

# **CORRIGENDUM No: 1**

## **to the TENDER DOSSIER**

**Publication Ref: SIHHAT/2018/SUP/INT/09**

**Subject: Supply of Microscopes for the Secondary Healthcare Premises**

**Location –Europe (non EU/Turkey)**

The Tender Dossier is corrected/modified as follows:

<b>CONTRACT NOTICE</b>
<p><b>Instead of (the former text):</b></p> <p><b>15. Period of implementation of tasks</b></p> <p>The implementation period for the contract will last 90 calendar days, starting from the commencement date of the Contract and ending on the day of issuance of the certificate of Provisional Acceptance. The implementation period will include delivery, installation, training and Provisional Acceptance.</p> <p><b>Read (new text):</b></p> <p><b>15. Period of implementation of tasks</b></p> <p>The implementation period for the contract will last <b>120</b> calendar days, starting from the commencement date of the Contract and ending on the day of issuance of the certificate of Provisional Acceptance. The implementation period will include delivery, installation, training and Provisional Acceptance.</p>
<b>INSTRUCTIONS TO THE TENDERERS</b>
<p><b>Instead of (the former text):</b></p> <p><b>Article 1.1</b></p> <p>.... in 6 lots to the points at the provinces of Turkey (please refer to the list of the provinces Appendix-A, delivery points list), within 90 (ninety) calendar days as also mentioned under Special Conditions, DDP<sup>1</sup>, in accordance with point 15 of the Contract Notice. The detailed list of delivery points and quantities are given in Appendix-A to the Special Conditions. The distribution of quantities to the delivery points may be updated by the Contracting Authority based on the possible fluctuations on the number of migrants.</p> <p><b>Read (new text):</b></p> <p><b>Article 1.1</b></p> <p>.... in 6 lots to the points at the provinces of Turkey (please refer to the list of the provinces Appendix-A, delivery points list), within <b>120</b> calendar days as also mentioned under Special Conditions, DDP<sup>2</sup>, in accordance with point 15 of the Contract Notice. The detailed list of delivery points and quantities are given in Appendix-A to the Special Conditions. The distribution of</p>

<sup>1</sup> DDP (Delivered Duty Paid) — Incoterms 2010 International Chamber of Commerce <http://www.iccwbo.org/products-and-services/trade-facilitation/incoterms-2010/the-incoterms-rules/>.

<sup>2</sup> DDP (Delivered Duty Paid) — Incoterms 2010 International Chamber of Commerce <http://www.iccwbo.org/products-and-services/trade-facilitation/incoterms-2010/the-incoterms-rules/>.

quantities to the delivery points may be updated by the Contracting Authority based on the possible fluctuations on the number of migrants.

## SPECIAL CONDITIONS

### **Instead of (the former text):**

#### **Article 13.2**

The subject of the contract shall be the supply, delivery, installation, warranty and training for all lots. Training must be completed within 90 (ninety) calendar days from the date of signature of the contract by both parties, at the indicative points in Appendix A to Special Conditions. In compliance with implementation of the tasks as required and within deadlines set in the ANNEX II + III: TECHNICAL SPECIFICATIONS.

### **Read (new text):**

#### **Article 13.2**

The subject of the contract shall be the supply, delivery, installation, warranty and training for all lots. Training must be completed within **120** calendar days from the date of signature of the contract by both parties, at the indicative points in Appendix A to Special Conditions. In compliance with implementation of the tasks as required and within deadlines set in the ANNEX II + III: TECHNICAL SPECIFICATIONS...

### **Instead of (the former text):**

#### **Article 19.1**

The period of implementation of the tasks is within 90 (ninety) calendar days for the supply, delivery, warranty, installation and training. The date on which implementation of the tasks is to commence is the day following that on which the second of the two Parties signs.

The implementation period shall run from the commencement date until date for provisional acceptance.

