CORRIGENDUM No: 1 to the TENDER DOSSIER

Contract Title: Supply of Medical Equipment for the Secondary Healthcare Premises – 2nd Phase

Publication Reference: SIHHAT/2019/SUP/INT/20

DOC.: Document
ART: Article
ITT: c4b_itt_en [Instructions to Tenderers]*
SC: c4d_specialconditions_en [Special Conditions]*
TS: c4f_annexiitechspeciiitechoffer_en [Annex II + III: Technical Specifications + Technical Offer]*
Ann: Annex V.i - Warranty Proposal [Annex V.i - Warranty Obligations Form_New]
App: Appendix B - Training Proposal [Appendix B – Training Proposal to Annex II+III_New]
** In-parenthesis parts show the title inside the documents.*

Further to the requests received from the tenderers, the following clarifications are provided.

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1	ITT	-	19.2	The tenders will be opened in public session on 08.06.2020 at 14:30 (local time) at Directorate General of Public Health (DGoPH) Daniş Tunalıgil Sokak No. 3/5 Demirtepe / Ankara, Turkey by the appointed committee. The committee will draw up minutes of the meeting, which will be available on request.	The tenders will be opened in online public session (via Skype) on 08.06.2020 at 14:30 (local time) by the appointed committee. Starting from 14:30, 30 (thirty) minutes will be given for each lot accordingly. Detailed information regarding the methodology of the opening session will be provided to each tenderer via an e-mail before the tender opening. The minutes of the meeting will be recorded and be available on request.
2	SC	-	32.6	The Contractor shall warrant that the supplies are new, unused, of the most recent models and incorporate all recent improvements in design and materials. The Contractor shall further warrant that none of the supplies have any defect	All supplies must have at least 4 (four) years commercial warranty additional to warranty mentioned under article 32.7. The commercial warranty must remain valid for 4 (four) years for all lots after warranty (which means the

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				arising from design, materials or workmanship. During the contractual warranty mentioned under article 32.7, in any case resulting from deficiency or any other problem of the goods: • All design, workmanship, manufacturing, material and montage related problems and possible damages come out of these problems should be fixed during the guarantee period by the supplier. • The warranty must remain valid for 1 (one) year for all lots after provisional acceptance and in any case shall be in compliance with the requirements in the Technical Specifications, Annex II + III. and all supplies must have at least 5 (five) years commercial warranty additional to warranty. The requirements in the technical specifications have precedence in terms of warranty obligations. • Response time: Contractor shall troubleshoot within 24 hours (online or via phone). If the problem cannot be solved online or via phone support, Contractor shall be available or act on site within 3 days. • Repair time: Within 30 calendar days from the receipt of the malfunctioning goods. If during 30 calendar days, it is foreseen that the goods cannot be repaired and the malfunction is not fault of the operator, corresponding functional item should be provided until malfunctioning goods is repaired. • All duration that may be passed in the repairing in the warranty duration, should be added to original guarantee period. • Only original or approved by the manufacturer(s) spare parts should be used in any repair service • Contractor should be authorised by the manufacturer(s) maintenance service centre(s) or should have a contract with	warranty period for all goods under each lot will be overall **5 years** - *warranty+commercial warranty*-) and in any case shall be in compliance with the requirements in the Technical Specifications, Annex II + III and Commercial warranty as granted by the manufacturer. The requirements in the technical specifications have precedence in terms of warranty obligations The Contractor shall warrant that the supplies are new, unused, of the most recent models and incorporate all recent improvements in design and materials. The Contractor shall further warrant that none of the supplies have any defect arising from design, materials or workmanship. Warranty Provided by the Tenderer; 32.6.1 All design, workmanship, manufacturing, material and montage related problems and possible damages come out of these problems should be fixed during the guarantee period by the supplier. 32.6.2 Response time: Contractor shall troubleshoot within 24 hours (online or via phone). If the problem cannot be solved online or via phone support, Contractor shall be available or act on site within 3 days. 32.6.3 Repair time: Within 30 calendar days from the receipt of the malfunctioning goods. If during 30 calendar days, it is foreseen that the goods cannot be repaired and the malfunction is not fault of the operator, corresponding functional item should be provided until malfunctioning goods is repaired. 32.6.4 All duration that may be passed in the repairing in the warranty duration, should be added to original guarantee period.

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				such service centre(s) for the time of the implementation and contractual warranty period of all goods. All goods supplied under this contract shall also be accompanied by a commercial (manufacturer) warranty pursuant to the provisions of the 07/11/2013 dated and 6502 numbered Turkish Law on Consumer Rights and relevant regulations (if applicable). Please refer to the following links for the current Turkish Law on Consumer Rights and regulations: • http://www.resmigazete.gov.tr/eskiler/2013/11/20131128-1.htm • https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=19783&MevzuatTur=7&MevzuatTertip=5	32.6.5 Only original or approved by the manufacturer(s) spare parts should be used in any repair service 32.6.6 Contractor should be authorised by the manufacturer(s) maintenance service centre(s) or should have a contract with such service centre(s) for the time of the implementation and contractual warranty period of all goods. All goods supplied under this contract shall also be accompanied by a commercial (manufacturer) warranty pursuant to the provisions of the 07/11/2013 dated and 6502 numbered Turkish Law on Consumer Rights and relevant regulations (if applicable).
3	SC	-	32.7	-	The warranty must remain valid for 1 (one) year after provisional acceptance.
4	TS	-	ART 1 / 1.5	Traffic registration and vehicle registration plate processing will be completed by the Contractor as free of charge after inspection and acceptance procedures.	Item has been removed.
5	TS	-	ART 3 / 3.7	The tender shall submit along with their bids the originals or notarized copies of the following documents, which certify that they are actually engaged in the business that is covered by the tender and pertain to the year in which the tender is conducted. Capacity Report, Industry Ministry after Sales Service Qualification Certificate, Industry Ministry Authorized Service Certificate, ISO 9001 Certificate.	The tender shall submit along with their bids the originals or notarized copies of the following documents, which certify that they are actually engaged in the business that is covered by the tender and pertain to the year in which the tender is conducted. TSE service adequacy certificate related with medical devices (TS 12426 / TS 13703 etc.) and ISO 9001 Certificate.
6	TS	-	ART 3 / 3.8 / 3.8.1.	It is mandatory that the products offered are registered in the National Information Bank of Medicine and Medical Device as of the date of the tender in accordance with the provisions of "Circular – 2010/11" dated 01.03.2010 and numbered 8310 from Republic of Turkey Ministry of Health Treatment Services General Directorate; and the products to be purchased must be approved by Republic of Turkey Ministry	It is mandatory that the products offered are registered in the National Information Bank of Medicine and Medical Device as of the date of the tender in accordance with the provisions dated 02.06.2017 and numbered E.1967 from Republic of Turkey Ministry of Health Treatment Services General Directorate; and the products to be purchased must be approved by Republic of Turkey Ministry of Health in

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				of Health in TİTUBB. A document showing that the products are approved (NDB printout) shall be added in to the tender file or it shall be asked before contract signature.	PTS. A document showing that the products are approved (NDB printout) shall be added in to the tender file or it shall be asked before contract signature.
7	TS	-	ART 3 / 3.9.	3.9 TRAINING Unless otherwise stated, the contractor at least 2 (two) days free training of at least 2 (two) staff to determine the use, maintenance, calibration, care and possible defects of the device with their trained staff. These trainings will be repeated up to 3 times for each device if requested during the warranty period. This requirement will be certified by the contractor in the tender file. The date and place which will be determined by the center. Documents and equipment's required for training shall be met by the Contractor.	3.9 TRAINING 3.9.1. For each type of equipment, trainings should be given at the delivery points (These are given in Appendix A to the Annex II+III technical specifications and technical offer.). If needed for the trainings, related supporting equipment, software, simulation systems, models, etc. should be given by the contractor. Training documents and instruction materials shall be provided for each of the training. 3.9.2. The trainings shall be provided in Turkish language or should be professionally translated into Turkish. 3.9.3. Unless otherwise stated, the contractor training of at least 2 (two) staff to determine the use, maintenance, calibration, care and possible defects of the device with their trained staff. These trainings will be repeated up to 3 times for each device if requested during the warranty period. The date and place which will be determined by the center. Documents and equipment's required for training shall be met by the Contractor. 3.9.4. Training shall be provided by qualified instructors certified by the manufacturers. The contractor is responsible to organize and finance under the budget of the contract the provision of all training courses. 3.9.5. A hardcopy handbook shall be prepared by the contractor, which shall be delivered to trainees during the training and shall include software and hardware training which is comprised of general explanation and installation of the system software, backup and diagnosis procedures, and all administrative operations, and general explanation

