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INVITATION TO BID

LOT-1 / Provision and Installation of (130) Solar Street Lighting Units in Aleppo City

**LOT-2 / Provision and Installation of (140) Solar Street Lighting Units in Rural
Damascus (Harasta)**

ITB No.: UNDP-SYR-ITB-090-18

Project: **DIM 146**

Country: Syrian Arab Republic

Issued on: 23 September 2018

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Section 1. Letter of Invitation

The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

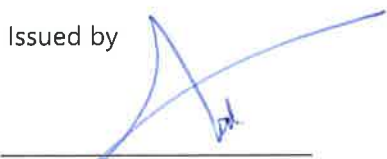
- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Schedule of Requirements and Technical Specifications
- Section 6: Returnable Bidding Forms
 - o Form A: Bid Submission Form
 - o Form B: Bidder Information Form
 - o Form C: Joint Venture/Consortium/Association Information Form
 - o Form D: Qualification Form
 - o Form E: Format of Technical Bid
 - o Form F: Price Schedule
 - o Form G: Form of Bid Security

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Please acknowledge receipt of this ITB by sending an email to Syria.procurement@undp.org, indicating whether you intend to submit a Bid or otherwise. You may also utilize the "Accept Invitation" function in eTendering system, where applicable. This will enable you to receive amendments or updates to the ITB. Should you require further clarifications, kindly communicate with the contact person/s identified in the attached Data Sheet as the focal point for queries on this ITB.

UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement opportunities.

Issued by



Name: Hanan Al Ali

Title: Procurement Associate

Date: **September 24, 2018**

Approved by:



Name: Mirvat Hammoud

Title: Head of Procurement Team

Date: **September 24, 2018**

Section 2. Instruction to Bidders

GENERAL PROVISIONS	
1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (www.ungm.org). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at http://www.un.org/depts/ptd/pdf/conduct_english.pdf</p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by</p>

	<p>these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>
4. Conflict of Interests	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:</p> <ul style="list-style-type: none"> a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process; b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP. <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices. <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>4.4 The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
B. PREPARATION OF BIDS	
5. General Considerations	<p>5.1 In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.</p> <p>5.2 The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the UNDP accordingly.</p>

6. Cost of Preparation of Bid	6.1 The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.
7. Language	7.1 The Bid, as well as any and all related correspondence exchanged by the Bidder and UNDP, shall be written in the language (s) specified in the BDS.
8. Documents Comprising the Bid	8.1 The Bid shall comprise of the following documents and related forms which details are provided in the BDS: <ul style="list-style-type: none"> a) Documents Establishing the Eligibility and Qualifications of the Bidder; b) Technical Bid; c) Price Schedule; d) Bid Security, if required by BDS; e) Any attachments and/or appendices to the Bid.
9. Documents Establishing the Eligibility and Qualifications of the Bidder	9.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
10. Technical Bid Format and Content	10.1 The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB. 10.2 Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified. 10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS. 10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.
11. Price Schedule	11.1 The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB. 11.2 Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.
12. Bid Security	12.1 A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid. 12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.

	<p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or; b) In the event the successful Bidder fails: <ul style="list-style-type: none"> i. to sign the Contract after UNDP has issued an award; or ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.
13. Currencies	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <ul style="list-style-type: none"> a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.
14. Joint Venture, Consortium or Association	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience</p>

	<p>should clearly differentiate between:</p> <ul style="list-style-type: none"> a) Those that were undertaken together by the JV, Consortium or Association; and b) Those that were undertaken by the individual entities of the JV, Consortium or Association. <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
15. Only One Bid	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this ITB; or d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of another Bidder regarding this ITB process; e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
16. Bid Validity Period	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
17. Extension of Bid Validity Period	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>

18. Clarification of Bid (from the Bidders)	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
19. Amendment of Bids	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
20. Alternative Bids	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
21. Pre-Bid Conference	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>

C. SUBMISSION AND OPENING OF BIDS

22. Submission	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
Hard copy (manual) submission	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ol style="list-style-type: none"> Bear the name of the Bidder; Be addressed to UNDP as specified in the BDS; and Bear a warning not to open before the time and date for Bid opening as specified in the BDS. <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
Email and eTendering submissions	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS; Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS. <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link: http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/</p>
23. Deadline for Submission of Bids and Late Bids	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the</p>

	submission of Bids.
24. Withdrawal, Substitution, and Modification of Bids	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
25. Bid Opening	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
D. EVALUATION OF BIDS	
26. Confidentiality	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
27. Evaluation of Bids	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ol style="list-style-type: none"> Preliminary Examination including Eligibility Arithmetical check and ranking of bidders who passed preliminary examination by price. Qualification assessment (if pre-qualification was not done)