### **Read (new text):**

#### **Article 19.1**

The period of implementation of the tasks is within **120** calendar days for the supply, delivery, warranty, installation and training. The date on which implementation of the tasks is to commence is the day following that on which the second of the two Parties signs.

The implementation period shall run from the commencement date until date for provisional acceptance.

## ANNEX II+III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

### **Instead of (the former text):**

#### **Item Number 1.2.7**

Taking a little space as possible, carrying base with a braking system, an "X-shaped" base and the dimensions of at least 630mm x 630mm, 4 wide wheels to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1800mm high and the distance between the main body and the optical head shall be at least 1300mm long to facilitate the surgeon of the physician.

### **Read (new text):**

#### **Item Number 1.2.7**

Taking a little space as possible, carrying base with a braking system, an “X-shaped **or H-shaped**” base and the dimensions of at least 630mm x 630mm, 4 wide wheels to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1800mm high and the distance between the main body and the optical head shall be at least 1300mm long to facilitate the surgeon of the physician.

**Instead of (the former text):**

**Item Number 1.2.9.**

The surgical microscope shall have a motorized zoom ratio of at least 1:6 or 6:1. In addition, emergency manual zoom and focus adjustment mechanisms must be provided on the microscope optical head for use in case of malfunction during operation. The resulting zoom factor shall be digitally readable from the screen on the microscope base.

**Read (new text):**

**Item Number 1.2.9.**

The surgical microscope shall have a motorized zoom ratio of at least 1:6 or 6:1. In addition, emergency manual zoom and focus adjustment mechanisms must be provided on the microscope optical head **or zoom-focus control must be done from screen on the microscope base** for use in case of malfunction during operation. The resulting zoom factor shall be digitally readable from the screen on the microscope base.

**Instead of (the former text):**

**Item Number 1.2.12.**

The microscope lighting module shall have a dual bulb socket. Microscopic lighting shall be done with a 180-Watt or 300-Watt bulb with fibre optic cable running to the optical carrier. Main lighting shall be done with xenon bulbs and backup lighting shall be done with xenon bulb with the same power or 150-Watt halogen bulb. Switching to the backup bulb shall be non-service item and shall be done easily from the digital control panel.

**Read (new text):**

**Item Number 1.2.12.**

The microscope lighting module shall have a dual **or mono** bulb socket. Microscopic lighting shall be done with a 180-Watt or 300-Watt bulb with fibre optic cable running to the optical carrier. Main lighting shall be done with xenon bulbs and backup lighting shall be done with xenon bulb with the same power or 150-Watt halogen bulb. Switching to the backup bulb shall be non-service item **or** shall be done easily from the digital control panel.

**Instead of (the former text):**

**Item Number 1.3.2.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in Full HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format, and also simultaneously record this in internal hard disc or USB Flash memory or Blu-ray disk.

**Read (new text):**

**Item Number 1.3.2.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in Full HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at

least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format.

**Instead of (the former text):**

**Item Number 1.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

For compatibility, the monitor shall be the same brand as the medical recorder that will be purchased with the system. The monitor is a professional monitor and shall be at least 7/17 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least 200Hz. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and USB inputs. The monitor must have RF connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Read (new text):**

**Item Number 1.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

**The monitor shall run in full compatibility with surgical microscope.** The monitor is a professional monitor and shall be at least **7/16 usable**. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. **The monitor must have a motion flow rate of at least 148,5 Hz in 1920 x 1080 resolution.** The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and 1 USB inputs. The monitor must have RF or **IR** connection input. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Instead of (the former text):**

**Item Number 2.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 690mm x 690mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall have X-shaped base which allow easy access to the operating table.

**Read (new text):**

**Item Number 2.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 690mm x 690mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall have X-shaped **or H-shaped** base which allow easy access to the operating table.

