

**Technical Specifications of required equipment for
Slobozia, Grigoriopol, Rybnitsa Maternity Unit and Pediatric
ICU Tiraspol**

Item		Quantity
ITEM 1. TABLE FOR WARMING AND NEWBORN RESUSCITATION		2
1.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
1.2.	Basic Structure	Height adjustable table Resuscitation Radiant Warmer consisting of: Heat source Bassinet and mattress Mounting column with fixed height System for resuscitation Suction devices for cleaning of the neonatal airways Storage compartments
1.3.	Accessories	Front drawers for storage X-Ray tray Rails for accessories Patient skin probe a) Heat source controller and functions: Mean irradiance at mattress level: minimum 10 mW/cm ² The central Control panel will display all instructions in English or Russian language Control panel located centrally at eye level Microprocessor controller with control modes: <ul style="list-style-type: none"> – Manual mode in minimum 5-10 % increments from 0 to 100% – Automatic (pre-warm) mode – Servo (baby) mode Servo control temperature range between approximate: 35 – 37 °C Display temperature range between 30 and 42 °C Examination lamp of minimum 50 W and minimum 1,000 Lux Apgar timer integrated Patient skin probe, reusable – 2 pieces b) Bassinet and mattress: Mattress area minimum: 3,000 cm ² Mechanical or Hydraulic tilt mechanism for the bassinet at least: +/- 10° minimum Mattress thickness: <ul style="list-style-type: none"> – minimum 2 cm – Ray cassette tray to fit under mattress-1 piece Four foldable bassinet walls Ventilator tube supports c) Mounting column: Fixed height column on mobile castors

Item		Quantity
ITEM 1. TABLE FOR WARMING AND NEWBORN RESUSCITATION		2
1.3.	Accessories	Built in rails for accessories – 2 pieces d) Resuscitation module Wall supply pressure 3 - 6 bar Cylinder for oxygen and cylinder for compressed air pressure 2,900 psi max (19,994 kPa) Adjustable positive end expiratory Pressure (PEEP) 0-25 cm H2O Gas bleed 0-15 L/min Precision blender 21-100% O2 +/-3% Mask for resuscitation size 0,1 and 2, two pics. for each size, Circuits T-Pieces e) Storage compartments: Front storage drawers – 2 pieces f) Alarms: Audio alarms Controller heating alarms Check patient 15 minutes in Manual Mode Baby temperature +/- 1° C from Set Point High temperature Skin Temp. 39.0° C +/- 0.2° C Probe Short or open circuit / No probe System fail Indicates System Fail Power fail AC Power Interruption Alarm silence/reset intervals Check patient Resets clock for 15 minutes manual mode Baby temperature 10 minutes High temperature 2 minutes Procedural silence Presilences baby temp alarm for 5 minutes Alerts Manual mode System alerts every 30 seconds > 10 minutes, for 15 minutes Apgar timer Alerts at 1, 5 and 10 minutes g) Physical properties: Total height: maximum 200 cm. Mattress height at approximate 100 cm. Weight: maximum 100 Kg. (excluding accessories) Power requirements: 220/240 V, 50-60 Hz
1.4.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
1.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation User manual in English or translated into Russian language

Item		Quantity
ITEM 2. PEDIATRIC/INFANT VENTILATOR		1
2.1.	Standard requirements	<p>1. Compliant to EU Medical devices Directives CE Mark</p> <p>2. Compliant to IEC 60601 and amendments for Medical electrical equipment</p> <p>ISO 9001 certified companies</p>
2.2.	General Characteristic	<p>This specification establishes the requirements for comprehensive ventilators with the latest technology to ventilate neonates/infants and pediatric patients in Pediatric Intensive Care Units.</p> <p>Be able to ventilate patients with a weight range of approximate 550g to 50Kg in all the ventilation modes.</p> <p>General requirements identify requested functions</p> <p>Electro-pneumatically controlled</p> <p>Built-in graphic display with backlight</p> <p>Microprocessor controlled</p> <p>Electronic blender built-in</p> <p>Dual flow system for independent setting of in - and expiratory flow</p> <p>Proximal flow sensor, reusable, autoclavable</p> <p>Inlet pressures from approximately 1.5 to 6 bar</p> <p>Capable for transports with min. 60 minutes independent from medical air hospital system</p> <p>The ventilator shall provide the following ventilation modes, both invasively and non-invasively for Infant and Pediatric ventilation:</p> <ul style="list-style-type: none"> – Assist /Control in Volume and Pressure mode; – Time Cycled mode; – Synchronized Intermittent Mandatory Ventilation - in volume and pressure mode; <p>Continuous Positive Airway Pressure with Pressure supported ventilation:</p> <ul style="list-style-type: none"> – Spontaneous; – Manual Breath; – Inspiration Hold; – Expiration Hold; – Back Up / Apnea Ventilation in all modes. <p>The ventilator shall provide the following breath types for Pediatric and Infant modes:</p> <ul style="list-style-type: none"> – Pressure Limited Volume Control; – Pressure Control with Volume target; – Pressure Ventilation with alternating baselines (CPAP/PEEP); – Timed Oxygenation (100%). <p>The offered unit shall have automatic switch over to a built in battery unit with a capacity to ensure full functionality of the unit for approximately 2 hours.</p> <p>The offered unit shall have automatic switch over unit that will switch between the piped air and oxygen supply should one of the supplies fail.</p> <p>The offered unit shall have a circuit compliance compensation approximately 0.0 to 7.5 ml/cmH₂O and must be automatically measured.</p>

Item		Quantity
ITEM 2. PEDIATRIC/INFANT VENTILATOR		1
2.2. General Characteristic	Monitoring and displayed parameters. LCD or LED display	
	The central Control panel will display all instructions in English or Russian language	
	Parameters <i>Approximate ranges are indicated, slight variations will be accepted</i>	
	– Respiratory rate per minute: Pediatric/Infant: 1 to 120 b/min.	
	– Inspiratory Flow: Pediatric/Infant: 0,4 to 100 L/min.	
	– Inspiratory Time: Pediatric/Infant: 0.1 to 3 seconds;	
	– Time expiratory 0,2-20 s	
	– Pressure Support: Pediatric/Infant: 0 to 50 cmH2O	
	– Pressure Limit: Pediatric/Infant: 0 to 70 cmH2O	
	– PEEP/CPAP: Pediatric/Infant: 0 to 30 cmH2O	
	– I:E 1:4 to 4:1	
	– Flow Trigger: Pediatric/Infant: 0,1 to 20 L/min.	
	– Oxygen Concentration from 21% to 100%.	
	– Leak Compensation: Pediatric/Infant: Up to 8 L/min.	
	– Breathing: Selectable up to 1 to 150bpm.	
	Alarms	
	Both audible and visual alarms shall be available on the following ventilator & patient parameters:	
	– Patient disconnect	
	– Oxygen concentration variation	
	– Over and under patient pressure	
	– Over and under patient volume	
	– High continues pressure	
	– Inverse I:E ratio	
	– Air/Oxygen % deviation;	
	– Low battery	
	– Power failure	
	– Air and Oxygen supply failure	
	– Air and Oxygen low pressure	
	Graphics Display	
	All parameters and functions of the offered unit shall be available on a graphics screen.	
Preferable 5 selectable waveforms shall be displayed at any time on the graphic display screen.		
The graphics display system shall have freeze capabilities.		
The offered unit shall have the capabilities to display trending of at least 24 hours on parameters of pressure-, flow- and tidal volumes.		
The offered unit shall offer a graphical display unit that is able to display the following parameters and measurements:		
– Inspired tidal volume in ml;		
– Inspired tidal volume in ml;		
– Spontaneous tidal volume in ml;		

