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MINISTRY OF HEALTH AND WELLNESS

MHPDO/EQ/2023-2024/DO126 31 May 2024

The Managing Director
Chemical & Technical Suppliers (I.O) Ltd
1-10 Sainte Marie Road
Riche Terre

Tel No.: 217 1000
Fax No.: 217 7001

Dear Sir,

Supply, Installation and Commissioning of Extracorporeal Shock Wave Lithotripsy (ESWL) Machine for SSRN Hospital

Please refer to your offer dated **14 December 2023** in response to our invitation for Bids, **Reference No.: MHPQ/EQ/2023-2024/Q20,** dated **17 November 2023** on the above subject.

2. We wish to inform you that your offer for the Supply, Installation and Commissioning of Extracorporeal Shock Wave Lithotripsy (ESWL) Machine for SSRN Hospital as per annex A, for the total amount of **Rs 24,500,000.00 (Rupees Twenty-Four Million Five Hundred Thousand only),** inclusive of all applicable charges, duties and taxes and **exclusive of VAT**, subject to the specifications, terms and conditions of the bidding documents, has been approved.

3. **As per clause "Terms of Payment" in SCC 16.4(b) of the Bidding documents, any increase/decrease resulting from a fluctuation in the rate of exchange will be adjusted accordingly by the Ministry.**

4. The equipment should be supplied, installed and commissioned within **sixteen (16) weeks** as from the date of this Letter of Award to the **Procurement and Supply Section of SSRN Hospital.**

5. Warranty shall be provided for a period of **two (2) years on the entire system (whole ESWL equipment – treatment table, C-Arm, X-ray tube, Flat Panel Detector and ultrasound system) including labour and spare parts** as from the date of successful commissioning of the equipment.

Issued on 06/06/24

6. The installation and commissioning certificate must be signed by a representative from **the User Department, the Biomedical Engineering Unit/Surgical Technology Unit/the ESD and your Representative.**

7. Liquidated damages for delays, if any, will be charged **at the rate of 0.5%** of the contract price of the equipment, **per day of delay**. The maximum amount of liquidated damages **shall be 10%.**

8. You should provide, free of charge, local training for the proper operation of the equipment, to the User/Technical Staff as per the conditions of your offer. The venue of the local training would be the site of the Department where the equipment will be installed.

9. You are also required to maintain the equipment for a period of eight years which will be renewed on a yearly basis upon satisfactory performance after the end of the warranty period as follows:

Period	Item No. 1 - (Rs) Excl. VAT 1 Unit
Year 1	Warranty
Year 2	Warranty
Year 3 (1st Maintenance)	Free of Charge
Year 4 (2nd Maintenance)	Free of Charge
Year 5 (3rd Maintenance)	Free of Charge
Year 6 (4th Maintenance)	Free of Charge
Year 7 (5th Maintenance)	Free of Charge
Year 8 (6th Maintenance)	Free of Charge
Year 9 (7th Maintenance)	Free of Charge
Year 10 (8th Maintenance)	Free of Charge

10. **Goods Form 1** will be drawn by the **Procurement and Supply Section, SSRN Hospital**, upon confirmation by the **User Department** that the equipment has been delivered, installed and commissioned satisfactorily and is in good running condition. Payment will be then effected by the Finance Department of the Ministry and will be credited to your Bank Account after signature of **Goods Form 1.**

11. The following documents, in original, should consequently be submitted to the Procurement and Supply Section for payment purposes: -

(i) **Duly signed Goods Form 1;**
(ii) **Commercial Invoice, your bank name, address and bank account number;**
(iii) **Duly signed delivery note;**
(iv) **Warranty Certificate – Three copies; and**
(v) **Commissioning Certificate – Three copies.**

12. You are requested to submit **within twenty-eight (28) days** as from the date of this letter, a **Performance Security** representing 10% of the contract value in the form of a Bank Guarantee issued by a Commercial Bank operating in Mauritius. The security should be valid for a period of **twenty-eight (28) days beyond the warranty period** which takes effect after the commissioning of the equipment and should be submitted to the **Procurement Unit, Ministry of Health and Wellness, 10th Floor Emmanuel Anquetil Building, Port Louis**. In the event of delay in the delivery and/or commissioning of the equipment, you shall extend this security for the period mentioned above. Failure to submit the required performance security within the prescribed time limit may result in an automatic cancellation of the Award. **No item(s) will be accepted prior to submission of a valid performance security.**

13. Any correspondence or query in regard to this Award should be addressed to the Senior Chief Executive, **Attn: B.S. Gungadeen (Mrs)**, Deputy Permanent Secretary, 5th floor, Ministry of Health and Wellness, Emmanuel Anquetil Building, SSR Street, Port Louis **(Fax No. 214-3323).**

14. Please acknowledge receipt of this Letter of Award by return fax **(214-9006) within ten (10) days as from the date of issue of this letter.**

15. This Letter of Award and your offer dated **14 December 2023** shall constitute a binding agreement between you and the Ministry of Health and Wellness.