**Instead of (the former text):**

**Item Number 2.2.6.**

The optical head of the microscope shall have a movement capability of at least 540° around its axis, at least ± 45 ° for left right lateral movement, at least 120° for forward movement and at least

30° for backward movement

**Read (new text):**

Item Number **2.2.6.**

The optical head of the microscope shall have a movement capability of at least 540° around its axis, at least  $\pm 45^\circ$  (+/- 5°) for left right lateral movement, at least 120° for forward movement and at least 30° for backward movement

**Instead of (the former text):**

Item Number **2.2.8.**

From the digital control panel located on the microscope; for at least 20 (twenty) users; the focus speed, zoom speed, synchronization settings and light intensity settings can be made and set to default memory.

**Read (new text):**

Item Number **2.2.8.**

From the digital control panel located on the microscope; for at least **10 (ten)** users; the focus speed, zoom speed, synchronization settings and light intensity settings can be made and set to default memory.

**Instead of (the former text):**

Item Number **2.2.9.**

Microscope-integrated adjustable focus system with motorized system shall be available. Working distance for focus; 200mm-500mm. or between 207 mm and 470 mm; a multifocal lens system shall be provided, which will be used as stepless, along with a single lens system without any modification

**Read (new text):**

Item Number **2.2.9.**

Microscope-integrated adjustable focus system with motorized system shall be available. Working distance for focus; 200mm (+/- **24 mm**) -500mm. or between 207 mm and 470 mm; a multifocal lens system shall be provided, which will be used as stepless, along with a single lens system without any modification

**Instead of (the former text):**

Item Number **2.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available for emergency situations.

**Read (new text):**

Item Number **2.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available **or zoom-focus control must be done from screen on the microscope base** for emergency situations.

**Instead of (the former text):**

Item Number **2.2.14.**

The microscope lighting module shall have a dual bulb socket. Microscopic lighting shall be done with at least 300-Watt bulb with fibre optic cable running to the optical carrier. The power of xenon bulbs shall not be provided with the extra apparatus but shall be factory-integrated. The digital hour of the xenon bulb shall be visible.

**Read (new text):**

**Item Number 2.2.14.**

The microscope lighting module shall have a dual **or mono** bulb socket. Microscopic lighting shall be done with at least 300-Watt bulb with fibre optic cable running to the optical carrier. The power of xenon bulbs shall not be provided with the extra apparatus but shall be factory-integrated **in or on microscope body**. The digital hour of the xenon bulb shall be visible.

**Instead of (the former text):**

**Item Number 2.3.1.**

Assistant observation equipment shall be provided with a microscope with 0-180° moving binocular tube of light separator, ocular, articulated optical tube and image converter.

**Read (new text):**

**Item Number 2.3.1.**

Assistant observation equipment shall be provided with a microscope with 0-180° (+/- 20°) moving binocular tube of light separator, ocular, articulated optical tube and image converter.

**Instead of (the former text):**

**Item Number 2.3.2.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format, and also simultaneously record this in internal hard disc or USB Flash memory or Blu-ray disk.

**Read (new text):**

**Item Number 2.3.2.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format.

**Instead of (the former text):**

**Item Number 2.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

For compatibility, the monitor shall be the same brand as the medical recorder that will be purchased with the system. The monitor is a professional monitor and shall be at least 7/17 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least 200Hz. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and USB inputs. The monitor must have RF connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Read (new text):**

**Item Number 2.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

**The monitor shall run in full compatibility with surgical microscope.** The monitor is a professional monitor and shall be at least 7/16 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least **148,5Hz in 1920x1080 resolution.** The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least **2 HDMI and 1 USB** inputs. The monitor must have RF **or IR** connection input. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Instead of (the former text):**

**Item Number 3.2.2.**

Pupil distance adjustable binocular tube that can be steplessly brought to the desired position between 0-180°, 10X/21mm, wide-field ocular pair designed for use with or without glasses shall be available. The pupil distance of the binocular tube shall be adjustable from 55mm to 75mm and the scale showing the value of the pupil distance shall be found. There shall be two 10x (± 2.5) wide-angled oculars integrated to the binocular tube. The dioptres of the oculars shall be adjustable between + 5D / -5D.