Item		Quantity
ITEM 2. PEDIATRIC/INFANT VENTILATOR		1
		<ul style="list-style-type: none"> – Total breath rate in bpm; – Spontaneous breath rate in bpm; – Minute volume in liters; – Spontaneous minute volume in liters; – Peak airway pressure in cmH2O; – Mean airways pressure in cmH2O; – I:E ratio; – Set I:E ratio; – Inspired time in seconds; – Static airways compliance in ml/cmH2O; – Dynamic airways compliance in ml/cmH2O; – Dynamic airways compliance per kg in ml/cmH2O; – Peak inspired flow rate in l/m; – Peak expired flow rate in l/m; – Inspired O2 in %; – Tube leak in %.
		Humidifier
		Microprocessor controlled
		<ul style="list-style-type: none"> – Heater wire for in-and expiratory limb possibility – Reusable and autoclavable humidification chamber – Dual Servo controlled principle for temperature control
		Miscellaneous
		Operating Environment:
		<ul style="list-style-type: none"> – Temperature approximately 10 – 40° C – Humidity: approximately 10-90 % - non condensing
		Connectors for medical gases:
		<ul style="list-style-type: none"> – All connectors must compatible to EN ISO 7396, DIN 13260 – 2
		Trolley:
		<ul style="list-style-type: none"> – minimum 4 wheels, 2 with brakes – Bracket for humidifier
		The following items must be included in the cost of the unit:
		<i>Durables</i>
		Reusable ventilator circuits pediatric, neonatal with heater wire and water traps (in line) and nebulizer circuit -5 pcs
		Reusable and autoclavable humidification chamber -5 pcs
		Oxygen sensor 1 pcs/
		Flow Sensor (reusable) 1 pcs.
		<i>Consumables</i>
		Single use circuits pediatric, neonatal with humidification chamber included – 50 pieces
		External oxygen & compressed air tubing
		Test lung
		Shelf – mount kit
		Spare diaphragm for expiratory valve
2.3	Accessories and Consumables	
2.4.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours

Item		Quantity
ITEM 2. PEDIATRIC/INFANT VENTILATOR		1
2.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 3. ANESTHESIA MACHINE		1
3.1.	Standard requirements	<p>1. Compliant to EU Medical devices Directives CE Mark</p> <p>2. Compliant to IEC 60601 and amendments for Medical electrical equipment</p> <p>ISO 9001 certified companies</p>
3.2.	Basic Structure	Equipment for mechanical ventilation and anesthesia for neonatal, pediatric and adults
		Compact mobile inhalation anesthesia machine with integrated ventilator and monitoring for pressure, volume and oxygen; System suitable for low flow and minimal flow anesthesia with re-breathing systems optimized for neonatal to adult patients' Anesthetic ventilator capability to switch from spontaneous breathing or manual to a mechanical one without the need of reconnection.
		General requirements identify requested functions
		Basic unit including integrated gas supply consisting of central supply connections for O ₂ , Air and N ₂ O and integrated display of central supply pressures
		Integrated cabinet for covered and protected storage of reserve minimum 5 liter gas cylinders for O ₂ and N ₂ O
		Automatic switch-over to reserve gas cylinders in case of failure of central gas supply
		Compact breathing system integrated in basic unit
		Vaporizing system for two vaporizers with interlock system
		Monitoring and measurement of ventilation parameters and gas parameters integrated in the basic unit
		Unit for bronchus aspirator
		Unit for monitoring vital parameters (heart rate, ECG, blood pressure, saturation of oxygen and temperature)
		Trolley with antistatic casters - two locking, drawers unit
		Unit shall be equipped with all necessary accessories – min the following: pressure reducers, connecting hoses, reusable breathing hoses, vaporizer, sensors, filters, bronchus aspirator etc, ready to work
		Integrated anesthetic gas scavenging
		Auto self check by start routine
		Uninterruptible power supply 220VAC, 50Hz integrated in the basic unit
Battery backup for min 30 minutes		
Technical requirements for breathing system		
Compact breathing system integrated in the basic unit with		

Item		Quantity	
ITEM 3. ANESTHESIA MACHINE		1	
3.2.	Basic Structure	integrated infinitely adjustable positive pressure valve	
		Integrated quick vent valve for rapid manual pressure relief of breathing system	
		Integrated pneumatic and electric interface for hoses and cables connection of compact breathing system and basic unit as regards: fresh gas supply, flow and pressure measurement; sample gas return flow and possibility of gas scavenging	
		Possibility for connection for neonates, infant ,pediatric and adult ventilation	
		Standby holder for breathing bag and Y – piece	
		Accessories needed for neonates, infant ,pediatric and adult ventilation	
		Breathing system suitable for: spontaneous breathing	
		Manual ventilation	
		Volume controlled ventilation	
		Pressure controlled ventilation	
		Synchronized volume controlled ventilation	
		Pressure support of synchronized pressure and volume controlled ventilation	
		Pressure support mode with apnea ventilation	
		Requirements for vaporizers connection	
		Connections for vaporizers integrated in the basic unit double plug in system	
		Closes automatically when vaporizer is removed	
		Possibility to change between two volatile anesthetic agents without being necessary to replace the vaporizer	
		Safety device interlock to ensure only one vaporizer operation	
		Basic unit equipped with isoflurane and sevoflurane vaporizers	
		Requirements for fresh gas delivery	
		Integrated in the basic unit with possibility for:	
		Delivery of fresh gas for gas mixtures of O ₂ and N ₂ O or O ₂ and Air is controlled	
		Fresh gas adjustments with mechanical-pneumatical or electronic settings	
		Electronic carrier gas switch-over between air and N ₂ O	
		Regulator to ensure an oxygen concentration in the nitrous oxide-oxygen mix	
		Capability of delivery 21 vol % O ₂ when using medical air as gas carrier	
		Electronic regulator to ensure at least 25 vol % or 200 ml/min of oxygen in the nitrous oxide – oxygen mix when delivery gas flow below min 1 L/min	
		N ₂ O is automatically cut in case of O ₂ shortage	
		In case of O ₂ shortage, switch over to 100% air is done automatically at constant fresh gas flow - Optional	
		Capability of self resetting O ₂ flush with a capacity of max 35L/min for operation from central supply station with a nominal supply pressure of max 5 bar	
		O ₂ safety flow-adjustable min range 0 to 10 L/min running through vaporizer	

