**Procurement ref. no.**: **ZP/5/VI/2022**

**conducted by Lotnicze Pogotowie Ratunkowe as an open tender for: "Delivery of certified sets of defibrillator mounts for EC135 helicopters together with the delivery of defibrillators" for Lotnicze Pogotowie Ratunkowe.**

###### LIMITING parameters

| **DESCRIPTION OF THE SUBJECT OF THE PROCUREMENT CONTRACT** |
| --- |
| **No.** | **LIMITING parameters** | YES/NO\* | **VALUE OFFERED\*\*** |
| 1 | 2 | 3 | 4 |
| 1. | The deadline for delivery of the subject of the procurement contract shall be December 19, 2022, at the latest. | YES / NO |  |
|  | The subject of the procurement contract has been described in points 2 – 5 hereinbelow. |  |  |
| 2. | **The mounts for mounting medical equipment in the EC135 helicopters operated by LPR.** |
| 2.1 | The mounts for mounting the cardiomonitor/defibrillator, of the type indicated in the Tender, together with a carrying bag\*, in the medical equipment mounting rails located on the AFT wall of the medical cabin of the EC135 helicopters operated by Lotnicze Pogotowie Ratunkowe. The mounts shall be designed in accordance with EASA CS27 requirements.\*Whenever the words 'cardiomonitor/defibrillator together with a carrying bag' are hereinafter used in the limiting parameters, it shall be understood that it is a cardiomonitor/defibrillator indicated in the Tender, together with a carrying bag containing all of the equipment described in Appendix No. 1 to the limiting parameters.  | YES / NO |  |
| 2.1.1 | The cardiomonitor/defibrillator mount with the carrying bag must be:1. Easily attachable and lockable to the medical equipment mounting rails, without the use of tools;
2. Easily unlockable and detachable from the medical equipment mounting rails, without the use of tools;
3. Devoid of sharp edges and sharp corners;
4. Protected against corrosion, the surface finish must be similar in color to the mounts of other medical devices in the medical cabins of the EC135 helicopters operated by Lotnicze Pogotowie Ratunkowe;
5. Designed and manufactured in such a way as to allow for attaching and locking the cardiomonitor/defibrillator to/in the mount with one hand;
6. Designed and manufactured in such a way as to allow for unlocking and detaching the cardiac-monitor defibrillator from the mount may be done with one hand;
7. Mounted in the medical equipment mounting rails, in such a position as to allow the screen and all control and signaling gauges of the cardiomonitor/defibrillator mounted in the mount to be clearly visible from the doctor’s seat. A doctor shall occupy the backward-facing seat located in the center of the medical cabin of the EC135 helicopters operated by the Polish Medical Air Rescue. In assessing the visibility of the cardiomonitor/defibrillator gauges, consideration should also be given to other medical equipment located in the medical cabin, including the transport ventilator suspended from the ceiling of the medical cabin;
8. Designed and made in such a way that connecting cables and accessories to the cardiomonitor/defibrillator does not interfere with mounting the cardiomonitor/defibrillator together with the carrying bag in the mount and detaching the cardiomonitor/defibrillator together with the carrying bag from the mount.
 | YES / NO |  |
| 2.1.2 | The design of the cardiomonitor/defibrillator mount with the carrying bag must:1. have elements integrated in the mount that are used for supplying power to the cardiomonitor/defibrillator from the 12V or additionally scored 24V DC aircraft electric power system in the working position of the cardiomonitor/defibrillator (used for patient monitoring), whereas the connection of power supply in the mount to the on-board electric power system shall be easy to detach by the user;
2. Ensure the ability to connect the cardiomonitor/defibrillator to the quick-disconnect power supply connector while the cardiomonitor/defibrillator is being mounted and locked in the mount, simultaneously and without any additional steps;
 | YES / NO | Specify the V DC value:…………………. |
| 1. Be equipped with a power supply cable; said cable shall be terminated with an electrical connector of a type suitable for connecting the cable to the DC electrical power outlet on the EMS Service Panel (EMS) in the helicopter cabin;

\*The panel is equipped with 12V DC cigarette lighter type power outlets, type 12/14VDC Outlets, P/N 114320 by Merit, protected by a 5A fuse, and a 24V DC power outlet, type 24/28VDC Outlets, P/N MS3470A12-3S Socket, 3 Pol with Cover, by Deutsch Connector, protected by a 5A fuse. One of those two types of outlets may be used for connecting the cardiomonitor/defibrillator to the on-board electric power system. | YES / NO | Specify the connector type:…………………. |
| 1. Initiate automatic charging of the cardiomonitor/defibrillator battery(s) supplying the device when the cardiomonitor/defibrillator is mounted and locked along with the carrying bag in the mount provided that the power supply has been previously connected by the crew to the DC power connector on the EMS Service Panel in the helicopter cabin and the power supply of the EMS service panel is turned on.