Yours faithfully,

D. Conhye
for Senior Chief Executive

Annex A

ANNEX TO LETTER OF AWARD: MHPDO/EQ/2023-2024/DO126 Supply, Installation and Commissioning of Extracorporeal Shock Wave Lithotripsy (ESWL) Machine for SSRN Hospital				
Item No.	**Description**	**Quantity (unit)**	**Rate (Rs)**	**Total Amount (excl. VAT) (Rs)**
1	**Extracorporeal Shock Wave Lithotripsy (ESWL) Machine** **Make**: Storz Medical AG **Model**: MODULITH SLK inline shock wave system MODULITH SLK inline (Transportable semi-integrated lithotripsy system with mobile c-arm and ultrasound) **Country of Origin**: Switzerland	1	24,500,000.00	24,500,000.00
Total Amount (Rs) inclusive of all applicable charges duties and taxes and exclusive of VAT				24,500,000.00

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Copy to: DPS (Mrs. G)
Manager, Financial Operations
Manager, Internal Control
RHD, SSRN Hospital
Manager Procurement and Supply, SSRN Hospital
Biomedical Unit, SSRN Hospital
MHPQ/EQ/2023-2024/Q20
Flimsy

	Serial No.	Description	Evaluation criteria	Compliance response	Details of non-compliance, if applicable
	1	Make of equipment:	Bidder to specify	Storz Medical AG	
	1.1	Model of equipment:	Bidder to specify	Option 1: MODULITH SLX-F2 (fully-integrated lithotripsy system with integrated flat panel c-arm and ultrasound) Option 2: MODULITH SLK inline shock wave system MODULITH SLK inline (Transportable semi-integrated lithotripsy system with mobile c-arm and ultrasound)	
	1.1.1	Country of Origin/Manufacture:	Bidder to specify	Option 1: Switzerland (sub-component: ultrasound South Korea) Option 2: Switzerland (sub-component: ultrasound South Korea)	

	1.1.2	Each of the following requirements must be shown and highlighted in the brochure/technical specifications by the bidder. In case the information required is not found in the brochure/technical specifications, authentic documentations, signed by the manufacturer, must be submitted by the bidder to provide evidence of compliance and/or details of non-compliance and degree of deviation from the specifications.	Bidder to comply	Yes complies for both the options.	
	1.3	Original Certificate from manufacturer specifying the release date of the model quoted to be specified.	Bidder to comply	Option 1: Yes complies. Original certificate from manufacturer stating release date of model quoted submitted. Option 2: Yes complies. Original certificate from manufacturer stating release date of model quoted submitted.	

	1.4	Original manufacturer certified brochure including full technical specifications to be submitted. The original brochures and technical specifications must bear the seal of the manufacturer. In case the catalogue is a copy of the original, the bidder must certify the copy by writing 'Certified to be a true copy of the original seen by me' on each page of the document, signing it, dating it, printing their name under the signature and adding their occupation.	Bidder to comply	Option 1: Yes complies. Original manufacturer certified brochure with technical specifications and seal of manufacturer and signature submitted. Option 2: Yes complies. Original manufacturer certified brochure with technical specifications and seal of manufacturer and signature submitted.	
	1.5	Equipment should conform to at least TWO of the following international regulatory standards for medical devices from the list below:-	Bidder to comply	Yes complies for both the options. CE, FDA and PDMA certified	

	1.5.1	US FDA approval or clearance. Bidder to mention device classification as per US FDA. Valid documents of conformity to be submitted. For US FDA, web links to verify approval or clearance of the proposed medical device on official database of FDA should be provided. For 510(k) cleared devices, the 510 (k) letter from FDA should also be submitted at the time of bid with clear mention of the make/model of the device.	Bidder to comply	Option 1: Yes complies. FDA certified Certificate attached Option 2: Yes complies. FDA certified Certificate attached	
	1.5.2	PMDA (Japan) approval pertaining to medical devices. Bidder to mention device classification as per PMDA (Japan). Documents of conformity to PMDA standards to be submitted.	Bidder to comply	Option 1: Yes complies. PDMA certified Certificate attached Option 2: Yes complies. PDMA certified Certificate attached	

	1.5.3	European CE marked. Bidder to mention device classification. Original certificates/ documents of compliance to regulatory standards required above to be submitted with clear mention of the manufacturers name, make/model of Proposed equipment, details of notifying body for CE marking.	Bidder to comply	Option 1: Yes complies. CE certified Certificate attached Option 2: CE certified Certificate attached	
	1.6	Should be dedicated for treating urinary stones (which include kidney, ureter and urinary bladder stones, endo-urology and other urological procedures)	Bidder to comply	Option 1: Yes complies Treatment of all kind of stones and endourological procedures. Option 2: Yes complies Treatment of all kind of stones and endourological procedures.	

