ANNEX 1

(2/3)

SPECIFICATION SHEET

LOT 1								(1	./3)
Code N	lo.	M-01A Anesthesia Apparatus Type 1			Quantity:			1 unit	
Purpos	e :								
	Inductio	n of general anesthesia							
1.0	•.•								
1. Com	iposition								
1-1	Compos	Ition Main Unit		1		1		1	
	(1)	Main Unit Venerizer, Seveflurene		1 unit	X	1	=	1 units	
	(3)	A month and a supplication		1 unit	X	1	=	1 units	
	(4)	Anestnesia ventilator	÷		х	1	=		
	(5)	Anestnesia monitor	:	1 unit	х	1	=	1 units	
1-2	Accesso	ries							
	(1)	Pressure tube, for O2 and N2O	:	1 set	х	1	=	1 sets	
	(2)	Corrugated tube for surplus gas removal	:	1 pc.	х	1	=	1 pcs.	
		connect to AGS							
	(3)	Breathing circuit, reusable, adult	:	10 pc.	х	1	=	10 pcs.	
	(6)	Y-adapter, plastic	:	1 set	х	1	=	1 sets	
	(7)	Anesthesia mask, S, M, and L	:	1 set	х	1	=	1 sets	
	(8)	Test lung(1.5 L or more)	:	1 set	х	1	=	1 sets	
	(9)	Breathing bag, 3L or more	:	1 set	х	1	=	1 sets	
	(10)	Laryngoscope set	:	1 set	х	1	=	1 sets	
	(11)	Charging station for laryngoscopes	:	1 pc.	х	1	=	1 pcs.	
	(12)	Self-inflating bag for manual ventilation,	:	1 pc.	х	1	=	1 pcs.	
		adult (1500 mL), reusable							
	(14)	Reusable silicone mask size 3	:	1 pc.	х	1	=	1 pcs.	
	(15)	Reusable silicone mask size 4	:	1 pc.	х	1	=	1 pcs.	
	(16)	Reusable silicone mask size 5	:	1 pc.	х	1	=	1 pcs.	
	(17)	Head strap, reusable, silicone, small	:	1 pc.	х	1	=	1 pcs.	
	(18)	Head strap, reusable, silicone, large	:	1 pc.	х	1	=	1 pcs.	
	(19)	Guedel airway, size 5	:	1 pc.	х	1	=	1 pcs.	
	(20)	Guedel airway, size 4	:	1 pc.	х	1	=	1 pcs.	
	(21)	Guedel airway, size 3	:	1 pc.	х	1	=	1 pcs.	
	(22)	Guedel airway, size 2	:	1 pc.	х	1	=	1 pcs.	
	(23)	Guedel airway, size 1.5	:	1 pc.	х	1	=	1 pcs.	
	(24)	Guedel airway, size 0	:	1 pc.	х	1	=	1 pcs.	
	(25)	Guedel airway, size 00	:	1 pc.	х	1	=	1 pcs.	
	(26)	Reusable CO2 absorber		1 pc.	х	1	=	1 pcs.	
	(27)	Standard configuration 115V/230V		1 pc.	х	1	=	1 pcs.	
	(28)	Patient monitor mounting kit	:	1 set	х	1	=	1 sets	

Any other accessories which is required for installation and operation should be included and described on the offered specification.

2. Specifications 2-1 Main U

- Main Unit (1) Gas mixing control
 - (1) Gas mixing control (2) Flow meter
 - (2) 110.1 110.0
 - (3) Vaporizer hook
 - (4) Canister for CO2 absorber
 - (5) Oxygen monitor
 - Туре
 - Measuring range
- 2-2 Vaporizer
 - (1) Kind of agent
 - (2) Type
 - (3) Capacity
- 2-3 Anesthesia ventilator
 - (1) Type
 - (2) Operating mode
 - (3) Breathing frequency
 - (4) Tidal volume
 - (5) I:E ratio
 - (6) Peep
- 2-4 Anesthesia monitor
 - (1) Parameters

- : Electronic
- : O2 0.3 to 40.0 L/min or wider
- : N2O 0.5 to 20.0 L/min or wider
- : 2pcs. or more
- : Equipped
- : Paramagnetic sensor or fuel cell
- : 0 to 99% or wider
- : Isoflurane, Sevoflurane, Desflurane
- : Mechanical or Electronical control type
- : 300mL or more
- : Electronically controlled type
- : Volume and Pressure control, SIMV, VCV, PCV, PSV or CPAP or more
- : 4 to 90 bpm or wider
- : 20 to 1900 mL or wider
- : 4:1 to 1:10 or wider
- : 0 to 30 cmH2O or wider
- : Inspiratory concentration of O2, CO2, N2O, MAC Breathing frequency, Tidal volume Minutes volume, Peak pressure, etc.

1	(2)	Size	:	10 inch or more, to	ouch screen					
	(3)	Connection	:	Input port for patie	ent monitor					
	(4)	Alarm signal output		I I						
	. ,	Function	:	Various signals are	e transferred to	Patient				
				monitor						
		Interface	:	RS-232C						
2-5	Laryngos	scope								
	(1)	Handle	:	Rechargeable						
	(2)	Blade type	:	Macintosh						
	(3)	Blade size	:	5 sizes						
2-6	Power re	equirement	:	AC 220V±10%, si	ngle phase, 50	Hz				
3. Spar	e Parts									
1	No									
4. Cons	umables									
	4-1	Connector for catheter		:	10 pcs.	х	1	=	10 pcs.	
	4-2	Breathing filter set, Adult		:	10 sets	х	1	=	10 sets	
										(3/3)
	1.5	Water trap for Line CO2 probe			12 pcs	v	1	_	12 pcs	
	4-6	Line for CO_2 probe (10 pcs /box)			12 pcs.	A V	1	_	12 pcs.	
	4-0	Soda lime sorbent for CO2			2 pcs	x	1	_	2 pcs	
	4-8	Flow sensor (5 pcs /box)			1 box	v	1	_	1 box	
	4-9	Spare bulb for laryngoscope blade		:	2 sets	x	1	=	2 sets	
5. Note										
	No									

