

Specificații tehnice

[Acest tabel va fi completat de către ofertant în coloanele 2, 3, 4, 6, 7, iar de către autoritatea contractantă – în coloanele 1, 5.]

Numărul procedurii de achiziție: ocds-b3wdp1-MD-1680177467862 / 21077069 din: 09.06.2023 conform SIARSAP Mtender
Obiectul achiziției: Achiziționarea dispozitivelor medicale conform necesităților IMSP Spitalul Clinic Republican "Timofei Moșneaga"

Nr.lot	Denumirea bunurilor/ serviciilor	Denumirea modelului bunului/ serviciului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
	Bunuri/servicii						
9	Centrifugă 8-16 eprubete (cu rotor basculant)	TDZ5-SX	China	Hunan Xiangxin Instrument	Capacitate: rotor inclus pentru 8-16 eprubete de 10-15 ml RPM: setabil, 1000-6000 rpm, RCF: setabil Abaterea maximă de la viteza setată: 5% Sistem de blocare a capacului în timpul funcționării. Protecție la debalansare. Protecție la pornire cu capacul deschis. Durata ciclului: 0-60 min. Afișare: Viteza actuală, timp rămas. Tip interfață: Display LCD Alimentare: 210-230 V 50 HZ Tip motor: fără perii. Capacul sa fie transparent sau dotat cu fereastra sau alta cale de acces, necesar pentru efectuarea procedurii de verificare periodică a turajilor, conform normelor și standardelor în vigoare. Cerințe de certificare: Anul producerii minim 2022. Termen de garanție nu mai mic de 24 luni din momentul instalării. Instalare, darea în exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. În cazul defecțiunii dispozitivului aflat în garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h. Documente confirmative: La livrarea dispozitivului medical obligatoriu: Manual de utilizator în limba română și engleză Manual de service și manual de utilizare în conformitate cu LEGEA Nr. 102 cu privire la dispozitivele medicale din 09.06.2017, capitolul 4 Articolul 14. P. 3.Ghid rapid în limba română laminat atașat de dispozitiv.	Capacitate: rotor inclus pentru 8-16 eprubete de 10-15 ml /da, 15ml/10ml*16 RPM: setabil, 1000-6000 rpm, RCF: setabil -da Abaterea maximă de la viteza setată: 5% -da Sistem de blocare a capacului în timpul funcționării.-da Protecție la debalansare.-da Protecție la pornire cu capacul deschis.-da Durata ciclului: 1-99 min. Afișare: Viteza actuală, timp rămas. Tip interfață: Display LCD Alimentare: 210-230 V 50 HZ Tip motor: fără perii. -Da Capacul sa fie transparent sau dotat cu fereastra sau alta cale de acces, necesar pentru efectuarea procedurii de verificare periodică a turajilor, conform normelor și standardelor în vigoare. Da, cu o fereastră Cerințe de certificare: Anul producerii minim 2022.-da Termen de garanție nu mai mic de 24 luni din momentul instalării.-da Instalare, darea în exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. În cazul defecțiunii dispozitivului aflat în garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h. Documente confirmative: La livrarea dispozitivului medical obligatoriu: Manual de utilizator în limba română și engleză Manual de service și manual de utilizare în conformitate cu LEGEA Nr. 102 cu privire la dispozitivele medicale din 09.06.2017, capitolul 4 Articolul 14. P. 3.Ghid rapid în limba română laminat atașat de dispozitiv.	CE/ISO
16	Aparat de sigilat pungi	MOKM 4011	China	MIXTA TIBBI CIHAZLAR VE DONANIMLARI ULUSLARARASI TAAHHUT TIC. SAN. A.S	Dispozitiv de sigilat pungi/ambalaje pentru sterilizarea instrumentelor în instituții medicale, cu sistem de încălzire permanent și funcție de stand-by pentru a preveni supraîncălzirea. Carcasă din oțel inoxidabil. Modul de reglarea, setare și afișare a temperaturii dorite, diapazon: 120-220 (=-/ 20 grade) Celsius. Potrivit pentru pungi și bobine. Tensiunea de alimentare: curent monofazat, 220-240 V 50-60 Hz Distanța de etanșare față de margine, de la 0 la 35mm. Reverse rotație - DA. Control cu microprocesor - DA. Setările parametrilor rămân aceleași după o întrerupere