**Read (new text):**

**Item Number 3.2.2.**

Pupil distance adjustable binocular tube that can be steplessly brought to the desired position between 0-180° (+/-20°), 10X/21mm, wide-field ocular pair designed for use with or without glasses shall be available. The pupil distance of the binocular tube shall be adjustable from 55mm to 75mm and the scale showing the value of the pupil distance shall be found. There shall be two 10x (± 2.5) wide-angled oculars integrated to the binocular tube. The dioptres of the oculars shall be adjustable between + 5D / -5D.

**Instead of (the former text):**

**Item Number 3.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 600mm x 600mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall have X-shaped base which allow easy access to the operating table

**Read (new text):**

**Item Number 3.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 600mm x 600mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall have X-shaped **or H-shaped** base which allow easy access to the operating table

**Instead of (the former text):**

**Item Number 3.2.5.**

The elevation of the base is at least 1700mm high and the distance between the main body and the optical head shall be at least 1300mm to facilitate the surgeon of the physician.

**Read (new text):**

**Item Number 3.2.5.**

The elevation of the base is at least 1700mm high and the distance between the main body and the optical head shall be at least 1300mm ( $\pm 80$  mm) to facilitate the surgeon of the physician.

**Instead of (the former text):**

**Item Number 3.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available for emergency situations.

**Read (new text):**

**Item Number 3.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available **or zoom-focus control must be done from screen on the microscope base** for emergency situations.

**Instead of (the former text):**

**Item Number 3.2.13.**

The microscope lighting module shall have a dual bulb socket. Microscopic lighting shall be done with at least 150-Watt halogen bulb. Switching to the backup bulb must be done easily from the digital control panel or without service..

**Read (new text):**

**Item Number 3.2.13.**

The microscope lighting module shall have a dual **or mono** bulb socket. Microscopic lighting shall be done with at least 150-Watt halogen bulb. Switching to the backup bulb must be done easily from the digital control panel or without service.

**Instead of (the former text):**

**Item Number 3.3.1.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format, and also simultaneously record this in internal hard disc or USB Flash memory or Blu-ray disk.

**Read (new text):**

**Item Number 3.3.1.4.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format.

**Instead of (the former text):**

**Item Number 3.3.2.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

For compatibility, the monitor shall be the same brand as the medical recorder that will be purchased with the system. The monitor is a professional monitor and shall be at least 7/17 usable.

Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least 200Hz. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and USB inputs. The monitor must have RF connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Read (new text):**

**Item Number 3.3.2.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

**The monitor shall run in full compatibility with surgical microscope.** The monitor is a professional monitor and shall be at least 7/16 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least **148,5 Hz in 1920X1080 resolution**. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and 1 USB inputs. The monitor must have RF **or IR** connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Instead of (the former text):**

**Item Number 4.2.2.**

Along with the surgical microscope, there shall be 1 binocular tube whose sight can be bent between 0 and 180 degrees. The pupil distance of the binocular tube shall be adjustable from 55mm to 75mm and the scale showing the value of the pupil distance shall be available. There shall be two 10x ( $\pm 2.5$ ) wide-angled eyepieces integrated to binocular tubes. The dioptres of the oculars shall be adjustable between + 5D / -5D.

**Read (new text):**

**Item Number 4.2.2.**

Along with the surgical microscope, there shall be 1 binocular tube whose sight can be bent between 0 and 180 (**+/-20°**). The pupil distance of the binocular tube shall be adjustable from 55mm to 75mm and the scale showing the value of the pupil distance shall be available. There shall be two 10x ( $\pm 2.5$ ) wide-angled eyepieces integrated to binocular tubes. The dioptres of the oculars shall be adjustable between + 5D / -5D.