	1.7	The system must include the following: i. Shock wave system (therapy head) including appropriate cooling system ii. Treatment table iii. C-Arm iv. X-ray generator and X-ray tube with Flat Panel Detectors v. Ultrasound system	Bidder to comply	Option 1: Yes complies Integrated shockwave system with closed water circuit and cooling system. Treatment table and shockwave system combined in one unit together with the X-ray system. Colour doppler ultrasound system Option 2: Yes complies Integrated shockwave system with closed water circuit and cooling system. Treatment table and shockwave system combined in one unit. mobile -arm with flat panel technology	

	1.8	ESWL machine should be of the latest generation and appear on manufacturers website – End-of-line, obsolete, used or refurbished equipment will not be considered.	Bidder to comply	Option 1: Yes complies. https://www.storzmedical.com/en/disciplines/swl-products-for-lithiases/modulith-slx-f2-fd21 Option 2: Please see statement product introduction. Kindly refer to enclosed document C01. https://www.storzmedical.com/en/disciplines/urology/product-overview/modulith-slk-inline.html	
	1.9	System should allow in-line use of ultrasound and in-line use of X-ray	Bidder to comply	Option 1: Yes complies. Inline ultrasound localisation Inline x-ray localization Simultaneous inline x-ray and inline ultrasound localisation Option 2: Yes, complies INLINE X-Ray and IN-LINE Ultrasound localisation	

	1.10	Bidder to submit list of at least ten reference sites where proposed model of equipment has been installed. List to be provided and certified from manufacturer.	Bidder to comply	Option 1: Yes complies. Please see enclosed document D02 Option 2: Yes, complies Please see enclosed document DO3.	
	2	Shock Wave System (Ultrasound Therapy Head):	Bidder to comply	Option 1: Yes complies. Option 2: Yes, complies.	
	2.1	The shock wave generator must be of electromagnetic type.	Bidder to comply	Option 1: Yes complies. Cylindrical electromagnetic shockwave system with parabolic reflector (no focusing lens) Coil life-time 3 Million ShockWaves Option 2: Cylindrical electromagnetic shockwave system with parabolic reflector (no focusing lens) Coil life-time 2 Million ShockWaves	

	2.2	The shock wave system should have the possibility to work with a C-arm as well as an ultrasound system.	Bidder to comply	Option 1: Yes complies. Inline ultrasound localisation Inline x-ray localisation Simultaneous use of both modalities Option 2: Yes, complies. Simultaneous use of both modalities (x-ray c-arm & ultrasound system)	
	2.3	Should allow for isocentric fluoroscopic X-ray and ultrasound localization of stones.	Bidder to comply	Option 1: Yes complies Inline ultrasound localisation Inline x-ray localisation Simultaneous use of both modalities Option 2: Yes, complies Simultaneous use of x-ray and ultrasound localisation	
	2.4	Overtable or undertable therapy head positioning.	Bidder to comply	Option 1: Yes complies Under-table shockwave positioning due to large shockwave diameter. Option 2: Yes, complies SLK inline: under-table (0°) and over-table (180°)	

	2.5	Peak pressure in focal zone at least 50 MPa.	Bidder to comply	Option 1: Yes complies Pressure range between 6 – 160 MPa at -6dB focal zone in 26 steps Option 2: Yes, complies Pressure range between 6 – 92 MPa at -6dB focal zone in 26 steps	
	2.6	Maximum pulse energy at least 60 mJ.	Bidder to comply	Option 1: Yes complies Pressure range at 12mm = 154 mJ Pressure range -6dB: 0.4 – 3.7 mJ/mm² 26 steps Option 2: Yes, complies. Pressure range at 12mm = 125 mJ Pressure range -6dB: 0.4 – 1.8 mJ/mm² 26 steps	
	2.7	Shock wave penetration depth: 160 mm.	Bidder to comply	Option 1: Yes complies Shock wave penetration depth up to 180 mm Option 2: Yes, complies SLK inline shockwave penetration depth: up to 175 mm	