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					and installation, operation and basic functions of equipment and hardware maintenance. A softcopy of the handbook stored in a flash disk shall also be delivered to the trainees.
8	App	-	Appendix B	Appendix B Training Proposal to Annex II+III	Appendix B Training Proposal to Annex II+III_New
9	Ann	-	Annex V.i	Annex V.i - Warranty Obligation Form	Annex V.i - Warranty Obligation Form_New
Lot 1: Arthroscopic Imaging System					
10	TS	LOT 1	2.1.1.5	The number of colors shall be minimum 16,8 M.	The number of colors shall be minimum 16,7 M.
11	TS	LOT 1	2.1.1.6	The reaction rate shall be maximum 12ms.	The reaction rate shall be maximum 25ms.
12	TS	LOT 1	2.1.1.7	The monitor's pixel area shall be 0.31 mm X 0.31 mm.	The monitor's pixel area shall be min 0.15525 mm X 0.15525 mm.
13	TS	LOT 1	2.1.1.9	The monitor shall have 100mm, 200mm VESA standard.	The monitor shall have 100mm or 200mm VESA standard.
14	TS	LOT 1	2.1.1.10	The monitor shall have DVI Composite, RGB and S-Video inputs and DVI, 5V-DC, S-Video and Composite outputs.	The monitor shall have DVI or DVI-D, RGBS or HDMI, S-Video or SDI inputs and DVI or DVI-D, S-Video or SDI and 5V-DC or 24V-DC outputs.
15	TS	LOT 1	2.1.1.11	The monitor shall have PIP/PBP features.	The monitor shall have PIP or PBP or POP features.
16	TS	LOT 1	2.1.1.12	The monitor shall be designed in medical grade and have at least two of the following standards: EN 60601, IEC 60601, MDD 93/42/EEC, IEC 61000-4-6, FCC Part 15, Subpart B Class, UL60601 1, CAN/CSA C22.2 No 601.1 M90, FDA 510(K).	The monitor shall be designed in medical grade and have at least two of the following standards: EN 60601, IEC 60601, MDD 93/42/EEC, IEC 61000-4-6, FCC Part 15, Subpart B Class, UL60601 1, CAN/CSA C22.2 No 601.1 M90 or CAN/CSA C22.2 No 60601-1: 14 FDA 510(K).
17	TS	LOT 1	2.1.2.3	The platform shall be equipped with at least 2 DVI, at least 1 3G SDI, at least 2 interface and at least 1 LAN outputs.	The platform shall be equipped with at least 2 DVI-D, at least 1 3G-SDI, at least 2 interface or remote and at least 1 LAN or USB outputs.
18	TS	LOT 1	2.1.2.5	For Xenon or LED light sources running in light intensity of 5600°K - 6400°K, the white balance shall be adjusted with	For Xenon or LED light sources running in light intensity of 5600°K - 6500°K, the white balance shall be adjusted

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				the help of the buttons on the control unit and the programmable buttons on the camera head.	with the help of the buttons on the control unit and the programmable buttons on the camera head.
19	TS	LOT 1	2.1.2.6	In case the platform is included in the system, it shall be capable of controlling the cold light source, insufflator and medical professional archive systems.	In case the platform is included in the system, it shall be capable of controlling at least two of the following devices the cold light source and medical professional archive systems.
20	TS	LOT 1	2.1.2.10	It shall be possible to plug in a connection unit for video-endoscopes to the platform without modifying the existing system, or a second system shall be provided. Thus, rigid telescopes and video-telescopes shall be usable simultaneously and the two distinct images shall be monitored on the same display in the form of split display. This split image shall be stored without the need of an additional device.	Item has been removed.
21	TS	LOT 1	2.1.3.8	Rings in 2 different colors shall be put on the camera head, and the rings used in zoom and clarity adjustments shall be easily distinguishable.	Rings in 2 different colors or type shall be put on the camera head, and the rings used in zoom and clarity adjustments shall be easily distinguishable
22	TS	LOT 1	2.1.3.9	The camera head shall be suitable for use in STERRAD NX and STERIS V-PRO and Ethylene Oxide sterilization.	The camera head shall be suitable for use in STERRAD NX and STERIS V-PRO and Ethylene Oxide or Sterrad 100s sterilization
23	TS	LOT 1	2.1.5.1	It shall have a diameter of at least 3.5 mm and a length of at least 3000 cm.	It shall have a diameter of at least 2.8 mm and a length of at least **300** cm.
24	TS	LOT 1	2.1.6.6	Recording over the device shall be able to be performed on the touch screen with a dimension of minimum 12” and resolution of 1920 x 1080.	Recording over the device shall be able to be performed on the touch screen with a dimension of minimum 7” and resolution of 1920 x 1080.
25	TS	LOT 1	2.1.6.7	The device shall be of medical grade. The device shall be equipped with at least 8 USB and at least 2 RJ45 connections.	The device shall be of medical grade. The device shall be equipped with at least 3 USB and at least 1 RJ45 or LAN connections.
26	TS	LOT 1	2.1.6.10	It shall be possible to select the points where the recorded data will be stored and to create these points according to the user. If appropriate, it shall be possible to create a folder for each user in the existing network system of the hospital and to transfer the desired data to that folder.	It shall be possible to select the points where the recorded data will be stored and to create these points according to the user. If appropriate, it shall be possible to create a folder for each user or case in the existing network system of the hospital and to transfer the desired data to that folder.

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27	TS	LOT 1	2.1.6.17	It shall be possible to store photographs in BMP and JPG formats, and videos in MPEG-4, MPEG-2 and MOV formats.	It shall be possible to store photographs in BMP or PNG or JPG formats, and videos in MPEG-4, MPEG-2 and/or MOV formats.
28	TS	LOT 1	2.1.8	2 Pieces of High-Flow Arthroscope Sheath (6mm) with Two Stopcocks	2 pieces of high-flow arthroscope sheath (minimum 5,5mm) with Two Stopcocks
29	TS	LOT 1	2.1.8.2	It shall have a diameter of 6 mm and operating length of 13.5 cm.	It shall have a diameter of 6 (+- 0.5mm) mm and operating length of 13,5 (+-5mm) cm.
30	TS	LOT 1	2.1.9.6.4	The sheath diameter shall be 3 mm.	Item has been removed
31	TS	LOT 1	2.1.9.6.5	It shall be graded and have flat jaw.	It shall be graded
32	TS	LOT 1	2.2.2	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge for labor, assembly, transportation, etc. In addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or or intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge. However, in case of manufacturer declares that concerned products/devices can only be repaired with factory environment or concerned products/devices will be repair exchanged, attender shall provide the price of repair exchange as not to exceed 150% of the unit price of the device. In case of manufacturer stops producing spare parts, concerned products/devices will be changed with the same model or superior through repair exchange with price in this context. for labor, assembly, transportation, etc will be covered by the contractor without demanding any charge. In addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.”

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33	TS	LOT 1	2.2.6	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation.	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports (other than the calibration services specified in Test, Control and Calibration of Medical Devices Directive published in the official journal dated 5 June 2015 and numbered 29397) regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation."
34	TS	LOT 1	2.2.11	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least two (2) times a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least **one (1)** times a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.
35	TS	LOT 1	2.2.18	A lexan label shall be placed on the device/system by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other information deemed necessary by the Administration. The section of the device/system where this label is to be placed shall be determined by the Administration. The Contractor	A lexan label shall be placed on the device/system which are in nonsterile area and suitable for labeling, by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other information deemed necessary by the Administration. The section of the device/system where this label is to be placed

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				shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.	shall be determined by the Administration. The Contractor shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.
36	TS	LOT 1	2.2.19.1.	Maximum 2% of the unit price of the device excluding spare parts is taken as basis annually.	Maximum 3% of the unit price of the device excluding spare parts is taken as basis annually.
37	TS	LOT 1	2.2.19.2	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 5% of the unit price. The Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 6% of the unit price. The Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair
38	TS	LOT 1	2.2.19.5	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed 5% of the device price.	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed **6%** of the device price.
39	TS	LOT 1	2.2.19.6	Following the expiry of the warranty period, all the spare parts which are mounted on the device/system that is covered by the maintenance and repair contract shall have a warranty of at least 2 years while all the spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty of at least 1 year.	Following the expiry of the warranty period, the devices exchanged with the new one in the scope of exchange which are mounted on the device/system that are covered by the maintenance and repair contract shall have a warranty of at least 2 years and the devices that could be rapaired in the producing company's factory which are mounted on the device/system that are covered by the maintenance and repair contract shall have a warranty of 1 year while the other spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty 6 months as referred in the article 2.2.2. Previously mentioned periods shall be available for device/system that is not covered by the maintenance and repair contract.”
40	TS	LOT 1	2.2.31	Upon personnel rotation or user requests, the Contractor is obliged to meet the training requests made during the warranty period free of charge.	The contractor shall ensure that a training on the basic function and use of the device is delivered to users in all health facilities, where delivery and installation are made, by Application Specialists free of charge for at least 3