a curentului - DA. Pornirea automată a motorului prin senzor de fotocelula - DA. Oprire automată a motorului după 30 secunde. Viteza de etanșare nu mai puțin de 10metri/secunda Setarea Intervalului de temperatură: 1 grad Celsius Alertă și oprirea motorului în cazul în care parametrii monitorizați depășesc limite prestabilite – DA Cerințe de certificare: Anul producerii minim 2022. Termen de garanție nu mai mic de 24 luni din momentul instalării. Instalare, darea în exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. În cazul defecțiunii dispozitivului aflat în garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h.	Dispozitiv de sigilat pungi/ambalaje pentru sterilizarea instrumentelor în instituții medicale, cu sistem de încălzire permanent și funcție de stand-by pentru a preveni supraîncălzirea. DA Carcasă din oțel inoxidabil. -DA Modul de reglarea, setare și afișare a temperaturii dorite, diapazon: 50-200 (=-/ 20 grade) Celsius. Potrivit pentru pungi și bobine. DA Tensiunea de alimentare: curent monofazat, 220-240 V 50-60 Hz -DA Distanța de etanșare față de margine, de la 5 la 35 mm. Reverse rotație - DA. Control cu microprocesor - DA. Setările parametrilor rămân aceleași după o întrerupere a curentului - DA. Pornirea automată a motorului prin senzor de fotocelula - DA. Oprire automată a motorului după 30 secunde. -DA Viteza de etanșare nu mai puțin de 08-12 min/secunda Setarea Intervalului de temperatură: 1 grad Celsius Alertă și oprirea motorului în cazul în care parametrii monitorizați depășesc limite prestabilite – DA Cerințe de certificare: Anul producerii minim 2022. -da Termen de garanție nu mai mic de 24 luni din momentul instalării. -da Instalare, darea în exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. În cazul defecțiunii dispozitivului aflat în garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h.	CE/ISO

25	Trolu ORL	G60	China	Hunan Fude Technology Co., Ltd.	conform specificatii tehnice anexa	conform Anexei 1 modelul G60	CE/ISO
50	Autorefractometru	BK-R670	China	BIOBASE	Măsurări: distanța vertex (diapazonul minim necesar): 0 – 15 mm; diametrul minim al pupilei 3 mm; refracție (diapazoanele minime necesare): sfera de la -25D până la +22 D, cu pasul 0.12D și 0.25D; cilindru de la -10 D până la +10 D, cu pasul 0.12D și 0.25D; axa de la 0 până la 180°, cu pasul 1°; măsurarea distanței interpupulare: automat; manual (de la 20 mm până la 80 mm, pasul 1mm), deplasarea bazei manevrat de joystick; reglarea înălțimii bărbiei motorizată minim 50 mm; interfețe pentru import/export date: USB, LAN; imprimantă incorporată; monitor LCD tactil color minim 5.5 inch; suport cu înălțimea reglabilă electric și minim 2 roți, dacă 4 roți cu sistem de blocare; alimentare curent alternativ 220V, 50 Hz. Accesorii: Hârtie pentru imprimantă – 10 bucăți. Stic pentru export minim 16 GB -2 bucăți Simulator de testare – 1 bucată. Cerințe de certificare: Anul producerii minim 2022. Termen de garanție nu mai mic de 24 luni din momentul instalării. Instalare, darea in exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. În cazul defecțiunii dispozitivului aflat in garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h.Documente confirmative: La livrarea dispozitivului medical obligatoriu:Manual de utilizator în limba română și engleză	Măsurări: distanța vertex (diapazonul minim necesar): 0 – 15 mm; diametrul minim al pupilei 3 mm; refracție (diapazoanele minime necesare): sfera de la -25D până la +22 D, cu pasul 0.12D și 0.25D; cilindru de la -10 D până la +10 D, cu pasul 0.12D și 0.25D; axa de la 0 până la 180°, cu pasul 1°; măsurarea distanței interpupulare: automat; manual (de la 20 mm până la 80 mm, pasul 1mm), deplasarea bazei manevrat de joystick; reglarea înălțimii bărbiei motorizată minim 50 mm; interfețe pentru import/export date: USB, LAN; imprimantă incorporată; monitor LCD tactil