LOT 2 Code No		M-01B Anesthesia Apparatus Type 2				Quantity.			1 unit	(1/3)
						Zummy.				
Purpose :	T 1 - 2									
	Induction	a of general anesthesia								
1. Compo	sition									
1-1	Composi	tion								
	(1)	Main Unit Venerizer Joeflurene		:	l unit	X	1	=	1 units	
	(2)	Anesthesia ventilator			1 unit	x	1	=	1 units	
	(5)	Anesthesia gas monitor		:	1 unit	x	1	=	1 units	
		-								
1-2	Accessor	ies								
	(1)	Pressure tube, for O2 and N2O		:	l set	X	1	=	1 sets	
	(2)	connect to AGS		:	I pc.	х	1	=	1 pcs.	
	(3)	Breathing circuit, reusable, adult		:	10 pc.	х	1	=	10 pcs.	
	(6)	Y-adapter, plastic		:	1 set	х	1	=	1 sets	
	(7)	Anesthesia mask, S, M, and L		:	1 set	х	1	=	1 sets	
	(8)	Test lung(1.5 L or more)		:	1 set	х	1	=	1 sets	
	(9)	Breathing bag, 3L or more		:	l set	x	1	=	1 sets	
	(10)	Laryngoscope set Charging station for laryngoscopes		:	1 set	X	1	=	1 sets	
	(12)	Self-inflating bag for manual ventilation.			1 pc.	X	1	=	1 pcs.	
	、 =/	adult (1500 mL), reusable			1	-				
	(14)	Reusable silicone mask size 3		:	1 pc.	х	1	=	1 pcs.	
	(15)	Reusable silicone mask size 4		:	1 pc.	х	1	=	1 pcs.	
	(16)	Reusable silicone mask size 5		:	1 pc.	х	1	=	1 pcs.	
	(17)	Head strap, reusable, silicone, small		:	1 pc.	x	1	=	1 pcs.	
	(18)	Guedel airway, size 5			1 pc.	x	1	=	1 pcs.	
	(20)	Guedel airway, size 3 Guedel airway, size 4			1 pc.	x	1	=	1 pcs.	
	(21)	Guedel airway, size 3		:	1 pc.	x	1	=	1 pcs.	
	(22)	Guedel airway, size 2		:	1 pc.	х	1	=	1 pcs.	
	(23)	Guedel airway, size 1.5		:	1 pc.	х	1	=	1 pcs.	
	(24)	Guedel airway, size 0		:	1 pc.	х	1	=	1 pcs.	
	(25)	Guedel airway, size 00		:	I pc.	X	1	=	I pcs.	
	(26)	Reusable CO2 absorber Patient monitor mounting kit for			1 pc.	x	1	=	1 pcs.	
		Any other accessories which is required for installation and should be included and described on the offered specification	d operation ion.							
										(2/2
2. Specifi	cations									(2/5
2-1	Main Un	it								
	(1)	Gas mixing control	:	Analog or Electro	onic					
	(2)	Flow meter	:	O2 0.2 to 10.0 L	min or wide	:r 				
	(3)	Vaporizer book		N2O 0.5 to 10.0	L/min or wie	aer				
	(3)	Canister for CO2 absorber		Equipped						
	(5)	Oxygen monitor	•	Equipped						
		Туре	:	Galvanic sensor	or fuel cell					
		Measuring range	:	0 to 99% or wide	er					
2-2	Vaporize	r Kilon		1 9 9						
	(1)	Ninu of agent	:	Isonurane, Sevoi Mechanical or E	lurane	itrol type				
	(2)	Capacity		300mL or more	icentonic con	noi type				
2-3	Anesthes	ia ventilator		s s s s s s more						
	(1)	Туре	:	Electronically co	ontrolled type	e				
	(2)	Operating mode	:	Volume and Pres	ssure control	, PS, SIMV o	r more			
	(3)	Breathing frequency	:	4 to 60 bpm or w	/ider					
	(4)	Indal volume	:	20 to 1400 mL o	r wider					
	(5)	I:E fatio		2:1 to 1:8 of Wid	er vr wider					
2-4	Anesthes	ia monitor	•	5 to 20 cmi120 (
	(1)	Parameters	:	Inspiratory conce	entration of C	D2, CO2, N2	С			
				Breathing freque	ncy, Tidal v	olume				
				Minutes volume,	Peak pressu	re, etc.				
	(2)	Size	:	10 inch or more,	touch screer	1				
	(3)	Connection	:	input port for pat	tient monitor					
	(4)	Function		Various signals a	are transferre	d to Patient				
				monitor		a to i attent				
		Interface	:	RS-232C						
2-5	Laryngos	cope								
	(1)	Handle	:	Rechargeable						
	(2)	Blade type	:	Macintosh						
2-6	(3) Power ro	Diaue Size	:	3 SIZES	single phase	50Hz				
∠-0	rower re	quirement	:	AC 220 V±10%,	single phase	, JUHZ				

110							
Consumables							
4-1	Connector for catheter	:	10 pcs.	х	1	=	10 pcs.
4-2	Breathing filter set, Adult	:	10 sets	х	1	=	10 sets
							(3)
4-5	Water trap for Line CO2 probe	:	12 pcs.	x	1	=	12 pcs.
4-6	Line for CO2 probe (10 pcs./box)	:	12 boxes	х	1	=	12 boxes
4-7	Soda lime sorbent for CO2	:	2 pcs.	х	1	=	2 pcs.
4-8	Flow sensor (5 pcs./box)	:	1 box	х	1	=	1 box
4-9	Spare bulb for laryngoscope blade	:	2 sets	х	1	=	2 sets

