**Section II: Schedule of requirements**

E-Sourcing reference no: RFQ/2023/48332

**1. Summary of Requirements for the supply of Commercial-Off-the-Shelf (COTS) modular bridging system:**

**Supply of**  Commercial-Off-the-Shelf (COTS) modular bridging system for the State Road Agency of Ukraine (AR) to address the immediate need of modular bridging materials (at least 390 metres configured in 10 containerized modular sets capable of bridging gaps of variable length with an option to purchase additional compatible bridging material in the future). The bridge materials will be approximately 3 m in length. **Delivery and comprehensive training to be included.**

**2. Technical requirements**

**2.1. Technical requirements comparative data table**

| N | UNOPS minimum technical requirements | Is Bid Compliant? Bidder to complete | Details of the offered goods. Bidder to complete |
| --- | --- | --- | --- |
| **1** | **Minimum technical requirements** |  |  |
| 1.1 | Description: A Commercial-Off-the-Shelf (COTS) modular bridging system for the State Road Agency of Ukraine (AR) to address the immediate need of modular bridging materials (at least 390 metres configured in 10 containerized modular sets capable of bridging gaps of variable length with an option to purchase additional compatible bridging material in the future). The bridge modules shall be approximately 3 (three) metres in length.  Each bridge set supplied should include the supply of new shipping containers (defined within ISO 6346) to contain all parts. Shipping containers are not returned to the Contractor and must be marked on four vertical sides in Ukrainian language to identify the kit number, contents, and number of containers comprising each kit. | ☐ Yes ☐ No |  |
| 1.2 | The modular bridging system shall be capable of spanning gaps ranging from 10 metres to 50 metres in approximately 3 (three) metres bridge module increments without intermediate supports and must be able to support the loadings of Model 1 and Model 2 hypothetical vehicles when deployed over at least a 50 metre span as defined in the State Building Standards of Ukraine DBN B.1.2-15:2009.  Model 1 is applicable to dual lane configuration under normal crossing.  Model 2 is applicable to dual lane configuration under caution crossing.  The system shall be capable of supporting military equivalent loads of MLC150 Wheeled (W) and MLC120 Tracked (T) normal crossings as defined in STANAG 2021 (https://nso.nato.int/nso/nsdd/main/standardes).  The modular bridge system shall comply with the requirements of at least one of the following design specifications:  - EN Eurocode Standards  - Ukrainian Model 1 and Model 2.  Offers shall include certified calculations with accompanying explanations to evidence performance. | ☐ Yes ☐ No |  |
| 1.3 | The modular bridging system supplied shall include anti-corrosion protection of the steel components or a solution to achieve equivalent or better performance. The supplier shall bear the obligation to evidence such performance if an alternative system is proposed. | ☐ Yes ☐ No |  |
| 1.4 | The modular bridging system is defined as a set consisting of all bridge components, all tools, ramps, launching equipment required to erect, launch and retrieve a bridge that can span at least 39 metres for unregulated crossings (i.e. without traffic management in place to control bridge access by vehicles). | ☐ Yes ☐ No |  |
| 1.5 | The modular bridging system shall have a minimum dual lane clear roadway width of at least 7.25 metres as well as wheel barriers beyond this width. | ☐ Yes ☐ No |  |
| 1.6 | The modular bridging system shall include a pedestrian walkway of 1,25 m width with handrails for at least one side of each bridge assembly. | ☐ Yes ☐ No |  |
| 1.7 | The modular bridging system shall include a support or anchorage for each set to prevent any shifting laterally and longitudinally. | ☐ Yes ☐ No |  |
| 1.8 | The modular bridging system shall be capable of unrestricted transport by rail, marine, road, and air transport (in correspondence with ISO 6436). | ☐ Yes ☐ No |  |
| 1.9 | The modular bridging system shall be modular in design and function with interchangeable components which can be configured as a single span up to 100 metres and multiple span bridges of any length. | ☐ Yes ☐ No |  |
| 1.10 | The modular bridging system supplied shall include a roadway surface with adequate traction when dry or wet to ensure safe stopping distances for vehicles travelling at the vehicle design crossing speed and for operators to safely cross the bridge on foot during the assembly process as well as after the bridge is fully operational.  The supplier shall specify the type and way of arranging the roadway surface. | ☐ Yes ☐ No |  |
| 1.11 | The modular bridging system shall be capable of emplacement over damaged or intact infrastructure bridge spans without degrading the load carrying capability of the modular bridge system or the load carrying capability of an intact infrastructure bridge span. The modular bridging system shall be capable of support at any point along its length and configured to fit existing bridge piers and abutments. | ☐ Yes ☐ No |  |