	<ul style="list-style-type: none"> a) Evaluation of Technical Bids b) Evaluation of prices <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
28. Preliminary Examination	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
29. Evaluation of Eligibility and Qualification	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list; b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments, c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required; d) They are able to comply fully with the UNDP General Terms and Conditions of Contract; e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and f) They have a record of timely and satisfactory performance with their clients.
30. Evaluation of Technical Bid and prices	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
31. Due diligence	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> a) Verification of accuracy, correctness and authenticity of information provided by the Bidder; b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team; c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder; d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous

	<p>works, as deemed necessary;</p> <p>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</p> <p>f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.</p>
32. Clarification of Bids	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
33. Responsiveness of Bid	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
34. Nonconformities, Reparable Errors and Omissions	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <p>a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected;</p> <p>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.</p> <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall</p>

	be rejected.
E. AWARD OF CONTRACT	
35. Right to Accept, Reject, Any or All Bids	35.1 UNDP reserves the right to accept or reject any bid, to render any or all of the bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. UNDP shall not be obliged to award the contract to the lowest priced offer.
36. Award Criteria	36.1 Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price.
37. Debriefing	37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
38. Right to Vary Requirements at the Time of Award	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or services, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.
39. Contract Signature	39.1 Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP. Failure to do so may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, UNDP may award the Contract to the Second highest rated or call for new Bids.
40. Contract Type and General Terms and Conditions	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
41. Performance Security	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&action=default within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
42. Bank Guarantee for Advanced Payment	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at

	https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&action=default
43. Liquidated Damages	<p>43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.</p>
44. Payment Provisions	<p>44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.</p>
45. Vendor Protest	<p>45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures:</p> <p>http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</p>
46. Other Provisions	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15</p> <p>http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&referer</p>

Section 3. Bid Data Sheet

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Allowed Per Lot, however partial bid within the same lot is not allowed.
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	<p>Will be Conducted</p> <p>Two site visits are scheduled to be held in the targeted sites as the following Schedule:</p> <p style="padding-left: 40px;">- <u>City of Aleppo:</u></p> <p>Time: 10:00 am Date: October 1, 2018 10:00 AM Venue : Aleppo city.</p> <p>The UNDP focal point for the arrangement is:</p> <p>Mr. Yasser Ali Issa Mobile: 0958880028 Email: yasser.ali.issa@undp.org</p> <p style="padding-left: 40px;">- <u>Rural Damascus, Harasta:</u></p> <p>Time: 10:00 am Date: October 2, 2018 10:00 AM Venue: Rural Damascus, Harasta.</p> <p>The UNDP focal point for the arrangement is</p>

			Mr. Mahmoud AlHomsy Mobile: 0941111483 Email: mahmoud.alhomsy@gmail.com
5	16	Bid Validity Period	90 days
6	13	Bid Security	Required in the amount of USD 4,000 USD for Lot1, and 4,500 USD for Lot2 Acceptable Forms of Bid Security <ul style="list-style-type: none"> ▪ Bank Guarantee (See Section 8 for template) ▪ Certified Check
7	41	Advanced Payment upon signing of contract	Not Allowed
8	42	Liquidated Damages	Will be imposed as follows: Percentage of contract price per day of delay: 0.5% Max. number of days of delay 20, after which UNDP may terminate the contract.
9	40	Performance Security	Required in the amount of 10% of the contract value
10	12	Currency of Bid	United States Dollar However, for local suppliers' payments will be in Syrian Pounds at the prevailing UN exchange rate at the date of the invoice <i>Reference date for determining UN Operational Exchange Rate: of the date of deadline of the tender</i>
11	31	Deadline for submitting requests for clarifications/ questions	5 days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Hanan Al Ali Address: Damascus, Mezzeh, West Villas, Ghazawi St. 8 Fax No. : +963 11 611 45 41 E-mail address dedicated for this purpose: Hanan.al-ali@undp.org CC: syria.procurement@undp.org
13	18, 19	Manner of Disseminating Supplemental Information to the	Direct communication to prospective Proposers by email and Posting on the websites:

	and 21	ITB and responses/clarifications to queries	<ul style="list-style-type: none"> - www.facebook.com/UNDP.Syria - http://www.sy.undp.org/content/syria/en/home/operations/procurement/ - http://procurement-notice.undp.org/
14	23	Deadline for Submission	October 9, 2018 1:00 PM
14	22	Allowable Manner of Submitting Bids	<input checked="" type="checkbox"/> Courier/Hand Delivery <input checked="" type="checkbox"/> Submission by email
15	22	Bid Submission Address	<input checked="" type="checkbox"/> <u>By Courier / Hand Delivery:</u> Mezzeh, West Villas Ghazzawi Street #8 Damascus, Syrian Arab Republic Tel: +963 11 612 9811 Att. Hanan Al Ali, Procurement Associate <input checked="" type="checkbox"/> <u>By Electronic submission:</u> Syria.bids@undp.org with subject: UNDP-SYR-ITB-090-17
16	22	Electronic submission (email or eTendering) requirements	<ul style="list-style-type: none"> ▪ Format: PDF files only ▪ File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. ▪ All files must be free of viruses and not corrupted. ▪ Max. File Size per transmission: 5 MB ▪ Mandatory subject of email: UNDP-SYR-ITB-090-18, supply and installation of solar lighting systems, and specify the lot no. ▪ Documents which are required in original (e.g. Bid Security) should be sent to the below address with a PDF copy submitted as part of the electronic submission: UNDP Syria Country Office, Procurement Unit, Mazzeh West Villas, Damascus, Syria or UNDP RBAS Regional Center in Jordan, attention Ms. Hanan Abu Baker, Procurement Analyst, at the following address: Abu-Baker Seraj Al-Din ST. Building # 11 – Abdoun Al Shamali P O BOX 852303- AMMAN 11185 - JORDAN

17	25	Date, time and venue for the opening of bid	Date and Time: October 9, 2018 3:00 PM Venue: UNDP Syria Country Office, Mezzeh, West Villas, Ghazzawi Street, No.8. Damascus, Syria
18	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
19		Expected date for commencement of Contract	<i>Upon contract signature</i>
20		Maximum expected duration of contract	3 months from contract signature
21	35	UNDP will award the contract to:	One or more Proposers, depending on the following factors: each lot might be awarded to a different supplier.
22	39	Type of Contract	Contract for Goods and/or Services to UNDP http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
23	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Contracts http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
24		Other Information Related to the ITB	N/A

Section 4. Evaluation Criteria

Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/No basis:

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity
- Bid Security (if required) submitted as per ITB requirements with compliant validity period

Minimum Eligibility and Qualification Criteria

Eligibility and Qualification will be evaluated on a Pass/Fail basis.

If the Bid is submitted as a Joint Venture/Consortium/Association, each member should meet the minimum criteria, unless otherwise specified.

Subject	Criteria	Document Submission requirement
ELIGIBILITY		
Legal Status	Vendor is a legally registered entity.	Form B: Bidder Information Form
Eligibility	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
Conflict of Interest	No conflicts of interest in accordance with ITB clause 4.	Form A: Bid Submission Form
Bankruptcy	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form
Certificates and Licenses	<ul style="list-style-type: none"> ▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer ▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country ▪ Export/Import Licenses, if applicable ▪ Business registration certificate 	Form B: Bidder Information Form
QUALIFICATION		
History of Non-Performing	Non-performance of a contract did not occur as a result of contractor default for the last 3 years.	Form D: Qualification Form

Contracts¹		
Litigation History	No consistent history of court/arbitral award decisions against the Bidder for the last 3 years.	Form D: Qualification Form
Previous Experience	Minimum 3 years of relevant experience.	Form D: Qualification Form
	Minimum 3 contracts of similar value, nature and complexity implemented by the company. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
Financial Standing	<input checked="" type="checkbox"/> Minimum average annual turnover of twice the proposed bid value for any of the last 3 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
Technical Evaluation	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
Financial Evaluation	Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F. Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable) Comparison with budget/internal estimates.	Form F: Price Schedule Form

¹ Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

Section 5a: Schedule of Requirements and Technical Specifications/Bill of Quantities

المواصفات الفنية والأعمال المطلوبة لتركيب أجهزة إنارة الشوارع بالطاقة الشمسية:

1. **LOT-1** توريد وتركيب 130 وحدة انارة في مدينة حلب حسب المواصفات الفنية المذكورة في الأسفل.
2. **LOT-2** توريد وتركيب 140 وحدة انارة في حرسنا (ريف دمشق) حسب المواصفات الفنية المذكورة في الأسفل.