LOT 3				(1/3
Code No.		M-02	Ventilator for Adult	Quantity: 1 unit
Purpose :				
	To assist	and support	t patient respiration	
1 Compo	sition			
1. Compe	Composi	tion		
1-1	(1)	Main unit	t i i i i i i i i i i i i i i i i i i i	\cdot 1 unit x 1 = 1 unit
	(2)	Stand		$\frac{1}{1} \frac{1}{1} \frac{1}$
	(3)	External	Air compressor (if necessary)	\therefore 1 unit x 1 = 1 unit
1-2	Accessori	es		
	(1)	Oxvgen h	igh pressure hose	1 pc. x 1 = 1 pcs.
	(2)	Compress	sed air high pressure hose (if necessary)	1 pc. $x = 1 pcs.$
	(3)	Respirato	ry circuit for adult, reusable	3 sets x 1 = 3 sets
	(5)	Circuit ha	inger	1 set x 1 = 1 sets
	(6)	Humidifie	er with heater	1 set x 1 = 1 sets
	(7)	Test lung	for adult	1 pc. $x = 1 pcs.$
	(/)	rest tung		
		Any other	r accessories which is required for installation ar	operation
		should be	included and described on the offered specifica	n.
			I	
2. Specifi	cations			
2-1	Main uni	t		
	(1)	Applicabl	le patient	: Adult or body weight over 5 kg
	(2)	Control p	rinciple	: Microprocessor control, based volume and
		-	-	pressure limited ventilation
	(3)	Ventilatio	on mode	: SIMV, PS and CPAP or more
	(4)	PEEP/CP	AP	: 1 to 35 cmH2O or wider
	(5)	Pressure	Support	: 2 to 35 cmH2O or wider
	(6)	Respirato	ry rate	: 4 to 80 bpm or wider
	(7)	Tidal volu	ume	: 150 to 2000 mL or wider
	(8)	Inspirator	ry time	: 0.2 to 3.0 second or wider
	(9)	I/E ratio	-	: 3:1 to 1:10 or wider
	(10)	Oxygen c	concentration	: 21 to 100%
	(11)	Alarm		: High and low pressure, Gas supply source
				failure, Electrical power failure apnea
				or more
	(12)	Indication	1	: Tidal volume, inspiration time, I/E ratio
	. /			or more
	(13)	Real-time	e curves	: Pressure, Flow, P/V curve or more
	(14)	Trigger S	ensitivity	: 1 to 10 L/min or wider
	(15)	External	gas requirement	: Oxygen and Compressed Air (If required)
	(16)	Power red	auirement	: AC 220V \pm 10%, single phase, 50Hz
2-2	Stand		1	Equipped with casters
-				JII
				(2/2
3 Spare I	Darte			(

No.	
 Consumables 4-1 Paper for humidifier (100 pcs./pack) 	: $1 \text{ pack} \times 1 = 1 \text{ pack}$
5. Note	
No	

LOT 4								-			(1/1
Code No.		M-03	Intubation Fibrolaryngoscope				Quantity:			1 set	
Purpose :											
	Intubatio	on and End	oscopic diagnosis								
1. Compo	sition										
1-1	Compos	ition									
	(1)	Flexible	bronchoscope for laryngoscopy		:	1 unit	х	1	=	1 unit	
1-2	Accesso	ries									
	(1)	Instrume	nts trav		:	1 pc.	х	1	=	1 pc.	
	(2)	Cleaning	brush		:	1 pc.	х	1	=	1 pc.	
	(3)	Cleaning	brush for valves		:	1 pc.	х	1	=	1 pc.	
	(4)	Cleaning	kit		:	1 pc.	х	1	=	1 pc.	
	(5)	Light sou	rce		:	1 pc.	x	1	=	1 pc.	
	(-)	Any othe	r accessories which is required for installation a	and operation		r				1	
		should b	e included and described on the offered specific	ation.							
2. Specifi	cations										
2-1	Flexible	Bronchosc	ope:								
	(1)	Applicab	le patient	:	Adult						
	(2)	Viewing	direction		0°						
	(3)	Field of	view		110° or more						
	(4)	Observat	ion range	:	3 to 50 mm or wie	der					
	(5)	Distal en	d diameter	:	5.5 mm or less						
	(6)	Bending	capability	:	Up 180°/ Down 9	0° or more					
	(7)	Working	length	:	600 mm or more						
	(9)	Forceps	channel		2.0 mm to 2.5 mn	1					
	(10)	Air and y	vater nozzle		1 pc.						
3. Spare I	Parts										
	No										
4. Consur	nables										
	4-1	Lens clea	ner		:	1 pc.	Х	1	=	1 pc.	
	4-2	Silicon o	il		:	1 pc.	х	1	=	1 pc.	
5. Note											
	No										
	4-1	Lithium-	on battery		:	3 pcs.	Х	2	=	6 pcs.	
5. Note											
	No										