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					(three) days to be set by the Administration. These training shall be delivered a total of 3 times during the guarantee period. Application Specialists must have TCESIS Clinical Support Staff certification. In addition; a training on basic maintenance, first level fault detection and repair (fault codes and interpreting) shall be delivered by the contractor (technical service or application specialist) free of charge to conduct the works and operations specified in the service manual in relation to all functions of the System to the units of clinical engineering services within health facilities for at least 2 (two) days. These training shall be delivered a total of 3 times during the guarantee period on dates to be set by the Administration.
41	TS	LOT 1	2.2.39.1	2% of the unit price proposed for the telescope.	**3%** of the unit price proposed for the telescope.
42	TS	LOT 1	2.2.39.2	15% of the unit price proposed for the camera head,	18% of the unit price proposed for the camera head,
43	TS	LOT 1	2.2.39.3	7% of the unit price proposed for the Cold Light Source.	10% of the unit price proposed for the Cold Light Source.
44	TS	LOT 1	2.2.39.4	15% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.	18% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.
Lot 2: Endovision (ENT) Imaging System					
45	TS	LOT 2	2.1.b.	Modular Imaging Platform	Modular Imaging Platform or Camera Control Unit
46	TS	LOT 2	2.1.1.5.	The reaction rate shall be maximum 12ms.	The reaction rate shall be maximum 25ms
47	TS	LOT 2	2.1.1.6.	The brightness shall be minimum 500cd/m^2.	The brightness shall be minimum 360cd/m^2
48	TS	LOT 2	2.1.1.8.	The monitor shall have 100mm, 200mm VESA standard.	The monitor shall have 100mm or 200mm VESA standard.
49	TS	LOT 2	2.1.1.9.	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI inputs.	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI or display port inputs.

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50	TS	LOT 2	2.1.1.10.	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI outputs	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI or S-video outputs.
51	TS	LOT 2	2.1.2	Modular Imaging Platform	Modular imaging platform or Modular camera control unit
52	TS	LOT 2	2.1.2.1.	The Platform's color system shall be PAL, and it shall run at a mains power of 100-240 VAC, 50/60 Hz and have a protection against electrical shocks, and it shall be of Class 1 - Type CF.	The Platform's or control units' color system shall be PAL, and it shall run at a mains power of 100-240 VAC, 50/60 Hz and have a protection against electrical shocks, and it shall be of Class 1 - Type CF or BF
53	TS	LOT 2	2.1.2.2.	The platform shall be capable of transmitting the image elements to comply with the medical grade monitor with a resolution of minimum 1920 x 1080 pixels and in 16:9 format.	The platform or camera control unit shall be capable of transmitting the image elements to comply with the medical grade monitor with a resolution of minimum 1920 x 1080 pixels and in 16:9 format.
54	TS	LOT 2	2.1.2.3.	The platform shall be equipped with at least 1 DVI, 1 3G-SDI or 1 HD-SDI and 1 DV or LAN outputs.	The platform or camera control unit shall be equipped with at least 1 DVI, 1 3G-SDI or 1 HD-SDI and 1 DV or LAN or at least 1 Y/C or 1 BNC outputs.
55	TS	LOT 2	2.1.2.4.	Minimum 2 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes. With these ports, storing the photographs and/or videos with resolution of 1920 x 1080 pixels without needing an external storage system shall be possible.	Minimum 2 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes. With these ports, storing the photographs and/or videos with resolution of 1920 x 1080 pixels shall be possible.
56	TS	LOT 2	2.1.2.	Modular Imaging Platform	Modular Imaging Platform or Modular Camera Control Unit
57	TS	LOT 2	2.1.2.4.	Minimum 2 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes. With these ports, storing the photographs and/or videos with resolution of 1920 x 1080 pixels without needing an external storage system shall be possible.	Minimum 2 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes. With these ports, storing the photographs and/or videos with resolution of 1920 x 1080 pixels shall be possible.
58	TS	LOT 2	2.1.2.5	For Xenon or LED light sources running in light intensity of 5600°K - 6400°K, the white balance shall be adjusted with the help of the buttons on the control unit and the programmable buttons on the camera head.	For Xenon or LED light sources running in light intensity of 5600°K - 6500°K, the white balance shall be adjusted with the help of the buttons on the control unit and the programmable buttons on the camera head.

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59	TS	LOT 2	2.1.2.6.	In case the platform is included in the system, it shall be capable of controlling the cold light source and medical professional archive systems.	In case the platform or camera control unit is included in the system, it shall be capable of controlling the cold light source and medical professional archive systems.
60	TS	LOT 2	2.1.2.7.	Information such as patient's first name, patient's last name, and patient's gender, patient's birth date, patient ID, physician's name, name of the procedure to be implemented and institution name shall be entered via keyboard that can be connected to the platform.	Information such as patient's first name, patient's last name, and patient's gender, patient's birth date, patient ID, physician's name, name of the procedure to be implemented and institution name shall be entered via keyboard that can be connected to the platform or endoscopic image recording and archiving unit
61	TS	LOT 2	2.1.2.8.	The modular imaging platform shall provide options that can be adapted to different procedures or user preferences, and these options shall be recorded individually for each procedure and user.	The modular imaging platform or camera control unit shall provide options that can be adapted to different procedures or user preferences, and these options shall be recorded individually for each procedure and user.
62	TS	LOT 2	2.1.2.10.	It shall be possible to plug in a connection unit for video-endoscopes to the platform without modifying the existing system, or a second system shall be provided. Thus, rigid telescopes and video-telescopes shall be usable simultaneously and the two distinct images shall be monitored on the same display in the form of split display. This split image shall be stored without the need of an additional device.	Item has been removed.
63	TS	LOT 2	2.1.2.11.	With different displaying options, the modular imaging platform shall be able to display the standard Full HD image side-by-side on a single display without needing any additional equipment so that these displaying options can be compared to the standard image and the differences between them can be revealed more easily. The videos and photographs of the images which are put side-by-side shall also be recordable from the USB ports on the platform without needing any additional equipment.	With different displaying options, the modular imaging platform or camera control unit shall be able to display the standard Full HD image side-by-side on a single display without needing any additional equipment to make comparison so that these displaying options can be compared to the standard image and the differences between them can be revealed more easily. The videos and photographs of the images which are put side-by-side shall also be recordable from the USB ports on the platform without needing any additional equipment.
64	TS	LOT 2	2.1.3.1.	The HD Camera Head shall be compatible with the modular imaging platform which provides different displaying	The HD Camera Head shall be compatible with the modular imaging platform which provides different

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				options during operation, and shall have electric shock protection, and shall be of Class 1-Type CF.	displaying options during operation, and shall have electric shock protection, and shall be of Class 1-Type CF or BF
65	TS	LOT 2	2.1.3.4.	The HD Camera Head shall be compatible with the modular imaging platform which provides at least four different displaying options during operation, and shall have electric shock protection. It shall be of Class 1-Type CF.	The HD Camera Head shall be compatible with the modular imaging platform or camera control unit which provides at least four different displaying options during operation, and shall have electric shock protection. It shall be of Class 1 - Type CF or BF.
66	TS	LOT 2	2.1.3.10.	The camera head shall be suitable for use in STERRAD NX, STERIS V-PRO and Ethylene Oxide and/or Autoclave sterilization.	The camera head shall be suitable for use in STERRAD NX and STERIS V-PRO and/or Ethylene Oxide sterilization or LTSF
67	TS	LOT 2	2.1.4.5.	The cold light source proposed shall be equipped with interface input/output and an interface cable shall be delivered. With this feature, the functions such as light intensity adjustment, switching to “stand-by” position and reactivation via a connection with a camera which is equipped with interface input/output, shall be displayed on the monitor with the camera.	The cold light source proposed shall be equipped with interface or remote input/output and an interface or remote cable shall be delivered. With this feature, the functions such as light switching and reactivation via a connection with a camera which is equipped with interface or remote input/output.
68	TS	LOT 2	2.1.4.6.	The cold light source shall be delivered with 1 power cord and 1 interface connection cable.	The cold light source shall be delivered with 1 power cord and 1 interface or remote connection cable.
69	TS	LOT 2	2.1.5.1.	It shall have a diameter of at least 3.5 mm and a length of at least 300 cm.	It shall have a diameter of at least 2.8 mm and a length of at least 300 cm.” to promote competition.
70	TS	LOT 2	2.1.6.2.	The device shall be capable of recording the images from Full HD, 3D and 4K sources.	The device shall be capable of recording the images from Full HD and 3D or 4K sources.
71	TS	LOT 2	2.1.6.5.	The resolution of the recorded videos and photographs shall be minimum 1920x1080 pixels. It shall be capable of recording the videos from 4K sources with a resolution of 3840x2160 pixels.	The resolution of the recorded videos and photographs shall be minimum 1920x1080 pixels.
72	TS	LOT 2	2.1.6.6.	Recording over the device shall be able to be performed on the touch screen with a dimension of minimum 12” and resolution of 1920 x 1080.	Recording over the device shall be able to be performed on the touch screen with a dimension of minimum 7” and resolution of 1920 x 1080.
73	TS	LOT 2	2.1.6.7.	The device shall be of medical grade. The device shall be equipped with at least 6 USB and at least 1 RJ45 connections.	The device shall be of medical grade. The device shall be equipped with at least 3 USB and at least 1 RJ45 or LAN connections

