# Tender number: 1/2016

## Section 1 – Introduction to the SOW

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# SOW for Customs Site at Jordan- River Terminal

1. Introduction

This SOW (Statement of Work) constitutes for a Turn Key Project (TKP) the planning, construction, installation and maintenance of a complete facility designated for security and customs checks of cargo and vehicles by means of radiography inspection.

1.1 Location

The facility shall be erected as part of the Jordan River border crossing point.

1.2 Definitions

1.2.1 Client/Customer - The Client/Customer is the Israeli Ministry of Finance/Israel Tax Authority (I.T.A.).

1.2.2 Contractor – the company with whom the contract, for executing the project of cargo inspection site, is signed as result of this tender.

1.2.3 TP – Tender Publication

1.2.4 Site operator - The facility shall be operated by the I.T.A

1.2.5 Israel Police – Security issues of site operation shall be under the guidance of the Israeli Police.

1.2.6 IAA – Israel Airports Authority- Land owner of the ITA site

1.2.7 CR/CTA – Client's Representative / Client’s Technical Advisor. Performance of the work as required by this SOW shall be supervised by the CR/CTA.

1.3 Work Contents Highlights

1.3.1 The Client hereby orders, and the awarded company is obligated to supply the site, the design, the systems and the services as specified in this document.

1.3.2 The Contractor, following contract sign, will perform the required works in order to provide the Client with a fully operational site, as defined here and after.

1.3.3 The work contents highlights of this TKP include supply and implementation of:

1.3.3.1 Detailed site and systems design, Design review meetings

1.3.3.2 Civil works and building construction, including all infrastructures

1.3.3.3 Systems manufacturing

1.3.3.4 Equipment transportation, release from ports, etc.

1.3.3.5 Installation of the screening system, defined traffic control systems, safety and security systems and all auxiliary subsystems

1.3.3.6 Acceptance Tests

1.3.3.7 Training sessions and Pilot

1.3.3.8 Service and Maintenance for 10 years – defined in the annex.

1.4 Document Description

This document defines the required scope of the work as follows:

1.4.1 Section 1 - Introduction

1.4.2 Section 2 - General provisions

Description of project outlines and project procedures

1.4.3 Section 3 - Site Operational procedures

Description of the processes taking place in the site's designated environment, and how the screening system shall be integrated into them

1.4.4 Section 4 - Required main assemblies

Description of the site and its main components

1.4.5 Section 5 – The Radiography System:

Description of system's minimal requirements, testing procedures, and performance evaluation methods;

1.4.6 Section 6 – Technical Specifications

Systems design principles, guidelines and specifications.

1.5 Schedule

The schedule for implementation of the work as required by this SOW shall be not longer than **25 calendar months** After Effective Date of Contract (AEDC). This time period shall cover all the stages of detailed planning needed, required export and import licenses, certifications, construction permit, complete execution of all construction works and radiographic system facilities including auxiliary systems as detailed in this SOW, and success in meeting the requirements of the Final Acceptance Test.

1.6 Mandatory Requirements

1.6.1 Bidder / Contractor Qualifications (defined in the contract)

1.6.1.1 Have proven experience, either directly or with the aid of Sub-contractors, in delivery of a Turn Key Project (TKP) for a complete inspection site, including planning, construction, installation and maintenance of complete radiographic facility for cargo checks utilizing high-energy x-ray inspection.

In the event that a consortium of companies possesses the required accumulated experience, it will be clearly stated who is the main contractor. A copy of the written agreement between the members of the consortium must also be submitted with the proposal.

1.6.1.2 Have proven experience of at least three (3) years (2013-1015) in manufacture, supply, operation and maintenance of an operational working system of the following scanning configuration (Gantry): the emission and detector subsystems move along a static object, utilizing x-ray emission subsystem with energy higher than 4 MeV.

1.6.1.3 Have the ability to provide comprehensive Service and Maintenance for the radiography system.

1.6.2 Radiography System Minimal Requirements

1.6.2.1 The radiography system and all auxiliary systems will comply with Israeli law and regulations

1.6.2.2 The radiographic system will be able to scan and image an object, with dimension equal to two (2) loaded trucks, each of total length of up to 21m, and to display the image of each one on the screen without any distortion or corner cut-off.

1.6.2.3 The System Minimum Performance, expressed in parameters defined in chapter 5 of this SOW, shall be:

1.6.2.4 Ultimate Penetration

The Ultimate Penetration will be at least 400 mm Stainless Steel, at least at two different locations (out of the 9 defined positions) measured at the standard (nominal) scan velocity.

The Ultimate Penetration will be at least 330mm at each of the defined 9 positions measured at the standard (nominal) scan velocity.

1.6.2.5 Resolution

Wire resolution, when measured at the middle of the object at height corresponding to the center of the beam (best position) will be, at least:

- 2% for 100mm clutter (2mm Stainless Steel wire behind 100mm of Stainless Steel)
- 2.5% for 200mm clutter (5mm Stainless Steel wire behind 200mm of Stainless Steel)

1.6.2.6 Material Discrimination

Material Discrimination mode, differentiating between organic and inorganic material, shall be an integrate part of the system. It will be able to distinguish materials such as organic material and inorganic material and mark them by different colors.

The material discrimination application, designated to improve image analysis, will not significantly deteriorate the operational capabilities (for example: inspection times, penetration and resolution) of the screening system

#### 1.6.2.7 Throughput

The Radiography system will be able to inspect at least 20 objects / hour.

## 1.7 Acronyms and Abbreviations

| | |
|---|---|
| AEDC | After Effective Date of Contract |
| CC/CCR | Container Code / Container Code Recognition |
| CCTV | Closed Circuit Television |
| CDR | Critical Design Review |
| CQCS | Contractor's Quality Control System |
| CIW | Check-In Workstation |
| COW | Check-Out Workstation |
| CR/CTA | Client's Representative /Client's Technical Advisor |
| DR | Design Review |
| DDR | Detailed Design Review |
| EC | Evaluating Committee |
| FCS | Facility Control System |
| FAT | Factory Acceptance Test |
| GOI | Government of Israel |
| IAA | Israel Airports Authority |
| IAW | Image Analyst Workstation |
| IDS | Intrusion Detection System |
| ITA | Israel Tax Authority |
| LP/LPR/ALPR | License Plate Number/Automatic License Plate Recognition |
| OCR | Optical Character Recognition |
| OM | Operation & Maintenance |
| PA | Public Address |
| PDR | Preliminary Design Review |
| QC | Quality Control |
| RCW | Re-Check Workstation |
| RCS | Radiography Control System |
| SAT | Site Acceptance Test |
| SDMS | Shipment Directing and Monitoring System |
| SO | System Operator |
| SOW | Statement Of Work |
| TCS | Traffic Control System |
| TKP | Turn Key Project |
| UPS | Uninterrupted Power Supply |
| WS | Workstation |