color minim 5.5 inch; suport cu înălțimea reglabilă electric și minim 2 roți, dacă 4 roți cu sistem de blocare; alimentare curent alternativ 220V, 50 Hz. Accesorii: Hârtie pentru imprimantă – 10 bucăți. Stic pentru export minim 16 GB -2 bucăți Simulator de testare – 1 bucată. Cerințe de certificare: Anul producerii minim 2022. Termen de garanție nu mai mic de 24 luni din momentul instalării. Instalare, darea in exploatare, instruirea de către participantul câștigător - obligatoriu Training pentru utilizatori la instalare și la solicitare - obligatoriu. În cazul defecțiunii dispozitivului aflat in garanție, termenul reparației va fi adăugat la perioada de garanție totală. Pe perioada garanției timpul de intervenție în caz de defecțiune minim 24h.Documente confirmative: La livrarea dispozitivului medical obligatoriu: Manual de utilizator în limba română și engleză	CE/ISO
67	Ultrasonograf General performanta înaltă (EXPERT)	XBit 90	China	CHISON	conform specificatii tehnice	conform specificatii tehnice- Anexa1 MODEL XBit 90	CE/ISO

Semnat: _____
Numele, Prenumele Jighili Tatiana
În calitate de: administrator
Ofertantul: SRL Triumf-Motiv
Adresa: str. Grenoble 193 of 1301

ENT winch		
	Specification requested by customer	Specifications proposed by the manufacturer
	1. Winch – 1pc.	
	• With 4 shelves + drawer.	With 4 shelves + drawer.
	• Antistatic and lockable wheels.	Antistatic and lockable wheels.
	• With channels for placing the power cables or power distribution system integrated in the side supports of the winch.	With channels for placing the power cables or power distribution system integrated in the side supports of the winch.
	• With the possibility of fixing the monitor stand specified below.	With the possibility of fixing the monitor stand specified below.
	• With attachment installed on the winch for holding the camera head indicated below.	With attachment installed on the winch for holding the camera head indicated below.
	2. Monitor- 1 pc.	
	• Resolution: minimum Full HD, 1080p.	Resolution: minimum Full HD, 1080p.
	• Diagonal display minimum 26 inches.	Diagonal display minimum 26 inches.
	• Image display format: 16:9.	Image display format: 16:9.
	• Power source: 220V ± 10V, 50Hz or via power adapter.	Power source: 220V ± 10V, 50Hz or via power adapter.
	• Fixation: monitor support attached to/on winch with adjustable height, rotation on horizontal axis minimum 30° in both directions. Ability to tilt the monitor (up-down)	Fixation: monitor support attached to/on winch with adjustable height, rotation on horizontal axis minimum 30° in both directions. Ability to tilt the monitor (up-down)
	• Ports for minimum video input: 2x DVI,	Ports for minimum video input: 2x DVI,
	• Ports for video output minimum: 1x DVI,	Ports for video output minimum: 1x DVI,
	3. Video processor-1 pc.	
	• Compatible with the camera head indicated below.	Compatible with the camera head indicated below.
	• Automatic color adjustment.	Automatic color adjustment.
	• Automatic adjustment of light intensity.	Automatic adjustment of light intensity.
	• Possibility of individual presets and settings - minimum 4	Possibility of individual presets and settings - minimum 4
	• Minimum 1 USB port, compatible with USB storage units from at least 4gb up to 1TB.	Minimum 1 USB port, compatible with USB storage units from at least 4gb up to 1TB.
	• Minimum video out ports: DVI x2.	Minimum video out ports: DVI x2.
	• Video out with a minimum resolution of 1920x1080p.	Video out with a minimum resolution of 1920x1080p.
	• Interconnection cables to the monitor and other additional modules included in the minimum 1 pc DVI set.	Interconnection cables to the monitor and other additional modules included in the minimum 1 pc DVI set.
	• Power supply 220V ± 10V, 50Hz, with power cable included.	Power supply 220V ± 10V, 50Hz, with power cable included.