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74	TS	LOT 2	2.1.6.8.	The internal hard disk capacity of the device shall be minimum 2TB.	The internal hard disk capacity of the device shall be minimum 1TB.
75	TS	LOT 2	2.1.6.10.	It shall be possible to select the points where the recorded data will be stored and to create these points according to the user. If appropriate, it shall be possible to create a folder for each user in the existing network system of the hospital and to transfer the desired data to that folder.	It shall be possible to select the points where the recorded data will be stored and to create these points according to the user. If appropriate, it shall be possible to create a folder for each user **or case** in the existing network system of the hospital and to transfer the desired data to that folder.
76	TS	LOT 2	2.1.6.17.	It shall be operated at a mains power of 100-240 V AC, 50/60 Hz. It shall be possible to store photographs in BMP and JPG formats, and videos in MPEG-4, MPEG-2 and MOV formats.	It shall be operated at a mains power of 100-240 V AC, 50/60 Hz. It shall be possible to store photographs in BMP and JPG formats, and videos in MPEG-4 and MPEG-2 or MOV formats.
77	TS	LOT 2	2.1.6.18.	It shall be possible to store photographs in BMP and JPG formats, and videos in MPEG-4, MPEG-2 and MOV formats.	It shall be possible to store photographs in BMP or PNG and JPG formats, and videos in MPEG-4 or MPEG-2 or MOV formats.
78	TS	LOT 2	2.1.7.2	2.1.7.2. 1 Pieces of 70° Telescopes 2.1.7.2.1. It shall be lateral and wide-angle. 2.1.7.1.2. It shall have a diameter of 4 mm and angle of 70 degrees. 2.1.7.1.3. Its length shall be 18 cm. 2.1.7.1.4. It shall have fiber optic light transmission. 2.1.7.1.5. It shall be autoclavable. 2.1.7.1.6. It shall be delivered with the sterilization container.	**Sub-item numbers has been revised as follows:** 2.1.7.2. 1 Pieces of 70° Telescopes 2.1.7.2.1. It shall be lateral and wide-angle. **2.1.7.2.2**. It shall have a diameter of 4 mm and angle of 70 degrees. **2.1.7.2.3**. Its length shall be 18 cm. **2.1.7.2.4**. It shall have fiber optic light transmission. **2.1.7.2.5.** It shall be autoclavable. **2.1.7.2.6.** It shall be delivered with the sterilization container.
79	TS	LOT 2	2.2.2.	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge for labor, assembly, transportation, etc. In	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or or intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge. However, in case of manufacturer

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				addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.	declares that concerned products/devices can only be repaired with factory environment or concerned products/devices will be repair exchanged, attender shall provide the price of repair exchange as not to exceed 150% of the unit price of the device. In case of manufacturer stops producing spare parts, concerned products/devices will be changed with the same model or superior through repair exchange with price in this context. for labor, assembly, transportation, etc will be covered by the contractor without demanding any charge. In addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.
80	TS	LOT 2	2.2.6.	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation.	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports (other than the calibration services specified in Test, Control and Calibration of Medical Devices Directive published in the official journal dated 5 June 2015 and numbered 29397) regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation.
81	TS	LOT 2	2.2.7.	The Contractor shall eliminate manufacturing/production defects, design defects, improper and non-standard mounting, material and workmanship defects, and replace the parts which cannot be repaired during the warranty period. The Contractor shall be fully responsible for the damages to the administration/health care facility or third	2.2.7. The Contractor shall eliminate manufacturing/production defects, design defects, improper and non-standard mounting, material and workmanship defects, and replace the parts which cannot be repaired during the warranty period. The Contractor shall be fully responsible for the damages to the

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				parties due to manufacturing/production defects, design defects, improper and non-standard mounting, and material and workmanship defects during the warranty period or the subsequent period. Acceptance of the device shall not terminate or eliminate the responsibility of the Contractor. The Contractor shall also be responsible for the damages to the administration/health care facility and third parties that will be caused by any kind of spare parts, accessories, auxiliary equipment, peripheral elements, and consumables without exception including the original and non-standard limited-life parts supplied by the contractor. However, certification of intervention to the device within or after the warranty period by persons other than the contractor shall terminate the responsibility of the Contractor.	administration/health care facility or third parties due to manufacturing/production defects, design defects, improper and non-standard mounting, and material and workmanship defects during the warranty period or the subsequent period. Each kind of improper use caused by the user is out of the warranty provided by the contractor company. Acceptance of the device shall not terminate or eliminate the responsibility of the Contractor. The Contractor shall also be responsible for the damages to the administration/health care facility and third parties that will be caused by any kind of spare parts, accessories, auxiliary equipment, peripheral elements, and consumables without exception including the original and non-standard limited-life parts supplied by the contractor. However, certification of intervention to the device within or after the warranty period by persons other than the contractor shall terminate the responsibility of the Contractor.
82	TS	LOT 2	2.2.11.	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least two (2) times a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least one (1) time a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.
83	TS	LOT 2	2.2.18.	A lexan label shall be placed on the device/system by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other information deemed necessary by the Administration. The	A lexan label shall be placed on the device/system which are in non sterile area and suitable for labeling, by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other

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				section of the device/system where this label is to be placed shall be determined by the Administration. The Contractor shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.	information deemed necessary by the Administration. The section of the device/system where this label is to be placed shall be determined by the Administration. The Contractor shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.
84	TS	LOT 2	2.2.19.1	Maximum 2% of the unit price of the device excluding spare parts is taken as basis annually.	Maximum 3% of the unit price of the device excluding spare parts is taken as basis annually."
85	TS	LOT 2	2.2.19.2	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 5% of the unit price. The Contractor shall fulfil the request unconditionally once it receives the request for maintenance and repair.	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 8% of the unit price. The Contractor shall fulfil the request unconditionally once it receives the request for maintenance and repair.
86	TS	LOT 2	2.2.19.5	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed 5% of the device price.	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed 8% of the device price.
87	TS	LOT 2	2.2.19.6	Following the expiry of the warranty period, all the spare parts which are mounted on the device/system that is covered by the maintenance and repair contract shall have a warranty of at least 2 years while all the spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty of at least 1 year.	"Following the expiry of the warranty period, the devices exchanged with the new one in the scope of exchange which are mounted on the device/system that are covered by the maintenance and repair contract shall have a warranty of at least 2 years and the devices that could be rapaired in the producing company's factory which are mounted on the device/system that are covered by the maintenance and repair contract shall have a warranty of 1 year while the other spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty 6 months as referred in the article 2.2.2. Previously mentioned periods shall be available for device/system that is not covered by the maintenance and repair contract.

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88	TS	LOT 2	2.2.31.	Upon personnel rotation or user requests, the Contractor is obliged to meet the training requests made during the warranty period free of charge.	The contractor shall ensure that a training on the basic function and use of the device is delivered to users in all health facilities, where delivery and installation are made, by Application Specialists free of charge for at least 3 (three) days to be set by the Administration. These training shall be delivered a total of 3 times during the guarantee period. Application Specialists must have TCESIS Clinical Support Staff certification. In addition; a training on basic maintenance, first level fault detection and repair (fault codes and interpreting) shall be delivered by the contractor (technical service or application specialist) free of charge to conduct the works and operations specified in the service manual in relation to all functions of the System to the units of clinical engineering services within health facilities for at least 2 (two) days. These training shall be delivered a total of 3 times during the guarantee period on dates to be set by the Administration.
89	TS	LOT 2	2.2.39.1.	2% of the unit price proposed for the telescope.	3% of the unit price proposed for the telescope.
90	TS	LOT 2	2.2.39.2.	15% of the unit price proposed for the camera head,	18% of the unit price proposed for the camera head,
91	TS	LOT 2	2.2.39.3.	7% of the unit price proposed for the Cold Light Source.	10% of the unit price proposed for the Cold Light Source.
92	TS	LOT 2	2.2.39.4.	15% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.	18% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.
Lot 3: Laparoscopic Imaging System					
93	TS	LOT 3	2.1.a	Medical Grade LED Monitor	Medical Grade LED or TFT Monitor
94	TS	LOT 3	2.1.1	Medical Grade LED Monitor	Medical Grade LED or TFT Monitor
95	TS	LOT 3	2.1.1.9	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI inputs.	The monitor shall be equipped with at least one of the 3G-SDI, DVI or DVI-D, SDI inputs.
96	TS	LOT 3	2.1.1.10	The monitor shall be equipped with at least one of the 3G-SDI, DVI, SDI outputs.	The monitor shall be equipped with at least one of the 3G-SDI, DVI or DVI-D, SDI outputs.
97	TS	LOT 3	2.1.2.1	The modular imaging platform or camera control unit shall run at a mains power of 100-240 VAC, 50/60 Hz and have a	The modular imaging platform or camera control unit shall run at a mains power of 100-240 VAC, 50/60 Hz and have