Item		Quantity	
ITEM 3. ANESTHESIA MACHINE		1	
3.2.	Basic Structure	The central Control panel will display all instructions in English or Russian language	
		Basic settings of fresh gas quantity and composition can be configured	
		Possibility for patient specific presetting of fresh gas quantity and fresh gas composition in standby mode	
		Audible and visual alarms in case of air and N ₂ O shortage	
		Audible alarms cannot be silenced in case of O ₂ shortage	
		No possibility to increase pressure in vaporizer when O ₂ flush is activated	
		Requirements for the ventilator	
		No gas needed to drive the ventilator	
		Suitable for neonates to adults without changing any ventilator parts	
		The system should preferably be able to measure volatile agent and fresh gas consumption per case	
		Suitable for time cycled and volume controlled ventilation	
		Suitable for pressure controlled ventilation	
		Possibility of manual ventilation even if external and internal power supply failure	
		Capability to check system compliance in standby after replacing patient hoses	
		Possibility to configure all basic settings for anesthetic ventilation for each specific ventilation mode	
		Possibility of patient specific pre settings for ventilation parameters in standby mode and prior of changing ventilation mode	
		Adjustment ranges of ventilation parameters in volume mode; approximate ranges slight variations will be accepted.	
		– Tidal volume: 20ml – 1500ml	
		– PEEP: 0 – 20 mmHg	
		– Inspiratory pause: 0 – 60 s	
		– Ventilation frequency: 5- 60 bpm	
		– I : E ratio 1:3 to 3:1	
		– T insp 0.5 – 6s	
		– Pressure limitation P max: 5 – 70 cmH ₂ O	
		Preferably to have decelerating flow control	
		Adjustable flow trigger for synchronized volume and pressure controlled <u>v</u> entilation	
		Flow trigger: min range 1,0 – 15 l/min	
		Ventilation parameters and alarm limits retained and presetting determined on the basis of measured variables when switching between ventilation modes	
		Presetting of ventilation parameters and alarm limits are weight based	
		Requirements for ventilation and gas monitoring	
		Ventilation and gas monitoring integrated in anesthesia unit	
Preferable operating concept screen based for all operational functions			
The central Control panel will display all instructions in English or			

Item		Quantity
ITEM 3. ANESTHESIA MACHINE		1
3.2.	Basic Structure	Russian language
		Capability of fully automatic compliance and leak test
		Display of real time curves
		Display of airway pressure
		Display of volatile anesthetic agent concentration
		Display of Inspiratory and expiratory flow
		Display of minute volume
		Capability to register and show on display or printed list, time and event triggered list; please specify the available events triggered.
		Measuring parameters of the ventilation and gas:
		– Pressure measurement
		– Tidal Volume
		– Minute volume
		– Measuring of gas concentrations
		– O ₂ measurement
		– CO ₂ concentration
		– Anesthetic gas measurement
		– N ₂ O measurement
		– Measurement of volatile anesthetic agents
		– Automatic recognition of volatile anesthetic agent and mixtures of different volatile anesthetic agents
		– Measurement (quantity) of two volatile anesthetic agents in gas mixture
		Alarms and limit values for ventilation parameters and gas monitoring
		Alphanumerical plaintext display of measuring parameters and set alarm limit values
		Audible and visual alarm priority within the alarm levels
		List of all active alarms in order of priority
		Configurable basic setting of alarm limits for each specific mode of ventilation
		Requirements for Bronchus aspirator
		Bronchus aspirator with integrated ejector, bracket for secretion jars can be removed from basic unit
		Secretion jar package includes all necessary accessories
		Integrated manometer for vacuum display
		Requirements for monitoring the vital parameters
Device used for continuous monitoring of vital parameters for neonates, infants, pediatric and adult patients. The device will monitor heart rate, ECG with minimum 3 leads, saturation in oxygen of hemoglobin, noninvasive blood pressure and temperature. Possibility for visualizing the parameters on screen.		
Alarms for each parameters mentioned above		
Connectors for medical gases		
All connectors must be type compatible to EN ISO 7396, DIN 13260 – 2		
Requirements for uninterruptible power supply		

Item		Quantity
ITEM 3. ANESTHESIA MACHINE		1
		Integrated in the basic unit
		Fully automatic switching to UPS in case of mains failure
		Autonomy for approximately 60 min
3.3	Accessories and Consumables	Unit shall be equipped with all necessary accessories – min the following: pressure reducers, connecting hoses, reusable breathing hoses , vaporizer, sensors, filters, bronchus aspirator etc, ready to work for
		– 30 neonates
		– 75 infant
		– 400 children
		– 100 children over 10 years
		<i>Will be specified all items included in offer</i>
		Device used for continuous monitoring of vital parameters for the same number of patient neonates, infants, pediatric and adult patients.
		The device will monitor heart rate, ECG with minimum 3 leads, saturation in oxygen of hemoglobin, noninvasive blood pressure and temperature.
3.4	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
3.5	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 4. COMPRESSOR FOR MEDICAL AIR		4
4.1	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
4.2	Characteristics	Compatible with the resuscitation module from resuscitation table ventilator and CPAP
		Stand-alone medical air compressor_
		Air Flow >40 L/min
		Noise <60 dBA
		adjustable pressure 2-4 bar
		Snap fit with the resuscitation module from resuscitation table to provide medical air
		Air quality should comply with European Pharmacopoeia compressed air purity class or ISO 8573
		Replacement of internal filters should be performed without removing the compressor