 | YES / NO |  |
| 2.1.3 | The Contractor shall provide instructions for cleaning and disinfecting the cardiomonitor/defibrillator mounts and indicate the approved cleaning and disinfecting agents available on the Polish market. | YES / NO |  |
| 2.1.4 | The weight of the cardiomonitor/defibrillator mount equipped with a power supply (e.g. a charger with a power cord) together with the weight of the cardiomonitor/defibrillator and the carrying bag, shall not exceed 13.5 kg in total. | YES / NO | Enter total weight in kilograms:…………………. |
| 2.2. | The Contractor shall deliver a modification design, made in accordance with the requirements of EASA CS27, of the mounts for the suction device located on the front part of the casing of the medical cabin baggage compartment in the EC135 helicopters operated by LPR in such a way as to be able to mount and power interchangeably: the Weinmann Accuvac Rescue and the Weinmann Accuvac Pro suction devices. | YES / NO |  |
| 2.3 | The Contractor shall check the energy balance and adapt the medical electrical system of the EC135 helicopters operated by Lotnicze Pogotowie Ratunkowe for the changes introduced due to:1. the change of the cardiomonitor/defibrillator type;
2. introducing the provision for powering the cardiomonitor/defibrillator during flight and on the ground when the helicopter is connected to the Ground Power Unit;
3. introducing the provision for powering the Weinmann Accuvac Rescue and the Weinmann Accuvac Pro suction devices interchangeably during flight and on the ground when the helicopter is connected to the Ground Power Unit.
 | YES / NO |  |
| 2.4 | The Contractor shall conduct the certification of the designed mounts for mounting the cardiomonitor/defibrillator together with the carrying bag and modification of the mount for the Weinmann Accuvac electric suction device as well as taking into account the electricity balance in the revision to the Supplementary Type Certificate (EASA STC 10026923) of the medical cabin of the EC135 helicopter operated by LPR. | YES / NO |  |
| 2.4.1 | The Contractor shall provide a copy of the approved revision to the Supplemental Type Certificate Amendment (EASA STC 10026923) incorporating the designed and certified cardiomonitor/defibrillator and electric suction device mounts. | YES / NO |  |
| 2.4.2 | The Contractor shall provide approved flight and continuing airworthiness documentation associated with the revision to the Supplemental Type Certificate (EASA STC 10026923), in English. | YES / NO |  |
| 2.5 | The Contractor shall deliver thirty (30) sets of mounts for mounting cardiomonitor/defibrillators in the EC135 helicopters, as provided for in point from 2.1 to 2.4.2. | YES / NO |  |
| 3. | Portable cardiomonitor/defibrillator: |
| 3.1 | The Contractor shall provide thirty (30) portable cardiomonitor/defibrillators with all cables and other components necessary for the operation of the cardiomonitor/defibrillator of the type offered, in the configuration described in point from 3.5 to point 3.5.18 together with the accessories listed in point from 3.5.18 to 3.6.23 of the Limiting parameters. | YES / NO | Enter the type of the portable cardiomonitor/defibrillator:Name: ……..Type: ………Manufacturer: ………. |
| 3.2 | General requirements for a cardiomonitor/defibrillator: |
| 3.2.1 | The Contractor shall provide portable cardiomonitor/defibrillators capable of vital signs monitoring, defibrillation, cardioversion, and external patient cardiostimulation. | YES / NO |  |
| 3.2.2 | The cardiomonitor/defibrillator must provide full functionality to administer defibrillation and monitor: adults, children and neonates. | YES / NO |  |
| 3.2.3 | The required degree of protection of the cardiomonitor/defibrillator against external factors: IP 44 as a minimum.  | YES / NO | Enter the IP protection level: ……………. |
| 3.2.4 | If there are no exceptions with respect to the cardiomonitor/defibrillator and accessories listed in the specific technical requirements, it shall be necessary to meet the requirements specified in the following standard, i.e. PN-EN 13718-1+A1:2020 (E) Medical vehicles and their equipment - Air ambulances - Part 1: Requirements for medical devices used in air ambulances, in the following Chapters:1. 4.3 User interface;