Items to be Supplied	Quantity	Unit	Description/Specifications of Goods	Latest Delivery Date
جهاز إضاءة LED	LOT-1 (130) / LOT-2 (140)	عدد	<p>1. تقديم وتركيب مصدر للإضاءة LED 60 watt:</p> <ul style="list-style-type: none"> - توتر التشغيل الاسمي 24 فولط - توضيح شكل وانتشار حزمة الضوء علماً بأن المسافة بين الأعمدة من 25 الى 30م أيضاً وارتفاع العمود 9م. - مصفوفة LED Array – LED صنع شركة فيليبس أو ما يعادلها مزودة بمبرد معدني بكفاءة عالية. يفضل ان تكون المصفوفة مؤلفة من مصفوفتين في حال تعطلت احداها تبقى الثانية قيد العمل بنصف الاستطاعة الاجمالية. - دارة قيادة ليد مزودة بميزة Dimming ومؤقت زمني 3 مراحل على الأقل وأن تكون مدمجة مع المتحكم / الشاحن MPPT. - دارة حماية من التيارات والجهود العالية. - حساس Photo أو ما يكافئ عمله. - كفاءة الإضاءة 150 lum/w - شدة الإضاءة $9000 \text{ Luminous} \leq$ - اللون 4000 to 5000 K. - العمر الفني $50,000 \text{ hrs.} \leq$ - قابلة للفك والتبديل بسهولة. - الغلاف الخارجي من الألمنيوم الخليلط (Aluminum Alloy and ASA/PC) - بللور مخفف – Tempered Glass - الضمان 5 سنوات - درجة الحماية IP 65 - وجود مبردات ألمنيوم فعالة لتبديد الحرارة الناتجة عن تشغيل الليد (وبالتالي إطالة عمر خدمة الليد) - يركب على ذراع حامل بطول 1.2 m-1.5 m ومقطع الحامل متوافق مع الأعمدة المراد التركيب عليها مع امكانية الفك والتركيب والاستبدال (مثبت ببراعي على البوري أو اللحام حسب الحاجة) مع إمكانية دوران الذراع بمقدار 360 درجة للتحكم باتجاه اللوحة ومصدر الإنارة. أو تركيب أذرع مماثلة للأذرع المركبة في المنطقة وذلك بحسب اللجنة الفنية المشرفة على المشروع. 	3 أشهر من تاريخ توقيع العقد
الواح شمسية	LOT-1 (130) / LOT-2		<ul style="list-style-type: none"> • تقديم وتركيب الواح شمسية: - استطاعة اللاقط لا تقل عن 265 واط (Grade A) وبشروط STC. - اللاقط أحادي البلورة Monocrystalline. 	