LOT 5														(1/2)
Code No		M-04	Patient Monitor							Quantity:			1 set	
Purpose	:													
	To monit	or patients	vital signs											
1. Comp	osition													
1-1	Composi	tion												
	(1)	Main Uni						:	l unit	х	1	=	I units	
	(2)	Recorder	module						I unit	Х	1	=	I units	
1.0														
1-2	Accessor (2)	De channer							1		1		1	
	(3)	ECG conr	action cord					•	1 set	X	1	_	1 set	
	(4)	Electrode	lead for 3 alastrodas						1 set	A V	1	_	1 set	
	(5)	Temperati	re probe catheter or rec	tal type adult				:	1 set	x x	1	_	1 set	
	(8)	Temperati	re probe, disk type 10 r	mm dia					1 set	x	1	=	1 set	
	(9)	SpO2 con	nection cord						1 set	x	1	=	1 set	
	(10)	SpO2 fing	er probe					÷	1 set	x	1	=	1 set	
	(11)	SpO2 mul	ti-site probe					:	1 set	х	1	=	1 set	
	(12)	NIBP air l	nose for adult/child, 3.5n	n				:	1 set	х	1	=	1 set	
	(13)	NIBP cuff	for adult					:	1 set	х	1	=	1 set	
		Any other	accessories which is req	uired for installation	and operation									
		should be	included and described	on the offered specif	ication.									
2. Specif	ications													
2-1	Main uni	t												
	(1)	Measuring	g parameters			:	Arterial Press	sure, F	Pulse, ECG,	Respiration	n, Tempera	ture, SpO	02,	
							Non-invasive	blood	d pressure, C	202,				
							Invasive bloc	od pres	ssure or Esti	mated				
		D' 1					continuous ca	ardiac	output or E	stimated int	tegrated 24	trending	; CO (tabula	r/graphical)
	(2)	Display					G 1 10 1							
		Display	^			:	Color 10 inch	1 or m	ore					
		Number o	f waveforms			:	15 or more	E)					
		Sweep spe	eed			:	6.25, 12.5, 23 E-minut	5 or 50	J mm/s and	more				
	(2)	Freeze Iur	iction			:	Equipped							
	(3)	ECG lead					3-electrodes	тпт	II and more					
		Heart rate	counting range				0.15 to 250 f	1, 11, 1 50m 0	r wider					
	(4)	Respiratio	n			•	0, 15 to 250 t	opin o	i widei					
	~ /	Measuring	g range			:	0,4 to 125 rps	m or v	vider					
			-											(2/2)
	(5)	Non-invas	sive blood pressure											
		Measuring	g method			:	Oscillometric	e meth	od					
		Cuff press	sure display range			:	30 to 280 mn	nHg o	r wider					
	(6)	Temperati	ire											
		Measuring	g range			:	0,2 to 45°C o	or wide	er					
	(7)	SpO2												
		Measuring	g range			:	1 to 100% or	wider	r					
	(8)	IBP measure	uring											
		Measuring	g range			:	-50 to 300 m	mHg o	or wider					
	(9)	Carbon D	loxide				G · · · · ·	<i>.</i> .	0.1					
		Calculatio	n method			:	Semi-quantit	ative o	or Sidestreal	m				
	(10)	Decorder	g range			:	0 to 100 mm	Hg or	wider					
	(10)	Type					Thermal type							
		Number o	f channels				3 or more							
2-2	Power re	quirement	r channels				AC 220V+10)% si	ngle phase	50Hz				
	1 0 0001 10	quirement				•	110 220 1 210	, , , , , , , , , , , , , , , , , , ,	ingre priuse,	JOILE				
3. Spare	Parts													
	3-1	ECG conr	ection cord					:	1 set	х	1	=	1 sets	
	3-2	Electrode	lead, for 3 electrodes					:	1 set	х	1	=	1 sets	
	3-3	Temperate	are probe, catheter type,	adult				:	1 set	х	1	=	1 sets	
	3-4	Temperati	are probe, catheter type,	child				:	1 set	х	1	=	1 sets	
	3-5	Temperat	are probe, disk type, 10 r	mm dia				:	1 set	х	1	=	1 sets	
	3-6	SpO2 fing	er probe					:	1 set	х	1	=	1 sets	
	3-7	SpO2 mul	ti-site probe					:	1 set	х	1	=	1 sets	
	3-8	SpO2 con	nection cord					:	1 set	х	1	=	1 sets	
	3-9	NIBP air l	nose for adult/child, 3.5n	n				:	1 set	х	1	=	1 sets	
	3-10	NIBP cuff	for adult					:	1 set	х	1	=	1 sets	
1														

4. Consumables							
4-1	Disposable electrode, adult, 150 pcs./set	:	6 sets	х	1	=	6 sets
4-2	Temperature insulation pad, 60 pcs./set	:	3 sets	х	1	=	3 sets
4-3	Temperature probe cover, 10 pcs./set	:	3 sets	х	1	=	3 sets
4-4	Recording paper, 10 pcs./set, 50mm x 20m	:	3 sets	х	1	=	3 sets

	LOT 6							<u>. </u>				(1/2)
Code No.		M-05	Operation Table					Quantity:			1 set	
Equipmen	nt No.											
Purpose :	Operatio	n table for e	each surgery									
1. Compo	sition											
1-1	Composi	tion										
	(1)	Main unit				:	1 unit	х	1	=	1 unit	
	(3)	Hand rem	ote control unit			:	1 pc.	х	1	=	1 pcs.	
1-2	Accessor	ries										
	(1)	List of acc	cessories are shown in the table below			:	1 set	х	1	=	1 set	
		Any other should be	accessories which is required for installation included and described on the offered specific	and operation cation.								
2. Specific	cations											
2-1	Main Un	it										
	(1)	Table top	size	:	2,030mm x 5	00mn	n or more					
	(2)	Table top	material	:	Radiolucent	plastic	plate and/o	r metal fram	e			
		Radioluce	ent area		1600mm or r	nore						
	(3)	Table top	positioning									
		Cummula	tive Sliding	:	310 mm or n	nore						
		Height ad	justment (with padding)	:	620mm - 110	00mm	or wider					
		Trendelen	iburg / Reverse	:	30degree / 30)degre	e or more					
		Lateral til	t right / left	:	20degree / 20)degre	e or more					
		Back sect	ion up / down	:	60degree / 40)degre	e or more, c	letachable				
		Head sect	ion up / down	:	45degree / 90 detachable)degre	e or more, r	nanual,				
		Leg section	on up / down	:	15degree / 90)degre	e or more, d	letachable, p	air			
	(4)	X-ray case	sette tray size	:	390 x 288mm	n or bi	igger					
	(6)	Maximum	ı load	:	450kg for ele	evatior	n, 250kg for	all positions	or more			
	(7)	Return to	level	:	One button re Flex/Reflex or	turn to more	zero level or	per each pos	ition separa	ately		
	(8)	Controls		:	Hand Remote secondary swi	contro	ol unit with o	r On table colu	ums and wi	ired hand	control unit	
	(9)	Mobility		:	4 swivel caste 4-point base	rs and	electro-hydra	ulic				
	(10)	Built-in b	attery and charger	:	DC 24V							
	(11)	Power rec	juirement	:	AC 220V±10)%, Si	ngle phase.	50Hz				
2-2	Mayo ins	strument tra	y with stand			.,	U 1 100,					
	(1)	Tray size	-	:	350(W) x 50	0(D) r	nm or more					
	(2)	Lift range		:	850-1200 mr	n or w	vider					
	(3)	Material		:	Stainless stee	el						
	(3)	Material		:	Stainless stee	el						