	2.8	Aperture angle should be at least 50°.	Bidder to comply	Option 1: Yes complies Aperture angle 82° Option 2: Yes, complies Aperture angle: 62°	
	2.9	Shock wave source diameter at least 150 mm.	Bidder to comply	Option 1: Yes complies 300 mm Option 2: Yes, complies Shockwave source diameter: 178 mm	
	2.10	Shock waves per minute: i. Lower limit 60 p/min ii. Upper limit 150 p/min	Bidder to comply	Option 1: Yes complies Lower Limit: 60, 90, 120p/min Upper limit: 180, 240 p/min Option 2: Yes, complies Lower Limit: 30, 60, 90, 120p/min Upper limit: 180, 240 p/min	
	2.11	Selectable ECG and fixed frequency triggering.	Bidder to comply	Option 1: Yes complies 60, 90, 120, 180, 240 p/min & ECG triggering Option 2: Yes, complies 30, 60, 90, 120, 180, 240 p/min & ECG triggering	

	2.12	Total shock wave dose throughout treatment should be displayed.	Bidder to comply	Option 1: Yes complies SMLI (Storz Medical Lithotripsy index) showing total energy Option 2: Yes, complies SMLI (Storz Medical Lithotripsy index) showing total energy	
	2.13	The normal lifetime of shock wave source should be at least 2 million shots. Bidders to specify the normal lifetime of shock wave source if offer is different from 2 million shots.	Bidder to comply	Option 1: Yes complies 3 Million shockwaves. Option 2: Yes, complies 2 Million shockwaves	
	2.14	Bidder to state the tentative cost for the replacement of a shock wave source.	Bidder to comply	Yes complies for both options.	

	2.15	Should, during the lifetime of the shockwave head, its performance (in breaking stones efficiently) goes down beyond tolerable limit (to be decided by the treating practitioner), same should be replaced under full warranty conditions laid down in the warranty section. The potential contractor can also test power output the of the shockwave head by using a phantom or an appropriate power meter, supplied by the potential contractor, to confirm performance of same.	Bidder to comply	Yes complies for both options. Shockwave pressure differs over life-time < 1% Warranty period: free replacement After-warranty period: depending whether a service contract is signed (than included) or replacement against invoice (than not included and pro-rata calculation will be done) Pro-rata warranty is 3 Million Shockwave. Test power strips indicate the performance of the shockwave coil (supplied with system) or focus phantom and artificial stone (supplied with system) show accuracy and performance of shockwave coil.	

	2.16	All ESWL functions to be operated from treatment table and remote control at the treatment table.	Bidder to comply	Option 1: Yes complies All lithotripter functions, x-ray functions, table functions are operated from a single touchpanel at table-side or remote control room Option 2: Yes, complies SLK inline: operation of lithotripter, table movements from touchpanel table-side and remote control desk x-ray c-arm operated by separate operating panel	
	3	Treatment Table:	Bidder to comply	Option 1: Yes complies MODULITH SLXF2 integrated treatment table Option 2: Yes, complies SLK inline (integrated table)	

	3.1	Patient table should move in x, y, z directions and should have Trendelenburg tilt feature.	Bidder to comply	Option 1: Yes complies motorized movement in x, y, z axis and Trendelenburg tilt. Option 2: Yes, complies motorized movement in x, y, z axis and Trendelenburg tilt.	
	3.2	Movement along all 4 axes should be motorized.	Bidder to comply	Option 1: Yes complies Motorized movement along all 4 axis. Option 2: Yes, complies motorized movement in x, y, z axis and Trendelenburg tilt.	
	3.3	Motorised height/elevation adjustment.	Bidder to comply	Option 1: Yes complies Motorized movement along all 4 axis. Option 2: Yes, complies motorized movement in x, y, z axis and Trendelenburg tilt.	

	3.4	Trendelenburg tilt should be at least 10° - 30°.	Bidder to comply	Option 1: Yes complies Trendelenburg tilt: 15° Option 2: Yes complies Trendelenburg tilt: 15°	
	3.5	Table to support patients of at least 180 Kg.	Bidder to comply	Option 1: Yes complies Safe working Load 225 Kg Option 2: Yes, complies Safe working Load 225 Kg	

	3.6	All table movements, shock wave system movement and parameter settings and operation of the C-arm shall be possible from a touch-screen table side control panel. Other ergonomical and user friendly control panel propositions will also be considered.	Bidder to comply	Option 1: Yes complies All lithotripter functions, x-ray functions, table functions are operated from a single touchpanel at table-side or remote control room. Option 2: Yes, complies SLK inline: operation of lithotripter, table movements from touchpanel table-side and remote control desk x-ray c-arm operated by separate operating panel	

	3.7	All controls shall be easily accessible and user friendly with minimum manipulation.	Bidder to comply	Option 1: Yes complies Touchpanel for operation of lithotripter, table; xray system, ultrasound transducer movement. , ultrasound transducer movement. Remote operation is equipped with a StorM-Touch touchscreen monitor, which acts as operating and control monitor system. Option 2: Yes, complies SLK inline: Touchpanel for operation of lithotripter, table. C-arm xray system, ultrasound by separate operating panel.	
	3.8	Should have at least one emergency stop button to halt any unwanted movement.	Bidder to comply	Option 1: Yes complies Emergency stop button at unit and remote console Option 2: Yes, complies Emergency stop button at unit	

