

## REQUEST FOR EXPRESSION OF INTEREST (EOI)

This notice is placed on behalf of UNON. United Nations Procurement Division (UNPD) cannot provide any warranty, expressed or implied, as to the accuracy, reliability or completeness of contents of furnished information; and is unable to answer any enquiries regarding this EOI. You are therefore requested to direct all your queries to United Nations Office at Nairobi using the fax number or e-mail address provided below.

**Title of the EOI:**

PILOT AND FIELD TESTING OF NON THERMAL POPS DESTRUCTION TECHNOLOGY IN CENTRAL ASIA.

**Date of this EOI:** 29 November 2019

**Closing Date for Receipt of EOI:** 20 December 2019

**EOI Number:** EOIUNON17000

**Address EOI response by fax or e-mail to the Attention of:** Margaret Muchuku

**Fax Number:** N/A

**E-mail Address:** margaret.muchuku@un.org, unon-procurement-rfx@un.org

**UNSPSC Code:** 76121900

### DESCRIPTION OF REQUIREMENTS

The United Nations Office at Nairobi (UNON) on behalf of UN Environment Programme invites qualified Firms to participate in a prequalification process for the upcoming competitive tender process for Provision of In-country treatment of POPs Waste in Central Asia. This requirement involves piloting, optimization, supply and operation of a non-thermal destruction option in Central Asia.

#### 1. BACKGROUND:

With the objective of assisting countries in satisfying their obligations set out under the Stockholm Convention a project is being implemented in the Central Asian republics of Tajikistan and Kyrgyzstan . The aim of the project is the excavation, pre-treatment and irreversible transformation / destruction of 5000 metric tonnes of DDT and other POPs chemicals plus associated contaminated materials. Both countries currently have no suitable destruction technology to dispose of POPs waste in accordance with standards set out in the Basel and Stockholm Conventions.

In addition, geographic isolation (both are land locked) and inability to move waste across the Eurasian Customs Union countries mean that the option of export to a licensed facility operating outside the region are severely restricted. The exportation of 5000 metric tonnes of waste will also incur excessive transport costs plus the associated carbon footprint which needs to be considered as part of any submission proposed by the vendor. Consequently, UNEP in partnership with the Global Environment Facility (GEF) are providing the opportunity for technology vendors to propose the demonstration of equipment to effectively and efficiently address the challenges posed by this project in both countries. For the purposes of this demonstration a non-thermal treatment will be selected. The vendor will also be required to include all

necessary pre-treatment equipment to allow the processing of the waste using the selected technology.

The contract will be delivered in a series of phases. Each phase will have a discrete set of deliverables and milestones which must be met to allow progression to the next stage of the overall contract.

Phase 1: will trial the technology in a laboratory environment using pilot equipment and waste simulants to establish basic feasibility of destruction and define fundamental operational parameters such as power demand, destruction efficiency, water requirements, reagent costs, pre-treatment requirements. Detailed scope to be provided during the consecutive solicitation exercise;

Phase 2: will define and test a pretreatment and waste handling mechanism to ensure the waste can be processed by the proposed technology. To include equipment specifications and supply of a single system plus trials on similar waste matrices to those found in both countries. Detailed scope to be defined in the consecutive solicitation exercise;

Phase 3: pilot scale operation of a complete system for pre-treatment and disposal using waste simulants. The vendor will also provide detailed specifications of preparatory ground works and services to be provided at the site of operation to allow for preparation prior to operations. This will be followed by deployment of the technology plus pre-treatment to one of the countries of operation;

Phase 4: demonstration of the technology deployed above in Phase 3 in one country of operation to include operational optimization in local conditions, training of operatives to run and maintain the equipment and provision of all site management and operational standard procedures in English and Russian. Supplier also required to provide a vented enclosure in which the treatment system will be housed to include dust suppression;

Phase 5: scale-up of deployment to allow for multiple processing lines at the site of operation. On-going technical support and annual maintenance and optimization of processing system. The scale up will be accompanied by the establishment of a solar array to offset energy demand for the operation of the facility

## 2. ASSIGNMENT OBJECTIVE

The primary objective is to conduct a demonstration of the capability of a non-thermal technology to destroy organochlorine pesticide wastes (such as the pesticide DDT) and associated heavily contaminated materials excavated from burial pits located at two ex-Soviet landfill/ polygon locations in the Central Asian republics of Kyrgyzstan and Tajikistan.