3. Spare Parts	
No	
4. Consumables	
No	
5. Note	
No	

Nr.	Accessories for Operation Table	Q-ty
1	Arm board with mattress	2
2	Body support	2
3	Extra radiographic table top plate	1
4	Head rest with attachment	1
5	Knee rest, extension board	1
6	Levitator	1
7	Locking type arm board with pad	1
8	L-shaped screen frame with clamp	1
9	Screen frame, adjustable type with clamp	1
10	Urology tray with hose and receptacle	1
11	V-attachment	1
12	Gynecological support	1
13	Perfusion support	1

LOT 7												(1/1)
Code No.		M-06	Suction Unit					Quantity:			2 sets	
Purpose :	Device f	or removing	liquids or gases by suction									
1. Compo	sition											
1-1	Compos	ition										
	(1)	Main unit				:	1 unit	х	2	=	2 units	
1-2	Accesso	ries										
	(1)	Suction bo	ottle			:	2 pcs.	х	2	=	4 pcs.	
	(2)	Suction tu	be			:	2 pcs.	х	2	=	4 pcs.	
		Any other should be	accessories which is required included and described on the	d for installation and operation e offered specification.	I							
2. Specifi	cations											
2-1	Main un	it										
	(1)	Type			:	1 bottle type or m	ore					
	(2)	Maximum	Vacuum		:	650 mmHg or mo	re					
	(3)	Flow rate			:	30 L / min or mor	e					
	(4)	Capacity of	of suction bottle		:	Total 4 L or more	, autoclavab	le				
	(5)	Caster			:	Equipped, with b	rakes					
2-2	Power re	equirement			:	AC 220V±10%, s	ingle phase,	50Hz				
3. Spare I	Parts											
-	3-1	Suction be	ottle			:	2 pcs.	х	2	=	4 pcs.	
	3-2	Suction tu	be			:	2 pcs.	х	2	=	4 pcs.	
4. Consu	nables											
	4-1	Bacteria F	ilter			:	10 pcs.	х	2	=	20 pcs.	
5. Note												
	No											

LOT 8			-									(1/1)
Code No).	M-07	Electrosurgical Unit					Quantity:			2 sets	
~												
Purpose	:											
	Cut and	coagulate b	y electricicity									
1. Comp	osition											
1-1 Com	position											
	(1)	Main unit				:	1 unit	х	2	=	2 units	
	(2)	Trolley w	ith caster			:	1 unit	х	2	=	2 units	
1-2 Acce	essories											
	(1)	Pedal foo	t switch			:	l set	х	2	=	2 sets	
	(2)	Monopola	ar hand switch with cable (reusa	ble)		:	2 sets	х	2	=	4 sets	
	(3)	Bipolar ca	able (reusable)			:	2 sets	х	2	=	4 sets	
	(4)	Patient pl	ate, silicon (reusable)			:	2 sets	х	2	=	4 sets	
	(5)	Patient pl	ate cable (reusable)			:	2 sets	х	2	=	4 sets	
	(6)	Electrode	set (reusable)			:	6 sets	х	2	=	12 sets	
	(7)	Bipolar fo	orceps (reusable)			:	6 sets	х	2	=	12 sets	
		A	1.1	11								
		Any other	accessory which is required for	r installation and operation								
		should be	included and described on your	r offered specification								
2. Specif	fications											
2-1	Main uni	it										
	(1)	Mode			:	Monopolar cutti	ng/coagulat	tion and bipola				
	(2)	Maximun	output				0.0					
	(=)	Monopola	ar cutting			300W or more						
		Monopole	ar coagulation			200W or more						
		Binolar	a couganation		•	100W or more						
	(3)	Monopole	ar port			2 or more						
	(3)	Type acco	arding to EN 60601-1			CE						
2-2	(T) Reusable	a electrode	Juling to EIV 00001-1			Standard set for	10 kinds or	more				
2-2	Foot swi	tch				Monopolar and	Pipolar	more				
2-3	Power re	auiromont				$\Lambda C 220 V \pm 10\%$	single pho	50Uz				
2-4	Monu La	nguaga				Re 220 v ±10/0	single pha	se, 50112				
3 Spare	Parts	uiguage			•	Komaman of K	1881411					
r	3-1	Monopola	ar hand switch with cable (reusal	ble)		:	2 sets	х	2	=	4 sets	
	3-2	Bipolar ca	able (reusable)	,			2 sets	х	2	=	4 sets	
	3-3	Patient nl	ate, silicon (reusable)				2 sets	x	2	=	4 sets	
	3-4	Patient pl	ate cable (reusable)				2 sets	x	2	=	4 sets	
	3-5	Electrode	set (reusable)				6 sets	x	2	=	12 sets	
	3-6	Bipolar fo	prceps (reusable)				6 sets	x	2	=	12 sets	
4. Consu	imables											
5. Note												
	No											