	• Minimum 8GB USB flash drive for recording images and video during surgical interventions	Minimum 8GB USB flash drive for recording images and video during surgical interventions
	• Moisture-resistant USB keyboard made of silicone or other materials intended for registering patients in the system.	Moisture-resistant USB keyboard made of silicone or other materials intended for registering patients in the system.
	4. Head-camera- 1 pc.	
	• Minimum 3CCD or 3CMOS image capture technology with integrated chip.	• Minimum 3CCD or 3CMOS image capture technology with integrated chip.
	• Minimum resolution FULL HD 1920 x 1080 pixels.	• Minimum resolution FULL HD 1920 x 1080 pixels.

• Camera with Full HD capacity, with 2x optical and 1.5X digital ZOOM.	• Camera with Full HD capacity, with 2x optical and 1.5X digital ZOOM.
• Focus distance - range from 16mm to 26mm.	• Focus distance - range from 16mm to 26mm.
• Camera cable length - not less than 3 meters.	• Camera cable length - not less than 3 meters.
• Automatic coupling on the telescope.	• Automatic coupling on the telescope.
• Video adapter integrated in the camera with cover.	• Video adapter integrated in the camera with cover.
• Totally immersible in disinfectants.	• Totally immersible in disinfectants.
• Autoclavable video adapter.	• Autoclavable video adapter.
• Moiré filter included.	• Moiré filter included.
• Sterilizable.	• Sterilizable.
5. Light source - 1 pc.	
• LED light source, lamp intensification - continuous adjustment with button;	• LED light source, lamp intensification - continuous adjustment with button;
• Mode separated from the rest of the machines.	• Mode separated from the rest of the machines.
• Setting the ON or STANDBY mode with a button.	• Setting the ON or STANDBY mode with a button.
• Guaranteed lifetime of the lamp, minimum 10 thousand hours.	• Guaranteed lifetime of the lamp, minimum 10 thousand hours.
• minimum power, equivalent to a 180W xenon lamp.	• minimum power, equivalent to a 180W xenon lamp.
• light intensity adjustment - automatic mode.	• light intensity adjustment - automatic mode.
• light intensity adjustment - manual mode.	• light intensity adjustment - manual mode.
• Power supply 220V ± 10V, 50Hz, with power cable included.	• Power supply 220V ± 10V, 50Hz, with power cable included.
6. Fiber-optic cable - 2 pcs.	
• With a connector compatible with the supplied light source.	• With a connector compatible with the supplied light source.
• Diameter - 4-5 mm.	• Diameter - 4-5 mm.
• Length - 3 m, +/- 0.5 m.	• Length 2 m
• With free rotation around the axis.	• With free rotation around the axis.
• Heat resistant, autoclavable 134 degrees.	• Heat resistant, autoclavable 134 degrees.
• Compatible with the supplied endoscopes listed below.	• Compatible with the supplied endoscopes listed below.
7. Rigid endoscope / Optical telescope / 0 ° (zero degree) sinuscope - 2 pcs.	
• Rigid endoscope, lateral viewing angle - 0°.	• Rigid endoscope, lateral viewing angle - 0°.
• Minimum HD resolution.	• Minimum HD resolution.
• Outer diameter – 4mm ± 1mm.	• Outer diameter – 4mm ± 1mm.
• Length – 18 cm ± 2 cm.	• Length – 18 cm ± 2 cm.
• Transmission of light through optical fiber incorporated in the optical system.	• Transmission of light through optical fiber incorporated in the optical system.
• Sapphire lenses resistant to chemical, thermal and mechanical agents.	• Sapphire lenses resistant to chemical, thermal and mechanical agents.
• Wide viewing angle.	• Wide viewing angle.
• Autoclavable at 132°C -134°C.	• Autoclavable at 132°C -134°C.
8. Rigid endoscope / Optical telescope / 45 ° (zero degree) sinuscope - 2 pcs.	
• Rigid endoscope, lateral viewing angle - 45°.	• Rigid endoscope, lateral viewing angle - 45°.
• Minimum HD resolution.	• Minimum HD resolution.
• Outer diameter – 4mm ± 1mm.	• Outer diameter – 4mm ± 1mm.
