Technical Specifications of emergency equipment for pediatric and perinatal wards in CP Tiraspol, CP Bender and Rabnita, Slobozia, Grigoriopol hospitals

Item			Quantity
ITEM 1. PULSE OXIMETER			**5**
1.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
1.2.	***Basic Structure***	Monitor for SpO2 and pulse rate	
		Stationary and portable pulse oximeter Removable hand held display pulse oximeter	
		Universal connection for sensors	
1.3.	***Technical Characteristics***	a) Monitor:	
		SpO2 and pulse rate ensures continuous monitoring during transportation	
		Oximetry technology clinically proven to work under motion and poor perfusion conditions	
		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	
		Minimum 6 hours battery life for the standalone device for bedside monitoring	
		Configurable display, including big numbers option	
		On screen alarm values	
		Alimentation with power cord for 220 V	
		b) Sensors:	
		Availability of complete range of adhesive and reusable sensors for all patient weights	
		Sensors with recessed photo detector to reduce ambient light and electromagnetic interference	
		Extended adhesive sensor life by use of rejuvenatable adhesive	

Item			Quantity
ITEM 1. PULSE OXIMETER			**5**
		Low weight adhesive sensors, <5gms	
		Adhesive sensors manufactured from durable, moisture resistant material	
1.4.	***Accessories and Consumables***	Interconnection cable 1 pcs	
		1 SpO2 sensor reusable for adults (finger)	
		1 SpO2 sensor reusable for children over 10 kg	
		100 single patient use SpO2 sensors for infant	
		25 single patient use SpO2 sensors for neonates lower than 2 Kg	
1.5.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	
1.6.	***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 2. BASIC INCUBATOR			**1**
2.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipments	
		ISO 9001: 2000 certified companies	
2.2.	***Basic Structure***	Incubator hood	
		Temperature controller	
		Standard humidity module	
		Mobile stand	
2.3.	***Characteristics***	a) Incubator hood and mattress:	
		Double wall and other parts of incubator easily removable for 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 cm2	
		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	

Item			Quantity
ITEM 2. BASIC INCUBATOR			**1**
		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	
		Baby temperature control using reusable skin probe	
		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 70% 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 – 1piece	
		Rails for accessories – 2 pieces	
		Patient skin probe reusable –2 pcs	
		g) Physical properties:	
		Interior Noise level <60dB	
		Interior Aer flow <0,35m/s	
		Power requirements: 220/240 V, 50-60 Hz	
		Ambient operating temperature: minimum 20- 30° C	
		Ambient humidity: 0 – 90 %RH	
2.4.	***Accessories***	Front storage drawers	
		Mattress	
		Rails for accessories	
		Patient skin probe	
2.5.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	

Item			Quantity
ITEM 2. BASIC INCUBATOR			**1**
2.6.	***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 3. PHOTOTHERAPY LAMP			**3**
3.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		Compliant to IEC 60601 and amendments for Medical electrical equipment	
		ISO 9001 certified companies	
3.2.	***Basic Structure***	Phototherapy Unit	
		Mobile Stand	
3.3.	***Technical Characteristics***	**a) Phototherapy Unit:**	
		Light characteristics:	
		The possibility of adjusting the angle	
		Irradiance >20 µM/cm2	
		Lamp characteristics:	
		-LED Bulbs / tubes / estimated life time >30000 h	
		-average life time fluorescent tube: minimum 1.500 hours	
		Specify the field size [cm] -Diameter	
		Low energy consumption	
		Fault protection (specify)	
		Maintenance free operation	
		Easy light source replacement	
		Eye protection 3 pics.	
		b) Mobile Stand:	
		– The possibility of adjusting the angle	
		– on 3-4 castors with locks	
3.4.	***Consumables***	Lamp 1 set	
3.5.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	
3.6.	***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 4. SYRINGE INFUSION PUMP			**14**
4.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
4.2.	***Basic Structure***	Equipment for IV administration of drugs at controlled quantity and time	
4.3.	***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: 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	
		Infusion alarm:	
		Pre-alarm end of infusion	
		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	