Item		Quantity
ITEM 4. COMPRESSOR FOR MEDICAL AIR		4
		Provide at least 5 sets of air filters
		Power Supply: 220 VAC, 50 Hz
4.3.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 48 hours
4.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 5. INTENSIVE CARE MONITOR		4
5.1.	Standard requirements	CE Mark
		ISO 9001: 2000 certified companies
		Color Screen – LCD or LED monitor
		Minimum screen resolution: 800 x 600 pixels
		Screen dimensions: Color screen with at least 300 mm diagonal
		Speed of recording: 6.25, 12.5 or 25 mm/second
		Visible in the same time on the screen: <ul style="list-style-type: none"> – One lead ECG wave form and heart rate value, respiration wave form and respiratory rate; – SpO₂ waveform and value; – non-invasive blood pressure values (Systolic, diastolic and mean) and temperature value
		Central Control panel will display all instructions in English or Russian language
		Measures
		– heart rate – beats per minute;
		– respirations – breaths per minute
		– SpO ₂ – percent;
		– blood pressure – mmHg;
		– temperature - °C
		Structure
5.2.	Characteristics	Monitor
		Battery
		Patient cables in various lengths e.g. 3 & 8 foots or similar range
		Cable for ECG + electrodes
		Cable for blood pressure + cuffs
		Cable for temperature + sensor
		Cable for pulse-oximeter + sensors
		Control buttons
		On/off
		Alarms – standard
		Stand-by
		Alarms
		System failure

Item		Quantity	
ITEM 5. INTENSIVE CARE MONITOR		4	
5.2.	Characteristics	Battery low	
		Apnea	
		Bradycardia	
		Tachycardia	
		Low respiratory rate	
		High respiratory rate	
		Saturation low	
		Saturation high	
		Blood pressure low (systolic, diastolic, mean)	
		Blood pressure high (systolic, diastolic, mean)	
		Temperature low	
		Temperature high	
		All alarms mentioned above are adjustable by the clinician at the bedside	
		All alarms are audio and visual alarms	
		The alarm tones can be regulated (high to low tonality to alarm off at least)	
		Heart rate and EGK	
		One derivation visible all the time on the screen	
		There could be two channels visible optional	
		Limits: low limit at least 20 beats per minute, high limit at least 300 beats per minute	
		Derivations: I, II, III, aVL, aVR, aVF. Optional: V1, V2, V3, V4, V5, V6	
		Possibility to adjust the amplitude of the signal	
		Possibility to choose the lead to be displayed	
		Cable with 3 wires: I, II, III, aVL, aVR, aVF	
		Optional Cable with 10 wires: I, II, III, aVL, aVR, aVF. Optional: V1, V2, V3, V4, V5, V6	
		Respiratory rate	
		Limits: low limit at least 0 breaths per minute, high limit at least 150 breaths per minute	
		Oxygen saturation of hemoglobin	
		O ₂ saturation low limit at least 30%, high limit at least 100 %	
		Pulse rate: low limit at least 30 bpm (beats per minute) to high limit at least 250 bpm	
		Adjustable averaging time	
		Signal quality meter on screen	
		Blood pressure	
		Oscilometry measurement	
		Measures and displays systolic and diastolic blood pressures	
		Automatically adjustable intervals of approximately 1 min – 8hours	
		Discriminates between pressure signals and patient movement	
Display current and previous pressure values (systolic, diastolic)			
Automatically zeroes prior to each reading			
Blood pressure cable and cuffs for all age (mentioned above)			
Temperature			
Measurement: low limit at least 28°C, high limit at least 42°C			
Cable for temperature monitoring to be connected with probe and temperature probe or probe incorporated in the cable assembly			
Mandatory rectal and skin probe			

Item		Quantity
ITEM 5. INTENSIVE CARE MONITOR		4
		Other condition
		Power requirements: 220 VAC, 50 Hz
		Autonomy with battery at least 2 hours
		Automatically display of battery status fuel gage while operating on battery power
		Automatic internal recharge when the monitor is plugged into an AC power supply
		Low battery audio and visual alarm
		Capable of recording all numeric and waveform information displayed on the screen for min 24 hours
5.3.	Accessories	Extra battery – 1 piece
		ECG cables with 3 leads – 2 pieces
		Cuff set reusable, all dimensions newborn/pediatric and adult– 1 set
		SpO ₂ (multisensor) sensor pediatric/adult with cable with approximately 5 feet – 2 pcs
		SpO ₂ sensor newborn with cable with approximately 8 feet (consumables for 500 tests)
		ECG electrodes newborn/infant – 200 pcs
		ECG electrodes/pediatric/ adult – 500 pcs
		Blood pressure cable 3 ft – 2 pcs
		Temperature cable 3ft – 2 pcs
		Temperature probe covers – 500 pcs
		Blood pressure cuffs Sizes: 1,2, 3, 4, 5 - 6 pcs each
5.4.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
5.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation and commissioning
		User manual in English or translated into Russian language

Item		Quantity
ITEM 6. PORTABLE PULSE OXYMETER		6
6.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
6.2.	Basic Structure	Monitor for SpO ₂ and pulse rate
		Portable pulse-oxymeter
		Universal connection for sensors
6.3.	Technical Characteristics	a) Monitor:
		Removable handheld display for SpO ₂ and pulse rate ensures continuous monitoring
		Oximetry technology clinically proven to work under motion and poor perfusion conditions

Item		Quantity
ITEM 6. PORTABLE PULSE OXYMETER		6
		Patients perfusion level display Sensor signal quality indicator to ensure best sensor position placement Full patient alarms including high and low saturation and pulse rate Downloadable min.24 hour memory at 2 seconds resolution with the ability to review trend data on screen Fast time to initial reading after sensor placement Probe off detection system to alert user of probe displacement High sensitivity mode for improved performance on poorly perfused patients LCD waveform display User selectable averaging time SpO2 range: 30 ÷ 100% Pulse rate: approximately 0 ÷ 250 bpm Perfusion (optional): 0.02% ÷ 10% Saturation accuracy in motion for infant: ± 3 digits 8 hour battery life for the portable display Configurable display, including big numbers option On screen alarm values Alimentation with power cord for 220 V b) Sensors: Sensors with recessed photo detector to reduce ambient light and electromagnetic interference Extended adhesive sensor life by use of rejuvenatable adhesive Low weight adhesive sensors Single patient use with proven clinical lifetime of minimum 8 days Adhesive sensors manufactured from durable, moisture resistant material
6.4.	Accessories and Consumables	Interconnection cable 1 pcs 1 SpO2 sensor reusable for adults (finger) 1 SpO2 sensor reusable for children 100 single patient use SpO2 sensors for neonates 30 single patient use SpO2 sensors for neonates lower than 2 Kg
6.5.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
6.6.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation and commissioning User manual in English or translated into Russian language

Item		Quantity
ITEM 7. SUCTION UNIT		11
7.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies

Item		Quantity
ITEM 7. SUCTION UNIT		11
7.2.	Basic Structure	Portable suction unit
		Suitable for adults and neonates use
		Vacuum range: between around -20 and -300 mmHg, adjustable from a button
		Vacuum indicator
		Fast aspiration: at around 10-30 lpm flow
		Sealed water resistant unit
		Automatic float shut-off to prevent overflow into the unit
		Preferable Integrate bacterial filter
		Control panel tilted for easy viewing of the controls
		Main body made of durable and resistant material
		LED indication for bad battery
		Indication for battery charge status
		Remote internal AC charger for battery
		Charging circuit capable of running on low battery
		Power supply: 220VAC, 50Hz
		Rechargeable battery:
Battery: rechargeable		
Long operating time at full vacuum (uninterrupted min 40-60 min)		
Low charge time: max 6-8 hours		
7.3.	Accessories and consumables	Reusable collecting container: min 1000 ml. 1 pcs
		Bacterial filter – preferable reusable. Please specify type of filter. (For single use filters provide 50 pcs)
		2 auto-clavable silicon suction tubes
7.4.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment
		Battery warranty : at least 6 months
		Maximum response time : 72 hours
7.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation and commissioning
		User manual in English or translated into Russian language

Item		Quantity
ITEM 8. BASIC INCUBATOR		3
8.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
8.2.	Basic Structure	Incubator hood
		Temperature controller
		Standard humidity module
		Mobile stand
		a) Incubator hood and mattress:
		Double wall and other parts of incubator easily removable for

Item		Quantity
ITEM 8. BASIC INCUBATOR		3
8.3.	<i>Characteristics</i>	cleaning
		At least two opposite doors for quick access
		Small range temperature drop with door down
		Front door access
		One iris port on each lateral side, two irises on front and back or doors for access
		Hood can be raised separately from front door
		Mattress with minimum surface of 2,000 cm ²
		Tilting of the mattress
		Tubing access – minimum 4
		b) Temperature controller:
	Microprocessor controlled	
	Automatic test on start-up	
	Heat up time to 39°C to be 30 minute or less	
	Removable control unit for easy service	
	Air flow pattern directed from front to rear of incubator across entire width	
	Centralized display for patient, air temperatures control with alarms	
	display for function settings, parameters and trending, easy to operate and clean	
	Accurate air temperature control using two air probes	
	Air temperature range between: 20 and 39°C	
	8.3.	<i>Characteristics</i>
Baby skin temperature range between: 35 and 37°C		
Keypad lock function for protection		
Override function at air temperature over 38°C		
c) Standard humidity module:		
Internal reservoir included		
Front mounted for easy accessibility		
All humidifier parts can be completely removed for filling and cleaning		
Humidity range up to 0-80% RH		
d) Mobile stand:		
Stand on four anti-static wheels, from which two locking		
Height variable 90-110cm or more		
Two front drawers		
e) Alarms:		
audio alarms		
Baby set temperature: + / - 1 ° C		
High/Low air temperature: +3 / -1 ° C or better		
Baby skin temperature probe fail		
Air temperature probe fail		
Power fail		
Air flow fail		
System fail		
		f) Accessories included:
		Front drawers – 2 pieces
		Mattress – 1 piece

Item		Quantity
ITEM 8. BASIC INCUBATOR		3
8.4.	Accessories	Rails for accessories – 2 pieces
		Patient skin probe reusable –2 pcs
		g) Physical properties:
		Interior Noise level <60dB
		Interior Aer flow <35m/s
		Power requirements: 220/240 V, 50-60 Hz
		Ambient operating temperature: minimum 20- 30° C
		Ambient humidity: 0 – 90 %RH
8.5.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
8.6.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation and commissioning
		User manual in English or translated into Russian language

Item		Quantity
ITEM 9. SYRINGE INFUSION PUMP		11
9.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
9.2.	Basic Structure	Equipment for iv administration of drugs at controlled quantity and time
9.3.	Technical Characteristics	Syringe type infusion pump for constant drug administration
		Flow rate: min range 0.1 ml – 999 ml/h (max 0.1 ml increments)
		Possibility of changing the flow rate whilst infusing
		Syringe loading sensor. The equipment will include KVO function
		High accuracy over the entire delivery range min +/-5%
		Accept all standard type syringe from 50/60 ml, 30/35 or 20 ml,10 ml or 5ml
		Set-up fast and simple
		Bolus mode programmable
		Antibolus system
		Warns of pressure variation when there is a risk of occlusion or a possible leak in the infusion line
		Occlusion in preselected mode: min. three pre-selectable pressure alarm limits (occlusion)
		Infusion continuity protection
		Automatic internal battery operation during patient transfer AC power failure
		Infusion data memorization (flow rate, bolus rate, volume, volume limit, KVO rate)
Event logging		
Electronic pressure management		
Fixing accessory for IV pole		
Infusion alarm:		
Pre-alarm end of infusion		

Item		Quantity
ITEM 9. SYRINGE INFUSION PUMP		11
		Pre-alarm volume limit
		Occlusion alarm
		Alarm for the end of infusion
		Alarm for volume limit
		Technical alarms:
		Disengaged driving mechanism alarm
		Low battery pre-alarm
		Discharged battery alarm
		Battery capacity display
		Unconfirmed programming
		Main malfunction alarms
		Syringe position control
		Syringe barrel clasp check
		Plunger head detection
		Occlusion pressure
		Locking syringe
		Fixing accessory
		Power 220 V AC / 50 Hz
		Battery life: min 3h/charge
9.4.	Consumables	200 connectors from the syringe to the patient for each syringe infusion pump
		200 syringe 20 ml for each syringe infusion pump
		200 syringe 50 ml for each syringe infusion pump
9.5.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 48 hours
9.6.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Equipment assembly and installation on site
		User manual in English or translated into Russian language

Item		Quantity
ITEM 10. PHOTOTHERAPY LAMP		3
10.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
10.2.	Basic Structure	Phototherapy Unit
		Mobile Stand
10.3.	Technical Characteristics	a) Phototherapy Unit:
		Light characteristics:
		LED lamp technology
		The possibility of adjusting the angle
		Irradiance >20 μM/cm2
		Bulbs / tubes / lamp characteristics:
		Estimated life time >30000 h
		Specify the field size [cm] -Diameter

