



United Nations Mission in South Sudan (UNMISS)

REQUEST FOR INFORMATION (RFI)

This notice is placed by UNMISS. The accuracy, reliability and completeness of the contents of furnished information is the responsibility of United Nations Mission in South Sudan (UNMISS). You are therefore requested to direct all queries regarding this RFI to United Nations Mission in South Sudan (UNMISS) using the fax number or e-mail address provided below.

Title of the RFI:

Request for information for provision of containerized mobile solar plants to UNMISS at UNMISS at various locations in the Republic of South Sudan.

Date of this RFI: 1 February 2021

Closing Date for Receipt of RFI: 25 February 2022

RFI Number: RFIUNMISS19375

Beneficiary Country/Territory: South Sudan

Commodity/Service category: Engineering Design and Construction

Address RFI response by fax or e-mail to the Attention of: nancy.kisombe@un.org;chaka@un.org

Fax Number: N/A

E-mail Address: nancy.kisombe@un.org;chaka@un.org

UNSPSC Code: 26131500

DESCRIPTION OF REQUIREMENTS

1 Background

The United Nations Mission in South Sudan (UNMISS) is a peacekeeping mission operating in the Republic of South Sudan. UNMISS would like to acquire containerized mobile solar plants (at least 28 kWp with at least 60 kWh battery storage for each unit) that is a self-sufficient power supply to support UNMISS during day-to-day operations.

The Contractor shall provide a detailed Operation and Maintenance Manual in English Language for the plant, that includes but not limited to troubleshooting activities; routine maintenance activities and schedule; setting up and installation guide with pictures; decommissioning activities; and transportation guide. The plants shall be easily connected on-grid or off-grid with minimal configuration effort. The plants must be modular such that any number of units can be interconnected.

A primary aspect for consideration shall be the need of ease of assembly/disassembly and installation without specialized tools/equipment and without high skilled manpower, optimizing the number of assembly/installation steps with separate items reduced to a practicable, shipment weight.

The plant should have a quick and easy installation process and operate on the plug-and-play principle. The plant must have minimal site preparation activities with unskilled laborers



.2 General Features

The required plant shall meet the following main parameters:

- a).The containerized mobile solar plant should have a minimum capacity of 28 kWp.
- b).The proposed containerized mobile solar plant must fit within a 20-foot ISO Sea Container.
- c).The plant must be a complete fully integrated containerized conversion power system that includes inverters and a lithium battery system that is pre-installed in a ventilated control room within the 20-foot container.
- d).The plant must be modular, in that the plants can be interconnected with little to no extra works to increase the capacity.
- e).The plant shall have enough battery storage to be able to work and support autonomously for a day without sunlight.
- f).The plant must have an allocation for the installation of a diesel generator to be provided by UNMISS during the installation of the plant. UNMISS runs FG Wilson generators so the proposed system should be compatible with FG Wilson generators. The vendor shall include the specifications of the diesel generator needed to optimally run the plant.
- g).The technical proposal should describe in detail the minimum components of the proposed system:
- h).Hybrid Inverter: Automatic Load Transfer, Bypass.
- i).Lithium Battery Storage System: 60kWh Battery Energy Storage System comprising of scalable LiFePO4 Lithium-ion Phosphate Batteries complete with Battery Management System. Minimum of 4,000 cycles with approximately 15 years of service life.
- j).Solar PV Subsystem: Monocrystalline modules
- k).Solar PV Ground Mounting Steel Structure unit.
- l).Balance of System Components
- m).Simple Networking Management Protocol (SNMP) card for remote monitoring
- n).ISO Standard 20-foot container equipment enclosure, fully equipped with environmental controls for optimal functioning of all equipment in harsh hot weather.

3 Information Required

Each vendor should provide the following information on containerized mobile solar farms that they offer:

- a).Technical specifications of the various components
- b).Technical drawings or layout of their product
- c).A brief description of the installation process
- d).Product catalog with pictures
- e).List of components that make up their system
- f).Range of costs for a configured containerized solar plant



SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)

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 a potential future solicitation process should submit the Vendor Response Form of this RFI electronically (through the link available on the next page) before the closing date set forth above.



VENDOR RESPONSE

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).
- Please verify that your company is registered under its **full legal** name on the United Nations Global Market Place (www.ungm.org) and that your application for registration as vendor has been submitted to the **UN Secretariat** in the same site, to be able to participate in any potential solicitation process as a result of this RFI.
- While companies can participate in solicitations after completion of registration at Basic Level, 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 should submit your response to this RFI electronically at:
<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=RFIUNMISS19375>

In case you have difficulties submitting your response electronically, please contact nancy.kisombe@un.org; chaka@un.org directly for instructions.



RFI 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) 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 RFI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the RFI are not considered eligible to participate in the potential solicitation process related to the RFI. 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) RFI Process

Vendors interested in participating in the potential solicitation process should forward their information (as requested in the RFI) to United Nations Mission in South Sudan (UNMISS) (UNMISS) by the closing date set forth in this RFI. *Due to the high volume of communications UNMISS is not in a position to issue confirmation of receipt of RFIs.*

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

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