• Length – 18 cm ± 2 cm.	• Length – 18 cm ± 2 cm.
• Transmission of light through optical fiber incorporated in the optical system.	• Transmission of light through optical fiber incorporated in the optical system.

• Sapphire lenses resistant to chemical, thermal and mechanical agents.	• Sapphire lenses resistant to chemical, thermal and mechanical agents.
• Wide viewing angle.	• Wide viewing angle.
• Autoclavable at 132°C -134°C.	• Autoclavable at 132°C -134°C.
9. Rigid endoscope / Optical telescope / 70 ° (zero degree) sinuscope - 2 pcs.	
• Rigid endoscope, lateral viewing angle - 0°.	• Rigid endoscope, lateral viewing angle - 0°.
• Minimum HD resolution.	• Minimum HD resolution.
• Outer diameter – 4mm ± 1mm.	• Outer diameter – 4mm ± 1mm.
• Length – 18 cm ± 2 cm.	• Length – 18 cm ± 2 cm.
• Transmission of light through optical fiber incorporated in the optical system.	• Transmission of light through optical fiber incorporated in the optical system.
• Sapphire lenses resistant to chemical, thermal and mechanical agents.	• Sapphire lenses resistant to chemical, thermal and mechanical agents.
• Wide viewing angle minimum 170 degrees.	• Wide viewing angle minimum 170 degrees.
• Autoclavable at 132°C -134°C.	• Autoclavable at 132°C -134°C.
10. Diathermo coagulator – 1pc.	
• Frequency: between 300 KHz and 1 MHz	• Frequency: between 300 KHz and 1 MHz
• Output channels: Monopolar: 1 isolated channels;	• Output channels: Monopolar: 1 isolated channels;
• Hand switch – Yes;	• Hand switch – Yes;
• Foot switch – Yes;	• Foot switch – Yes;
• Bipolar: 1 isolated channels;	• Bipolar: 1 isolated channels;
• Working modes:	• Working modes:
Monopolar: Cutting: Power: 1-50W, resistance 500 Ohm, discretion 1W;	Monopolar: Cutting: Power: 1-50W, resistance 500 Ohm, discretion 1W;
Coagulation: Power: 10-50W, resistance 500 Ohm, discretion 1W;	Coagulation: Power: 10-50W, resistance 500 Ohm, discretion 1W;
Bipolar: Cutting: Power: 1-50 W, resistance 200 Ohm, discretion 1W;	Bipolar: Cutting: Power: 1-50 W, resistance 200 Ohm, discretion 1W;
Coagulation: Power: 1-50 W, resistance 200 Ohm, discretion 1W;	Coagulation: Power: 1-50 W, resistance 200 Ohm, discretion 1W;
• Coagulation mode: Moderate coagulation, Forced coagulation, Spray coagulation	• Coagulation mode: Moderate coagulation, Forced coagulation, Spray coagulation
• Automatic dosage of power - Yes;	• Automatic dosage of power - Yes;
• Self-test function – Yes;	• Self-test function – Yes;
• Independent output channel – Yes;	• Independent output channel – Yes;
• Indicators: Acoustic and Visual.	• Indicators: Acoustic and Visual.
• Electrical safety: Protection class I; Type CF;	• Electrical safety: Protection class I; Type CF;
• Monopolar ports with the possibility of connecting with Valleylab/Conmed/Bowa type mine parts or their equivalent, (with 3 4 mm pins)	• Monopolar ports with the possibility of connecting with Valleylab/Conmed/Bowa type mine parts or their equivalent, (with 3 4 mm pins)
• Monopolar port with 4 mm "mother" type port - for the monopolar cables provided in the institution.	• Monopolar port with 4 mm "mother" type port - for the monopolar cables provided in the institution.
Accessory:	Accessory:
• Pedal-type foot switch, cutting/coagulating, connection wire length minimum 3m, 1 pc.	• Pedal-type foot switch, cutting/coagulating, connection wire length minimum 3m, 1 pc.
• Power cable 220V, minimum length 4 m, 1 pc.	• Power cable 220V, minimum length 4 m, 1 pc.
• Cable for potential equalization, minimum wire length 4m, 1 pc.	• Cable for potential equalization, minimum wire length 4m, 1 pc.