	3.9	Patient table should be accessible from at least three sides.	Bidder to comply	Option 1: Yes complies Table accessible from 4 sides due to special c-arm construction Option 2: Yes, complies SLKinline: accessible from 3 sides	
	3.10	It should be possible to use the table for endourological procedures.	Bidder to comply	Option 1: Yes complies Tilting facility; optional urological accessory available Option 2: Yes, complies SLK inline: can be used for endourological procedures	
	4	C-Arm with Flat Panel Detector:	Bidder to comply	Option 1: Yes complies FD21 flat panel detector system (21x21 cm) integrated with table and shockwave head. Option 2: Yes, complies Storz X-FP flat panel c-arm (ATS Arco FP20 with 20 kW generator) included in our offer	

	4.1	System should provide a fast localisation of the stones with low exposure to radiation.	Bidder to comply	Option 1: Yes complies Flat panel technology with low dose programs, removable anti-scatter grid (for paediatric treatment) for dose-saving operations. High power x-ray system. Option 2: Yes, complies Flat panel technology with low dose programs, removable anti-scatter grid (for paediatric treatment) for dose-saving operations	
	4.2	Movement of C-arm should be between 0° and 30° cranio-caudal or better.	Bidder to comply	Option 1: Yes complies Movement between 0° and 30° for stone localization. Other movements (e.g. lateral) possible as c-arm is completely free in movement. Option 2: Yes, complies Movement between 0° and 30° for stone localization. Other movements (e.g. lateral) possible as c-arm is completely free in movement.	

	4.3	For Flat Panel Detector :-	Bidder to comply	Yes, complies	
	4.3.1	Detector size 20 x 20 cm	Bidder to comply	Option 1: Yes, complies Detector size 21 x 21 cm flat panel detector Option 2: Yes, complies Flat panel detector size: 21 x 21 cm	
	5	X-ray Generator and X-ray Tube:	Bidder to comply	Yes complies	
	5.1	High frequency generator – frequency at least 30 KHz	Bidder to comply	Yes complies 40 kHz (standard frequency of all x-ray systems) Option 2: Yes, complies 40 kHz (standard frequency of all x-ray systems)	
	5.1.1	Generator power at least 15 kW.	Bidder to comply	Option 1: Yes complies 20 kW high-frequency generator Option 2: Yes, complies frequency generator: 20 kW	

	5.1.2	Tube voltage: 40 – 110 kV or better.	Bidder to comply	Option 1: Yes complies Tube voltage 40 – 120 kV Option 2: Yes, complies Tube voltage 40 – 120 kV	
	5.1.3	Should perform pulsed digital fluoroscopy up to 10 pulse/sec or better.	Bidder to comply	Option 1: Yes complies up to 25 pulse/sec Option 2: Yes, complies up to 25 pulse/sec	
	5.1.4	Automatic kV and mA control.	Bidder to comply	Option 1: Yes complies AEC automatic exposure control Option 2: Yes, complies AEC automatic exposure control	
	5.1.5	Rotating anode.	Bidder to comply	Option 1: Yes complies Rotating anode 0.3 / 0.6 mm Option 2: Yes, complies Rotating anode 0.3 / 0.6 mm	

	5.1.6	A footswitch for R/F must be provided in addition to the one at the operating console.	Bidder to comply	Option 1: Yes complies x-ray release foot switch included. Option 2: Yes, complies X-ray release foot switch included.	
	6	LCD Displays:	Bidder to comply	Yes, complies for both the options	
	6.1	Two 19"- 24", flicker-free TFT/LCD High Resolution medical grade color monitors for live image displays	Bidder to comply	Yes complies 24 inches LCD medical grade monitors in treatment room (and remote control room). Quantity: 2nos Option 2: Yes, complies 22 inches LCD medical grade monitors in treatment room (and remote control room Quantity: 2nos	
	6.2	Resolution: 1280 X 1024 or better.	Bidder to comply	Option 1: Yes complies Resolution: 1920 x 1200 pixel Option 2: Yes, complies Resolution: 1920 x 1200 pixel	
	7	Image Processing:	Bidder to comply	Yes, complies for both the options	

	7.1	Automatic brightness and contrast control.	Bidder to comply	Option 1: Yes complies Automatic Exposure Control Option 2: Yes, complies Automatic Exposure Control	
	7.2	Ability to review images during procedures.	Bidder to comply	Option 1: Yes complies Image archive up to 300,000 images Option 2: Yes, complies Image archive up to 130,000 images	
	7.3	Should store at least 100 last patient cases.	Bidder to comply	Option 1: Yes complies Image archive with RAM memory (100 images) for immediate review of images; archiving up to 300,000 images review. Option 2: Yes, complies Image archive up to 130,000 images	