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				protection against electrical shocks, and be of Class 1 - Type CF.	a protection against electrical shocks, and It shall be of Class 1 - Type CF or BF according to connected camera type.
98	TS	LOT 3	2.1.2.3	The Modular Imaging Platform shall be equipped with at least 1 3G-SDI, at least 2 DVI-D outputs and at least 3 link inputs, or at least 2 HDMI, at least 2 3G-SDI, at least 2 remote inputs and PIP in and Analog out.	The Modular Imaging Platform shall be equipped with at least 1 3G-SDI, at least 2 DVI-D outputs and at least 3 link inputs, or at least 2 HDMI, at least 2 3G-SDI, at least 2 remote inputs and PIP in and Analog out or at least 2 DVI-D, at least 4 3G-SDI.
99	TS	LOT 3	2.1.2.4	At least 4 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes. With these ports, storing the photographs and/or videos with resolution of 1920 x 1080 pixels without needing an external storage system shall be possible.	4 USB ports shall be equipped and portable flash disk or printer shall be connectible to these USB ports for recording purposes or we are able to connect a recording platform with min. 3 USB ports. With these ports, storing the photographs and videos with resolution of 1920 x 1080 pixels without needing an external storage system shall be possible.
100	TS	LOT 3	2.1.2.6	The modular imaging platform or camera control unit shall be equipped with LED Cold Light Source, Digitally Heated Insufflator and Medical Archiving Station control function.	The modular imaging platform or camera control unit shall be equipped with LED Cold Light Source, Digitally Heated Insufflator and Medical Archiving Station control function or self control function for each module.
101	TS	LOT 3	2.1.2.11	It shall be possible to use video flexible cystoscope and ureteroscope with the camera processor compatibly.	It shall be possible to use video or fiber flexible cystoscope and ureteroscope or 2D, 3D, 4K camera with the camera processor compatibly.
102	TS	LOT 3	2.1.2.12	The platform shall allow operations under white light as well as fluorescent imaging (ICG) which is used in tissue perfusion control via equipment to be included in the modular imaging platform, or a compatible external fluorescent imaging (ICG) set shall be proposed with the system.	The platform shall allow operations under white light as well as fluorescent imaging (ICG) which is used in tissue perfusion control via equipment to be included in the modular imaging platform, or 4 different displaying imaging mode (PIET) shall be proposed with the system.
103	TS	LOT 3	2.1.3.2	The HD Camera Head shall be compatible with the modular imaging platform which provides at least 4 different displaying options during operation, and shall have electric shock protection, and shall be of Class 1-Type CF.	The HD Camera Head shall be compatible with the modular imaging platform which provides at least 4 different displaying options during operation, and shall have electric shock protection, and shall be of Class 1-Type CF or BF.

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104	TS	LOT 3	2.1.3.3	HD Camera Head shall incorporate 3 chip CCD technology. The optical images acquired shall be digitized in the CCD-sensitive chip in the camera head, thus the risk of image quality degradation and formation of interference due to external factors (Electrocautery, RF equipment, Shaver System, etc.) during the transfer of the image from the camera head to the modular imaging platform or camera control unit shall be eliminated.	HD Camera Head shall incorporate 3 chip CCD or 1 chip CMOS technology. The optical images acquired shall be digitized in the CCD-sensitive or CMOS-sensitive chip in the camera head, thus the risk of image quality degradation and formation of interference due to external factors (Electrocautery, RF equipment, Shaver System, etc.) during the transfer of the image from the camera head to the modular imaging platform or camera control unit shall be eliminated.
105	TS	LOT 3	2.1.3.4	The resolution shall be minimum 1920x1080P pixels and 16:9 image shall be provided.	The resolution shall be minimum 1920x1080P pixels and 16:9 image shall be provided and/or 3D, 4K camera head should be connected to the video platform without any additional module.
106	TS	LOT 3	2.1.3.5	An optical parfocal zoom lens shall be mounted on the Camera Head; and due to this integrated structure, liquid ingress into the camera head shall be prevented when it is used in environments containing intense liquid. The optical magnification of the lens shall be at least 2X, allowing to acquire images of sufficient size and quality on the monitor even when using small diameter telescopes, or an autoclavable C-mount zoom lens compatible with the proposed camera head and optimized for 1/3" sensors with optimized focal length of 13-29mm shall be delivered with the proposed camera head.	An optical parfocal zoom lens shall be mounted on the Camera Head; and due to this integrated structure, liquid ingress into the camera head shall be prevented when it is used in environments containing intense liquid. The optical magnification of the lens shall be at least 2X, allowing to acquire images of sufficient size and quality on the monitor even when using small diameter telescopes, or an autoclavable C-mount zoom lens compatible with the proposed camera head and optimized for 1/3" sensors with optimized focal length of 13-29mm or 16-32mm shall be delivered with the proposed camera head.
107	TS	LOT 3	2.1.3.7	The length of the HD Camera Head shall be at least 290 cm. The cable shall be detachable from the camera head if required. The camera head shall be replaceable individually by disassembly-reassembly method without requiring repair and source in case of a failure.	The length of the HD Camera Head shall be at least 290 cm. The cable shall be detachable from the camera head if required. The camera head shall be replaceable individually by disassembly-reassembly method without requiring repair and source in case of a failure or the camera cable must be integrated to the camera-head.
108	TS	LOT 3	2.1.3.8	The camera head shall be suitable for use in STERRAD NX, STERIS V-PRO and Ethylene Oxide and/or Autoclave sterilization.	The camera head shall be suitable for use in STERRAD NX, STERIS V-PRO and Ethylene Oxide and/or Autoclave sterilization or LTSF.

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109	TS	LOT 3	2.1.4.2	The color temperature shall be minimum 6000 K.	The color temperature shall be minimum 5600 K.
110	TS	LOT 3	2.1.4.3	The adjustment of light intensity shall be both automatic and manual.	Light intensity adjustment should be done automatically or manually.
111	TS	LOT 3	2.1.5.1	The four pieces of cables to be delivered shall have a diameter of at least 4.8 mm and a length of at least 300 cm.	The four pieces of cables to be delivered shall have a diameter of at least 4.25 mm and a length of at least 300 cm.
112	TS	LOT 3	2.1.6.1.2	Its length shall be 300 (+/- 10) mm.	Its length shall be 300 (+/- 20) mm.
113	TS	LOT 3	2.1.6.2.2	Its length shall be 300 (+/- 10) mm.	Its length shall be 300 (+/- 20) mm.
114	TS	LOT 3	2.1.7.6	The system shall have a touch screen; all the pressure and flow parameters shall be adjustable on this display and it shall possible to monitor these parameters on the touch screen on real time basis.	The system shall have a touch screen or panel; all the pressure and flow parameters shall be adjustable on this display and it shall possible to monitor these parameters on the touch screen or panel on real time basis.
115	TS	LOT 3	2.1.7.8	The device shall be equipped with a touch screen. All the pressure and flow parameters shall be adjustable on the device and it shall possible to monitor these parameters on the screen on real time basis.	The device shall be equipped with a touch screen or panel. All the pressure and flow parameters shall be adjustable on the device and it shall possible to monitor these parameters on the screen or panel on real time basis.
116	TS	LOT 3	2.1.7.13	The Insufflator shall be delivered with following accessories: • Power Cable (1 piece) • Universal Key (1 piece) • High pressure hose for carbon dioxide (CO2) tube connection (1 piece) • 200 pieces of disposable tube set and 10 pieces of reusable set (to be delivered by the preference of the hospital administration.)	The Insufflator shall be delivered with following accessories: • Power Cable (1 piece) • Universal Key (1 piece) • High pressure hose for carbon dioxide (CO2) tube connection (1 piece) •10 pieces of disposable tube set or 3 pieces of reusable set (to be delivered by the preference of the hospital administration.)
117	TS	LOT 3	2.2.2	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or	Before signing the contract, the contractor is obliged to submit the price list of all spare parts, accessories, auxiliary equipment, peripheral equipment, consumables including limited-life components so as not to exceed 150% of the unit price of the device, in the tender dossier. All the parts which are not specified in the price list unintentionally or