**Instead of (the former text):**

**Item Number 4.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 630mm x 630mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall be X-shaped base which allow easy access to the operating table

**Read (new text):**

**Item Number 4.2.4.**

The carrying base shall be equipped with a large wheel, brake system and in the dimensions of at least 630mm x 630mm to carry the microscope head, the carrying arm and the power unit in a balanced manner and shall be X-shaped **or H-shaped** base which allow easy access to the

operating table

**Instead of (the former text):**

Item Number **4.2.6.**

The optical head of the microscope shall have a movement capability of at least 450° around its axis, at least 72° for left right lateral movement, at least +120° for forward movement and at least -30° for backward movement.

**Read (new text):**

Item Number **4.2.6.**

The optical head of the microscope shall have a movement capability of at least 450° (**+/-115°**) around its axis, at least 72° for left right lateral movement, at least +120° for forward movement and at least -30° for backward movement.

**Instead of (the former text):**

Item Number **4.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available for emergency situations.

**Read (new text):**

Item Number **4.2.11.**

In the event of motorized failure during operation; manual focus and zoom mechanism Integrated into the optic head must be available **or zoom-focus control must be done from screen on the microscope base** for emergency situations.

**Instead of (the former text):**

Item Number **4.2.14.**

The microscope lighting module shall have a dual bulb socket. Microscopic lighting shall be done with at least 150-Watt halogen bulb. Switching to the backup bulb must be done easily from the digital control panel or without service.

**Read (new text):**

Item Number **4.2.14.**

The microscope lighting module shall have a dual **or mono** bulb socket. Microscopic lighting shall be done with at least 150-Watt halogen bulb. Switching to the backup bulb must be done easily from the digital control panel or without service.

**Instead of (the former text):**

Item Number **4.3.2.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in Full HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format, and also simultaneously record this in internal hard disc or USB Flash memory or Blu-ray disk.

**Read (new text):**

Item Number **4.3.2.**

For recording; Full HD recording system factory-integrated to the microscope and minimum 1 unit of 2 TB hard disk that can record Full HD format (1920x1080) high-resolution image taken from the existing camera on flash disc and external disk in Full HD Format. In the case of non-factory-integrated systems, medical-purpose Full HD recorder and 2 units of TB External Hard Disk with at

least 500 GB of internal hard disk shall be provided, and this can record high resolution image taken from Full HD camera in Full HD format.

**Instead of (the former text):**

**Item Number 4.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

For compatibility, the monitor shall be the same brand as the medical recorder that will be purchased with the system. The monitor is a professional monitor and shall be at least 7/17 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least 200Hz. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and USB inputs. The monitor must have RF connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Read (new text):**

**Item Number 4.3.3.**

With surgical microscope; 1 professional at least 40"(inch)-sized Full HD LCD monitor shall be provided. The monitor must meet the following specifications;

**The monitor shall run in full compatibility with surgical microscope.** The monitor is a professional monitor and shall be at least 7/16 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least **148,5Hz in 1920X1080 resolution.** The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and 1 USB inputs. The monitor must have RF **or IR** connection input. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Instead of (the former text):**

**Item Number 5.2.3.**

Carrying base with a braking system, an "X-shaped" base and the dimensions of at least 635mm x 635mm to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1800mm high and the distance between the main body and the optical head shall be at least 1300mm long to facilitate the surgeon of the physician. The carrying base must have a carrying arm to carry the surgical microscope and its accessories up to at least 12 kg.

**Read (new text):**

**Item Number 5.2.3.**

Carrying base with a braking system, an "X-shaped **or H-shaped**" base and the dimensions of at least 635mm x 635mm to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1800mm high and the distance between the main body and the optical head shall be at least 1300mm long to facilitate the surgeon of the physician. The carrying base must have a carrying arm to carry the surgical microscope and its accessories up to at least 12 kg.

**Instead of (the former text):**

**Item Number 5.2.14.**

14 or 16-function waterproof wireless footswitch shall be provided with the microscope. Physician, through the footswitch, can change the motorized zoom, change the motorized focus, provide motorized movement in +/- Y and +/- X axis, turn on/off the light, increase/decrease the light,

**Read (new text):**

**Item Number 5.2.14.**

14 or 16-function waterproof wireless footswitch shall be provided with the microscope. Physician, through the footswitch, can change the motorized zoom, change the motorized focus, provide motorized movement in +/- Y and +/- X axis, turn on/off the light, increase/decrease the light, and focus centering operations can be controlled from the footswitch. There must also be a spare switch on this for the must the functions that may be added in the future.