2. 4.4 Environmental conditions and performance of medical devices intended for use in air ambulances;
3. 4.5 Electrically-powered medical devices;
4. 4.7 Mechanical strength;

5 Test methods. | YES / NO |  |
| 3.3 | Requirements for documents to be submitted at the Tender submission stage:  |
| 3.3.1 | Manufacturer's declaration on the device's resistance to drops according to the EN 1789 standard or equivalent in accordance with point 3.2.4 letter e). | YES / NO |  |
| 3.3.2 | A statement of the Contractor on the approval of the cardiomonitor/defibrillator with its accessories and peripherals for marketing and use in the territory of the Republic of Poland in accordance with the requirements of the Medical Devices Act. | YES / NO |  |
| 3.3.3 | EU Declaration of Conformity for medical devices issued by the Manufacturer or its authorized representative to confirm compliance with the European Parliament and Council Regulations. | YES / NO |  |
| 3.3.4 | A copy of the Certificate of Conformity, for the medical device, issued by a notified body for CE marking. | YES / NO |  |
| 3.3.5 | The Contractor’s statement guaranteeing the availability of spare parts for a period of not less than ten (10) years, to be counted from the date of delivery of the medical device to the Awarding Entity. | YES / NO |  |
| 3.3.6 | The Contractor's obligation to sell spare parts for a period of not less than ten (10) years, to be counted from the date of delivery of the medical device to the Awarding Entity. | YES / NO |  |
| 3.3.7 | Documentation of the manufacturer of the offered cardiomonitor/defibrillator, including technical data and confirming the parameters meeting the requirements of the Limiting Parameters. Each of the attached documents must be in Polish. | YES / NO |  |
| 3.4 | Requirements for documents to be provided upon delivery:  |
| 3.4.1 | Declaration of Conformity and Certificate of Conformity for Medical Device:1. Declaration of Conformity for Medical Device - a statement by the manufacturer or its authorized representative, stating on his sole responsibility that the product is in conformity with the essential requirements within the meaning of the Act of May 20th, 2010 on medicinal devices (Journal of Laws dated 2015, item 876 and 1918).
2. Certificate of Conformity for Medical Device - issued by a notified body for CE marking.
 |  YES / NO |  |
| 3.4.2 | User manual in Polish (as a hard copy and an electronic version). | YES / NO |  |
| 3.4.3 | A warranty card that specifically includes:1. Warranty terms and conditions including failure reporting procedures;
2. Warranty protection period;
3. A list of authorized service centers providing warranty services in Poland (company name, address, telephone number, fax number, contact person).
 | YES / NO |  |
| 3.4.4 | A technical passport in the Polish language. | YES / NO |  |
| 3.5 | Specific requirements:  |
| 3.5.1 | The cardiomonitor/defibrillator must have integrated modules for measurement/presentation of, specifically:1. defibrillation,
2. cardioversion,
3. stimulation,
4. electrocardiography (ECG),
5. heart rate (HR, PR),
6. blood saturation (SpO2),
7. carboxyhemoglobin (SpCO) and methemoglobin (SpMet),
8. blood pressure:
	* non-invasive measurement (NIBP),
	* invasive measurement (IBP),
9. body temperature (TEMP),
10. exhaled CO2 concentration (EtCO2) (capnography) and respiration (number of breaths/min):
 |  YES / NO |  |
| 3.5.2 | The cardiomonitor/defibrillator must provide defibrillation of: |  |  |
| 3.5.2.1 | Adults, children, and neonates. | YES / NO |  |
| 3.5.2.2 | Using soft defibrillation electrodes. | YES / NO |  |
| 3.5.2.3 | Manual and semi-automatic. | YES / NO |  |
| 3.5.2.4 | With biphasic defibrillation waveform. | YES / NO |  |
| 3.5.2.5 | With advisory mode (voice commands in Polish) for semi-automatic defibrillation. | YES / NO |  |
| 3.5.2.6 | Minimum range: 2 to 200 J of delivered defibrillation energy. | YES / NO | Specify the scope:………………………….. |
| 3.5.2.7 | In a range of a minimum of 10 energy levels for defibrillation.  | YES / NO | Specify the scope:……………………….....  |
| 3.5.3 | The cardiomonitor/defibrillator must provide pacing:  |
| 3.5.3.1 | External non-invasive. | YES / NO |  |
| 3.5.3.2 | With pacing modes:1. asynchronous atrial pacing (AOO),
2. demand (AAI).
