

### ANNEX A

### SUPPLY REQUIREMENTS and SPECIFICATIONS

|  |
| --- |
| **ITB/RBAP/2021/001 – Procurement of Multi-Purpose Solar Lamp** |

The suppliers are hereby requested to fill the information in the table below, including:

1. A detailed description of the items offered, responding specifically to the minimum required specifications for each item of the listed below, including pictures/drawings as requested in the ITB cover letter.
2. A clear indication on any deviation from the Requirement. In case of no deviations to the details and minimum specifications required in table below, the Supplier should state ‘no deviations’.

**TECHNICAL SPECIFICATIONS TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Item** | **Minimum Specifications and Requirements** | **Description of Items/Services offered and Supplier’s Statement on Deviations from Requirements** |
| **1** | **Multi-Purpose Solar Lamp** | **General Description:**   1. Multi-Purpose Solar Lamp with Phone Charger. 2. Materials: Polycarbonate, ABS plastic, Steel gooseneck 3. Dimension (with lamp unit stored inside the shade): 15x15x16 cm (depth/width/height) 4. Weight: 700g 5. Customized text and logo of UNHCR printed in full colour may be requested at eventual procurement activity. Art-work amd text will be provided at PO stage.   **Technial Specifications:**   1. Light source 3 x LEDs 2. Light output high 80 lumen/4.5 hours+ 3. Liht output medium 20 lumen/15 hours+ 4. Light output low 5 lumen/100 hours+ 5. Light distribution 360-60 degrees 6. Charging and battery: Solar panel with 4 loops for fixture 1.8W with hardened glass cover. 7. Panel type: Monocrystalline. 8. Output rating 1.7W at 4V 9. Charging time PV 4-8 hours depending on radiation. 10. Charging time AC grid 1.5 hours 11. Battery: 1LifePO batt/1,500 mAh/3.2V 12. Battery protection: self discharge, deep discharge reverse polarity, trickle charge. 13. Estimated life expectancy of the product 50,000 hours/2,000 cycles 14. Warranty: 1 year warranty   **Quality Assurance and ISO certification: All products shall be produced in accordance with or equivalent:**   1. ISO9001 2. ISO14001 3. ILO standards.   **Dangerous/Hazardous Meterial**   1. Lithum ion Batteries Contained in Equipment 2. UN CODE 3481, Class 9 3. Bidder to provide MSDS sheet for reference. |  |
|  | **Packing Requirements** | **GENERAL PACKAGING AND PALLETIZATION REQUIREMENTS**   1. Goods must be packaged in accordance with the provisions of the UNHCR General Conditions of Contract (please refer to Annex D, clause 6.3 Packaging of the Goods), and suitable for transportation to the final destination. 2. Additional Packing and Palletization requirements can complement UNHCR General Conditions of Contract in specific cases by UNHCR Specifications as set forth in RFQs and subsequent Purchase Orders, under the framework of this Frame Agreement. 3. The packing must be of a sturdy export quality and of a commercial standard that will provide adequate protection of the goods for carriage by air, sea and/or road to final destinations worldwide, including remote locations under adverse climatic and storage conditions, and high humidity – i.e. not less than 17kN edge crush resistance with minimum 60% remaining with 90% humidity at a temperature of 40C (tropical conditions). 4. It is the responsibility of the supplier to provide complete packing as required for transportation. Hazardous chemicals and other dangerous goods must be packed and documented according to current legislation applicable. Supplier shall advise dangerous goods information (UN number; class; packing group; proper shipping name) for each item belonging to dangerous goods. 5. All materials are sensitive and shall be kept under secure conditions at all times. 6. Consignment shall be fully palletised. Palletization and packing should be done in the most cost-effective way to minimize freight costs, while complying with the requirements. 7. Each pallet shall be wrapped with a plastic opaque film sufficiently (at least three layers) protecting the cargo from pillage, water and weather conditions. The film shall be at least 25 microns thick and be made of biodegradable or oxo-degradable plastic, as per further below environmental considerations. 8. Further, the top, bottom and edges of the pallets shall be protected by hard cardboard/ plastic angles. Cardboard flat is to be placed on top of the pallet, including the corner boards. Plywood is also acceptable. Metal or strong plastic strapping band should be applied from side to side at two points and from front to back at two points for a total of four bands. The top and bottom should be covered with thick plastic (from top and bottom 25 cm covering) to protect from rain. 9. Both the pallet construction and the packaging units must be strong, able to be stacked to a height of 2 pallets for storage and transport. 10. Pallets should not exceed height as per transport modality required, and avoid unstable palletization or damage of the goods due to excessive height of the pallets. Bidders to advise heights intended and justification, for UNHCR consideration in actual projects. 11. All wood packaging, including pallets and boxes, utilised in any shipment, must have undergone the treatment, marking and documentation required to meet the specifications described in ispm nr 15: guidelines for regulating wood packaging material in international trade, available at [www.ippc.int](http://www.ippc.int). 12. The pallet has to comply with load-resistance minimum of 2000 kg, if the load is compact and evenly distributed across the whole surface of the pallet. 13. The pallet should be stackable, four–way block pallet (euro pallet or equivalent), made of high quality hard wood, sturdy and with tensile strength that can withstand heavy load for a long period. The pallet should also be able to brace several stages of handling i.e. from source to final destination. In addition, the pallet has to be compatible with common types of handling e.g. [forklift](http://en.wikipedia.org/wiki/Forklift), [pallet jack](http://en.wikipedia.org/wiki/Pallet_jack), [front loader](http://en.wikipedia.org/wiki/Loader_(equipment)), etc. The pallets should be designed in such a way that it can easily be loaded and moved on various modes of transport e.g. road, air, sea and in land waters. 14. Dimensions: dimensions of Euro pallet (without load): 1200mm x 800mm x 144 mm (WxLxH). Bidders must enquire in advance for UNHCR’s acceptance, if any different size is intended. 15. Labelling: 16. Appropriate labels should be included in any packages and in each side of pallets as required in each eventual case. 17. The pallets must contain 4 visible labels of A4 size affixed on each vertical side and contain the following information: 18. UNHCR Shipping marks as instructed in Purchase Order 19. UNHCR Purchase Order Number 20. Consignee details and destination 21. Description of contents and quantity per pallet. 22. Pallet number/total number of pallets. |  |

Name of the Supplier: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Authorized signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of authorized signatory: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Functional Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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