**Section II: Schedule of requirements**

1. **Summary of Requirements for the supply of Cranes manipulators with radio control to Ukraine.**

**UNOPS requirements are comprised of the following items:**

**Telescopic boom Crane-manipulator with radio control with a carrying capacity of minimum 8 tons - 2 PCS**

**B. Technical specifications for Goods – Comparative Data Tables**

| **N** | **UNOPS minimum technical requirements** | **Is Bid Compliant? Bidder to complete** | **Details of the offered goods. Bidder to complete** |
| --- | --- | --- | --- |
|  | **Telescopic boom Crane-manipulator with radio control with a carrying capacity of minimum 8 tons - 2 PCS** | ☐ Yes ☐ No | Please provide brand/model of the equipment |
| **1** | **General qualification requirements** |  |  |
| **1.1** | **Only new machines in standard factory performance should be offered for delivery** | ☐ Yes ☐ No |  |
| **1.2** | **Materials, goods and equipment shall be supplied in accordance with applicable Ukrainian laws, regulations and rules, and shall comply with relevant European and international standards and be certified in accordance with the ISO 9001 system (Manufacturer must be ISO 9001 certified and must provide the certificate). In case of discrepancies between national and international standards, the standards with higher requirements shall apply.** | ☐ Yes ☐ No |  |
| **1.3** | **The Bidder must be in continuous business of supplying of the offered or equivalent machinery for at least past 3 years.** | ☐ Yes ☐ No |  |
| **1.4** | **The Bidder must have experience in the delivery of similar machinery in Ukraine or EU/EEA countries and must provide evidence (contracts, POs, certificates of completion, etc) of successful implementation of at least 2 contracts for supply of the offered or equivalent machinery realised in the past 3 years.** | ☐ Yes ☐ No |  |
| **1.5** | **The Bidder who is not the manufacturer of the Machinery, shall provide Manufacturer's Authorisation for supply of the Machinery confirming its rights to supply the said Machinery to Ukraine.** | ☐ Yes ☐ No |  |
| **1.6** | **Bidder or producer of the Machinery must have a representative office in Ukraine that provides after sale service available in Ukraine or agreement with the local representative of the producer or service company that can provide maintenance and after sale services for the Machinery. Bidder must provide contact details of the service centre (or list of the service centers) as well as confirmation from the service centre that it will provide after sale services for the proposed Machinery.** | ☐ Yes ☐ No |  |
| **1.7** | **Warranty service. Within the warranty period, the Supplier or its authorized service centre shall provide maintenance and/or repair services and/or replacement of the equipment not later than 30 (thirty) calendar days from the date of receipt of written or E-mail notification from an authorized party. The name of the company, address, telephone- and fax numbers, e-mail address must be mentioned in the bid. All costs connected with warranty maintenance are covered by the Supplier.** | ☐ Yes ☐ No |  |
| **1.8** | **The warranty for the crane must be at least 2 years for crane assembly and at least a year or 100,000 km for the truck body. Warranty must include manufacturing defects and labour charges.** | ☐ Yes ☐ No |  |
| **1.9** | **The Supplier or the producer of the equipment must have a maintenance station within the Kharkiv region, but no more than 20 km from the city of Kharkiv, with appropriate conditions for warranty service and must ensure the departure of a mobile service team to eliminate malfunctions at the end user's facilities. Bidder must provide contact details of the service center.** | ☐ Yes ☐ No | Please provide details of the service center |
| **1.10** | **The Supplier or the service center must have a stock of spare parts to ensure their quick replacement** | ☐ Yes ☐ No |  |