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				intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge for labor, assembly, transportation, etc. In addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.	or intentionally but needed later for the functioning of the device shall be supplied by the contractor without demanding any charge. However, in case of manufacturer declares that concerned products/devices can only be repaired with factory environment or concerned products/devices will be repair exchanged, attender shall provide the price of repair exchange as not to exceed 150% of the unit price of the device. In case of manufacturer stops producing spare parts, concerned products/devices will be changed with the same model or superior through repair exchange with price in this context. for labor, assembly, transportation, etc will be covered by the contractor without demanding any charge. In addition to the identification code, English and Turkish designations shall be given for the products to be included in the price list.
118	TS	LOT 3	2.2.6	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation.	Once any kinds of interventions to the device are completed (including the periodic maintenances), technical report shall be issued by the contractor's engineer/technical personnel in at least two copies and one copy shall be submitted to the officer of the corresponding department. During the warranty period, an annual report containing the failures, interventions, periodic maintenance and repairs, current situation, calibration reports (other than the calibration services specified in Test, Control and Calibration of Medical Devices Directive published in the official journal dated 5 June 2015 and numbered 29397) regarding the device shall be submitted to the administration of the relevant health care facility by the contractor in written form as of the date of device installation.
119	TS	LOT 3	2.2.13	At least 95% uptime warranty shall be provided for the device on annual basis during the warranty period by the Contractor.	At least 95% uptime warranty shall be provided for the device on annual basis during the warranty period by the Contractor. National holidays, weekends and force majeure

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					conditions shall not be included in this period. Approval duration of the institution for the quote of the repairing of devices shall not be included in this period under the circumstances specified as per article 11 titled User Error of Warranty Certificate Regulation"
120	TS	LOT 3	2.2.14	The intervention period following the date of failure notification is maximum 24 hours. This period starts on the date and at the time of notification of the device failure to contractor or authorized service by the relevant health care facility or the administration of the corresponding top management. Once the technical service is notified on the device failure, the device shall be delivered in operating state within 2 workdays following the failure notification if no spare part is needed and within latest 5 workdays following the failure notification if spare part is needed. In case of replacement of spare parts requiring import license, this period shall not exceed 20 workdays following the intervention.	The response time is a maximum of 72 hours from the date of failure notification. This period starts on the date and time that the device related fault is reported to the contractor or authorized service by the relevant health facility or the upper administration. In case of failure report to the technical service related to the device, 5 working days after the failure reported, if spare parts are not needed. If spare parts are required, the device will be delivered in working condition within 30 working days at the latest after the failure is reported. In case of replacement parts requiring import permission, this period shall not exceed 60 working days after the intervention..
121	TS	LOT 3	2.2.18	A lexan label shall be placed on the device/system by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other information deemed necessary by the Administration. The section of the device/system where this label is to be placed shall be determined by the Administration. The Contractor shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.	A lexan label shall be placed on the device/system **which are in non sterile area and suitable for labeling,** by the contractor with the dimensions shall be determined by the Administration. This label shall contain information such as administration and contractor information, name of the business, warranty period, acceptance date and other information deemed necessary by the Administration. The section of the device/system where this label is to be placed shall be determined by the Administration. The Contractor shall attach the label on the device once the sample label (its drawing in electronic medium or printed output) is approved by the Administration.
122	TS	LOT 3	2.2.19.1	Maximum 2% of the unit price of the device excluding spare parts is taken as basis annually.	Maximum **3%** of the unit price of the device excluding spare parts is taken as basis annually.

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123	TS	LOT 3	2.2.19.2	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 5% of the unit price. The Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair.	In case maintenance and repair contract including all spare parts necessary for the operation of the device is requested, this rate shall be maximum 8% of the unit price. The Contractor shall fulfil the request unconditionally once it receives the request for maintenance and repair.
124	TS	LOT 3	2.2.19.5	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed 5% of the device price.	Although a contract is signed with the Contractor excluding spare parts for 1 year, the total price of the spare parts which will be purchased during the contract period may not exceed 8% of the device price.
125	TS	LOT 3	2.2.39	In case a request is sent by the health facility to the contractor to use the existing laparoscopic system as 4K, all necessary hardware, software, workmanship, transportation, installation and similar services shall be included to the proposal without exceeding the 18% of the device's unit price. The Contractor shall make the existing system 4K compliant without exceeding the specified rate (during the warranty period and within 5 years after the warranty) and with no additional charges.	In case a request is sent by the health facility to the contractor to use the existing laparoscopic system as 4K, all necessary hardware, software, workmanship, transportation, installation and similar services shall be included to the proposal without exceeding the 25% of the device's unit price. The Contractor shall make the existing system 4K compliant without exceeding the specified rate (during the warranty period and within 5 years after the warranty) and with no additional charges."
126	TS	LOT 3	2.2.40.1	5% of the unit price proposed for the 4K monitor	15% of the unit price proposed for the 4K Monitor.
127	TS	LOT 3	2.2.40.2	2% of the unit price proposed for the telescope,	4% of the unit price proposed for the telescope.
128	TS	LOT 3	2.2.40.3	15% of the unit price proposed for the camera head,	18% of the unit price proposed for the camera head
129	TS	LOT 3	2.2.40.4	7% of the unit price proposed for the Cold Light Source,	10% of the unit price proposed for the Cold Light Source.
130	TS	LOT 3	2.2.40.5	10% of the unit price proposed for the insufflator,	13% of the unit price proposed for the insufflator.
131	TS	LOT 3	2.2.40.6	15% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.	18% of the unit price proposed for the Modular Imaging Platform or Camera Control Unit.
Lot 4: Optical Coherence Tomography (OBT/OCT) System/Ocular Tomography					
132	TS	LOT 4	1.2.12	The device shall have ECM (enhance choroidal mod) or EDI (enhanced depth imaging) mode. Thus, choroid shall be able to be visualized more clearly.	The device shall have ECM (enhance choroidal mod) or EDI (enhanced depth imaging) mode or C-gate adjustment. Thus, choroid shall be able to be visualized more clearly.

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133	TS	LOT 4	1.2.13.	The device shall have a front segment module and dual angle scan shall provide information on the iris and lens by using at least 15.5 mm technique. HD corneal and anterior chamber angle images shall be taken and interactive measurement devices shall be available for these images.	The device shall have a front segment module and dual angle scan shall provide information on the iris and lens by using at least 15.5 mm technique. HD corneal and anterior chamber angle images shall be taken, and interactive measurement tools shall be available for these images.
134	TS	LOT 4	1.2.14	With the device, shooting non-invasive, non-contrast 3x3, 6x6, 8x8 mm OCT angiography images. Hence, it shall enable the assessment of the retinal vascular structures quickly and easily.	With the device, shooting non-invasive, non-contrast 3x3, 6x6, 8x8 mm or 9x9 mm or 9x4,5 mm OCT angiography images. Hence, it shall enable the assessment of the retinal vascular structures quickly and easily.
135	TS	LOT 4	1.2.16	For DR follow-up and management, the device shall have automontage function for the OCTA images and hence it shall be capable of producing the wide-angle OCTA images easily.	For DR follow-up and management, the device shall have automontage function for the OCTA images and hence it shall be capable of producing the wide-angle OCTA images easily or device should do sub-segmentation of Deep Vascular Complex as Intermediate Capillary Plexus (ICP) and Deep Capillary Plexus (DCP) owing to its very high resolution image detection and processing capabilities.
136	TS	LOT 4	1.2.26	For maximum compliance, the device shall be compatible with motorized stand and of the same brand.	For maximum compliance, the device shall be compatible with the motorized stand brand.
137	TS	LOT 4	1.3.3.	All the goods requested with this specification (including limited-life parts, any kind of spare parts, accessories, auxiliary equipment, peripheral elements without exception, (excluding consumables) shall be included in a warranty of at least 5 (five) years once the device/system is accepted. During the warranty period, no fees shall be charged under the name of any service, maintenance, repair, calibration, limited-life parts, spare parts, accessories, auxiliary equipment, peripheral elements, labor, software update, transportation, etc. within the periods specified in the system catalogs and in case of a failure. The issuance of the warranty certificates of such devices in behalf of the Administration and submission of their original copies to the Administration is the contractor's obligation. If it is not possible to issue a guarantee certificate on behalf of the Administration, the	All the goods requested with this specification (including limited-life parts, any kind of spare parts, accessories, auxiliary equipment, peripheral elements without exception, (excluding consumables) shall be included in a warranty of at least 5 (five) years once the device/system is accepted. During the warranty period, no fees shall be charged under the name of any service, maintenance, repair, calibration, limited-life parts, spare parts, accessories, auxiliary equipment, peripheral elements, labor, software update, transportation, etc. within the periods specified in the system catalogs and in case of a failure. These terms do not cover environmental problems like fire, flood, earthquake etc. The issuance of the warranty certificates of such devices in behalf of the Administration and submission of their original copies to