## 3. SERVICES TO BE PROVIDED

The following services are to be provided:

### Phase 1:

- Simulation of representative waste materials
- Laboratory / bench-top feasibility testing of a non thermal technology using the simulants
- Detailed performance monitoring of the destruction process using conventional laboratory technology at an ISO registered analytical laboratory
- Monitoring for potential by products of the process including dioxins and furans using conventional laboratory technology at an ISO registered facility

### Phase 2:

- Design of a complete pre-treatment and waste handling regime for pre-processing of wastes to allow subsequent processing by the proposed technology;
- Supply and testing of pre-treatment regime with laboratory verification that the system produces homogenous waste feed suitable for processing by the proposed technology;

### Phase 3:

- Supply, assembly and testing of a single full size plant and associated equipment (back up power supply, pre-treatment and disposal technology) with full operational optimization.
- Testing on waste simulations in country of supply;

- Definition of all supporting ground works and utility requirements for supply at locations of operation;

Phase 4:

- Deployment of complete system and additional equipment to country of operation;
- Commissioning of complete system;
- Optimization of operating system;
- Training of local operatives;
- Supply of all finalized manuals and procedures in English and Russian;
- Operation of facility for 3 months with handover to local team;
- 6-month supervision of operations via periodic site visits;

Phase 5:

- Provision of servicing and planned maintenance;
- Scale-up of operations and supply of additional processing / pre-treatment units as required;
- Provision of power off-set solar array.

### SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)

The purpose of this EOI is to pre-qualify potential vendors who will be invited to participate in the upcoming tender exercise. Below is the criteria that will be used to pre-qualify the Vendors:

1. Vendors have Intellectual Property over a proven (commercially available) non-thermal treatment process (for destruction of POPs wastes) or have operated said technology under license or as an authorized supplier;
2. Vendors have deployed said technology under field conditions and operated the technology successfully to destroy POPs or similar wastes;
3. Vendors have experience in three separate projects on developing bespoke solutions under a variety of conditions to meet the specific needs of clients, to include waste handling and pre-treatment;
4. Vendors are able to provide a testimonial from 3 former clients for the above works described.

Pre-qualification documents should be submitted to the following email address: [margaret.muchuku@un.org](mailto:margaret.muchuku@un.org), with a copy to [unon-procurement-rfx@un.org](mailto:unon-procurement-rfx@un.org). Only those vendors who meet the above criteria will be pre-qualified and invited to participate in the tender exercise.

Vendors must be registered and accepted at Level 2, prior to award, under the United Nations Secretariat in United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)). See the Vendor Response Form of this EOI for additional instructions.

UNON reserves the right to change or cancel the requirement of this EOI at any time during the EOI and/or solicitation process. Thus, submitting a reply to this EOI does not automatically guarantee your company will be considered for receipt of the solicitation when issued. Only Vendors which in UN's sole discretion are deemed eligible and qualified upon completion of an objective evaluation of their EOI submissions may receive the final tender solicitation document

### NOTE

Information on tendering for the UN Procurement System is **available free of charge** at the following address: <https://www.ungm.org/Public/Notice>

Only the United Nations Global Marketplace (UNGM) has been authorised to collect a nominal fee from vendors that wish to receive automatically Procurement Notices or Requests for Expression Of Interest.

Vendors interested in this Tender Alert Service are invited to subscribe on <http://www.ungm.org>

***Vendors interested in participating in the planned solicitation process should complete/submit the Vendor Response Form of this EOI either electronically (through the link available on the next page) or send it via fax or e-mail to United Nations Office at Nairobi (UNON) before the closing date set forth above.***

# VENDOR RESPONSE FORM

**TO:** Margaret Muchuku **EOI Number:** EOIUNON17000

**Email:** margaret.muchuku@un.org, unon-procurement-rfx@un.org

**FAX:** N/A

**FROM:**

**SUBJECT:** PILOT AND FIELD TESTING OF NON THERMAL POPS DESTRUCTION TECHNOLOGY IN CENTRAL ASIA.

## NOTICE

- Companies can only participate in solicitations of the UN Secretariat after completing their registration (free of charge) at the United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)).
- As you express interest in the planned solicitation by submitting this response form, please verify that your company is registered under its **full legal** name on the United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)) and that your application has been submitted to the UN Secretariat.
- We strongly recommend all companies to register at least at **Level 1** under the United Nations Secretariat prior to participating in any solicitations.