LOT 9											(1/1)
Code No.		M-08	Operation Light, Ultralight				Quantity:			1 set	
Equipmen	nt No.										
Purpose :	Provides	very high i	lumination at the operating surface								
1. Compo	sition										
1-1	Composi	ition									
	(1)	Main unit			:	1 unit	х	1	=	1 units	
1-2	Accessor	ries									
	(1)	Sterilizab	e handle		:	1 sets	х	1	=	1 sets	
		Any other should be Height of	accessories which is required for installation and operation included and described on the offered specification. the Operation Theater: 270cm								
2. Specific	cations		•								
2-1	Main uni	it									
	(1)	Туре		:	Combination of r ceiling suspensio	nain and sa n type	atellite				
	(2)	Light sou	ce	:	LED						
	(3)	Light inte	nsity at 1 m								
		Main		:	120,000 lux or m	ore (at 1 m	1)				
		Satellite		:	50,000 lux or mo	re (at 1 m)					
	(4)	Color Ter	nperature	:	$4300~\mathrm{K}\pm100~\mathrm{K}$						
	(5)	Life time	light source	:	40,000 hours or 1	nore					
	(6)	Controls		:	On the cupola						
	(7)	Movemen	ts	:	Rotation on 3 hor	rizonal axe	s, Up/Down or	1 axe or	more		
2-2	Power re	quirement		:	AC 220V±10%,	1 phase, 50)Hz				
3. Spare F	arts										
	3-1	Sterilizab	e handle		:	2 sets	х	1	=	2 sets	
4. Consur	nables										
	No										
5. Note											
	No										

101 10)										(1/
Code No	0.	M-12	ECG, 12-channel				Quantity:			1 set	
quipm	ent No.										
urpose	:										
	Record e	lectrocardio	ograph 12 leads.								
1. Comp	position										
1-1	Composi	tion									
	(1)	Main unit			:	1 unit	х	1	=	1 units	
	(2)	Cart			:	1 unit	х	1	=	1 units	
1-2	Accessor	ies									
	(1)	Patient ca	ble		:	1 set	х	1	=	1 sets	
	(2)	Patient ca	ble hanger		:	1 set	х	1	=	1 sets	
	(3)	Power con	rd		:	1 pc.	х	1	=	1 pcs.	
	(4)	Chest elec	ctrode		:	6 pcs.	х	1	=	6 pcs.	
	(5)	Limb elec	etrode		:	4 pcs.	х	1	=	4 pcs.	
	(6)	Thermal h	nead cleaner		:	1 pc.	х	1	=	1 pcs.	
		Any other	accessories which is required for installation and	operation							
		should be	included and described on the offered specificatio	n.							
Speci	fications										
2-1	Main uni	t									
	(1)	No. of cha	annel	:	12 channel						
	(2)	Leads		:	Standard 12 leads						
	(3)	Sensitivity	y	:	5/10/20 mV or mo	re					
	(4)	Time cons	stant	:	3sec or more						
	(5)	Frequency	y response	:	150 Hz or less						
	(6)	Common	mode rejection ratio	:	100dB or more						
	(7)	Maximum	n electrode potential	:	±500mV or more						
	(8)	Sampling	frequency	:	4,000 samples/sec	. or more					
2-2	Display										
	(1)	Device		:	LCD						
	(2)	Resolution	n	:	320 x 240 dots or	more					
	(3)	Represent	tation		3/6/12 channels/di	splay					
2-3	Recorder										
	(1)	Method			Thermal dot array						
	(2)	Paper spe	ed	:	5, 10, 12.5, 25, 50	mm/sec					
	(3)	Paper Size	e	:	210 mm						
2-4	Power re	quirement			AC 220V±10%, si	ngle phase.	, 50Hz				
3. Spare	Parts										
	3-1	Memory of	card		:	1 pc.	х	1	=	1 pcs.	
	3-2	Patient ca	ble		:	1 unit	х	1	=	1 units	
	3-3	Chest elec	ctrode		:	6 pcs.	х	1	=	6 pcs.	
	3-4	Limb elec	etrode		:	4 pcs.	х	1	=	4 pcs.	
											(2
4. Consu	umables										
	4-1	Recording	g paper		:	30 rolls	х	1	=	30 rolls	
	4-2	Thermal h	nead cleaner		:	1 pc.	х	1	=	1 pcs.	
	4-3	ECG crea	m		:	12 tubes	s x	1	=	12 tubes	
5. Note											
	No										

LO	r 11			(1/2
Cod	e No.	M-13 Ultrasound Apparatus (Gener	al)	Quantity: 1 set
Purp	ose :			
	Ultra	sonography for Adult patient		
1. C	ompos	sition		
1-1	Com	position		
	(1)	Main unit with system control softwa	re	: 1 unit x 1 = 1 unit
	(2)	Probe A		\therefore 1 unit x 1 = 1 unit
	(3)	Probe B		\therefore 1 unit x 1 = 1 unit
	(4)	Probe C		\therefore 1 unit x 1 = 1 unit
	(5)	Probe D		\therefore 1 unit x 1 = 1 unit
	(6)	B/W printer		1 unit x 1 = 1 unit
1-2	Acce	essories		
	(1)	Probe hanger and holder		$: 1 \text{ set} \qquad x 1 = 1 \text{ set}$
	(3)	Software for measurement		
		Cardiac measurement		$: 1 \text{ set} \qquad x 1 = 1 \text{ set}$
		(LV, LA, AV, MV, PV or more)		
		Obstetric and gynecology measureme	nt	: 1 set x = 1 set
		Vascular measurement (optional)	c	: I set x I = I set
	(4)	Software for DICOM (storage and tra	nste	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		Any other accessories which is requir should be included and described on t	ed f	for installation and operation offered specification.
2. Sp	pecific	ations		
2-1	Mair	ı unit		
	(1)	Scan mode	:	Linear, Convex
	(2)	Monitor	:	LCD color 17 inch or more
	(3)	Viewing mode	:	B-mode, M-mode, Spectrum Doppler,
				Color Doppler(optional), Realtime 3D (optional) or more
	(4)	Pulse wave Doppler frequency range	:	1 kHz or less - 10kHz or more
	(-	Continuous wave Doppler	:	4 kHz or less - 40kHz or more
	(5)	Color Doppler mode	:	Optional
	(6)	Reference signal	:	Equipped by cardiac unit
	$\langle 0 \rangle$			1DI mode or more
	(8)	Number of active probe connector	:	5 or more
2.2	(9) Droh		·	AC 220 v ±10%, single phase, 30HZ
2-2	(1)	Type		Convex for abdomen adult
1	(1)	B-mode	•	1.0 - 5.0 MHz or wider
	(2)	THI mode	•	Four Four Mills of Wilci
	(3)	Radius of curvature	•	Equipped 80 mmR or less
	(י)		•	