| 2 | **Optional technical requirements \*** |  |  |
| 2.1 | Intermediate floating support capability (e.g. barge, pontoon, etc.) sufficient for construction of a dual lane bridge capable of spanning water obstacles in excess of 1 km and supporting the same loading requirements as defined in 1.2. Components required for this configuration shall be interchangeable with the modular bridging system noted in 1.2. Prospective suppliers shall evidence this capability with a certified reference design for a 100 metre or longer wet crossing. | ☐ Yes ☐ No |  |
| **3** | **Minimum Support requirements** |  |  |
| 3.1 | The selected Contractor shall have inventory, production capability, and logistics capabilities for immediate delivery of the first batch of bridge sets into Ukraine within 45 calendar days or sooner of contract signing. Prospective Contractors shall provide a certified table of inventory of bridge sets on hand at the time of bid submission. | ☐ Yes ☐ No |  |
| 3.2 | The Contractor’s proposal shall include a comprehensive training program. The program shall include, as a minimum in their format, such topics as: assembling, disassembling, installation, maintenance, etc. and elaboration of the project documentation. | ☐ Yes ☐ No |  |
| 3.3 | The Contractor’s proposal shall include 100 person-days of Field Service Representative (FSR) time within Ukraine to deliver training, supervise installation, and provide guidance on site during bridge builds. The Contractor’s human resources and staffing approach shall be capable of supporting up to two concurrent bridge installations in different regions of Ukraine simultaneously. Prospective suppliers shall provide CVs (i.e. resumes) for at least three FSR specialists in their proposal. | ☐ Yes ☐ No |  |
| 3.4 | The Contractor shall provide a training curriculum package (presentation decks, written manuals, and pictorial field instructions) for delivery inside Ukraine in both English and Ukrainian translations through the Field Service Representatives. In case of the training delivery in English, the Contractor shall provide technical translation to Ukrainian. The training shall be conducted at a location agreed by contractor and AR. | ☐ Yes ☐ No |  |
| 3.5 | The modular bridge system supplied shall include all recommended spare parts, components, tools and any other equipment required to erect, install and fix the complete modular system at each of the target locations (to be provided at a later date). The set of spare parts shall be sufficient for the bridge operation within the operation warranty term. | ☐ Yes ☐ No |  |
| **3.6** | **Minimum qualification requirements for the FSRs:** |  |  |
| 3.6.1 | FSR will be a technical expert on bridge deployment and redeployment with relevant world wide experience. | ☐ Yes ☐ No |  |
| 3.6.2 | The Contractor shall have proven ability to provide FSRs into contested areas (conflict zones) and / or areas impacted by natural disasters. | ☐ Yes ☐ No |  |
| **4** | **Minimum Experience requirements** |  |  |
| 4.1 | The Contractor shall provide information about its experience of supplying modular bridges with accompanying reference contact information for each experience. | ☐ Yes ☐ No |  |
| **5** | **Delivery and logistics requirements** |  |  |
| 5.1 | The selected Contractor shall have inventory, production capability, and logistics capabilities for delivery of all bridge sets to Ukraine as per the provided schedule. Prospective suppliers shall provide the delivery schedule. | ☐ Yes ☐ No |  |
| **6** | **General requirements** |  |  |
| 6.1 | The Contractor’s proposal shall specify brands/models of the goods proposed and manufacturer's technical literature/catalogue, all confirming that the offered items comply with the specifications. | ☐ Yes ☐ No |  |
| 6.2 | The Contractor shall provide at least a 5 year warranty for proposed equipment from the date of the goods acceptance according to the Acceptance Acts and respective certificates against material and manufacturing defects to include all applicable pass through warranties. Warranty shall include the scope and execution scenario. | ☐ Yes ☐ No |  |
| 6.3 | The Contractor shall provide warranty service from the acceptance date according to the Acceptance Acts and respective certificates. The name of the company, address, telephone- and fax numbers, and Email address for this service shall be specified in all offers. | ☐ Yes ☐ No |  |
| 6.4 | The Contractor shall disclose to UNOPS whether it is subject to any sanction or temporary suspension imposed by any organisation within the World Bank Group. | ☐ Yes ☐ No |  |
| 6.5 | As provided by Art. 3.3(a) of the UNOPS Procurement Manual, Contractors covered by the Cabinet of Ministers of Ukraine Decree No. 187 (3 March 2022) and Decree No. 1178 (12 October 2022), which the bridges recipient is required to comply with, will be ineligible to be awarded a contract and otherwise excluded from procurement process. The Contractor shall provide the scheme of its ownership, including disclosing the ultimate beneficiaries, to demonstrate compliance with this clause. | ☐ Yes ☐ No |  |