| **1.11** | **In the production of the Machinery (Crane-manipulator) offered for this procurement, the use of materials and components included in the List of goods prohibited for importation into the customs territory of Ukraine originating from the russian federation, approved by the Resolution of the Cabinet of Ministers of Ukraine No.1147 dated December 30, 2015, is not allowed. The Bidder shall submit the relevant Declaration (confirming that the offered Machinery is compliant with the above resolution).** | ☐ Yes ☐ No |  |
| **1.12** | **The following documents must be provided with the Bid:** |  |  |
| 1.12.1 | User Manual and Operating Instructions (in Ukrainian) that include full scope of operating, maintenance and repair instructions for the vehicle supplied. The documentation should include, but not be limited to, the following: | ☐ Yes ☐ No |  |
| 1.12.1.1 | Frequency of necessary preventive maintenance during normal operation; | ☐ Yes ☐ No |  |
| 1.12.1.2 | Logs and operating instructions; | ☐ Yes ☐ No |  |
| 1.12.1.3 | Product information including: |  |  |
| 1.12.1.3.1 | Name and address of the manufacturer; | ☐ Yes ☐ No |  |
| 1.12.1.3.2 | List of service centres in Ukraine; | ☐ Yes ☐ No |  |
| 1.12.1.3.3 | Type and model; | ☐ Yes ☐ No |  |
| 1.12.1.3.4 | Full technical characteristics of the vehicle; | ☐ Yes ☐ No |  |
| 1.12.2 | The certificate of the vehicle design approval regarding the road-traffic safety of the Main Service Centre of the Ministry of Internal Affairs of Ukraine must be provided (the vehicles should be certified to be used in Ukraine). | ☐ Yes ☐ No |  |
| 1.12.3 | Manufacturer's technical literature/catalogue (detailed product datasheet/catalog), all confirming that the offered items comply with required specifications. | ☐ Yes ☐ No |  |
| **1.13** | **Documentation that must be provided with the goods upon delivery.** |  |  |
| 1.13.1 | Original instruction manual in Ukrainian | ☐ Yes ☐ No |  |
| 1.13.2 | Original service book | ☐ Yes ☐ No |  |
| 1.13.3 | Original technical passport from the manufacturer | ☐ Yes ☐ No |  |
| 1.13.4 | The certificate of the vehicle design approval regarding the road-traffic safety of the Main Service Centre of the Ministry of Internal Affairs of Ukraine must be provided (the vehicles should be certified to be used in Ukraine). | ☐ Yes ☐ No |  |
| 1.13.5 | All necessary manufacturer's certificates (technical certificates) and quality guarantees. | ☐ Yes ☐ No |  |
| **2** | **Technical requirements** |  |  |
| **2.1** | **Vehicle must be new, unused and new or current model.** | ☐ Yes ☐ No |  |
| **2.2** | **Technical characteristics of the Crane-manipulator (minimum requirements):** | ☐ Yes ☐ No |  |
| 2.2.1 | Wheel formula – minimum 4×2 | ☐ Yes ☐ No |  |
| 2.2.1.1 | Alternator capacity in AH (80 -165 Ah) | ☐ Yes ☐ No |  |
| 2.2.1.2 | Battery capacity in AH ( 150 to 170AH) | ☐ Yes ☐ No |  |
| 2.2.1.3 | Cooling system - liquid | ☐ Yes ☐ No |  |
| 2.2.1.4 | Cylinder formation- inline | ☐ Yes ☐ No |  |
| 2.2.1.5 | Emission standard - minimum Euro-5 | ☐ Yes ☐ No |  |
| 2.2.1.6 | Engine mount - front | ☐ Yes ☐ No |  |
| 2.2.1.7 | Engine type - 4 stroke | ☐ Yes ☐ No |  |
| 2.2.1.8 | Fuel injection system- common rail | ☐ Yes ☐ No |  |
| 2.2.1.9 | Fuel tank capacity- minimum 180 ltrs. The operation time of the crane-manipulator without refueling must be at least 8 hours. | ☐ Yes ☐ No |  |
| 2.2.1.10 | Fuel type- Diesel fuel compliant to currently applicable EU standards | ☐ Yes ☐ No |  |
| 2.2.1.11 | Brake type -ABS +EBL | ☐ Yes ☐ No |  |
| 2.2.1.12 | Cabin Seating capacity including driver- minimum 3 seats | ☐ Yes ☐ No |  |
| 2.2.1.13 | Steering orientation- LHD | ☐ Yes ☐ No |  |
| 2.2.2 | Lifting moment – from 20 to 25 TM | ☐ Yes ☐ No |  |
| 2.2.3 | Elevation - load capacity, m-kg: |  |  |
| 2.3.3.1 | 2.5 m – min. 8 000 kg | ☐ Yes ☐ No |  |
| 2.3.3.2 | 14.05 m – min. 900 kg | ☐ Yes ☐ No |  |
| 2.2.4 | Maximum extension (hydraulic) – minimum 14.05 m | ☐ Yes ☐ No |  |
| 2.2.5 | Maximum lifting height (mounting level) – 16.0 m | ☐ Yes ☐ No |  |
| 2.2.6 | Angle of rotation – No limit (All rotation - 360 degrees) | ☐ Yes ☐ No |  |
| 2.2.7 | Control system - manual hydraulic control with attachements of remote Radio control | ☐ Yes ☐ No |  |
| 2.2.8 | The base of the manipulator crane | ☐ Yes ☐ No |  |
| 2.2.8.1 | Placement of the manipulator crane behind the car cabin | ☐ Yes ☐ No |  |
