Section II: Schedule of Requirements

eSourcing reference: RFQ/2018/6500

**Technical specifications for Goods and Comparative Data Table:**

***General specs of all below required items***

* **Multi-light kit with mobile phone charging**
* **Multi-light kit with mobile phone charging, radio and/or portable light**
* **Multi-light kit with mobile phone charging and a fan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No** | **UNOPS minimum technical requirements** | **Is quotation compliant?** Bidder to complete | **Details of goods offered.** Bidder to complete |
| 1 | Products in all three categories shall include the following:   * PV module suitable for outdoor installation * A central control unit with integrated battery designed for fixed indoor installation * Fixed light points that are designed for indoor installation * Other accessories such as cables and switches. | Yes  No | Insert details of goods offered, including specifications and brand/model offered if applicable |
| 2 | The PV module maximum power point voltage and the working voltage of any other components in the kit shall not exceed 35V DC. AC inputs may exceed this limit. |  |  |
| 3 | The kit shall support DC loads only. No inverters, systems with AC outputs/outlets, or AC appliances are accepted. |  |  |
| 4 | The peak power rating of the PV module shall be less than 350 W. |  |  |
| 5 | All connections shall be ‘plug-and-play’; no technicians or electricians are necessary to install and operate the system safely and successfully |  |  |
| 6 | Fee-for-service or Pay-as-you-go (PAYG) enabled products shall be in “unlocked” mode so that the systems are fully operational without the need for payment, entry of codes, network connectivity, etc |  |  |
| 7 | Qualifying products shall be Lighting Global quality-certified (i.e. meet the [Lighting Global Quality Standards](https://www.lightingglobal.org/quality-assurance-program/our-standards/)), and have a valid Verification Letter at the time of submission of bids. |  |  |
| 8 | The minimum warranty period from the time of purchase by the end-user is at least:  • 2 years for the main system, including the PV module, control unit, cables and lights and the system battery. (Note that batteries included within appliances are only required to meet the 1-year warranty). The battery warranty is assumed to include a capacity retention figure of at least 80% at two years, benchmarked to the advertised battery capacity and/or the battery capacity presented in the Lighting Global test report, whichever is higher. |  |  |
| 9 | One (1) year for all lighting appliances that include their own batteries (including pico-power lights), all non-lighting appliances, USB charging adaptors and similar accessories. |  |  |
| 10 | The warranty must cover, at minimum, manufacturing defects that impede operation under normal use and protection from early component failure. |  |  |
| 11 | The warranty certificates must be available to the end users in writing to understand the terms of warranty prior to purchase. The written information should be available in Arabic and English. Consumer-facing warranties could be included on the product box, or on a user agreement or warranty card that is easily accessed prior to purchase |  |  |
| 12 | A statement must be provided detailing the bidder capability to handle warranty issues and after-sales service in the context of Yemen. This must include how users will access the warranty and the process involved (return to point of purchase/distributor/service center, call or SMS a number, etc.), how the warranty will be executed (repair, replacement, etc.) |  |  |
| 13 | The user manual must present instructions for installation, use, and troubleshooting of the system. Installation instructions must include appropriate placement and installation of the PV module. Basic electrical safety and system maintenance must also be covered. Installation and operation instructions should be presented in Arabic and English with graphics that can be understood by the typical consumer. |  |  |
| **Item No** | **UNOPS minimum technical requirements** | **Is quotation compliant? Bidder to complete** | **Details of goods offered. Bidder to complete** |
| 1 | Lighting: System includes at least two (2) fixed light points intended for indoor use. | Yes  No | Insert details of goods offered, including specifications and brand/model offered if applicable |
| 2 | Mobile Phone Charging: System capable of charging common models of basic mobile phones and smartphones |  |  |
| 1 | Lighting: System includes at least three (3) fixed light points intended for indoor use. |  |  |
| 2 | Mobile Phone Charging: System capable of charging common models of basic mobile phones and smartphones |  |  |
| 3 | Included appliance(s) – Kit must include a radio and/or a portable lamp/torch  **Radio:** AM/FM functionality  Portable (includes internal battery)  Charged via main control unit  **Portable lamp or torch (flashlight):** Portable, hand-held (includes internal battery)  Charged via main control unit  Total light output (luminous flux) greater than 15 lumens |  |  |
|  | Lighting: System includes at least three (3) fixed light points intended for indoor use. |  |  |
|  | Mobile Phone Charging: System capable of charging common models of basic mobile phones and smartphones |  |  |
|  | * **Fan:** Direct current (DC) only   Powered via main control unit |  |  |

* **Other Required Documentation**

The following documents (at a minimum) should be provided:

* Evidence of meeting the technical requirements
  + Valid Lighting Global Standardized Specification Sheet
  + Valid Lighting Global Product Testing Verification Letter
  + Official IEC TS 62257-9-5 test report
* Description of after-sales service and spare parts
  + Suppliers shall describe how products or components that fail under warranty and are returned to them under warranty will be replaced.
  + Suppliers shall detail prices of all spare parts that can be supplied separately, and which will be available to consumers in Yemen. However, these prices will not be part of the financial evaluation; rather it will be used to evaluate the life cycle cost.

**Upon awarding, the supplier will be required to provide;**

* Consumer-facing materials
  + Product packing configuration
  + Product user’s manual (in Arabic and English)
  + Product warranty (in Arabic and English)