 | YES / NO |  |
| 3.5.3.3 | With respect to the minimum pacing rate: from 40 ppm to 170 ppm. | YES / NO | Specify the scope:…………………………. |
| 3.5.3.4 | With respect to pulse amplitude: from 10 to 140 mA. | YES / NO | Specify the scope:…………………………. |
| 3.5.4 | The cardiomonitor/defibrillator must provide electrocardiography (ECG) monitoring: |
| 3.5.4.1 | Basic and 12-lead. | YES / NO | Provide the number of the basic ones:…………………. |
| 3.5.4.2 | With arrhythmia (bradycardia and tachycardia) and ST-segment analysis.  | YES / NO |  |
| 3.5.4.3 | With automatic interpretation and analysis of the ECG waveform. | YES / NO |  |
| 3.5.4.4 | With on-screen display of the ECG curve. | YES / NO |  |
| 3.5.4.5 | With the possibility of printing the ECG curve. | YES / NO |  |
| 3.5.4.6 | With ECG waveform printout for critical events. | YES / NO |  |
| 3.5.4.7 | With adjustable ECG signal amplification.  | YES / NO |  |
| 3.5.5 | The cardiomonitor/defibrillator must provide heart rate (HR) monitoring: |
| 3.5.5.1 | With respect to the minimum measurement range: from 30 to 240 beats per minute. | YES / NO | Specify the scope:…………………………. |
| 3.5.6 | The cardiomonitor/defibrillator must provide blood saturation (SpO2) monitoring:  |
| 3.5.6.1 | The measurement is to be resistant to noise and motion artifacts. | YES / NO |  |
| 3.5.6.2 | With respect to the minimum measurement range: from 50% to 99%. | YES / NO | Specify the scope:………………………….. |
| 3.5.6.3 | with Masimo Technology. | YES / NO |  |
| 3.5.7 | Methemoglobin (SpMet) and carboxyhemoglobin (SpCO) monitoring: |
| 3.5.7.1 | The measurement is to be resistant to noise and motion artifacts. | YES / NO |  |
| 3.5.7.2 | with Masimo Technology. | YES / NO |  |
| 3.5.8 | The cardiomonitor/defibrillator must provide non-invasive blood pressure (NIBP) measurement: |
| 3.5.8.1 | With respect to systolic, diastolic, and mean blood pressure. | YES / NO |  |
| 3.5.8.2 | With respect to the minimum systolic pressure measurement range: from 40 to 230 mm Hg. | YES / NO | Specify the scope:………………………….  |
| 3.5.8.3 | With respect to the minimum diastolic pressure measurement range: from 20 to 130 mm Hg. | YES / NO | Specify the scope:…………………………. |
| 3.5.8.4 | With respect to the minimum mean pressure measurement range: from 30 to 180 mm Hg. | YES / NO | Specify the scope:…………………………. |
| 3.5.8.5 | In a manual mode. | YES / NO |  |
| 3.5.8.6 | In automatic mode, in at least 5 time intervals. | YES / NO | Provide the number of intervals:………………………………………………..  |
| 3.5.9 | The cardiomonitor/defibrillator must provide invasive blood pressure (NIBP) measurement:  |
| 3.5.9.1 | With respect to the minimum measurement range: from (-) 30 to 300 mm Hg. | YES / NO | Specify the scope:…………………………. |
| 3.5.9.2 | With manual reset. | YES / NO |  |
| 3.5.10 | The cardiomonitor/defibrillator must provide body temperature monitoring (TEMP): |
| 3.5.10.1 | With a surface measurement method. | YES / NO |  |
| 3.5.10.2 | With a deep measurement method. | YES / NO |  |
| 3.5.10.3 | With a minimum measuring range: from 24 to 45 ºC. | YES / NO | Specify the range in ºC:…………………………………. |
| 3.5.11 | The cardiomonitor/defibrillator must provide monitoring of exhaled CO2 concentration (EtCO2) (capnography) and respiration (number of breaths/min):  |
| 3.5.11.1 | In intubated patients. | YES / NO |  |
| 3.5.11.2 | With a minimum EtCO2 measurement range: from 0 mm Hg to 95 mm Hg. | YES / NO | Specify the scope:…………………………. |
| 3.5.11.3 | With a minimum respiratory rate measurement range: from 0 to 90 breaths per minute. | YES / NO | Provide the number of breaths:………………………………………………. |
| 3.5.11.4 | With on-screen display of the EtCO2 curve. | YES / NO |  |
