

Annex 1

Scope of Work (SoW)

For the Provision of Installation for 725 Solar Street Lights in Aleppo – Syria

Purpose of the Project:

This project aims to implement solar street lighting panels and devices provided by the UNHCR from Aleppo governorate warehouse. The contractor will be responsible for transportation of solar devices and panels from the central warehouse in Aleppo to the designated sites as per locations provided in Annex 6.

The contractor will provide lighting poles including accessories as per details provided in the technical specifications in Annex 2 along with construction of concrete basis (foundations) (1*1*1 meter) including the excavation work, reinforced concrete casting and metallic plates with anchors to fix the lighting poles to the concrete basis. Fixation of light devices and solar panels to the top of the installed lighting poles according to the attached drawings Annex 4.

The scope of work also includes maintenance of existing electrical poles as per details provided in Annex 2 & 3. The scope of maintenance and repair works can be increased or decreased by 10% of the estimated quantities.

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The contractor is responsible to transport all solar devices and solar panels from Aleppo governorate's warehouses to the targeted locations as per the Annex 6. During the implementation, the successful contractor shall provide one unpainted pole's sample to be checked and approved by UNHCR's engineers before starting the full implementation of required works.

The UNHCR's engineers have the right to reject the pole's sample and the contractor is obligated to replace or modify it according to their instructions with corresponding to the technical specifications and drawings as per Annex 2 & 4.

It will be the contractor's responsibility to coordinate with local authorities, electrical department and related Government offices to obtain the needed approval/clearances during the implementation to ensure timely completion of required works. The excavation works shall be started after the coordination and agreement with UNHCR's engineers and the assigned technical committee for monitoring and handing over related to the governmental authorities, in addition to that, the contractor is responsible to provide a detailed map for the actual locations of the installed devices.

Before signing the commence work order with UNHCR, the contractor is responsible to provide a work plan and detailed timeframe contains all work stages (time of fabrication, installation plan... etc.) commensurate with the duration given for the project as a whole and approved by the organization, the contractor shall commit to this schedule. In case of any delay of delivery the delay penalty shall be 0.3 percent for each day of delay is applied to a maximum of 10 percent in the total work order value.

General notes

1. All designs, installation works, and equipment shall comply with local and international regulations and standards including the laws of the Syrian Arab Republic, local authorities, and the standards of the International Electro-technical Commission (IEC). The Contractor shall include for all necessary equipment, materials, and work practices in order to comply with these standards and regulations, even where not precisely specified in this outline specification.
2. The contractor shall submit implementation plan for the required works. This will be subject to the approval of the UNHCR engineer.
3. The Contractor shall submit unit cost for each items as per details provided in the BOQ at Annex-3.
4. Individual prices shall be shown for all separate items of equipment in calculating the totals. Unit rates shall be deemed to include all direct and indirect costs. The Contractor shall provide unit cost for both options regarding the thinness of the metal is poles (**5 mm and 4mm**). Depending on the overall cost, UNHCR will decide which option they will finalize for the poles.
5. The contractor shall limit the measurement of concrete works as indicated in the technical specification at Annex 2.
6. The estimated project completion period is 90 working days from the handover of the site as the service provider should provide a clear works plan within the requested implementation period.
7. UNHCR engineers or third-party will inspect the quality of the work during the implementation phase.
8. The contractor shall ensure that the implemented work shall be in accordance with the technical specifications provided by UNHCR and of high-quality standards.
9. The service provider must check the technical specifications/layouts for accuracy and adequacy. Otherwise, UNHCR takes no risk of the service provider's failure to accomplish the work.
10. The contractor shall include for all necessary equipment, tools, materials, and labour necessary to complete this installation, even where not precisely specified in this specification, the drawings or other documents within this tender.

11. The contractor appoints a minimum number of supervising engineers (one civil engineer, one survey engineer, and one electrical engineer with a minimum of 7 to 10 years of experience in related works) to follow up on the implementation of the project and must obtain the approval of the organization.
12. All installations shall be designed and installed to facilitate inspection, cleaning, and maintenance and to ensure continued operation under conditions prevailing at the site.
13. Any changes to these designs and specifications during the contract works shall be agreed with the UNHCR representative site engineer prior to the commencement of these installations. No payments shall be made for any additional works or changes to any aspect of the contract without prior written agreement.
14. The contractor shall include full site investigations in their system designs, including route surveys, and any other testing necessary to properly design and complete the installations. The contractor shall be responsible for any difficulties encountered in site conditions that could reasonably have been foreseen or investigated.
15. All transport, loading, offloading, lifting, installation, check-out, waste disposal (general waste, debris, materials, etc.) and delivery jobs to the job site is the responsibility of the contractor and must be performed by skilled workers.

ENVIRONMENTAL CONSIDERATIONS

1. All materials used for the installation shall comply with relevant UNHCR environmental policy.
2. All packaging and wastes associated with the installations shall be carefully disposed of in accordance with the laws of Syria.
3. The contractor shall be responsible for ensuring that waste materials, packaging, and any other items associated with these installations, do not get blown or otherwise distributed around the site. They shall also be careful not to create excessive dust or debris in any area. Any costs incurred in cleaning wastes or debris generated by the contractor shall be charged to the contractor.
4. The contractor shall be responsible for repairing and/or replacing anything which has been damaged by the contractor or their sub-contractors within the site/locations. They shall also be responsible for the cleaning of any debris, wastes or other items created during these works.