Item			Quantity
ITEM 4. SYRINGE INFUSION PUMP			**14**
		Power 220 V AC / 50 Hz	
		Battery life: min 3h/charge	
4.4.	***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	
4.5.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	
4.6.	***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 5. SUCTION UNIT			**5**
5.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipments	
		ISO 9001: 2000 certified companies	
5.2.	***Technical Characteristics***	Portable suction unit	
		Suitable for adult and pediatric 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	
		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:	
		Rechargeable battery	
		Long operating time at full vacuum (uninterrupted min 40-60 min)	
		Low charge time: max 6-8 hours	
		Fast charging: runs at least 1 hour after it is charged for 2 hours only	
5.3.	***Accessories and consumables:***	Reusable collecting container: min 1500 ml.	
		Disposable hydrophobic bacteria filters – 3pcs.	
		2 auto-clavable silicon suction tubes	

Item			Quantity
ITEM 5. SUCTION UNIT			**5**
5.4.	***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	
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. ELECTROCARDIOGRAPH (EKG)			**4**
6.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
6.2.	***Characteristics***	12 channel ECG with 12 leads	
		Minimum 6 Number of traces to be displayed simultaneously	
		Screen LCD	
		Preferable touch screen	
		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	
		The central Control panel will display all instructions in Russian or English language	
		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. Band Filtres: muscle, low frequency, high frequency, 50 Hz	
		Working frequency 0,67-150 Hz	
		Calibration 1mV test	
		Sensitivity and Frequency response test	
		Sensitivity adjustment - 5, 10 and 20 mm/mV	
		Gain adjustment - x ½, 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	

Item			Quantity
ITEM 6. ELECTROCARDIOGRAPH (EKG)			**4**
		Printing speed 25 mm/s or 50 mm/s	
		Recording paper - thermal - A4 size	
		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	
6.3.	***Consumables***	Thermal paper rolls – 50 pcs	
6.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	
6.5.	***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 7. RESUSCITATION BALOON			**6**
7.1	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
7.2.	***Technical Characteristics***	Resuscitation balloon for providing fast, simple and effective ventilation to non-breathing patients; self-inflating bags in three sizes: adult/pediatric, neonatal	
		System assists the rescuer through :	
		Pop-off pressure release valve which opens at pressures more than 20-40 cm H2O	
		Pressure manometer	
		Valve system respond to the rescuer and the patient	
		Visual alert of the pressure applied or for incorrect operation	
		Audible overpressure alert	
		Auto-clavable	
		Oxygen reservoir system for each of the resuscitators	
		Extension tube for patient connection	
		Inspiratory resistance: 3-3.5 cm H_2O	
		Expiratory resistance: 2-2.5 cm H_2O	
		Dead space: max 8 ml	
		Pressure relief valve	
		Low weight (for easy operation)	
		Operating temperature range: min. -10°C to 50°C	
		Storage temperature range: min. -40°C to +60°C	
7.3.	***Accessories***	Neonatal use masks – 6 pcs (2 of each size)	
		Children use masks –6 pcs (2 of each size)	

Item			Quantity
ITEM 7. RESUSCITATION BALOON			**6**
		Adult use masks – 6 pcs (2 of each size)	
7.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 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	
		User manual in English or translated into Russian language	

