Cleaning and maintenance</p>	<p>22. Digital Single-Chip Medical-Video-Camera – color system PAL with Image Processing software. High horizontal image resolution of more than 450 lines. Automatic white balance with memory function for true color settings. Should have Composite &amp; S-VHS compatibility. Facility of optionally available camera head which can be connected to any flexible fiber endoscope or rigid endoscope.</p> <p>23. System should be supplied with a 24/26" high resolution TV.</p> <p>24. Light source : LED 150 watts light source 01</p> <p>25. Fiber Optic Light Cable:</p> <p>26. Video Trolley:</p> <p>27. Sterilization/Disinfection Tray</p> <p>28. 10 minutes instruments sterilitant – 6 bottles</p> <p>29. Stabilizer</p> <p>30. Cleaning Kit for Cleaning and maintenance</p>
3	Esophagoscope	Pg. No. 79 Sl. No. 2.13 & 2.14	Esophagoscope (Oesophagoscope Adult & Oesophagoscope Child)	<p>The items asked are different, but the specifications enclosed are combination of both Oesophagoscope adult and Child. Request you to kindly make both the items as one heading as Oesophagoscope Adult &amp; child with the same specifications</p> <p>The items should be from the same</p>	Accepted

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>manufacturer  Product should be autoclavable / sterile (certificate must be enclosed)  The company should be USFDA approved/European CE certified from Notified Body (4 digit)  The following items shall be supplied (quantity 1 each)  Instruments should be made from High Quality Surgical Grade Steel or Titanium  Instruments should have laser surface or ebonized or equivalent finish to provide appropriate reflection lowering finish.  CO=/Catalogue number &amp; article number should be mentioned on each and every instrument.</p> <p><b>Technical Specifications of Oesophagoscopy Set</b>  <b>Adult Instruments - 1 Set</b>  Oval Operating Esophagoscope. Length : 50 cm. Size : 12 x 16  Oval Operating Esophagoscope. Length : 50 cm. Size : 10 x 14  Fiber Optic Light Carrier for use with esophagoscope, length 50 cm  Handle, for esophagoscopes  Straight forward telescope 0°, diameter 5.5 mm, length 53cm, autoclavable, fiber optic light transmission incorporated.  Color code green  Optical forceps, alligator, for controlled grasping of hard foreign bodies, incl.</p>	<p>Accepted for oval operating esophagoscope length:50cm:  Size: 10X 14 only</p>

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				<p>cleaning adapter, cm for use with Telescope.</p> <p>Suction Tube, with rubber tip, straight, diameter 4 mm, working length 55 cm.</p> <p>Cotton carrier, working length 55 cm.</p> <p>Sponge Holder, spring handle, working length 55 cm</p> <p><b>Paediatric Instruments - 1 Set</b></p> <p>Straight forward telescope 0°, diameter 2.9 mm, length 36 cm, autoclavable, fiber optic light transmission incorporated.</p> <p>Color code green</p> <p>Esophagoscope Tube, length 30 cm, size 6</p> <p>Esophagoscope Tube, size 4, outer diameter 6.7 mm, inner diameter 6.2 mm, length 30 cm</p> <p>Prismatic Light Deflector autoclavable, with connection to fiber optic light cable</p> <p>Rubber Telescope Guide for use with telescopes or optical forceps</p> <p>Optical forceps, Optical forceps, with KILLIAN bean jaws, for controlled grasping of peanuts and soft foreign bodies, with force-limited handle, incl. cleaning adapter, for use with telescope.</p> <p>Optical Forceps, Alligator, for controlled grasping of foreign bodies, with force limited handle, incl. cleaning adaptor for use with Telescope</p> <p>Rigid Suction Tube with rubber tip, straight, outer diameter 2 mm, working</p>	Accepted

Sl. No.	Item Name	Pg No	Tender Condition	Bidder Request	Can be read as
				length 35 cm Cotton carrier, working length 35 cm. Sponge Holder, spring handle, working length 35 cm Foreign Body forceps Adult size (Coin & alligator), paediatric coin & alligator forceps (One Each) <b>Light Source LED 150 Watt Qty : 1</b> Universal Power supply 220 + 15 V, 50 + 10 Hz. Minimum 22000 Hours bulb life Light intensity control from minimum to maximum should be possible To be supplied with light cable 3.5mm diameter, 230 cm length	
<b>M/s. Care Surgicals</b>					
1	Sound Proof room	Pg. No. 42 Sl. No.1	EMD – 3,07,500 Turnover – 2,56,25,000	We are interested in Participating the tender for the following Products and request you kindly reduce the turnover and EMD as requested EMD- As feasible Turnover – 1,25,00,000	No change
2	Operating Microscope (ENT)	Pg. No. 42 Sl. No.5	EMD – 9,84,000 Turnover – 8,20,00,000	EMD – As feasible Turnover – 3,00,00,000	No change
<b>M/s. Sree Lokesh Pharma</b>					
1	All Items	Pg. No. 42	EMD and Turnover	Maximum Rs. 10,00,000 EMD and Average Annual Turnover of the bidder last 3 years (2016-17, 2017-18, 2018-19) is Rs. 10 Cr (if we paid Rs.10,00,000/- EMD we can quoted all items in the tender as same turnover Rs. 10Cr).	For multiple items, the cumulative EMD maximum is Rs. 10,00,000 and Average Annual Turnover of the bidder last 3 years (2016-17, 2017-18, 2018-19) is Rs. 10 Cr

## Revised specifications for ENT Operating Microscope with HD camera and recording System

1. Manual 5- step magnification changer with apochromatic optics, magnification factors 0.4 x-0.6x -1.0x -1.6x -2.5x
2. Objective lenses f=250 mm with fine focus of additional 13mm
3. Additional 400mm lens should be supplied
4. Green filter integrated at the entry point of light on the magnifier assembly
5. Straight binocular tube f=170mm inter papillary distance adjustment from 55mm to 75mm
6. Pair of wide field push-in 10x eyepieces with eyecups adjustable and magnetic locks, dioptre setting from -8D to +5D
7. Microscope should have 120 deg coupling
8. Front handgrips for handling microscope
9. Should have double IRIS diaphragm
10. Microscope should have coaxial fibre optic LED illumination, but it should be upgradable to Xenon illumination in future if necessary
11. Continuous lamp intensity adjustment by control knob near to the surgeon
12. Automatic lamp cut off by moving up the carrier arm ensuring optimal usage of the bulb
13. Stable and sturdy floor stand on four lockable castors, column (height: minimum 1.7m)
14. Microscope should have integrated HD camera & recorder with full HD 1080P with USB & LAN as streaming option. SD card is not preferred
15. Camera without beam splitter and external cables
  - a. Camera image options should have to mirror, tilt able, rotate, white balance & freeze
  - b. Recorder: the video image of the preceding 30 seconds is recorded when the <record> button is pressed
  - c. This recording from the past is recorded in parallel at the start of the video recording
  - d. The recording time should be at least 30seconds in order for the preceding 30seconds also to be written completely in the video file.
16. 28 inches or more TV for monitoring
17. Company should have CE/FDA certificate, having own service centre in India with qualified and trained engineers in the state