**Instead of (the former text):**

**Item Number 5.2.15.**

and focus centering operations can be controlled from the footswitch. There must also be a spare switch on this for the must the functions that may be added in the future.

**Read (new text):**

**Item Number 5.2.15.**

The lightening system of the microscope shall be fibre optic cable type or direct lightening. This technical requirement will be satisfied as following:

**Instead of (the former text):**

**Item Number 5.2.15.1.**

Systems with fibre optic cabling: The light shall have a cold light source operating with fibre optic cable, coaxial ophthalmic xenon with retroreflective filter, or LED lighting. Stereo coaxial lighting integrated into the optical head, enhancing red reflex density; a 3-stage red-reflex system with a triple light incandescent system or C.RED technology and a "depth-of-field control button" motorized diaphragm control system shall be available. These systems must have the possibility of being settable by means of a button or by means of hand grips or the touchscreen control panel. There shall also be a HaMode filter system. When requested, the microscope shall be fitted with a motorized slit lighting system integrated into the optical head.

**Read (new text):**

**Item Number 5.2.15.1.**

Systems with fibre optic cabling: The light shall have a cold light source operating with fibre optic cable, coaxial ophthalmic xenon with retroreflective filter, or LED lighting. Stereo coaxial lighting integrated into the optical head, enhancing red reflex density; a 3-stage red-reflex system with a triple light incandescent system or C.RED technology and a "depth-of-field control button" motorized **or manual** diaphragm control system shall be available. These systems must have the possibility of being settable by means of a button or by means of hand grips or the touchscreen control panel. There shall also be a HaMode **or Softlight etc.** filter system. When requested, the microscope shall be fitted with a motorized slit lighting system integrated into the optical head.

**Instead of (the former text):**

**Item Number 6.2.5.**

Taking a little space as possible, carrying base with a braking system, an "X-shaped" base and the dimensions of maximum 805mm x 805mm, 4 wide wheels to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1880mm high and the distance between the main body and the

optical head shall be at least 1300mm long to facilitate the surgeon of the physician. Base shall have the carrying arm to carry the surgical microscope and its accessories up to 12 kg.

**Read (new text):**

**Item Number 6.2.5.**

Taking a little space as possible, carrying base with a braking system, an “X-shaped **or H-shaped**” base and the dimensions of maximum 805mm x 805mm, 4 wide wheels to carry the weight of the load of microscope head, carrying arm and the power unit in a balanced way, shall be available. The elevation of the base shall be at least 1880mm high and the distance between the main body and the optical head shall be at least 1300mm long to facilitate the surgeon of the physician. Base shall have the carrying arm to carry the surgical microscope and its accessories up to 12 kg.

**Instead of (the former text):**

**Item Number 6.2.7.**

The surgical microscope shall have a motorized zoom system with a motorized zoom ratio of 1: 6 (one/six) or 6:1 (six/one) and with an adjustable motorized system between at least 3,6x to 21x coefficients. Zoom's magnification factor shall be visible on the microscope and the image field can be changed between at least 10mm-50mm. (without engaging the XY coupling system).

**Read (new text):**

**Item Number 6.2.7.**

The surgical microscope shall have a motorized zoom system with a motorized zoom ratio of 1: 6 (one/six) or 6:1 (six/one) and with an adjustable motorized system between at least 3,9x to 21x coefficients. Zoom's magnification factor shall be visible on the microscope and the image field can be changed between at least 10mm-50mm. (without engaging the XY coupling system).

**Instead of (the former text):**

**Item Number 6.2.8.**

The XY coupling unit must be located on the microscope. The movement of the motorized XY coupling shall cover an area of at least 61mmx61mm and central positioning key shall be available.