2-3 Probe B

(1) Type(2) B-mode

: Cardiac

: 1.0 - 3.0 MHz or wider

(2/2)

(3) Modes : Flow,PW,CW or more							
(4) Scanning angle	$: 90^{\circ} \text{ or more}$						
2-4 Probe C							
(1) Type	: Transvaginal						
(2) B-mode	: 3.0 - 7.0 MHz or wider						
(3) THI mode	: Equipped						
(4) Scanning angle	: 180° or more						
2-5 Probe D							
(1) Type	: Linear for surface						
(2) B-mode	: 3.0 - 11.0MHz or wider						
(3) THI mode	: Equipped						
(4) Scanning width	: 38 mm or more						
3. Spare Parts							
No							
4. Consumables							
3-1 Echo gel (100g or more)	: 24 tubes x 1 = 24 tubes						
3-2 Printer paper (B/W)	: 12 rolls x 1 = 12 rolls						
5. Note							
No							

LOT 12										(1/1)
Code No.		M-014	Laparoscope			Quantity:			1 set	
Purpose :										
	Device for	or performic	c laparoscopy							
1 Compo	sition									
1-1	Composi	tion								
	(1)	Laparosco	ope 30 degrees, 10 mm	:	1 unit	х	1	=	1 unit	
		Any other should be	r accessories which is required for installation and operation included and described on the offered specification.							
2. Specific	cations									
2-1	Compatil	ble with Vid	deocamera GIMMI SNH 890 S.2000.81 II and light cable							
3. Spare P	arts									
		No								
4. Consun	nables									
		No								
5. Note										
		No								

			Si Een ie								
LOT 13											(1/1)
Code No.		M-015	Urology Endoscope				Quantity:			1 set	
Purpose :											
	Device f	or performin	g TUR intervention								
1. Compo	sition										
1-1	Compos	ition									
	(1)	Urologic I	Endoscope 12 degrees, 4mm		:	1 unit	х	1	=	1 unit	
	(2)	Urologic I	Endoscope 30 degrees, 4mm		:	1 unit	х	1	=	1 unit	
		Any other	accessories which is required for installation and operation								
		should be	included and described on the offered specification.								
2. Specifi	cations										
2-1	Compati	ible with KA	RL STORZ Telecam SL II 20213020 and KARL STORZ Xer	non Nova-175 20131520 Lig	ht so	urce and lig	ght cable				
3. Spare I	Parts										
		No									
Consur	nables										
		No									
5. Note											
		No									

LOT 14										(1/1)
Code No.		M-016	Fibrogastroduodenoscope			Quantity:			1 set	(1/1)
Purpose :			•							
	Device f	or performir	ng esogastroduodenoscopy							
1. Compo	sition									
1-1	Compos	ition								
	(1)	Fibrogasti	roduodenoscope	:	1 unit	х	1	=	1 unit	
		Any other should be	r accessories which is required for installation and operation included and described on the offered specification.							
2. Specifi	cations									
2-1	Compati	bile with OI	LYMPUS CLK-4 light source							
3. Spare F	Parts									
		No								
4. Consur	nables									
	4-1	Loop for a	cauterization (multiple use)		1 piece	х	1	=	1 piece	
	4-2	Biopsy fo	rceps (multiple use)		1 piece	х	1	=	1 piece	
	4-3	Injection 1	needle (multiple use)		1 piece	х	1	=	1 piece	
5. Note										
		No								

			SI LCII ICATION .	IILL I						
LOT 15							· · · · ·			(1/1)
Code No	э.	M-017	Hight Pressure Steam Sterilyser				Quantity:			1 set
Equipme	ent No.									
Purpose	:									
	A machi	ne that steri	lizes medical equipment/devices to cover the punctual needs of the surgical	blocks o	of hospitals.					
	Satured s	steam under	pressure is the sterilizing agent. To be installed in the preoperatory room.							
	The supp	olier will pro	ovide all other additional components if required to complete the installation	in the f	acility indicated by th	ne end-user.				
1. Comp	osition									
1-1	Composi	ition								
	(1)	Main unit								
	(4)	Built-In D	Digital or Thermal Printer	:		1 units	х	1	=	1 units
	(5)	Built-in V	Vater Treatment System	:		1 units	х	1	=	1 units
1-2	Accessor	ries								
	(1)	Loading I	Baskets for Sterile Material/Instruments (according to the number of trays)	:						
Speci	fications									
2-1	Main un	it								
	(1)	Door type		:	1 door					
	(5)	Chamber	volume	:	80 to 100 l					
	(8)	Chamber	material	:	Stainless steel					
	(9)	Sterilizing	g temperature	:	121 °C and 134 °C	2				
	(10)	Safety dev	vices	:	Equipped					
	(11)	Unloaded	Weight (kg)	:	up to 200 kg					
	(12)	Power rec	luirment	:	AC 230V or 400V	±10%, 3 pha	se, 50Hz			
	(13)	Adjustabl	e feet or wheels							
Spare	Parts									
	3-1	Door gasl	tet	:		1 units	х	1	=	1 units
A Cor-	mahlaa									
4. Const		Drintor no	non for built in mintor			6 mite		1	_	6 mite
	4-1	Finter pa		:		o units	x	1	=	o units
	4-2	Filter eler	nent of filter set	:		1 units	X	1	=	1 units
5 Note										
5. NOLE										