**PLEASE NOTE: You can express your interest to this REOI by filling out this form manually or electronically (recommended) at:**

<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=EOIUNON17000>

*To be completed by the Vendor (All fields marked with an '\*\*' are mandatory)*

## COMPANY INFORMATION

**UNGM Vendor ID Number\*:**

**Legal Company Name** (Not trade name or DBA name) \*:

**Company Contact \*:**

**Address \*:**

**City \*:**

**State:**

**Postal Code \* :**

**Country \*:**

**Phone Number \*:**

**Fax Number \*:**

**Email Address \*:**

**Company Website:**

We declare that our company fully meets the prerequisites A, B, C, D, E and F, for eligibility to register with the United Nations as outlined in the paragraph 1 of the EOI INSTRUCTIONS page.

Signature : \_\_\_\_\_

Date: \_\_\_\_\_

Name and Title : \_\_\_\_\_



## EOI INSTRUCTIONS

### 1) Registering as a Vendor with the United Nations

Vendors interested in fulfilling the requirement described above must be registered at the UN Global Marketplace ([www.ungm.org](http://www.ungm.org)) with the UN Secretariat in order to be eligible to participate in any solicitation. Information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>.

#### **Prerequisites for Eligibility**

In order to be eligible for UN registration, you must declare that:

- A. Your company (as well as any parent, subsidiary or affiliate companies) is not listed in, or associated with a company or individual listed in:
  - I. the Compendium of United Nations Security Council Sanctions Lists (<https://www.un.org/sc/suborg/en/sanctions/un-sc-consolidated-list>), or
  - II. the IIC Oil for Food List website or, if listed on either, this has been disclosed to the United Nations Procurement Division in writing.
- B. Your company (as well as any parent, subsidiary or affiliate companies) is not currently removed or suspended by the United Nations or any other UN organisation (including the World Bank);
- C. Your company (as well as any parent, subsidiary or affiliate companies) is not under formal investigation, nor have been sanctioned within the preceding three (3) years, by any national authority of a United Nations Member State for engaging or having engaged in proscribed practices, including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice;
- D. Your company has not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against your company that could impair your company's operations in the foreseeable future;
- E. Your company does not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with the Vendor in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15).
- F. Your company undertakes not to engage in proscribed practices (including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice), with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN.

**For Registered Vendors:** Vendors already registered at the UN Global Marketplace with the UN Secretariat must ensure that the information and documentation (e.g. financial statements, address, contact name, etc.) provided in connection with their registration are up to date in UNGM. Please verify and ensure that your company is registered under its full legal name.

**For Vendors Interested in Registration:** Vendors not yet registered should apply for registration on the United Nations Global Marketplace (<http://www.ungm.org>); information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>. Vendors must complete the registration process prior to the closing date of the REOI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the REOI are not considered eligible to participate in solicitations of the UN Secretariat. We strongly recommend all companies to register at least at Level 1 under the UN Secretariat prior to participating in any solicitations.

**IMPORTANT NOTICE: Any false, incomplete or defective vendor registration may result in the rejection of the application or cancellation of an already existing registration.**

### 2) EOI Process

Vendors interested in participating in the planned solicitation process should forward their expression of interest (EOI) to United Nations Office at Nairobi (UNON) by the closing date set forth in this EOI. *Due to the high volume of communications UNON is not in a position to issue confirmation of receipt of EOIs.*

Please note that no further details of the planned solicitation can be made available to the vendors prior to issuance of the solicitation documents.

This EOI is issued subject to the conditions contained in the EOI introductory page available at <https://www.un.org/Depts/ptd/eoi>.