| 3.5.11.5 | With the possibility of printing the ECG curve. | YES / NO |  |
| 3.5.12 | The cardiomonitor/defibrillator must have alarm signaling for all monitored parameters.  | YES / NO |  |
| 3.5.13 | The cardiomonitor/defibrillator must have a screen:  |
| 3.5.13.1 | A touch-screen. | YES / NO |  |
| 3.5.13.2 | With a color LCD display.  | YES / NO |  |
| 3.5.13.3 | With a minimum display resolution of 640x480 pixels. | YES / NO | Specify resolution:………………………….. |
| 3.5.13.4 | With a minimum diagonal of 6.5 inches. | YES / NO | Provide the number of inches:…………………………………………….. |
| 3.5.13.5 | Displaying at least 3 dynamic curves. | YES / NO | Specify the number of dynamic curves:………………………………………………………….. |
| 3.5.14 | The cardiomonitor/defibrillator must have a printer: | YES / NO |  |
| 3.5.14.1 | With a minimum printer paper width of 80 mm. | YES / NO | Specify the paper width:…………………………………… |
| 3.5.14.2 | With at least 3 channels printed simultaneously. | YES / NO | Provide the number of channels:………………………………………………… |
| 3.5.15 | The cardiomonitor/defibrillator must record and store in the device memory: |
| 3.5.15.1 | The cardiomonitor/defibrillator workflow: patient's personal information , patient's vital signs, ECG waveform segments, activities and events performed.  | YES / NO |  |
| 3.5.15.2 | The time trends of monitored parameters from a minimum of 8 hours.  | YES / NO | Provide the number of hours:……………………………………………. |
| 3.5.15.3 | The cardiomonitor/defibrillator must be able to print out the information described in: point 3.5.15.1 during and after the intervention and in point 3.5.15.2 after the intervention. | YES / NO |  |
| 3.5.16 | The cardiomonitor/defibrillator must be equipped with the option to transmit all measured parameters in real-time and from the defibrillator memory to an external receiving device via an internal 3G modem or more advanced and via Bluetoouth technology. | YES / NO |  |
| 3.5.17 | Technical conditions for powering the cardiomonitor/defibrillator:  |
| 3.5.17.1 | The cardiomonitor/defibrillator must be battery operated. | YES / NO |  |
| 3.5.17.2 | The electric capacity of the battery must be at least 4 Ah. | YES / NO | Specify capacity:………………………. |
| 3.5.17.3 | The required average operating time of the cardiomonitor/defibrillator on a battery/batteries whilst monitoring: a minimum of 110 minutes. | YES / NO | Provide the number of minutes:………………………………………………. |
| 3.5.17.4 | The required number of discharges whilst operating on a battery/batteries with a discharge energy of 200 J minimum, 80 discharges minimum. | YES / NO | Provide the number of minutes:………………………………………………. |
| 3.5.17.5 | The cardiomonitor/defibrillator shall have a battery/batteries charge status display. | YES / NO |  |
| 3.5.17.6 | The cardiomonitor/defibrillator shall have a feature for charging the battery/batteries powering the device if the cardiomonitor/defibrillator is connected to the external power source. | YES / NO |  |
| 3.5.17.7 |  The cardiomonitor/defibrillator shall be equipped with a quick-disconnect connector for supplying the cardiomonitor/defibrillator with DC power from the power supply of the cardiomonitor/defibrillator mount, as specified in Limiting Parameters, point 2.1.2.b). | YES / NO |  |
| 3.5.17.8 | The cardiomonitor/defibrillator, after it is removed from the mount, shall be supplied with power only from the internal battery/batteries (the number of which shall result from the design and operational requirements of the offered type of device). | YES / NO |  |
| 3.5.18 | The cardiomonitor/defibrillator must be equipped with the functionality:1. internal defibrillation test or
2. defibrillation testing using an external device provided with the cardiomonitor/defibrillator.