Item		Quantity
ITEM 10. PHOTOTHERAPY LAMP		3
		Low energy consumption
		Fault protection (specify)
		Maintenance free operation
		Easy light source replacement
		Eye protection 3 pics.
		b) Mobile Stand:
		– height adjustable between: minimum 45 -150 cm.
		– on 3-4 castors with locks
10.4.	Consumables	lamp 1 set
10.5.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
10.6.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 11. LARINGOSCOPE		4
11.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
11.2.	Technical Characteristics	Fiber optic laryngoscope:
		Laryngoscope handle
		Rechargeable battery
		Knurled finish for sure grip
		Blade with fiber optic for cool light
		Halogen or xenon light for true tissue color
		Long lasting illumination
		Removable fiber optic light pipe for instant replacement
		Fiber optic resistant about 1000 cycles of sterilizations
		Blades:
		McIntosh type, size 0, 1, 2, 3,4 - 2 pcs.
		Miller type, size 00,0 1, 2, 3 – 2 pcs.
		One piece stainless steel
		Charger for battery: 220VAC, 50 Hz
11.3.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment
		Maximum response time : 48 hours
11.4.	Incidental Services	Training for at least 2 medical and technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 12. RESUSCITATION BALOON		5
12.1	Standard requirements	CE Mark ISO 9001: 2000 certified companies
12.2.	Technical Characteristics	Silicone resuscitation balloons for providing fast, simple, and effective ventilation to non-breathing patients, self-inflating bags in three sizes: adult / pediatric /pre term
		Adult model - over 25 kg.
		Pediatric model - 2.5 - 25 kg.
		Preterm model - under 2.5 kg.
		Adult bag with a minimum of 2 different size masks, patient valve and supplementary oxygen admission system with reservoir and valve
		Pediatric bag with a minimum of 3 different size masks, patient pop-off valve and supplementary oxygen admission system with reservoir and valve
		Preterm bag with a minimum of 2 different size masks, patient pop-off valve and supplementary oxygen admission system with reservoir and valve
		Standard connections between the different components
		Pop-off pressure release valve
		Valve system respond to the rescuer and the patient
		Possibilities to adapt to a pressure manometer
		Audible overpressure alert
		Extension tube for patient connection
		Operating temperature range: min. -10°C to 50°C
Storage temperature range: min. -40°C to +60°C		
12.3.	Accessories	Pediatric/ Neonatal mask 3 different size – 2 pcs. of each size
		Pre term mask 2 different size -2 pcs of each size
		Adult mask 2 different size – 2 pcs
12.4.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 48 hours
12.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 13. OXYGEN HOOD		6
13.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
13.2.	Basic Structure	Transparent oxygen hood for neonates with head / waist aperture
		2(two)sliding doors
		Silicone flap in the head / waist aperture
13.3.	Technical	Suitable for neonates and infants

Item		Quantity
ITEM 13. OXYGEN HOOD		6
	Characteristics	Fits into all incubators and open care beds / tables
		Allows consistent and even oxygen flow to the baby
		Manufactured from food-grade polycarbonate
		Easy access on each side for I.V. lines, oxygen analyzers or ECG wires
		Big clear sliding doors
		Raked head aperture
		Soft material in the aperture for maintaining oxygen and humidity
		Interior gas deflection system for preventing baby's cooling
		Possibility to measure the interior temperature
13.4.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment
		Maximum response time : 72 hours
13.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 14. FETAL HEART DETECTOR		4
14.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
14.2.	Characteristics	Compact, lightweight and portable device complete with carrying case, rechargeable batteries, gel and optional head-set if any
		Specify measurement method
		Audible and visible heart beat indication
		Fetal Heart rate calculation and display
14.3.	Technical Requirements	FHR range 0 - 210 bpm
		Large Display
		Weight <700 g
		Indicate displayed parameters
		Speaker yes/no
		Power Requirements: VAC 220, 50Hz / Plug Type F
		CONTROLS:
		ON/OFF
		Volume
		Audio mute
		Calibration
		Easy to clean
		Waterproof / fluid resistant
Battery operation		
Rechargeable standard batteries		

Item		Quantity
ITEM 14. FETAL HEART DETECTOR		4
		With integrated battery charger or ext. charging station
		Consumables if any covering 1200 patients
14.4.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
14.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 15 CARDIOTOCOGRAPH		3
15.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
15.2.	Characteristics	<p align="center">Standard requirements</p> Fetal monitor for prenatal, labor and delivery monitoring LCD or LED display Built-in thermal recorder and printer Dual Ultrasound Twins available for reliable non-stress testing and routine labor monitoring Color display and keyboard or similar for entry of patient name and ID with numerical presentation of FHR and UA Tachycardia and bradycardia alarm management Adjustable alarms Water-proof ultrasonic transducers Backup memory <p align="center">Fetal Heart Rate Monitoring</p> Ultrasonic measurement for fetal hear rate (FHR) with pulse Doppler technology Audible alarm and visual messages based on physiological alarms Transmitter frequency minimum 1 MHz Maximum constant intensity: < 15mW/cm2 Heart rate fetal counting range between approximately 60-200 BPM Automatic detection of fetal movement
15.3.	Accessories	<p align="center">Uterine Activity</p> Uterine activity (UA) measurement with toco-transducer Measurement range between: 0-100 relative units Manual or auto zero adjust FHR transducers- 2 pieces, with connection devices TOCO transducer- 1 piece, with connection devices Fetal monitor paper- minimum 6,000 sheets Table top or roll stand support for monitor and transducers- 1 piece

Item		Quantity
ITEM 15 CARDIOTOCOGRAPH		3
15.4.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
15.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 16. DELIVERY TABLE		4
16.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
16.2.	Technical Characteristics	Non-electric delivery bed to accommodate pregnant women in various comfortable positions during labour and birth giving, and for resting after the delivery in maternities of the first health care level.
		Robust, mobile delivery bed on castors with breaks
		Easy adjustable sections (with handle)- ≥ 3 sections
		Height adjustable (with handle)- 55-90 cm
		Trendlenburg and reverse Trendelenburg position easy adjustable with handle
		Shoulder and head rest
		Supplementary table completely recessable underneath the main bed
		Surface covered with soft material washable, resistant to chemicals
		Standard side rails to fix accessories
		Detachable, adjustable (height and width) leg support
		Detachable, adjustable (height and width) knee crutches with pads, cover and strap
		Drain pan to collect physiologic and irrigating fluids
		Waste receptacle with drainage hose
		Weight user ≥180kg.
		Auxiliary side-arm board with pad, swiveling
Auxiliary height adjustable infusion pole		
16.3	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
16.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 17. MOBILE EXAMINATION LIGHT		6
17.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
17.2.	Technical Characteristics	Optical lighting system reflector for optimum illumination of the operation light field, cool, white light, free from deep shadows. Adjustable height and articulated arm. LED lamp technology Light-field size >120mm Low power consumption: max 150VA On-off switch Lamp life: min. 20000 hours. Please specify Light characteristics: Lux: approx. 15,000 at 1m,Color temperature: approx. 4,300°K Mobile stand with 5 castors at least 2 with breaks Lamp must be water proof and fluid resistance for cleaning purposes.
17.3	Accessories	Spare lamp – 1 pcs (if applicable)
17.4	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
17.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation User manual in English or translated into Russian language