| 2.2.8.2 | Mounting beam - three-support bridge - 4 points on the subframe, 3 points on the manipulator itself | ☐ Yes ☐ No |  |
| 2.2.9 | Stabilization system - Mechanical base of outriggers with extension - hydraulic front 2 units, hydraulic rear 2 units | ☐ Yes ☐ No |  |
| 2.2.10 | Long hydraulic outriggers with extension and a 180° manual turning mechanism to the transport position - extendable hydraulic outriggers | ☐ Yes ☐ No |  |
| 2.2.11 | A set of 2 lightened plates for hydraulic supports - a bracket is installed on each outrigger | ☐ Yes ☐ No |  |
| 2.2.12 | The boom type is a hexagonal profile | ☐ Yes ☐ No |  |
| 2.2.13 | Hydraulic extension of the boom - 14.05 m (telescopic) | ☐ Yes ☐ No |  |
| 2.2.14 | Standard hook (10t) with a factory test certificate - the manufacturer's declaration for the manipulator crane together | ☐ Yes ☐ No |  |
| 2.2.15 | Hydraulic overload protection system that blocks operations in case of overload | ☐ Yes ☐ No |  |
| 2.2.16 | Hydraulic locks of cylinders of the boom and telescopic sections, which ensure the retention of the load in case of damage to the hydraulic lines | ☐ Yes ☐ No |  |
| 2.2.17 | The high-pressure filter of the hydraulic system - one suction and one drain | ☐ Yes ☐ No |  |
| 2.2.18 | Hydraulic tank - min. 160 l | ☐ Yes ☐ No |  |
| 2.2.19 | Installation kit (rigging kit) | ☐ Yes ☐ No |  |
| 2.2.20 | Hydraulic pump with fixed hydraulic flow | ☐ Yes ☐ No |  |
| 2.2.21 | Radio control | ☐ Yes ☐ No |  |
| 2.2.22 | 2 NiMH rechargeable batteries with a docking station for recharging 12/24V | ☐ Yes ☐ No |  |
| **2.3** | **Safety equipment requirements** |  |  |
| 2.3.1 | Fire extinguisher, 2 kg. min. | ☐ Yes ☐ No |  |
| 2.3.2 | First aid kit | ☐ Yes ☐ No |  |
| 2.3.3 | Spare wheel, full size, min. 1 | ☐ Yes ☐ No |  |
| 2.3.4 | Tool kit with jack | ☐ Yes ☐ No |  |
| 2.3.5 | Warning triangle | ☐ Yes ☐ No |  |
| 2.3.6 | Seat belts all seats | ☐ Yes ☐ No |  |
| 2.3.7 | Load meter; load indicator; overwinding alarm; PTO indicator lamp | ☐ Yes ☐ No |  |
| 2.3.8 | Hook safety latch; level guage | ☐ Yes ☐ No |  |
| 2.3.9 | Hydraulic safety valves; check valves; holding valves | ☐ Yes ☐ No |  |
| **3** | **Packaging requirements** |  |  |
| 3.1 | The goods are shipped in a form that ensures the preservation of the cargo during transportation to the destination and unloading of the vehicle. | ☐ Yes ☐ No |  |
| 3.2 | A packing sheet must be attached to each place, which indicates the name, quantity of Goods, net and gross weight of the given place, and the name of the manufacturer and supplier. | ☐ Yes ☐ No |  |
| 3.3 | The product must be transported and stored in accordance with the manufacturer's recommendations | ☐ Yes ☐ No |  |
| **4** | **Additional requirements** |  |  |
| 4.1 | The supplier must provide training for service personnel at the Purchaser's base (the cost of these works is included in the price of the machine). | ☐ Yes ☐ No | Please provide details |
| 4.2 | Bidder provided shipping dimension: L x W x H, as well as Kerb/shipping weight in kg of the vehicles. | ☐ Yes ☐ No | Please provide details |
| 4.3 | Bid includes the Country of origin of the goods. | ☐ Yes ☐ No | Please provide details |

**C. Delivery requirements**

| **UNOPS Requirements** | | **Is the bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| --- | --- | --- | --- |
| **Delivery time** | **Bidders shall deliver and unload the goods as soon as possible but not later than January 30, 2024. Bidders must provide realistic delivery time for the proposed goods.**  **DDP Incoterms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_calendar days from the date of PO signature.**  Partial delivery of the goods in batches (one batch should contain one frequency converter according to the requirements and fully operational) within this period is acceptable. | ☐Yes ☐ No |  |
| **Delivery place and Incoterms rules** | DDP, Kharkiv city, Ukraine.  The bidder will be responsible for covering the demurrage costs, if any. | ☐Yes ☐ No |  |
| **Consignee details** | Delivery address and consignee details will be provided to the successful Bidder(s) | ☐Yes ☐ No |  |