**Section II: Schedule of Requirements**

**eSourcing reference: ITB/2019**/**9165**

1. **Technical specifications for Goods and Comparative Data Table**

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| **Item No** | **UNOPS minimum technical requirements** | **Qty.** | **Is bid compliant?** Bidder to complete | **Details of goods offered.** Bidder to complete |
| 1 | **ORION X-500 Radio Systems** | | | | |
| Full-featured 3-channel dual MIMO radio system with encryption. Includes Band 3+, Band 4, simultaneous PTP & PMP and Wi-Fi. | 9 | ☐ Yes ☐ No | Insert details of goods offered, including specifications and brand/model offered if applicable  Please Insert Part No. |
| Mast adapter for 3-channel radio, 40 mm (1.6’’) mount. |  |  |
| Network interface unit without FO interface. Includes lightning arrestors and PoE. |  |  |
| In-line lighting arrestor. |  |  |
| Interunit cable with reel, 3-channel radio to networking equipment, 50 m (164') (uses 217-817145-050). |  |  |
| N1000/B210 AC power cable, 230V, 1.8 m (6'). |  |  |
| N1000/B100 data cable, 3 m. |  |  |
| CAT5e Cables, straight, 20 ft. |  |  |
| Wi-Fi antenna, dual band, 2.4/5.8 GHz. Recommended quantity of 2 to support MIMO. |  |  |
| Universal parabolic dish antenna reflector, 0.77 m (30’’). |  |  |
| Band 4 feed horn for universal parabolic dish antenna. |  |  |
| Band 3+ feed horn for universal parabolic dish antenna. |  |  |
| Band 4 omnidirectional spring-mount antenna, MIMO, 9 dBi. |  |  |
| Mast adapter for Band 4 sector omnidirectional antenna. |  |  |
| Band 4 sector antenna for 120° coverage, MIMO. |  |  |
| Mast adapter for Band 4 sector antenna. |  |  |
| Antenna cable, N to N, 3 m (9.8'). |  |  |
| Antenna rotator, single manual, 51 MM-F/50MM-M 360. |  |  |
| Mast, telescopic (15m). |  |  |
| Mast adapter for lower parabolic antenna. |  |  |
| Transit case (Vehicles Adaptation Equipment). |  |  |
|  | Carrying case for B4 dual polarized omnidirectional antenna, B4 dual polarized sector antenna, and associated cables. |  |  |
|  | Storage box (4x Antenna Feed-horns). |  |  |  |
|  | Radio Opr/Unit Maintenance Manual. |  |  |
|  | Site Manual for Jordan. |  |  |

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| **Spares** | | | | |
|  | Full-featured 3-channel dual MIMO radio system with encryption. Includes Band 3+, Band 4, simultaneous PTP & PMP and Wi-Fi. | 2 |  |  |
| Network interface unit without FO interface. Includes lightning arrestors and PoE. |  |  |
| In-line lighting arrestor. |  |  |
| Interunit cable with reel, 3-channel radio to networking equipment, 50 m (164') (uses 217-817145-050). |  |  |
| N1000/B210 AC power cable, 230V, 1.8 m (6'). |  |  |
| N1000/B100 data cable, 3 m. |  |  |
| Wi-Fi antenna, dual band, 2.4/5.8 GHz. Recommended quantity of 2 to support MIMO. |  |  |
| Universal parabolic dish antenna reflector, 0.77 m (30’’). |  |  |
| Band 4 feed horn for universal parabolic dish antenna. |  |  |
| Band 3+ feed horn for universal parabolic dish antenna. |  |  |
| Band 4 omnidirectional spring-mount antenna, MIMO, 9 dBi. |  |  |
| Band 4 sector antenna for 120° coverage, MIMO. |  |  |
| Antenna cable, N to N, 3 m (9.8'). |  |  |
| Antenna rotator, single manual, 51 MM-F/50MM-M 360. |  |  |
| Mast, telescopic (15m). |  |  |

1. **Delivery requirements and Comparative Data Table**

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| --- | --- | --- | --- |
| **UNOPS Requirements** | | **Is bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| **Delivery time** | Bidder shall deliver the goods after 6 – 8 months for equipment delivery on CPT bases from Contract signature. | ☐ Yes ☐ No | Insert details |
| **Delivery place and Incoterms rules** | CPT Queen Alia International Airport 2010 | ☐ Yes ☐ No | Insert details |
| **Consignee details** | TBC | ☐ Yes ☐ No | Insert details |
| **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 +/- 30% , without any change in the unit prices or other terms and conditions of the ITB. | ☐ Yes ☐ No | Insert details |

1. **Related services requirements**

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| **Service** | **UNOPS minimum requirements for services** | **Qty** | **Physical unit** | **Place where services will be performed** | **Final completion date(s) of services** |
|
| 1 | In-Country Training - 1 week for up to 6 persons. | 1 | Week | Amman - Jordan | Before End of September, 2019 |
| 2 | In - Country System Integration This in-country integration will be for 3 weeks duration. It will require 15 working days for:    · 11 days of site visits (1 day set-up and tear-down assistance at each tower); and  · 4 days for troubleshooting between towers and establishment of battery re-supply and equipment storage Standard Operating Procedures.    The Integration team will visit each tower to help JAF install radios. Focus will be on initial set-up and teardown of radios as well as communications between towers. This will ensure the JAF are able to re-install radios once the Border Tower Rehabilitation project kicks off and the towers are under construction. The scope of what needs to be provided is:    · One day site visit at each tower to help with set-up of radios;  · Trouble-shooting period to ensure proper communication between towers;  · Demonstrate takedown of radios at each tower;  · Establish proper procedures for charging and replacing batteries;  · All support and training will be offered in English and Arabic;  · Team of 2 pers min; and  · Identify proper storage procedures for all spare equipment. | 3 | weeks | Jordan | End of August, 2019 |

1. **Inspections and tests**

The following inspections and tests shall be performed:

The vendor must have the goods inspected in the manufacturer’s works by a competent authority and submit a test certificate and also a guarantee/warranty certificate that the goods conform to written specifications.