Item			Quantity
ITEM 8. PORTABLE OXYGEN SYSTEM			**5**
8.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
8.2.	***Characteristics***	Device for the oxygen administration of patients in emergency situations	
		Robust and lightweight carrying case or carrying	
		Oxygen cylinder, min. 5L approximate 150-200bar, filled (adapter to refill matching Moldavian connectors)	
		Fixation for Oxygen cylinder	
		Oxygen Pressure Reducer, infinitely adjustable, 3-15 L/min	
		Pressure meter	
		Flowmeter	
8.3	***Consumables***	Tubing carries the oxygen from regulator to the delivery device	
		Reusable ventilation masks for infants 3 sizes: 4 pieces each size	
		Reusable ventilation masks for children 3 sizes: 4 pieces each size	
		Reusable ventilation masks for adults 3 sizes: 4 pieces each size	
		Set of reusable oropharyngeal tubes type Guedel (No.00, No.0, No.1, No.2, No.3, No.4, No.5): 10 pieces each size	
		Set of reusable nasopharyngeal tubes type Wendel (Ch14, Ch16, Ch18, Ch19, Ch20, Ch22, Ch24): 10 pieces each size	
8.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 hours	
8.5.	***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 9. GLUCOMETER			**4**
9.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipments	
		ISO 9001: 2000 certified companies	
9.2.	***Technical Characteristics***	Whole blood measurements	
		Measurement range: min 10 – 700 mg/dl	
		No light influence	
		Compensated with temperature influence	
		Serial imprecision: max 4 %	
9.3.	***Consumables***	Strips for 500 of tests open market not limited to one company	
9.4.	***Warranty and Service Conditions***	Period: 24 months from the moment of installation of the equipment	
		Maximum response time : 72 hours	
9.5.	***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 10. SPHYNGOMANOMETER			**6**
10.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		Compliant to IEC 60601 and amendments for Medical electrical equipment	
		ISO 9001 certified companies	
10.2.	***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	
		Cuff size	
		Neonate cuff size	
		Infant cuff size	
		Pediatric cuff size	
		Adult cuff size	
		Battery and AC/DC Adapter	
10.3	***Accessories***	All cuff size neonates, infant, children and adult - 1 pcs for each size	
		Other accessories and consumables if needed	
10.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 48 hours	

ITEM			Quantity
ITEM 10. SPHYNGOMANOMETER			**6**
10.5.	***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 11. NEBULIZER FOR DRUGS			**9**
11.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipments	
		ISO 9001: 2000 certified companies	
11.2.	***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	
		Auto-clavable 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	
		Medical device from electrical class I	
		Level of protection: IP 30	
11.3.	***Accessories and Consumables***	Mouth end-piece – 5pcs	
		Nose plug – 2pcs	
		Nose piece – 2pcs	
		Masks adult – 2pcs	
		Masks pediatric – 10 pcs	
11.4.	***Warranty and Service Conditions***	Period: 24 months from the moment of installation of the equipment	
		Maximum response time : 72 hours	
		Training for at least 2 medical personnel on site at beneficiary	

Item			Quantity
ITEM 11. NEBULIZER FOR DRUGS			**9**
11.5.	***Incidental Services***	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 12. TABLE FOR NEWBORN RESUSCITATION			**1**
12.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
12.2.	***Basic Structure***	Height adjustable table	
		Resuscitation Radiant Warmer consisting of:	
		Heat source	
		Bassinet and mattress	
		Mounting column with fixed height	
		Suction devices for cleaning of the neonatal airways	
		System for resuscitation	
		Storage compartments	
12.3.	***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/cm2	
		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: – Manual mode in minimum 5% 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	
		Hydraulic tilt mechanism for the bassinet at least: +/- 10° minimum	
		Mattress thickness: – minimum 2 cm – Ray cassette tray to fit under mattress-1 piece	
		Four foldable bassinet walls	