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				Contractor shall submit to the Administration a certificate containing the warranty commitments. The Contractor shall ensure the elimination of the faults, defects and deficiencies, which will be detected in the device under the warranty, within the contract period by the warranting person or organization. The legal and financial rights of the Administration are reserved in case the Contractor fails to fulfill this obligation.	the Administration is the contractor's obligation. If it is not possible to issue a guarantee certificate on behalf of the Administration, the Contractor shall submit to the Administration a certificate containing the warranty commitments. The Contractor shall ensure the elimination of the faults, defects and deficiencies, which will be detected in the device under the warranty, within the contract period by the warranting person or organization. The legal and financial rights of the Administration are reserved in case the Contractor fails to fulfill this obligation.
138	TS	LOT 4	1.3.11.	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least two (2) times a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.	During the warranty period, the Contractor shall ensure that periodic metrology (test, check, calibration, inspection, validation) procedures of the device and all components (including accessories) are performed for at least one (1) time a year in compliance with the Circular on Procurement of Goods and Services Related to Medical Devices, Regulation on Testing, Control and Calibration of Medical Devices and Biomedical Metrology Practices Manual. Such services shall be provided by the Contractor free of charge during the warranty period.
139	TS	LOT 4	1.3.19.6.	Following the expiry of the warranty period, all the spare parts which are mounted on the device/system that is covered by the maintenance and repair contract shall have a warranty of at least 2 years while all the spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty of at least 1 year.	Following the expiry of the warranty period, all the spare parts which are mounted on the device/system that is covered by the maintenance and repair contract shall have a warranty of at least one year while all the spare parts which are mounted on the devices/systems that are not covered by the maintenance and repair contract shall have a warranty of at least 1 year.
140	TS	LOT 4	1.3.31.	Upon personnel rotation or user requests, the Contractor is obliged to meet the training requests made during the warranty period free of charge.	Upon personnel rotation or user requests, the Contractor is obliged to meet the training requests made during the whole warranty period three times totally free of charge.
141	TS	LOT 4	1.3.37	All requirements specified in the specification should be able to be seen in the catalogs accompanied by the file.	All requirements specified in the specification should be able to be seen in the catalogs and/or user manuals or

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					service manual or the device software or on device or any document related to the device accompanied by the file.
Lot 6: C-Arm Digital X-Ray Device - Medium Level					
142	TS	LOT 6	1.2.1	In the system, image intensifier and x-ray tube shall be mounted on an C-arm stand, and 2 (two) monitors and memory device shall be located on a separate wheeled table.	In the system, image intensifier and x-ray tube shall be mounted on a C-arm stand, and 2 (two) monitors and memory device shall be located on a separate wheeled table or FullHD split monitor on the C-arm Stand.
143	TS	LOT 6	1.2.8	It shall have DSA option, which includes pixel shift or remask or masking, landmark, roadmark or roadmap or subtraction modes.	It shall have DSA option, which includes pixel shift or remask or masking or mask, landmark, roadmark or roadmap or subtraction modes.
144	TS	LOT 6	1.3.1.3.	The SID on the C-arm shall be at least 98 cm.	The SID on the C arm shall be at least 95 cm.
145	TS	LOT 6	1.3.1.6	The angular movement (panning/wig wag) of the C-arm shall be at least +/- 10°.	The angular movement (panning/wig wag/swivel range) of the C-arm shall be at least +/- 10°.
146	TS	LOT 6	1.3.2.1	The x-ray generator shall have at least 2.3 kW power and at least 30 kHz high frequency or be of constant potential type.	The x-ray generator shall have at least 2 kW power and at least 30 kHz high frequency or be of constant potential type.
147	TS	LOT 6	1.3.2.3	In the continuous fluoroscopy current range, the lowest value shall be maximum 0.25 mA and the highest value shall be at least 5.4 mA. In the pulsed lower fluoroscopy current range, the lowest value shall be max. 3 mA and the highest value shall be at least 7 mA. In the pulsed fluoroscopy current range, the lowest value shall be maximum 2 mA and the highest value shall be at least 20 mA.	In the continuous fluoroscopy current range, the lowest value shall be maximum 0.25 mA and the highest value shall be at least 5.4 mA. In the pulsed lower fluoroscopy current range, the lowest value shall be max. 3 mA and the highest value shall be at least 7 mA. In the pulsed fluoroscopy current range, the lowest value shall be maximum 2 mA and the highest value shall be at least 16 mA.
148	TS	LOT 6	1.3.2.6	The tube or X-ray generator used in the proposed system shall be manufactured by the manufacturer of the C-arm.	The tube or X-ray generator used in the proposed system shall be manufactured by the manufacturer of the C-arm or different.
149	TS	LOT 6	1.3.3.2	The x-ray tube shall have double focus. The size of small focus shall be max. 0.6 mm and the size of the large focus shall be at least 1.4 mm. For single-focus systems, the size of the focus shall be 0.6 mm.	The x-ray tube shall have double focus. The size of small focus shall be max. 0.6 mm and the size of the large focus shall be max. 1.4 mm. For single-focus systems, the size of the focus shall be 0.6 mm.

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150	TS	LOT 6	1.3.4.5	The DQE ratio of the collimator shall be at least 65%.	The DQE ratio of the collimator or Image Intensifier shall be at least 65%.
151	TS	LOT 6	1.3.6.2	The device's memory capacity shall be minimum 150,000 images.	The device's memory capacity shall be minimum 100,000 images.
152	TS	LOT 6	1.3.6.4	The system shall have a special software to enhance image quality. The device shall have ODDC (Object Detected Dose Control) that can make automatic dose adjustment by detecting object and motion or EASY (Enhanced Acquisition System) or a feature which reduces motion blur thanks to dynamic movement adaptation or a feature that automatically adjusts contrast and brightness and ensure the production of sharp, low-dose images (IDEAL: Intelligent Dose Efficiency Algorithm). The companies shall show this feature in their original catalogues.	The system shall have a special software to enhance image quality. The device shall have ODDC (Object Detected Dose Control) that can make automatic dose adjustment by detecting object and motion or EASY (Enhanced Acquisition System) or a feature which reduces motion blur thanks to dynamic movement adaptation or a feature that automatically adjusts contrast and brightness and ensure the production of sharp, low-dose images (IDEAL: Intelligent Dose Efficiency Algorithm). The companies shall show this feature in their original catalogues. This is called ABS.
153	TS	LOT 6	1.3.6.6	The device shall have edge sharpening function.	The device shall have edge enhancement function.
154	TS	LOT 6	1.3.6.8	The image shall be able to be converted to negative and zoomed in.	The image shall be able to zoomed in.
155	TS	LOT 6	1.3.6.11	Digital Radiography	Digital Radiography or single image.
156	TS	LOT 6	1.3.6.19	The system shall have integrated CD or DVD writer or DVD Recorder. Images recorded on CD or DVD shall be able to be viewed on any PC.	The system shall have integrated USB output or CD or DVD writer or DVD Recorder. Images recorded on USB output or CD or DVD shall be able to be viewed on any PC.
157	TS	LOT 6	1.3.6.20	The device's workstation unit shall have at least 1.5 processor, at least 4 GB RAM memory and at least 2 pieces of USB 3.0 compliant drivers.	The device's workstation unit shall have at least 1.5 processor, at least 4 GB RAM memory and at least 1 piece of USB 2.0 or USB 3.0 compliant drivers.
158	TS	LOT 6	1.3.7.2	The system shall have at least two 18 "diagonal size LCD monitors and they shall be able to rotate at least +/- 90 degrees around themselves or be covered on top of each other.	The system shall have at least two 18 "diagonal size LCD monitors or FullHD 27" split monitor and they shall be able to rotate at least +/- 90 degrees around themselves or be covered on top of each other.
159	TS	LOT 6	1.3.7.3	The monitors shall be located on a separate transport stand, if needed only the monitors shall be able to rotated up to 180°	The monitors shall be located on a separate transport stand, if needed only the monitors shall be able to rotated up to