	7.4	Post processing: i. Image rotation ii. Multi images display iii. Scaled image iv. Zoom facility v. Brightness and contrast control	Bidder to comply	Option 1: Yes complies Option 2: Yes, complies Post processing: 1.Image rotation 2.Multi images display 3.Scaled image 4.Zoom facility 5.Brightness and contrast control	
	7.5	Full DICOM (Send,Receive,list,print and query) compatibility-Should be PACS and/or RIS-PACS ready.	Bidder to comply	Option 1: Yes complies System is DICOM ready; interfaces optional Option 2: Yes, complies System is DICOM ready; interfaces optional	
	8	Ultrasound System:	Bidder to comply	Same for both the options: Yes, complies Samsung HS30	

	8.1	Ultrasound machine should be of the latest generation and appear on the manufacturers website – End-of-line, obsolete, used or refurbished equipment will not be considered. Ultrasound system should be a high- end mobile equipment. Note: A portable ultrasound will not be accepted	Bidder to comply	Same for both the options: Yes complies Samsung HS30 colour doppler system; latest generation of colour doppler system	
	8.2	Bidders to specify:	Bidder to comply	Yes complies	
	8.2.1	Make of equipment	Bidder to specify	Samsung	
	8.2.2	Model of equipment	Bidder to specify	HS30	
	8.2.3	Country of Manufacture	Bidder to specify	South Korea	
	8.3	Should have US FDA approval and European CE mark Certification. Original certificates of compliance to be submitted with manufacturers name and model of equipment. For US FDA, the 510(K) premarket approval (with the 510(K) number) to be submitted.	Bidder to comply	Yes complies for both the options CE and FDA certified Certificate attached	

	8.4	Should be supplied with a medical grade power line cord - at least 5 m long - and medical grade BS1363 Plug.	Bidder to comply	Yes complies BS1363 Plug (UK version) supplied with system.	
	8.5	Full DICOM (Send, Receive, list, print and query) compatibility- Should be should PACS and/or RIS-PACS ready.	Bidder to comply	Yes complies System is DICOM ready; interfaces optional	
	8.6	Integrated keyboard on operator console designed with:	Bidder to comply	Yes complies	
	8.6.1	Full alphanumeric QWERTY keyboard	Bidder to comply	Yes complies	
	8.6.2	Backlight keys for use in low-light condition	Bidder to comply	Yes complies	
	8.6.3	Integrated audio speakers	Bidder to comply	Yes complies	
	8.7	Flat Panel LCD at least 15" medical grade colour monitor, resolution 2Mp, flicker free.	Bidder to comply	Yes complies 21.5 inch viewing monitor	
	8.8	Monitor to be freely movable mounted on an articulated arm and adjustable in height and lateral positioning.	Bidder to comply	Yes complies Articulated monitor arm (rotation ± 135° / tilt -10°/75°)	
	8.8.1	Equipment to be on multi-directional castor wheels with locking mechanism	Bidder to comply	Yes complies	

	8.8.2	Probe holders to prevent probe cables from tangling and dragging on the ground.	Bidder to comply	Yes complies	
	8.9	Date and Time set and adjustable in service mode only.	Bidder to comply	Yes complies	
	8.10	Equipment should have software for full urology and general abdominal applications.	Bidder to comply	Yes complies	
	8.11	Should have the following Imaging modes with freeze action:	Bidder to comply	Yes complies	
	8.11.1	B-Mode	Bidder to comply	Yes complies Please see enclosed document A05, operating and display mode	
	8.11.2	M-Mode	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.11.3	B+M Mode	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	

	8.12	Automatic Image optimization.	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.13	With pan and zoom in both real time and freeze mode.	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.14	Measurement and analysis programmes e.g. urological report.	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.15	Standard Biometric Measurements and calculations including:	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.15.1	Distance	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.15.2	Area & circumference	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	

	8.15.3	Ellipse	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.15.4	Depth measurement from skin line	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.15.5	Angle	Bidder to comply	Yes, complies. Please see enclosed document A05, operating and display mode	
	8.16	Cine loop facility.	Bidder to comply	Yes complies Cine memory 45000 frames Loop memory 14000 lines	
	8.17	Image storage capacity of at least 500GB.	Bidder to comply	Yes complies 500 Gb / approx. 350.000 images	
	8.18	Standard video out and USB port for archiving capabilities.	Bidder to comply	Yes complies Please see enclosed document A05, peripheral interfaces	
	8.19	System to accept at least two probes simultaneously.	Bidder to comply	Yes complies Please see enclosed document A05, Console Design	