**Read (new text):**

**Item Number 6.2.8.**

The XY coupling unit must be located on the microscope. The movement of the motorized XY coupling shall cover an area of at least **60mmx60mm** and central positioning key shall be available.

**Instead of (the former text):**

**Item Number 6.2.10.**

Microscopic motorized focus range should be at least 70mm and reset.

**Read (new text):**

**Item Number 6.2.10.**

Microscopic motorized focus range should be at least 70mm **or in the system two optical path range is 25 mm should be at least 50mm** and reset.

**Instead of (the former text):**

**Item Number 6.2.12.**

On the microscope base, there shall have an LCD display panel on which the motorized zoom speed, motorized focus speed, motorized X-Y speeds can be adjusted independently of each other, and synchronization settings can be made, and these settings must be stored and recorded for at least twenty (20) different physicians. The light intensity setting must also be made from the LCD display control panel.

**Read (new text):**

**Item Number 6.2.12.**

On the microscope base, there shall have an LCD display panel on which the motorized zoom speed, motorized focus speed, motorized X-Y speeds can be adjusted independently of each other, and synchronization settings can be made, and these settings must be stored and recorded for at least **ten (10)** different physicians. The light intensity setting must also be made from the LCD display control panel.

**Instead of (the former text):**

**Item Number 6.2.13**

At least 14-function waterproof wireless footswitch shall be provided with the microscope. Physician, through the footswitch, can change the motorized zoom, change the motorized focus, provide motorized movement in +/- Y and +/- X axis, turn on/off the light, increase/decrease the light,

**Read (new text):**

**Item Number 6.2.13**

At least 14-function waterproof wireless footswitch shall be provided with the microscope. Physician, through the footswitch, can change the motorized zoom, change the motorized focus, provide motorized movement in +/- Y and +/- X axis, turn on/off the light, increase/decrease the light, and focus centering operations can be controlled from the footswitch. There must also be a spare switch on this for the must the functions that may be added in the future.

**Instead of (the former text):**

**Item Number 6.2.14**

and focus centering operations can be controlled from the footswitch. There must also be a spare switch on this for the must the functions that may be added in the future.

**Read (new text):**

**Item Number 6.2.14**

**Instead of (the former text):**

**Item Number 6.2.14.1.**

**Systems with fibre optic cabling:** In order to protect sterilization during surgery, the light must be transmitted to the optic head of the microscope through fibre optic cable and shall have a cold light source that operates with coaxial ophthalmic LED illumination, which is transmitted through a fibre optic cable to the microscope optical head. The SCI (Stereo Coaxial Illumination) triple light system and the "field depth control system" motorized diaphragm control system integrated in the microscope optical head must be included to increase the red reflex density. These systems must have the possibility to be set up with a key or by means of grippers or touch control panel. In addition, microscope HaMode filter system should be available. The operating time of the LED bulb can be viewed digitally or resettable on alternate bulb transitions, or LED failure warning light.

**Read (new text):**

**Item Number 6.2.14.1.**

**Systems with fibre optic cabling:** In order to protect sterilization during surgery, the light must be transmitted to the optic head of the microscope through fibre optic cable and shall have a cold light source that operates with coaxial ophthalmic LED illumination, which is transmitted through a fibre optic cable to the microscope optical head. The SCI (Stereo Coaxial Illumination) triple light

system **or C.RED system etc.** and the "field depth control system" motorized **or manual** diaphragm control system integrated in the microscope optical head must be included to increase the red reflex density. These systems must have the possibility to be set up with a key or by means of grippers or touch control panel. In addition, microscope HaMode **or Softlight** filter system should be available. The operating time of the LED bulb can be viewed digitally or resettable on alternate bulb transitions, or LED failure warning light.

**Instead of (the former text):**

Item Number **6.2.15.**

The device must have UV (Ultra Violet), IR (Infra-Red), Blue Barrier Filter or Macula-Protective Filter, Contrast Stroke Filter and HaMode Filter or 2 filter sockets to integrate different desired type of filters.