LO	OT 16 (1								
Cod	le No. M-018 X-ray General	Quantity: 1 sets							
Pur	pose :	·							
	To make radiography								
1. C	Composition								
1-1	Composition								
	(Common use)								
	(1) X-ray generator	\therefore 1 unit x 1 = 1 units							
	(2) Floor-Mounted Tube Support	\therefore 1 unit x 1 = 1 units							
	(3) X Ray tube	\therefore 1 unit x 1 = 1 units							
	(4) Bucky Table	\therefore 1 unit x 1 = 1 units							
	(5) Bucky Stand	\therefore 1 unit x 1 = 1 units							
	(6) Dry Imager	\therefore 1 unit x 1 = 1 units							
	(7) Digital radiography (FPD 14x17 inch)	\therefore 1 unit x 1 = 1 units							
	(8) PACS	1 unit 1 unit							
1-2	Accessories								
	(1) X-ray protective apron	\therefore 1 set x 1 = 1 sets							
	(2) Interphone with HD video camera and monitor	\therefore 1 set $x = 1$ set							
2. S 2-1	specifications								
2-1	(1) Type	Inverter							
	$(1) \text{Lype} \\ (2) \text{Canacity} \\ (3) $	· 35 kW or less							
	(3) X-ray tube connectable number	: 1							
	4 Max kV	150 kV or more							
	5 Min. kV	40 kV or less							
	6 Max mA	630 or more							
	7 Min mA	10 mA or less							
	8 AEC	Yes							
	9 Exposure time	0,001 sec to 10 sec							
	10 Number of phototimer field	4 field or more							
	11 DAP Meter	Yes							
	12 Anatomical programs	400 or more							
2-2	Floor-Mounted Tube Support								
	(1) Vertical travel	: 1300 mm or more							
	2 Longitudinal travel	: 1800 mm or more							
	3 Transverse travel	: 200 mm or more							
	4 X Ray Tube rotation on horizontal X axis	CW: 140 degree, CCW: 180 degree							
	5 X Ray Tube column rotationon vertyical axis	180 degree (stretcher position)							
l	5 Illumination angle meter	: Yes							

				(2/3)
2-3	X-Ra	ay tube		
	1	Focal spot		1/2 mm or more
	2	Max anode heat capacity		140 kHU or more
	3	Max X-Ray tube voltage		125 kV or more
	4	Collimator		Manual
2-4	Buck	ky Table		
	1	Floating table top		Yes (4 way floating table)
	2	Table top dimensions		800x2300 mm or more
	3	Table top height		700 mm or less
	4	Disctance between tabletop and film		75 mm or less
	5	Longitudinal movment		1100 mm or more
	6	Lateral movment		250 mm or more
	7	Maximum load capacity		220 kg or more
	8	Removable grid		Yes
2-5	Buck	ky Stand		
	1	Vertical movment		1300 mm or more
	2	Removable grid		Yes
2-6	Dry	Imager		Direct thermal
	(1)	Printing speed	:	80 sheets/hr. or more
	(2)	Spatial resolution	:	320 DPI
	(3)	Exposure resolution	:	14 bit or more
	(4)	Interface	:	DICOM
	5	Media outputs		One receive tray or more
	6	Media inputs		Two supply cassettes or more
	7	Media Sizes		8x10",11x14",14x17" or more
2-7		Digital radiography		
	1	Flat panel detector size		14x17 or more
	2	Scintillator	:	CSL
	3	Pixel size	:	150 μm or less
	4	Bit depth	:	14 bits or more
	5	Image prevue	:	2 sec or less
	6	Cycle time (wirless connection)		20 sec or less
	7	Weight	:	3.8 kg or less
	8	Number of exposable images	:	200 full images or more/3 h full performance or more
	9	DICOM	:	MPPS.MWM.Storage.Print
	10	Data interface/Detector		WIGI/Ethernet
2-8		PACS		
	1	HDD		1 TB or more. RAID 10
	2	Processor		Intel Quad-Core Xeon X3450 CPU(2.66GHz) or similar
	3	RAM		4 GB or more
	4	Software		Cine Tools Measurements Annotations DICOM send CD administration and remote diagnos
	5	Monitor		Medical Grade 2 MP or more 20" or more
	6	WFB or I AN Access Licenses		3 or more
	0	WED OF LATVACCESS Electises		5 of more
2-11	Pow	er requirement		$\Delta C 240V \pm 10\%$ two phase 50Hz and
2-11	1000	er requirement	•	AC 220V \pm 10%, two phase, 50Hz and AC 220V \pm 10% single phase, 50Hz
2 12	V ro	v protoctivo oprone		AC 220 V ±10%, single plase, 30Hz
2-12	(1)	L and acquivalent		0.25 mmDb
	(1)		•	
	(2)	Size	•	L
1.20	<u>)</u>	Intermhone with IID wides semans and mos	iton	
1-2(∠) (1)	HD Monitor 14 inch or more	intoi	
1	(1)	Compress IID resolution or hill		
1	(2)	Laternhone Didirectional could	4 ad 1 44	n controlled
2 0	(3)	Interprise Bidirectional, wall moun	iea, butto	ni controned
3. Sj	pare P	rarts		
4 6	No	11		
4. C	onsun	nadies		
1	4-1	Recording film (8 x 10 inch)		200 sheets
	4-2	Recording film (11 x 14 inch)		: 200 sheets

4-3 Recording film (14 x 17 inch)

5. Note