	8.2	Two multi-frequency transducers to be supplied and connected:	Bidder to comply	Yes complies	
	8.20.1	In-line Convex probe, frequency between 2 - 5 MHz.	Bidder to comply	Yes complies 3.5 MHz inline sector probe (2 – 8 MHz)	
	8.20.2	Convex sector probe with frequency range 2- 7.0 MHz	Bidder to comply	Yes complies 3.5 MHz abdominal electronic sector probe (2-6 MHz)	
	8.21	A video graphic printer must be supplied with the main equipment	Bidder to comply	Yes complies	
	9	Lithotripsy Room:	Bidder to comply	Yes complies	
	9.1	It is the responsibility of every bidder to carry out a pre-bid survey at the site, where the equipment will be installed, and ensure that the whole system will fit in before submitting their bids.	Bidder to comply	Yes complies Pre Bid Survey completed on 5 dec, 2023	
	9.1.1	The bidder must propose a floorlayout for the equipment prior to installation for vetting by the user department.	Bidder to comply	Yes complies Floor layout for the equipment will be provided prior to installation	

	9.1.2	An inspection of the existing lead lining in the examination room must be conducted by the bidder, following which the existing lead lining must be removed, replaced or reinforced by the bidder so as to meet the requirements of the Radiation Safety and Nuclear Security Authority.	Bidder to comply	Yes complies Inspection of the existing lead lining will be done and necessary action will be taken prior to installation	
	9.1.3	A plan of the new lead lining of the examination room must be submitted to the Radiation Safety and Nuclear Security Authority for approval, and to amend accordingly to satisfy RSNSA requirements.	Bidder to comply	Yes complies A plan of the new lead lining of the examination room will be provided prior to installation	
	9.1.4	All existing doors in the examination room must be replaced with new fully leaded sheet doors – at least 3 mm lead.	Bidder to comply	Yes complies Will be provided prior to installation	
	9.1.5	All doors joints and openings should be fitted with overlapped lead sheets to prevent radiation leakage.	Bidder to comply	Yes complies Will be provided prior to installation	

	9.1.6	The interior walls of the treatment room should be lead-lined by at least 3 mm lead sheets from the floor level to a height of at least 7 feet.	Bidder to comply	Yes complies Will be provided prior to installation	
	9.1.7	All lead lining must be supplied and installed by the bidders.	Bidder to comply	Yes complies All lead lining will be provided prior to installation	
	10	Warranty:	Bidder to comply	Yes complies	
	10.1	Two-year warranty on the entire system (whole ESWL equipment - treatment table, C-arm, X-ray tube, Flat Panel Detector and ultrasound system) including labour and spare parts as from date of commissioning. Please see warranty conditions for shockwave head system.	Bidder to comply	Yes complies. Warranty: 2 years on the entire system including labour and spare parts as from date of commissioning.	

	10.2	Warranty on Shockwave head system as follows: 1. Full two years warranty on the shockwave head system during warranty period of two years. 2. During post-warranty period, each time the shockwave head is replaced, the new shock wave head should bear a full warranty for 2 million shot. 3. In case the shockwave head need replacement without reaching the 2 million shot of its warranty condition, same should be replaced in toto free of charge without any pro-rata conditions attached to it. Same apply to shockwave head of warranty condition other than 2 million shots.	Bidder to comply	Yes complies	
	11	Training:	Bidder to comply	Yes complies	

	11.1	Five working days of local and onsite application training for Surgeons/Users by a qualified application specialist with a minimum of 5 years experience in extracorporeal shock wave lithotripsy training and familiar with the line of lithotripter proposed.	Bidder to comply	Yes complies Local and onsite application training for Surgeons/Users by a qualified application specialist will be done at the time of equipment installation	
	11.2	One week local on-site training for the Biomedical Engineering Staff by a factory trained Service Engineer.	Bidder to comply	Yes complies On-site training will be done at the time of equipment installation	
	11.3	Bidder to quote for a comprehensive factory training for one in-house Biomedical Engineer/ Technician and to submit the detailed content of the training. (Factory Training to be effected six months after date of commissioning of the equipment)	Bidder to comply	Yes complies Quote for a comprehensive factory training for one in-house Biomedical Engineer/ Technician and attached the detailed content of the training.	
	12	Maintenance after warranty period:	Bidder to comply	Yes complies	
	12.1	Bidders should quote for maintenance contract (labour only) for 8 consecutive years post-warranty.	Bidder to comply	Yes complies Maintenance contract (labour only) for 8 consecutive years post-warranty will be provided FREE OF COST	