**Read (new text):**

Item Number **6.2.15.**

The device must have UV (Ultra Violet), IR (Infra-Red), Blue Filter or Macula-Protective Filter, Contrast Stroke Filter and HaMode Filter or 2 filter sockets to integrate different desired type of filters.

**Instead of (the former text):**

Item Number **6.2.16.**

Factory-integrated slit lighting and keratoscope shall be included in the microscope. In addition, there must be an overhead display on the arm carrying the optical system, which allows the physician to see parameters such as light power, focus position, and recording status used during surgery.

**Read (new text):**

Item Number **6.2.16.**

Factory-integrated **or external added** slit lighting and keratoscope shall be included in the microscope. In addition, there must be an overhead display on the arm carrying the optical system, which allows the physician to see parameters such as light power, focus position **or** recording status used during surgery.

**Instead of (the former text):**

Item Number **6.3.1.**

With surgical microscope; factory-mounted light separator, 3-chip technology with 1920x1080 pixel resolution, Full HD with 1 unit of 3CCD or 3CMOS image sensor, built-in microscope optical head directly into the microscope without requiring a C-mount connector, the medical-purpose Camera System shall be integrated with the microscope.

**Read (new text):**

Item Number **6.3.1.**

The medical-purpose and microscope integrated Camera System shall be provided with the surgical microscope. This Camera system shall be factory-mounted or light separator, which may be connected with a C-mount connector, is a product of the same producer as microscope in order to ensure the maximum coherence, has 3-chip technology with 1920x1080 pixel resolution, Full HD with 1 unit of 3CCD or 3CMOS image sensor, built-in microscope optical head directly into the microscope without requiring, the medical-purpose Camera System shall be integrated with the microscope.

**Instead of (the former text):**

Item Number **6.3.2.**

The recording unit, which allows patient information management, must also be integrated in the

microscope. The Full HD recording system must have at least 500GB of internal memory. USB memory or External Disk. In addition to this equipment, at least 2 TB of external disk should be provided..

**Read (new text):**

**Item Number 6.3.2.**

The recording must allow patient information management. The Full HD recording system must have at least 500GB of internal memory. It shall be able to record in USB memory or External Disk. In addition to this equipment, at least 2 TB of external disk should be provided.

**Instead of (the former text):**

**Item Number 6.3.4.**

1 professional at least 40"(inch)-sized Full HD LCD monitor, along with the wall mounting accessories, shall be provided to watch the camcorder records. The monitor must meet the following specifications;

For compatibility, the monitor shall be the same brand as the medical recorder that will be purchased with the system. The monitor is a professional monitor and shall be at least 7/17 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least 200Hz. The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and USB inputs. The monitor must have RF connection input. The monitor must have the Wi-Fi Direct connection feature. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.

**Read (new text):**

**Item Number 6.3.4.**

1 professional at least 40"(inch)-sized Full HD LCD monitor, along with the wall mounting accessories, shall be provided to watch the camcorder records. The monitor must meet the following specifications;

**The monitor shall run in full compatibility with surgical microscope.** The monitor is a professional monitor and shall be at least 7/16 usable. Television shall not be given. The monitor must have at least Full HD (1080p) resolution. The monitor must have a motion flow rate of at least **148,5Hz in 1920X1080 resolution.** The viewing angle of the monitor shall be 178 degrees (89/89/89/89) from the right, left, above, and below. The monitor shall have 16:9 aspect ratios and must support 4: 3 and 14: 9 ratios. The monitor must have an Integrated Wireless LAN feature. The monitor must have at least 2 HDMI and 1 USB inputs. The monitor must have RF **or IR** connection input. The monitor must have an Ethernet connection. Software updates must be made via Network connection. At least 5W + 5W integrated speaker system must be available. The monitor must conform to VESA connection standards. The monitor shall have a maximum energy consumption of 150W.