\*Not a mandatory requirement.

| **2.2. Delivery requirements UNOPS Requirements** | | **Is bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| --- | --- | --- | --- |
| **Delivery time** | The Bidder shall deliver the goods as soon as possible but not later than within 45 days after the contract award for the first batch of goods (30% of the contracted scope) and within 120 days after the contract signing for all the goods. Partial delivery of the goods in batches within this period is acceptable. Bidders must provide a delivery schedule. | ☐Yes ☐ No |  |
| **Delivery place and Incoterms rules** | DDP Lvivska oblast, Ukraine.  Delivery Address will be provided to the successful Bidder.  The Bidder will be responsible for covering the demurrage costs, if any. | ☐Yes ☐ No |  |
| **Consignee details** | Consignee details will be provided.  The Bidder will be responsible for offloading and bringing the goods to the Consignee’s storage. | ☐Yes ☐ No |  |
| **UNOPS Right to vary requirements** | At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed +/- 20%, without any change in the unit prices or other terms and conditions of the RFQ. | ☐Yes ☐ No |  |
| **Warranty** | **The warranty shall be provided from the date of acceptance according to the Acceptance acts and the respective certificates.**  The installation and assembling will be provided by the consignee under the supervision of the Bidder.  Within the warranty period, the selected Bidder’s authorised service centre shall provide maintenance and/or repair services to the equipment operation site not later than 10 (ten) workdays from the date of receipt of written or Email notification from the Consignee. The title of the service centre, its address, telephone- and fax numbers, and Email address must be mentioned in the bid. The service centre shall have at least one person with the knowledge and expertise in the operation of the modular bridge system in its staff. All costs connected with warranty maintenance shall be covered by the Bidder. Other warranty-related details shall be provided by the Bidder in the warranty scenario.  Any items found unacceptable shall be returned and changed at no costs to UNOPS. | ☐Yes ☐ No |  |
| **Packing standards** | Bidder shall remain liable for the packing and consistency of the items supplied for the period of shipment and acceptance for use.  Bidder shall ensure the packing standards of goods supplied as described in 1.1. | ☐Yes ☐ No |  |

**2.3. Inspections and tests**

The following inspections and tests shall be performed:

(i) The Supplier shall perform all needed tests before the shipment to confirm that the goods meet the Purchaser requirements. Documented confirmation of such tests has to be sent to the Purchaser before the shipment;

(ii) The Purchaser will check the availability of Compliance Certificates issued for equipment supplied;

(іii) The Purchaser (with the assistance of the Supplier) will check the functionality/operability and the compliance of main characteristics of all items of equipment with Technical Requirements. If the consumables should be used for equipment checking - they must be provided by the cost of the Supplier.

UNOPS or its representative may inspect and/or test any or all items of the goods to confirm their conformity to the contract, prior to dispatch from the supplier’s premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the goods on receipt at destination.

If the goods fail to meet the laid down specifications, the Supplier shall take immediate steps to remedy the deficiency or replace the defective goods to the satisfaction of the purchaser.

**3. Scope of Assignment**

The selected Supplier will work under the overall supervision of the UNOPS project manager or his appointee.

The selected supplier should deliver bridging systems as specified in the Delivery Requirements.

The Supplier will submit the comprehensive training course program for approval.

The target audience of the course will be identified by the Beneficiary.

**4. Expected Outputs**

The Supplier will be responsible for the delivery of the outputs listed below.

Stage 1. Delivery of the first batch of goods due within 45 days from the date of the contract signing in the scope of 30% of the total contracted scope.

Stage 2. Provision of the comprehensive training on the installation in English with translation into Ukrainian and/or Ukrainian, report on the training.

Stage 3. Delivery of the rest of the goods.

**5. Key Personnel**

The team, proposed by the Supplier for the performance of the assignment of this Schedule of Requirements, should include the following key personnel (minimum requirements):

At least 3 Field Service Representative (FSR) with minimum qualification as stated in the section 2 Technical requirements.

**6. Performance Schedule**

The goods and services will be delivered from December 2023 to March 2024 (tentative period). Should delays occur for any reason, the Contractor shall inform UNOPS project manager thereof in writing on the next business day after the occurrence of the circumstances which may cause delay in delivery.

**7. Schedule of Payments**

1. The first payment will be made after delivery and acceptance of the first batch of goods and submission of the payment documents.
2. Second payment will be made after the provision of the onsite training on the installation, submission of the training report by the supplier and acceptance of the report by UNOPS.
3. Next payment(s) will be made upon delivery and acceptance of the batches of the goods.