 | YES / NO  | Enter the option offered:……………………………. |
| 3.6 | The Contractor shall deliver the following equipment together with every cardiomonitor/defibrillator:  |
| 3.6.1 | Battery - 3 pcs. in addition to the set of batteries built into the device. | YES / NO |  |
| 3.6.2 | Adult, X-ray transparent electrodes for ECG/defibrillation/cardioversion/cardio-stimulation - 20 pcs. | YES / NO |  |
| 3.6.3 | ECG/defibrillation/cardioversion/cardiostimulation electrodes for children - 10 pcs. | YES / NO |  |
| 3.6.4 | Basic patient ECG cable - 1 pc. | YES / NO |  |
| 3.6.5 | Basic patient ECG cable, 12-lead - 1 pc. | YES / NO |  |
| 3.6.6 | Set of ECG electrodes for adults - 1 package (minimum 50 pcs.). | YES / NO |  |
| 3.6.7 | Set of ECG electrodes for children - 1 package (minimum 50 pcs.). | YES / NO |  |
| 3.6.8 | SpO2 sensor for adults, of the finger-clip or soft silicone type, reusable - 1 pc. | YES / NO | Specify the type of sensor:…………………………………..  |
| 3.6.9 | SpO2 sensor for children, of the finger-clip or soft silicone type, reusable - 1 pc. | YES / NO | Specify the type of sensor:……………………………………  |
| 3.6.10 | SpO2 sensor extension cord - 1 pc. | YES / NO  |  |
| 3.6.11 | SpMet/SpCO sensor, of the finger-clip or soft silicone type, reusable - 1 pc. | YES / NO | Specify the type of sensor:……………………………………….  |
| 3.6.12 | SpMet/SpCO sensor extension cord - 1 pc. | YES / NO  |  |
| 3.6.13 | A set of NIBP cuffs, including all sizes, for adults, children, neonates along with a cuff cable. | YES / NO | Specify the number of cuffs per set:  |
| 3.6.14 | An interface cable for IBP for Edwards Truwave transducer - 1 pc. | YES / NO |  |
| 3.6.15 | Surface/skin temperature sensor, reusable, for adults and children - 1 pc. each. | YES / NO |  |
| 3.6.16 | Core temperature sensor, (esophageal/rectal), reusable, for adults and children - 1 pc. each. | YES / NO |  |
| 3.6.17 | Extension cord for the disposable surface/skin temperature sensor. | YES / NO |  |
| 3.6.18 | Extension cord for the disposable core temperature sensor. | YES / NO |  |
| 3.6.19 | EtCO2 line for intubated children and adults, disposable - 5 pcs. | YES / NO |  |
| 3.6.20 | Printer paper - 10 rolls. | YES / NO |  |
| 3.6.21 | Carrying bag for device and accessories. | YES / NO |  |
| 3.6.22 | Stationary device with 230V AC power supply for battery charging and maintenance at an operational base of a helicopter, outside the cardiomonitor/defibrillator. | YES / NO |  |
| 3.6.23 | Software required to transfer data to a PC and archive it. | YES / NO |  |
| 3.7 | Each cardiomonitor/defibrillator supplied must be brand new. A non-used cardiomonitor/defibrillator that has not been previously sold or rented is considered brand new. Any reconditioned, display, demonstration device, or any device that has been withdrawn from delivery to another buyer shall not be allowed. | YES / NO |  |
| 3.8 | All delivered cardiomonitor/defibrillators with accessories and peripherals must be manufactured no earlier than 2022. | YES / NO |  |
| 3.9 | All delivered accessories and peripherals shall be brand-new. The word ‘brand-new’ shall be construed to mean unused accessories and peripherals that are in factory sealed packaging and were manufactured no earlier than 2022. |  |  |
| 3.10 | The cardiomonitor/defibrillator with accessories and peripherals included in the offer must have an authorized warranty service in Poland. |  YES / NO | Provide the name and location of the service:…………………………………………….. |
| 3.11 | Other:  |
| 3.11.1 | Communication of the cardiomonitor/defibrillator with the user is required, in the Polish language. | YES / NO |  |
| 3.11.2 | Cleaning and disinfection of the device and reusable accessories with biocidal products used by LPR. It is necessary to indicate the products from the list constituting Appendix no. 2 to the Limiting parameters. | YES / NO | Enter the products:……………………… |