• Autoclavable neutral rubber electrode with interconnector cable with a minimum length of 3 meters.-2 sets.	• Autoclavable neutral rubber electrode with interconnector cable with a minimum length of 3 meters.-2 sets.

• Bipolar bayonet type pliers with integrated suction port located on the tip and port for connecting the suction tube. Tip width 1.4mm $\pm$ 0.1mm, length 200mm $\pm$ 10mm. Reference example: see Karl Storz Ref code: 844320. – 2 pcs. + interconnection cable to diathermocoagulator, autoclavable - 2 pcs.	• Bipolar bayonet type pliers with integrated suction port located on the tip and port for connecting the suction tube. Tip width 1.4mm $\pm$ 0.1mm, length 200mm $\pm$ 10mm. Reference example: see Karl Storz Ref code: 844320. – 2 pcs. + interconnection cable to diathermocoagulator, autoclavable - 2 pcs.
• Angular monopolar piece for coagulation and aspiration. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. Outer diameter 3mm, working length 17cm $\pm$ 10mm. – 1 pc.	• Angular monopolar piece for coagulation and aspiration. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. Outer diameter 3mm, working length 17cm $\pm$ 10mm. – 1 pc.
• Angular, insulated monopolar piece with non-insulated coagulation contact point located distally. Outer diameter 3.5mm $\pm$ 0.1mm, working length 12cm $\pm$ 10mm. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. -1 pc.	• Angular, insulated monopolar piece with non-insulated coagulation contact point located distally. Outer diameter 3.5mm $\pm$ 0.1mm, working length 12cm $\pm$ 10mm. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. -1 pc.
• Angular monopolar piece curved in the upper part, flexible. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. Outer diameter 4mm $\pm$ 0.1mm, working length 15 cm $\pm$ 10mm – 1 pc.	• Angular monopolar piece curved in the upper part, flexible. With connector for monopolar cable with the possibility of connection with the diathermocoagulator and port for the suction tube. Outer diameter 4mm $\pm$ 0.1mm, working length 15 cm $\pm$ 10mm – 1 pc.
• Monopolar cable for connecting instruments compatible with the monopolar parts listed above. - 2 pcs.	• Monopolar cable for connecting instruments compatible with the monopolar parts listed above. - 2 pcs.
• Note: Accessories must be produced by the same manufacturer as the device.	• Note: Accessories must be produced by the same manufacturer as the device.
11. Multifunctional system with electric motor	
• Device intended for surgical interventions pathology of the nose and paranasal sinuses, pathology of the ear.	• Device intended for surgical interventions pathology of the nose and paranasal sinuses, pathology of the ear.
• Micromotor steering system: Touch screen, color display, diagonal minimum 6 mm.	• Micromotor steering system: Touch screen, color display, diagonal minimum 6 mm.
• Output channels: Working channel: 2 independent connections with the possibility of automatic recognition of the connected handpiece.	• Output channels: Working channel: 2 independent connections with the possibility of automatic recognition of the connected handpiece.
• Irrigation system: Integrated.	• Irrigation system: Integrated.
• Foot switch Yes.	• Foot switch Yes.
• Speed of rotations per minute minimum 300 - 80 000.	• Speed of rotations per minute minimum 1000-4000
• Indicators: Acoustic, Visual.	• Indicators: Acoustic, Visual.
Accessory:	
• Pedal type double foot switch with connecting cable minimum length 2 m. 1 pc.	• Pedal type double foot switch with connecting cable minimum length 2 m. 1 pc.
• Mine piece-1pc.	• Mine piece-1pc.
• With the range of revolutions per minute between at least 10,000-12,000.	• With the range of revolutions per minute between at least 10,000-12,000.
• In oscillation mode with a maximum of 10,000 oscillations.	• In oscillation mode with a maximum of 10,000 oscillations.

	• In spin mode with a maximum of 12,000 revolutions.	• In spin mode with a maximum of 12,000 revolutions.
	• With integrated suction channel.	• With integrated suction channel.
	• With integrated suction channel.	• With integrated suction channel.
	• Completely immersible in liquids.	• Completely immersible in liquids.
	• Autoclavable at 134°C.	• Autoclavable at 134°C.