Item		Quantity
ITEM 18. INSTRUMENTS TABLE		8
18.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
18.2.	Technical Characteristics	Stainless steel instrument table with shelf and four castors Rubber coated swivel castors, at least two lockable Top and shelf strong enough to place heavy materials Dimensions approximately: -Width 120cm -Height 90cm -Depth 60cm -Distance between shelves 50cm
18.3.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
18.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation

Item		Quantity
ITEM 18. INSTRUMENTS TABLE		8
	User manual in English or translated into Russian language	

Item		Quantity
ITEM 19. NEONATAL MATTRESS HEATER		4
19.1.	Standard requirements	CE Mark ISO 9001: 2000 certified companies
19.2.	Technical Characteristics	Equipment used for compensation of heat losses in neonates Complete unit, microprocessor controlled functions for temperature, set values, etc.
		Temperature setting range
		Main mode from 35,0 to 37,0
		Additional mode from 37,1 to 39,0
		Accuracy of temperature control $\pm 1,0$
		Maximum deviation of mattress surface temperature after switching to maximum temperature mode $\pm 1,0$
		Switch off temperature of the heater when there is inadmissible overheating of the mattress surface,
		Heating time, not more than 20 min
		Alarms
		Alarm signaling OVERHEATING
		Main mode at temperature within, °C 38,0 \pm 0,4
		Additional mode at temperature within, °C 40,0 \pm 0,4
		Other malfunctions are indicated by alarms
		Mattress
		Overall dimensions of the mattress, mm, not more than
		– Height 20
		– Width 600
		– Length 750
		Mattress cover antimicrobial, fire retardant, fluid-proof.
		Control unit
		Display with LED
Built in handle		
ON/OFF		
Display the temperature		
Alarm ON/OFF		
19.3.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 72 hours
19.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 20. BRONHOSCOPI		1
20.1.	Standard requirements	<p>1. Compliant to EU Medical devices Directives CE Mark</p> <p>2. Compliant to IEC 60601 and amendments for Medical electrical equipment</p> <p>ISO 9001 certified companies</p>
20.2.	Characteristics	<p>Medical device – diagnosis of lung and airways and remove foreign bodies in the airway</p> <p>Pediatric rigid bronchoscope for pediatric cases consisting of:</p> <p>Rubber telescope guide for telescopes</p> <p>Telescope: angle of view: 0°, diameter: between 2,7 - 2,9 mm</p> <p>Telescope: angle of view: 0°, diameter: between 2,8 – 3 mm</p> <p>Bronchoscope tubes and foreign body alligator extraction forceps</p> <p>Bronchoscope tubes for neonates and foreign body alligator extraction forceps suitable for the bronchoscope:</p> <ul style="list-style-type: none"> – Size: between 3,3 – 4,3 mm – Length: between 180 - 200 mm <p>Bronchoscope tubes for infants and foreign body alligator extraction forceps suitable for the bronchoscope:</p> <ul style="list-style-type: none"> – Size: between 4,2 – 5,1 mm – Length: between 250 - 265 mm <p>Bronchoscope tubes for small children and foreign body alligator extraction forceps suitable for the bronchoscope:</p> <ul style="list-style-type: none"> – Size: between 4,9 – 5,5 mm – Length: between 290 - 310 mm <p>Bronchoscope tubes for children under 10 years and foreign body alligator extraction forceps suitable for the bronchoscope:</p> <ul style="list-style-type: none"> – Size: between 5,9 – 6,9 mm – Length: between 290 - 310 mm <p>Bronchoscope tubes for children over 10 years and foreign body alligator extraction forceps suitable for the bronchoscope:</p> <ul style="list-style-type: none"> – Size: between 7 – 7,9 mm – Length: between 390 - 405 mm – Light deflector for the described tubes <p>Suction pump</p> <p>Instrument guide for suction catheter</p> <p>Rigid suction tubes of approximate 35 cm length and 3mm diameter with rubber tip, straight and curved.</p> <p>Adaptor for respirator</p> <p>Sealing plug for respiration catheter</p> <p>Adaptor</p> <p>with sliding glass window plug, sealing cap, notched lens and keyhole opening, moveable</p> <p>Cold light fountain</p> <p>lamp lifetime: min. 500 h; Please specify</p> <p>Fiber-optic light cable, length between 290 – 300 cm, between diameter 3,4 – 3,6 mm</p>
20.3.	Accessories Consumables	<p>Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws, sheath diameter, compatible with bronchoscope 1 pcs.</p>

Item		Quantity
ITEM 20. BRONHOSCOPE		1
		Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter compatible with bronchoscope 1 pcs.
		Bacterial filter 4 pcs.
20.4.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
20.5	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation and commissioning
		User manual in English or translated into Russian language

Item		Quantity
ITEM 21. ECG		1
21.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
21.2.	Technical Characteristics	Equipment for recording heart electrical activity
		12 channel ECG with 12 leads
		Minimum 6 Number of traces to be displayed simultaneously
		Preferable touch screen. LCD or LED
		Resolution at least 640/480 pixels
		Possibility of introducing for each patient the following data: name, date of birth, date of recording, weight, age, diagnosis and comments
		12 leads ECG: limb derivations: I, II, III, aVL, aVF, aVR; precordial derivations: V1, V2, V3, V4, V5, V6
		Manual selection for any 12-lead.
		Graphic LCD viewing area for life 3-channel display with patient information.
		Indicator for faulty leads.
		Digital filters for all possible interferences. Please specify which types of filters.
		Calibration 1mV test.
		Sensitivity and Frequency response test.
		Working frequency 0.67-150 Hz
		Band Filters: muscle, low frequency, high frequency, 50 Hz
		Sensitivity adjustment - 5, 10 and 20 mm/mV.
		Gain adjustment - x 1/2, x 1 and x 2.
		Full screen preview to determine quality of ECG.
		ECG interpretation with interpretation statements.
		Low battery check and alarm.
		Optional: indication of bradycardia and tachycardia.
		Printer
		Printing speed 25 mm/s or 50 mm/s.
		Recording paper - thermal - A4 size.