	13	Additional Requirements:	Bidder to comply	Yes complies	
	13.1	The bidder must have an established service facility at the time of the bid. This must include: 1. A workshop equipped with diagnostic tools. 2. Qualified and trained staff with at least one Biomedical Engineer and two Technicians. Proof of qualifications must be submitted. 3. Availability of spare parts within 5 working days. 4. Failure to submit evidence for this established service facility will result in an automatic rejection of the bidder.	Bidder to comply	Yes complies. We have an established service facility located at 1-10 Sainte Marie Road, Riche Terre.	
	13.2	Bidder to state life expectancy of equipment which should be at least 10 years or better.	Bidder to comply	Yes complies. Life expectancy is more than 10 years.	
	13.3	To supply spare parts and to maintain the equipment as and when required during the life expectancy.	Bidder to comply	Yes complies. Will be supplying spare parts and maintain the equipment as and when required during the life expectancy.	

	13.4	All Installation, software reload and service diagnostic discs to verify performance and functionality of equipment to be provided.	Bidder to comply	Yes complies	
	13.5	All licenses to be included.	Bidder to comply	Yes complies Yes complies	
	13.6	System should come with the latest software and free mandatory software upgrade for the whole lifetime of the system.	Bidder to comply	Yes complies Will be provided at the time of commissioning	
	13.7	A service tool kit/phantom for calibration and image quality assurance to be provided at time of commissioning.	Bidder to comply	Yes complies Will be provided at the time of installation	
	13.8	Full user manual (2 hard copies and 1 soft copy).	Bidder to comply	Yes complies	
	13.9	Full service manual with assembly diagrams, including spare parts list (2 hard copies and 1 soft copy). Errors and malfunction codes should be fully documented in the service manuals.	Bidder to comply	Yes complies Will be provided at the time of installation	

	13.10	Original certificates from manufacturer specifying date of manufacture, make, model, serial number, software version, place of manufacture or assembly, and acceptance test certificate. These documents should be submitted at time of commissioning.	Bidder to comply	Yes complies	
	13.11	Commissioning will be effected only after all acceptance tests are completed and the image quality and the functionality of the equipment are deemed acceptable by the Consultant Surgeon, the Biomedical Engineer and the ESD Engineer.	Bidder to comply	Yes complies Service laptop will be provided at the time of installation	

	13.12	To supply one Service laptop per equipment with the following minimum requirement: Latest windows operating system and Microsoft office, microprocessor core i7, 32GB RAM, 512GB NVMe, 15.6" FHD Screen, backlit keyboard, preloaded with technical manuals, calibration guidelines and remote assistance software shall be provided to the biomedical technical team. Laptop to be supplied with backpack and wireless mouse.	Bidder to comply	Yes complies	
	14	Electrical Requirements	Bidder to comply	Yes complies	
	14.1	Three phase equipment shall be powered from three phase supply, 400 V ± 6% at 50 Hz ± 1.5%, with TT Earthing System.	Bidder to comply	Yes complies	
	14.1.1	Single phase equipment shall be powered from 230 V ± 6% at 50 Hz ± 1.5%, with TT Earthing System. Connection shall be made using new BS1363 and CEE sockets and plugs or Isolator Units.	Bidder to comply	Yes complies Installation of electrical work will be done prior to equipment installation	

	14.2	The electrical works shall include the installation of a Distribution Board in the proposed location for powering the main equipment, all auxiliary equipment, accessories and other items as required.	Bidder to comply	Yes complies.	
	14.3	Bidder to supply and install at least 3 Emergency switches.	Bidder to comply	Yes complies Installation of electrical work will be done prior to equipment installation	
	14.4	All switchgear shall assembled to IEC or British Standards and as per manufacturers recommendations. All of the manufacturers recommendations regarding site planning shall be included in a manual and submitted at the time of installation.	Bidder to comply	Yes complies. We will supply and install 3 emergency switches.	
	14.5	Bidder to supply and install an on-line UPS using double conversion technology for the whole system.	Bidder to comply	Yes complies	

DOCUMENT(S) UPLOAD (VER. 1.0)

Manufacturers Authorization: STORZ MEDICAL manufacturer authorization.pdf

Cost Structure for Value Added Calculation per Product: No files attached.

ANY OTHER DOCUMENTS (VER. 1.0)

Other documents: Certificate ISO 9001 2015 (Valid 15.12.2025).pdf; Certificate of Current Standing 2023.pdf; Certificate of Incorporation..pdf; Chemtech Business Registration Card.pdf; Financial Information.pdf; Registrar of Companies Extract of File 2023.pdf; Company Profile + CV 2023.pdf; A02 OPTION1 SLXF2-FD21_en.pdf; A03 OPTION1 MODULITH_SLX-F2_FD21_Technical_Data_EN.pdf