| 4. | Medical staff training:  |
| 4.1 | The Contractor, within thirty (30) days from the agreement signing date, shall prepare and provide the Awarding Entity with materials for conducting e-learning training in the use of cardiomonitor/defibrillators and all supplied modules.  | YES / NO |  |
| 4.2 | All training materials shall be prepared in the Polish language. | YES / NO |  |
| 4.3 | The Contractor shall provide practical training to a group of up to forty (40) members of the medical personnel of the Awarding Entity in the use of cardiomonitor/defibrillators and all modules. The training shall be conducted in two groups of up to twenty four (24) people. The training shall be conducted in the Polish language. | YES / NO |  |
| 4.4 | Practical training of medical personnel in the use of cardiomonitor/defibrillators and all modules shall be conducted at a date agreed upon by the Parties and completed no later than two (2) weeks before delivery of cardiomonitor/defibrillators. | YES / NO |  |
| 4.5 | The practical training of the medical personnel in the use of cardiomonitor/defibrillators and all the modules shall be conducted in Warsaw, at a place indicated by the Awarding Entity. | YES / NO |  |
| 4.6 | Upon completion of practical training of medical personnel, the Contractor shall issue personal certificates confirming completion of the training by the Awarding Entity's employees. | YES / NO |  |
| 4.7 | The Awarding Entity shall bear the travel and subsistence costs incurred with respect to the personnel of the Awarding Entity undergoing training, as provided for in point 4.3. |  |  |
| 4.8 | Training in the use of cardiomonitor/defibrillator and all modules will be provided by the Contractor as part of the Contract Price, which shall include travel, accommodation and subsistence costs incurred with respect to the persons administering the training. | YES / NO |  |
| 5. | Warranty:  |
| 5.1 | The Contractor shall grant the Awarding Entity a thirty-six (36) month warranty on the cardiomonitor/defibrillator mounts, to be counted from the date of receipt of the mounts by the Awarding Entity. | YES / NO |  |
| 5.2 | The Contractor shall grant the Awarding Entity warranty on the cardiomonitor/defibrillators delivered. The warranty period shall not be less than twenty-four (24) months, to be counted from the date of acceptance of the medical device by the Awarding Entity.  | YES / NO |  |
| 5.3 | The Contractor shall grant the Awarding Entity warranty on the reusable accessories supplied. The warranty period shall not be less than twelve (12) months, to be counted from the date of acceptance of the medical device by the Awarding Entity. | YES / NO | Enter the warranty period offered:……………………………. |
| 5.4 | If a fault develops after a maximum of five repairs carried out on the same item of a device, such a device shall be replaced with a new device. | YES / NO | Indicate the number of repairs:  |
| 5.5 | Guarantee of the availability and sale of spare parts for cardiomonitor/defibrillators for a period of not less than ten (10) years, to be counted from the date of receipt of the medical device by the Awarding Entity. | YES / NO | Provide the number of years:  |
| 5.6 | The warranty terms and conditions and the manner of performing warranty repairs listed from point 5.1 to point 5.6 shall be specified in detail in the Draft Provisions of the Agreement, constituting Appendix no. 1 to the ToR. | - |  |

\* enter YES or NO in column 3; if the Contractor fails to enter or mark the necessary item, the Awarding Entity shall consider this fact as a confirmation that the Contractor offers a given parameter.

\*\* enter required information or parameters in column 4.