Item		Quantity
ITEM 21. ECG		1
		Printout of patient ECG with patient information
		Storing at least 100 records (at least 10 seconds long strips)
		Defibrillation protection
		Pacemaker detection
		Built in accumulator. At least 2 hours autonomy
		The accumulator is re-charging automatically
		Thermal paper rolls (or other system) – 20 pcs
21.3.	Accessories and Consumables	Thermal paper rolls (or other system) – 20 pcs
		ECG cables and electrode reusable for adults and disposable for 150 patients (infant and small children)
21.4.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 72 hours
21.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation and commissioning
		User manual in English or translated into Russian language

Item		Quantity
ITEM 22. HOT AIR STERILIZATION		6
22.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
22.2.	Characteristics	Hot air sterilizer with chamber volume: min 50 liters
		Chamber made from stainless steel
		Door with lateral opening with handling for safety against the accidental opening
		Selected programs for sterilization, heating or drying of materials
		Min 3 working programs
		Ventilation air system in spiral way to assure the temperature in chamber
		Control panel and LED,LCD display
		Overheating protection system
		Display of temperature and time
		Accuracy ± 3 C
		Indication of the already done and current sterilization phase
		RS 232 – interface for printer or PC – communication - Optional
		Acoustic alarm for overtake of programmed temperature or other error
		Precise control of the sterilization cycle parameters with microprocessor
		Delayed heating start and stop function
		Temperature sensor
		Chrome plated trays – 2 pcs.
		Working temperature: at least from 10°C above ambient to 250°C
		Time required to reach 250°C: max 60 min

Item		Quantity
ITEM 22. HOT AIR STERILIZATION		6
		Weight: max 75 kg
		Power:
		Power supply: 220 VAC, 50 Hz
22.3.	Warranty and Service Conditions	24 months from the moment of installation
		Maximum response time at beneficiary site: 48 hours
22.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 23. NEBULIZER FOR DRUGS		5
23.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
23.2.	Technical Characteristics	Equipment for broncho-pulmonary pathologies: asthma, pneumopathies, cystic fibrosis
		Dedicated for all medicines: bronchodilators, antibiotics, corticoids, and mucolytic
		Running mode: the aerosol is produced continuous
		Autoclavable up to 134°C
		Preferable reusable accessories (tubes, masks)
		Nebulizer:
		Container capacity: approximately 5 ml
		Equipped with tube with length approximately 1m
		Multi position mask for adult and pediatric
		Equipped with mouth end-piece and flask for dosage
		Compressor:
		Oil free
		Maintenance free
		Small dimensions (portable device)
		Low weight (portable device)
		Low noise device: approximate 30 dB
		Pressure adjusted to 0.5 bar
		Possibility to be fed by an oxygen central source: compressor flow in charge with minimum 5l/min
23.3.	Accessories and Consumables	Mouth end-piece – 5pcs
		Nose plug – 2pcs
		Nose piece – 2pcs
		Masks adult – 2pcs
		Masks pediatric – 5pcs
23.4.	Warranty and Service	Period: 24 months from the moment of installation of the

Item		Quantity
ITEM 23. NEBULIZER FOR DRUGS		5
	Conditions	equipment Maximum response time : 72 hours
23.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

Item		Quantity
ITEM 24 GLUCOMETER		3
24.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
24.2.	Technical Characteristics	Whole blood measurements
		Measurement range: min 10 – 700 mg/dl
		No light influence
		Compensated with temperature influence
24.3.	Consumables	Strips for 500 of tests open market not limited to one company
24.4.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment
		Maximum response time : 72 hours
24.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in English or translated into Russian language

ITEM		Quantity
ITEM 25. SPHYNGOMANOMETER		12
25.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
25.2.	Characteristics	Digital Blood Pressure Monitor--Sphygmomanometer Upper Arm, for neonates, infant, children and adults
		Four mode for adult, pediatric ,infant, and neonatal selectable
		Measures systolic, diastolic pressure, and pulse
		Fully automatic one-touch operation
		Automatic inflation and deflation
		High resolution, large LCD display panel shows readings of blood pressure, pulse rate
		Optional 50 memories

ITEM		Quantity
ITEM 25. SPHYNGOMANOMETER		12
		Cuff size
		Neonate cuff size
		Infant cuff size
		Pediatric cuff size
		Adult cuff size
		AA Size Alkaline Battery and AC/DC Adapter
25.3	Accessories	All cuff size neonates, infant, children and adult 1 pcs for each size Other accessories and consumables if needed
25.4.	Warranty and Service Conditions	24 months from the moment of installation Maximum response time at beneficiary site: 48 hours
25.5.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation User manual in English or translated into Russian language

Item		Quantity
ITEM 26 REFRIGERATEUR		6
26.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
26.2.	Technical Characteristics	Standard refrigerator Capacity – 50 - 150 l Built in single door Temperature 0-4 C Low power consumption Electrical power connector should be standard type Power supply 220V AC, 50 Hz
26.3.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment Maximum response time : 72 hours
26.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation User manual in Russian language

Item		Quantity
ITEM 27. STANDARD HOSPITAL BED WITH MATTRESS		20
27.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment

Item		Quantity
ITEM 27. STANDARD HOSPITAL BED WITH MATTRESS		20
		ISO 9001 certified companies
27.2	Technical Characteristics	Standard hospital bed
		Size approximately: 2000-2030/900-910/500 cm
		Steel /Iron frame painted in electrostatic field with powder paint,
		Stainless steel head and foot ends with vertical bars,
		Mounted on protective stumps
		Weight user max. ≥180kg.
		2 section easy adjustable with handle
		– back section lifting angle 75-80 grade
		– foot section lifting angle 45 grade
		Mattress compliant with bad size
		Bed mattress cover antimicrobial, fire retardant, fluid-proof.
27.3.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment
		Maximum response time : 72 hours
27.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in Russian language

Item		Quantity
ITEM 28. HOSPITAL BEDSIDE CABINET		20
28.1.	Standard requirements	1.Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment
		ISO 9001 certified companies
28.2.	Technical Characteristics	Dimensions approximately:
		– width: 400mm
		– depth: 500mm
		– height: 650mm,
		1 drawer and 1 storage cabinet
		Build in metal painted in electrostatic field
28.3.	Warranty and Service Conditions	Color withe
		Period: 24 months from the moment of installation of the equipment
28.4.	Incidental Services	Maximum response time : 72 hours
		Training for at least 2 medical personnel on site at beneficiary location in Russian language
		Training for at least 2 technical personnel on site at beneficiary location in Russian language
		Installation
		User manual in Russian language

Item		Quantity
ITEM 29. DIGITAL WEGHING SCALE FOR NEONATES		10
29.1.	Standard requirements	1. Compliant to EU Medical devices Directives CE Mark 2. Compliant to IEC 60601 and amendments for Medical electrical equipment ISO 9001 certified companies
29.2.	Technical Characteristics	Digital Baby Scale for weighing neonates Weigh up to 500 gr. to 10 kg./20 kg Accuracy +/- 3% Auto zero and auto off functions Large LCD display Operates on 120V/230V and rechargeable battery
29.3.	Warranty and Service Conditions	Period: 24 months from the moment of installation of the equipment Maximum response time : 72 hours
29.4.	Incidental Services	Training for at least 2 medical personnel on site at beneficiary location in Russian language Training for at least 2 technical personnel on site at beneficiary location in Russian language Installation User manual in Russian language