	• Universal adapter for coupling inserts.	• Universal adapter for coupling inserts.
	• Adjustable miner attachable for mine piece, angular.	• Adjustable miner attachable for mine piece, angular.
	• Universal spray with spray nozzle for cleaning and lubricating hand parts. 3 pcs	• Universal spray with spray nozzle for cleaning and lubricating hand parts. 3 pcs
	• Power cable 220V, minimum length 4 m. 1 pc	• Power cable 220V, minimum length 4 m. 1 pc
	• Cable for potential equalization, minimum wire length 4m. 1 pc.	• Cable for potential equalization, minimum wire length 4m. 1 pc.
	• Note: Accessories must be produced by the same manufacturer as the device	• Note: Accessories must be produced by the same manufacturer as the device
	Certification Requirements:	
	Minimum production year 2022.	Minimum production year 2022.
	Warranty period not less than 24 months from the moment of installation.	Warranty period 24 months, lifetime after sale service.
	Installation, commissioning, training by the winning participant - mandatory	Installation, commissioning, training by the winning participant - mandatory
	User training upon installation and upon request - mandatory. Preventive maintenance services during the warranty period.	User training upon installation and upon request - mandatory. Preventive maintenance services during the warranty period.
	In case of device failure under warranty, the repair term will be added to the total warranty period.	In case of device failure under warranty, the repair term will be added to the total warranty period.
	During the warranty period, the intervention time in case of failure is at least 24 hours.	During the warranty period, the intervention time in case of failure is at least 24 hours.
	Confirmatory documents:	
	Upon delivery of the mandatory medical device:	
	User manual in Romanian and English	User manual in Romanian and English
	Service manual and user manual in accordance with LAW No. 102 regarding medical devices from 09.06.2017, chapter 4 Article 14. P. 3.	Service manual and user manual in accordance with LAW No. 102 regarding medical devices from 09.06.2017, chapter 4 Article 14. P. 3.
	Quick guide in Romanian laminated attached to the device.	Quick guide in Romanian laminated attached to the device.
	MODEL	G60

Ultrasonographer General high performance (EXPERT)		
	Specification requested by customer	Specifications proposed by the manufacturer CHISON
	CLINICAL APPLICATIONS: General, Small parts, Urological, Cardiac, Vascular, Obstetric and Gynecological.	Yes, General, Small parts, Urological, Cardiac, Vascular, Obstetric and Gynecological
	PORTS FOR ACTIVE TRANSLATORS (minimum): 4;	Yes, 4
	GRAY LEVELS (minimum): 256;	Yes, 256
	DYNAMIC RANGE (minimum): 310dB;	Better, 390 dB
	PRE-PROCESSING DIGITAL CHANNELS (minimum): 4 500 000;	Better, 7 000 000
	SCANNING DEPTH (minimum): 40 cm;	Better, 45.8 cm
	FREQUENCY RANGE ASSURED BY THE DEVICE 1-18 Mhz (minimum);	Better, 1-23 MHz
	TRANSDUCER ACCEPTED BY THE SYSTEM: linear, convex, sectoral, volumetric abdominal, volumetric endocavitation, 360° radial endocavitation, biplane endocavitation, transesophageal, intraoperative;	Yes
	Number of frequencies emitted by a transducer (minimum): 8;	Yes, 8
	POSTPROCESSING YES;	Yes
	Imaging modes and regimes required:	
	M-mode;	Yes
	B-mode and 2-D;	Yes
	Regime used for biopsy, visualization of the needle and display of its trajectory;	Yes
	Mode that allows the examination of a panoramic, trapezoidal image;	Yes
	DOPPLER Type CW, PW, CFM, TDI, HPRF;	Yes
	The possibility of using PW for the simultaneous evaluation of two different regions of interest;	Yes
	Display frequency;	Yes
	Speed display;	Yes
	Power Doppler;	Yes
	Duplex;	Yes
	Triplex;	Yes, Triplex and quadplex
	Packages Measurements, reports and analyses: obstetrical; gynecological; vascular; abdominals; for small parts; cardiological; cardiological; urological.	Yes