###### Appendix no. 1 to the limiting parameters

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| **CONTENTS OF THE CARRYING BAG FOR A CARDIOMONITOR/DEFIBRILLATOR** |
| *Note: The table is used to determine the set of equipment that will be contained in the cardiomonitor/defibrillator mount and, consequently, to determine the weight of the equipment attached to the mount and its attachment to the helicopter structure and the weight of the equipment that the medical personnel must carry from the helicopter to the scene of the incident.* |

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| **Accessories / modules** | **Description** | **The number in the device** | **Weight corresponding to the number of pieces specified in a given line** |
|  | Cardiomonitor/defibrillator - complete, equipped with all modules and options, as included in the Tender. | 1 pc. |  |
|  | Battery(-ies) (in the number necessary to power all functions of the device, located in the device power supply compartments designed for batteries). | 1 pc. |  |
| **Accessories** | Printer paper (to be shown only if the printer is built into the cardiomonitor/defibrillator, if the printer is a separate module that interfaces via Wi-Fi, Bluetooth or cable connection, the printer and printer paper will not be in the cardiomonitor/defibrillator carrying bag). | 1 pc. |  |
| **Accessories** | Accessory bag. | 1 pc. |  |
| **Accessories** | Additional 12V power supply with a cigarette lighter plug to connect the cardiomonitor/defibrillator to the power supply in a wheeled ambulance. | 1 pc. |  |
| **Accessories** | Disposable razor (not subject to delivery, the Awarding Entity shall place a typical razor used in medical practice in the carrying bag; the weight of the razor shall be as stated herein). | 1 pc. | 0.004 kg |
| **Electrotherapy** | Defibrillation test accessories if the device is not equipped with built-in defibrillation test functions. | 1 pc. |  |
| **Electrotherapy** | Disposable ECG/defibrillation/cardioversion/cardio-stimulation electrodes, X-ray transparent, for adults. | 2 pcs. |  |
| **Electrotherapy** | Disposable ECG/ defibrillation/cardioversion/cardio-stimulation electrodes for children. | 1 pc. |  |
| **Electrotherapy** | Therapeutic cable. | 1 pc. |  |
| **ECG** | ECG - basic cable. | 1 pc. |  |
| **ECG** | ECG – a cable with a 12 leads (limb and precordial ones). | 1 pc. |  |
| **ECG** | ECG - disposable adult electrodes. | 1 pack (50 pcs. per pack) |  |
| **ECG** | ECG - disposable children electrodes. | 1 pack (50 pcs. per pack) |  |
| **EtCO2** | EtCO2 - disposable line for intubated adults and children. | 1 pc. |  |
| **EtCO2** | EtCO2 - disposable line for non-intubated adults and non-intubated children - must be included if offered. | 1 pc. |  |
| **SpCO / SpMet** | SpCO/SpMet extension cord (if required for measurement). | 1 pc. |  |
| **SpO2** | Masimo SpO2 sensor for adults. | 1 pc. |  |
| **SpO2** | Masimo SpO2 sensor for children. | 1 pc. |  |
| **SpO2** | SpO2 extension cord for Masimo sensors (disposable and reusable ones). | 1 pc. |  |
| **IBP** | IBP disposable transducer / line (not included in the delivery, the Awarding Entity will place a typical transducer / line used in medical practice, with the weight listed in the last column, in the carrying bag). | 1 pc. | 0.09 kg |
| **IBP** | IBP interface cable for Edwards Truwave transducer (Baxter). | 1 pc. |  |
| **NIBP** | NIBP tube. | 1 pc. |  |
| **NIBP** | NIBP cuff (26-33 cm) for adults. | 1 pc. |  |
| **NIBP** | NIBP cuff (11-22 cm) for children. | 1 pc. |  |
| **NIBP** | NIBP cuff (6-12 cm) for neonates. | 1 pc. |  |
| **TEMP** | TEMP esophageal-rectal sensor for adults. | 1 pc. |  |
| **Other** | other elements necessary for the functioning of the cardiomonitor/defibrillator; devices not listed above (reference to point 3.1 Limiting parameters). |  |  |
|  |  | TOTAL: |  |

Appendix no. 2 to the Limiting parameters

List of biocidal products used by LPR.

1. Aniosyme DD1 – concentrate,
2. Gigasept FF – concentrate,
3. Incidin Foam – spray/foam,
4. Incidin – wipes,
5. Perform – granules,
6. Sani-Cloth Plus – wipes,
7. Mikrozid universal wipes premium – wipes.