Item			Quantity
ITEM 12. TABLE FOR NEWBORN RESUSCITATION			**1**
		Ventilator tube supports	
		c) Mounting column:	
		Fixed height column on mobile castors	
		Built in rails for accessories – 2 pieces	
		d)Resuscitation module	
		Wall supply pressure 3-6 bar	
		Cylindre for oxygen and cylindre for compressed air pressure	
		Pressure (PIP) min 50 cm H2O for flow 15L/min	
		PEEP 0-15 cmH20	
		Adjustable positive end expiratory	
		Gas bleed 0-15 LP/M	
		Precision blender (optional) 21-100% O2 +/-3% 02	
		Mask resuscitation size 0,1 and 2 two pieces for each size. Circuits T pieces	
		d) Storage compartments:	
		Front storage drawers – 2 pieces	
		e) 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	
		f) 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	
12.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 72 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. COMPRESSOR FOR MEDICAL AIR			**2**
13.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		Compliant to IEC 60601 and amendments for Medical electrical equipment	
		ISO 9001 certified companies	
13.2.	***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	
		Power Supply: 220 VAC, 50 Hz	
13.3.	***Consumables***	Provide at least 5 sets of air filters	
13.4.	***Warranty and Service Conditions***	24 months from the moment of installation	
		Maximum response time at beneficiary site: 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 DETECTORS			**4**
14.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 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***	Specify FHR range [bpm]	
		Display size	
		Indicate displayed parameters	
		Speaker yes/no	
		Power Requirements: VAC 220, 50Hz / Plug Type F	

Item			Quantity
ITEM 14. FETAL HEART DETECTORS			**4**
		CONTROLS:	
		ON/OFF	
		Volume	
		Audio mute	
		Calibration	
		Easy to clean	
		Waterproof / fluid resistant	
		Battery operation	
		Rechargeable standard batteries	
		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			**2**
15.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		Compliant to IEC 60601 and amendments for Medical electrical equipment	
		ISO 9001 certified companies	
15.2.	***Characteristics***	***Standard requirements***	
		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-stress2testing 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	
		Fetal Heart Rate Monitoring	
		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	

Item			Quantity
ITEM 15 CARDIOTOCOGRAPH			**2**
		BPM	
		Automatic detection of fetal movement	
15.3.	***Accessories***	***Uterine Activity***	
		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	
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. NEONATAL MATTRESS HEATER			**9**
16.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		Compliant to IEC 60601 and amendments for Medical electrical equipment	
		ISO 9001 certified companies	
16.2.	***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 ± 1,0	
		Maximum deviation of mattress surface temperature after switching to maximum temperature mode ± 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±0,4	
		Additional mode at temperature within, °C 40,0±0,4	
		Other malfunctions are indicated by alarms	
		Mattress	
		Overall dimensions of the mattress, mm, not more than	

Item			Quantity
ITEM 16. NEONATAL MATTRESS HEATER			**9**
		– 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	
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			**4**
17.1.	***Standard requirements***	Compliant to EU Medical devices Directives CE Mark	
		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.	
		Classical or LED lamp technology	
		Light-field size >120mm	
		Low power consumption: max 150VA	
		On-off switch	
		Lamp life 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	

Item			Quantity
ITEM 17. MOBILE EXAMINATION LIGHT			**4**
		User manual in English or translated into Russian language	

Item			Quantity
ITEM 18. BILIRUBINOMETE CUTANEOS			**1**
18.1.	***Standard requirements***	Compliant to EU Medical device Directives CE Mark	
		Compliant to IEC 60601 and amendments for medical electrical equipment	
		ISO 9001: 2000 certified companies	
18.2.	***Technical Characteristics***	Non-invasive fast measurement	
		Measurement position forehead or sternum	
		Easy to read display - Specify type and range	
		Printer (preferably integrated) and paper rolls	
		Alarms	
		Measurements error	
		Low battery	
		Others (specify)	
		Technical Requirements	
		Power Requirements: VAC 220, 50Hz / Plug Type F	
		Battery (rechargeable) and mains operation	
		Charging device (220V)	
		Carrying case	
		Consumables for 200 patients	
18.3.	***Warranty and Service Conditions***	Period: 24 months from the moment of installation of the equipment	
		Maximum response time : 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	
		User manual in English or translated into Russian language	