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				without moving the stand or the touch control panel in which live images are viewed shall be able to be rotated up to 180° in total and to tilt.	170° without moving the stand or the touch control panel in which live images are viewed shall be able to be rotated up to 170° in total and to tilt.
160	TS	LOT 6	1.5.1	All proposed devices and external accessories shall be registered in the Product Tracking System (PTS).	All proposed devices shall be registered in the Product Tracking System (PTS).
161	TS	LOT 6	1.5.9	Annual 95% uptime warranty shall be provided for the device during the warranty period. The device shall be considered down if the patient acceptance cannot be started following the initial intervention. If the 5% down time is exceeded, an administrative fine shall be imposed in the amount of the multiplication of the average of the total number of transactions for the last 10 days of the device and the maximum SUT transaction price for each working day.	Annual 95% uptime warranty shall be provided for the device during the warranty period. The device shall be considered down if the patient acceptance cannot be started following the initial intervention. If the 5% down time is exceeded, for each day of additional down-warranty period of the corresponding system should be extended by 2 (two) calendar day. The maximum extension is limited to 45days.
162	TS	LOT 6	1.5.12	The Contractor shall perform any software updates, upgrades and re-installations free of charge during the warranty period. The Contractor shall submit one copy of all image processing, operating and service software which will be used in the system with licenses to the health care facility's administration in digital form. No installation and access restriction shall be applied to these systems. The Contractor shall notify the health care facility of any system updates within 10 (ten) business days at the latest and deliver them in running state on the device/system within 15 (fifteen) days at the latest as of the date of notice.	The Contractor shall perform any software updates and re-installations free of charge during the warranty period. The Contractor shall deliver together with the system; all image processing, operating and service software which will be used in the system with licenses to the health care facility's administration in digital form. No installation and access restriction shall be applied to these systems. The Contractor shall notify the health care facility of any system updates within 10 (ten) business days at the latest and deliver them in running state on the device/system within 15 (fifteen) days at the latest as of the date of notice.
163	TS	LOT 6	1.5.14	The Contractor shall carry out protective/preventive maintenance activities at its own expenses of all consumables and spare parts at least 2 (two) times a year in at least 6 (six) month-periods. Maintenances via remote access shall not be accepted.	The Contractor shall carry out protective/preventive maintenance activities at its own expenses of all consumables and spare parts at least once (1) a year. Maintenances via remote access shall not be accepted.
164	TS	LOT 6	1.5.20.2	If a maintenance and repair contract that will include all spare parts required for the operation of the device is requested, this ratio shall be maximum 5% of the device's unit cost. The	If a maintenance and repair contract that will include all spare parts required for the operation of the device is requested, this ratio shall be maximum 5% (excluding tubes & detector) of the device's unit cost. The Contractor shall

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				Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair.	fulfill the request unconditionally once it receives the request for maintenance and repair.
165	TS	LOT 6	1.5.22	After the expiration of the warranty period, all spare parts inserted in the system regardless of being under the maintenance and repair contract shall be covered by at least 1-year warranty.	After the expiration of the warranty period, all spare parts inserted in the system regardless of being under the maintenance and repair contract shall be covered by at least 6 (six)- month warranty.
166	TS	LOT 6	1.5.39.1	10% of the unit price proposed for the x-ray tube	12% of the unit price proposed for the x-ray tube
Lot 7: C-Arm Digital X-Ray Device - High Level					
167	TS	LOT 7	1.2.1	In the system, image intensifier and x-ray tube shall be mounted on a C-arm stand, and 2 (two) separate or integrated at least 18-inch monitors or 1 (one) piece of at least 32-inch monitor with split screen and memory device shall be located on a separate wheeled table.	In the system, Flat Detector or Image Intensifier and x-ray tube shall be mounted on a C-arm stand, and 2 (two) separate or integrated at least 18-inch monitors or 1 (one) piece of at least 32-inch monitör with split screen and memory device shall be located on a separate wheeled table.
168	TS	LOT 7	1.3.1.1.	The C-arm clearance shall be at least 76 cm.	The C-arm clearance shall be at least 72 cm.
169	TS	LOT 7	1.3.1.3	The SID on the C-arm shall be at least 95 cm.	The SID on the C-arm shall be at least 92 cm.
170	TS	LOT 7	1.3.1.6	The angular movement (panning/wig wag) of the C-arm shall be at least +/- 100.	The angular movement (panning/wig wag) of the C-arm shall be at least +/- 10º.
171	TS	LOT 7	1.3.1.7	The C-arm rotation shall be at least 3600 in total.	The C-arm rotation shall be at least 360º in total.
172	TS	LOT 7	1.3.1.8	The orbital movement of the C-arm shall be at least 1150.	The orbital movement of the C-arm shall be at least 115º.
173	TS	LOT 7	1.3.3.5	The device shall have an iris and rotating parallel layer or parallel collimator or semi-permeable collimator.	The device shall have an iris and rotating parallel layer or parallel collimator or semipermeable collimator or symmetric and asymmetric collimator.
174	TS	LOT 7	1.3.3.6	The system's x-ray generator shall be of monoblock or splitblock. Generator and tube shall be on the C-arm system.	The system's x-ray generator shall be of monoblock or single tank. Generator and tube shall be on the C-arm system.
175	TS	LOT 7	1.3.4.2	The system shall have both iris and parallel layer collimator.	The system shall have both iris and parallel layer collimator or symmetric and asymmetric collimator.
176	TS	LOT 7	1.3.5.2	The device's memory capacity shall be minimum 20,000 images.	The device's memory capacity shall be minimum 100,000 images.

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177	TS	LOT 7	1.3.5.4	The system shall have a special software to enhance image quality. The device shall have ODDC Object Detected Dose Control) that can make automatic dose adjustment by detecting object and motion or EASY (Enhanced Acquisition System) or a feature which reduces motion blur thanks to dynamic movement detection. The companies shall show this feature in their original catalogues.	The system shall have a special software to enhance image quality. The device shall have ODDC Object Detected Dose Control) that can make automatic dose adjustment by detecting object and motion or EASY (Enhanced Acquisition System) or a feature which reduces motion blur thanks to dynamic movement detection or the property (IDEAL= Intelligent Dose Efficiency Algorithm) which enables the formation sharp images with low dose by automatically setting the contrast and brightness in the device. The companies shall show this feature in their original catalogues.
178	TS	LOT 7	1.3.5.6	The device shall have edge sharpening function.	The device shall have edge enhancement function.
179	TS	LOT 7	1.3.5.9	Fixed and movable image shall be able to be digitally rotated by at least 340 degrees.	Fixed or movable image shall be able to be digitally rotated by at least 340 degrees.
180	TS	LOT 7	1.3.5.10	In the system, the pulse rate (speed) shall be at least 25 pulses/second in the pulse fluoro mode or digital sine pulse mode.	In the system, the pulse rate (speed) shall be at least 25 pulses/second in the pulse fluoro mode or digital sine pulse mode or fluoroscopy mode.
181	TS	LOT 7	1.3.5.13	The system shall be able to record at least 25 frames per second or 450 unified images on the dynamic disk for at least 10 minutes.	The system shall be able to record at least 25 frames per second or 450 unified images on the dynamic disk for at least 10 minutes or the device's memory capacity shall be minimum 150,000 images.
182	TS	LOT 7	1.3.6.6.	The monitors shall be located on a separate transport stand, if needed only the monitors shall be able to rotated up to 180° without moving the stand or tilted up or down to ensure the physician to view easily or the control panel which live images are viewed shall be able to be rotated up to 180° and tilted up and down or its angle shall be adjustable.	The monitors shall be located on a separate transport stand, if needed only the monitors shall be able to rotated up to 170° without moving the stand or tilted up or down to ensure the physician to view easily or the control panel which live images are viewed shall be able to be rotated up to 170° and tilted up and down or its angle shall be adjustable or the height of the monitors should be motorized and adjustable or the height of the monitors should be motorized and adjustable to foldable each other.
183	TS	LOT 7	1.5.12	The Contractor shall perform any software updates, upgrades and re-installations free of charge during the warranty period.	The Contractor shall perform any software updates and re-installations free of charge during the warranty period. The

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				The Contractor shall submit one copy of all image processing, operating and service software which will be used in the system with licenses to the health care facility's administration in digital form. No installation and access restriction shall be applied to these systems. The Contractor shall notify the health care facility of any system updates within 10 (ten) business days at the latest and deliver them in running state on the device/system within 15 (fifteen) days at the latest as of the date of notice.	Contractor shall deliver together with the system; all image processing, operating and service software which will be used in the system with licenses to the health care facility's administration in digital form. No installation and access restriction shall be applied to these systems. The Contractor shall notify the health care facility of any system updates within 10 (ten) business days at the latest and deliver them in running state on the device/system within 15 (fifteen) days at the latest as of the date of notice.
184	TS	LOT 7	1.5.14	The Contractor shall carry out protective/preventive maintenance activities at its own expenses of all consumables and spare parts at least 2 (two) times a year in at least 6 (six) month-periods. Maintenances via remote access shall not be accepted.	The Contractor shall carry out protective/preventive maintenance activities at its own expenses of all consumables and spare parts at least once (1) a year. Maintenances via remote access shall not be accepted.
185	TS	LOT 7	1.5.20.2	If a maintenance and repair contract that will include all spare parts required for the operation of the device is requested, this ratio shall be maximum 5% of the device's unit cost. The Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair.	If a maintenance and repair contract that will include all spare parts required for the operation of the device is requested, this ratio shall be maximum 5% (excluding tubes & detector) of the device's unit cost. The Contractor shall fulfill the request unconditionally once it receives the request for maintenance and repair.
186	TS	LOT 7	1.5.22	After the expiration of the warranty period, all spare parts inserted in the system regardless of being under the maintenance and repair contract, shall be covered by at least 1-year warranty.	After the expiration of the warranty period, all spare parts inserted in the system regardless of being under the maintenance and repair contract shall be covered by at least 6 (six)- month warranty.

All other terms and conditions of the tender dossier remain unchanged. The above alterations and /or corrections to the tender dossier are integral part of the tender dossier.