	Automated Measurements: Nuchal Translucency; Intima	Yes, Nuchal Translucency
	FUNCTIONALITIES:	
	Automatic calculations YES;	Yes
	Automated measurements YES;	Yes
	Adjustable dynamic range YES;	Yes
	Adjustable transmission focus YES;	Yes
	Adjustable receive focus YES;	Yes
	Real-time PAN/ZOOM and DA ice cream;	Yes
	High Definition Zoom YES;	Yes

Frozen picture YES;	Yes
Measurements in real time and in freeze YES;	Yes
Frequency adjustment YES;	Yes
Automatic probe selection when applying the DA preset;	Yes
GAIN adjustment YES;	Yes
TGC – at least 8 DA segments;	Yes, 8 segments
Automatic image optimization function YES;	Yes, AIO
Dual simultaneous image viewing YES;	Yes
Adjusting the acoustic signal YES;	Yes
OPTIONAL FEATURES AND REGIMES (which can be installed/purchased later):	Yes
- Elastography in real time;	Yes
- Shear Wave for the proposed convex transducer;	Yes
- Stress Echo or analogue;	Yes
Strain Ratio or analogue;	Yes, Strain Ratio
- Tissue Doppler Imaging or analogue;	Yes, Tissue Doppler Imaging
- Function that allows the synchronization of the USG image with the CT/MR/PET image;	Yes, SonoFusion function
- 3D/4D: Multiplanar reconstruction, Simultaneous display of at least 9 sections (slices) on the screen, Investigation	Yes, 9 slices
three-dimensional visualization of the fetus, three-dimensional display of flow in blood vessels using color doppler,	Yes
Automatic display of the clear image of the fetus optimally filtering the signal of the placenta or other tissues unwanted	Yes
Storage space (minimum): 1TB.	Yes, 500GB Standard, 1TB optional
CINE memory (minimum): 63000 frames or 800 sec.	Yes, 800sec
USB extension ports minimum 4, of which minimum 1 USB 3.0.	Better, USB ports 8, 6 USB 3.0
DICOM 3.0 YES.	Yes, DICOM 3.0
TRANSLATORS WITH THE MINIMUM REQUIRED RANGE:	
Convex 1 Mhz - 6 Mhz - 1 unit, single crystal, minimum 160 elements, angle of visual field minimum 70°;	Yes, C3M-T, 1.0-8.2 MHz, 192 elements, FOV 95°with expending
Linear 5 - 18 MHz - 1 unit, minimum 160 elements, minimum aperture 38 inches, with guidance systems;	Yes, L12M-T, 5.0-18.0 MHz, 192 elements, aperture 37mm
The ultrasonograph should be set to work with the supplied transducers, convex - for all installed functions applied to the abdomen, linear - for all installed functions applied to small organs, musculoskeletal, peripheral vessels, superficial organs, thyroid gland, mammary gland.	Yes
LCD LED or OLED MONITOR minimum 21 inches; minimum resolution 1600x900;	Better, 23.8 inches, 1920*1080
Integrated control monitor minimum 10 inches;	Better, 13.3 inches
Minimum 6 configurable console buttons;	Yes
At least 6 supports for translators;	Yes
Adjustable height of at least 45 cm;	Height adjustable: 130~145cm

	Upgrade possibility;	
	Black/white thermal printer – 1pc;	Yes, SONY UPX898MD
	UPS, minimum backup time 10 min.	Built-in battery support 80 minutes scanning
	Confirmation letter from the manufacturer that the machine offered has all the optional functions mentioned above.	Yes
	Certification Requirements:	
	Minimum production year 2022.	Yes, 2023 produced brand-new machine
	Warranty period not less than 24 months from the moment of installation.	Yes, 24 months
	Installation, commissioning, training by the winning participant - mandatory	Yes
	User training upon installation and upon request - mandatory. Preventive maintenance services during the warranty period.	Yes
	In case of device failure under warranty, the repair term will be added to the total warranty period.	Yes
	During the warranty period, the intervention time in case of failure is at least 24 hours.	Yes
	Confirmatory documents:	
	Upon delivery of the mandatory medical device:	
	User manual in Romanian and English	Yes, in English
	Quick guide in Romanian laminated attached to the device.	Yes
	weight	118kg
	MODEL	XBit90