	(140)	<p>- توتر التشغيل الاسمي 24V</p> <p>- توتر الدارة المفتوحة لا يقل عن 38 V</p> <p>- تيار الدارة القصيرة $10A \leq$</p> <p>- تيار الطاقة الأعظمي: $8.5 \leq$ أمبير</p> <p>- جهد الطاقة الأعظمي: $30 \leq$ فولط</p> <p>- مردود اللاقط $16\% \leq$</p> <p>- ديودات داخلية من تصميم اللوح لمنع التيارات العكسية</p> <p>- درجة الحماية $IP \geq 66$</p> <p>- <u>النظام القياسي المعتمد IEC-61215 أو IEC-61730</u></p> <p>- <u>يحدد العارض شهادات الجودة والاختبارات التي اجتازها اللاقط الشمسي (IEC, UL, TÜV ..)</u></p> <p>- درجة ميلان اللوح 45° عند التركيب.</p> <p>- توجيه اللوح الشمسي نحو الجنوب عند التركيب.</p> <p>- أسلاك التوصيل من النحاس الشعري المغلفن 1x4mm2 لون أحمر للموجب ولون أسود للسالب.</p> <p>- ضمان لمدة 10 سنوات لجميع المواد وضد سوء التصنيع. ضمان الأداء لا يقل عن 90% من سماحية قدرة الخرج (من 0 الى +5%) و80% لمدة 25 سنة.</p> <p>- قواعد تثبيت اللواقط مغلقة وتحمل سرعة رياح 140 كم/سا.</p>
الجهد المنظم الكهربائي	<p>LOT-1 / (130)</p> <p>LOT-2 (140)</p>	<p>• تقديم وتركيب جهاز يقوم بتنظيم الجهد الكهربائي من الخلايا الشمسية إلى البطارية ومنع مرور التيار العكسي وتشغيل وتنظيم عمل الحمل (اللمبة LED):</p> <p>- نوع الشحن MPPT.</p> <p>- التوتر الاسمي 24V</p> <p>- تيار الشحن الاسمي لا يقل عن 15A</p> <p>- أن يكون مزود بنظام BMS لحماية البطاريات (الليثيوم) من الشحن والتفريغ الزائد وتوفير ميزة توقف الشحن عند درجات الحرارة المنخفضة (درجات التجمد).</p> <p>- منع عودة التيار من البطارية إلى الخلايا الشمسية.</p> <p>- تنظيم الجهد الوارد من الخلايا الشمسية قبل مروره إلى بطاريات التخزين.</p> <p>- في حال توقف المتحكم بسبب أي انذار يجب أن يعود الى العمل بشكل آلي عند زوال الانذار وتوفر شروط العمل الطبيعية للمنظومة.</p> <p>- درجة حرارة العمل حتى 70°</p> <p>- درجة الحماية IP 65</p> <p>- أسلاك توصيل بين المنظم واللمبة 4 mm²</p> <p>- ضبط زمني للجهاز من 0 حتى 15hrs أو أكثر</p> <p>- ضبط زمني لفترة تخفيف الاضاءة وتخفيف الاضاءة – على الأقل 3 مراحل</p> <p>- حساس ضوئي أو حسب جهد اللاقط يتم تشغيل وفصل الحمل (LED - لللمبة)</p> <p>- إمكانية التحكم به عن بعد.</p> <p>- (*) أن يكون متضمنا" نظام Data-Logging يخزن كافة القراءات والالذارات لمدة لا تقل عن سنتين. يمكن تحميل هذه المعلومات الى حاسب شخصي مزود ببرنامج خاص لعرض كافة المعلومات بشكل</p>

		<p>مخططات بيانية لنسبة الانتاج والاستهلاك اليومي، والاسبوعي والشهري. تقديم كافة الملحقات من برنامج لعرض البيانات على الحاسب + طريقة وصل لاسلكية لنقل البيانات من المتحكم الى الحاسب.</p> <p>-امكانية تحديد نوع البطارية ليثيوم NMC وامكانية تعديل جهود الشحن حسب الطلب.</p> <p>-الشاحن يجب أن يكون من نوع SMA أو Victron أو ما يعادلها مع وثائق الفحص والجودة الخاصة بهما.</p>	
ليثيوم بطاريات NMC	LOT-1 (130) / LOT-2 (140)	<p>• تقديم وتركيب بطارية تخزين الطاقة:</p> <ul style="list-style-type: none"> ○ بطارية ليثيوم NMC عالية الكفاءة. ○ توتر البطارية الاسمي 25.2 V ○ سعة البطارية لا تقل عن 65Ah - 1638 واط ○ درجة حرارة العمل (0 to 70) ○ أسلاك توصيل (نوع شعري) بين البطارية والمنظم 4 mm2 ○ مرابط البطارية معزولة بعازل انكماشى لمنع التأكسد ○ العمر الفني $\leq 3 \text{ Years}$ ○ يجب أن يكون تاريخ صنع المدخرات لا يتجاوز ستة أشهر عند التركيب. ○ لا يقل العمر الافتراضي للبطارية عن أربع سنوات. ○ أن يكون عدد دورات الشحن والتفريغ Cycle life للمدخرة لا يقل عن Cycle 1000 عند نسبة تفريغ DOD 70% . ○ أن تكون متطابقة مع المواصفات والمعايير الأوروبية والبريطانية. ○ على العارض تقديم المواصفات الفنية التفصيلية للبطارية المقدمة مع جداول ومخططات التفريغ وما الى ذلك. 	
جهاز تحكم	LOT-1 (13) / LOT-2 (13)	<p>• تقديم جهاز تحكم عن بعد لضبط عمل المنظم وتعديل الزمن اللازم للتشغيل والإطفاء، وإمكانية التحكم بشدة الإنارة بعد منتصف الليل "فصل نصف الحمولة بعد منتصف الليل"</p>	
اكسسوارات	LOT-1 (130) / LOT-2 (140)	<p>• تقديم وتركيب كافة الإكسسوارات اللازمة وذكرها مفصلة في العرض المقدم.</p>	عدد
رول أب	LOT-1 (2) / LOT-2 (2)	<p>7. على العارض تقديم لوحة فليكس مع جهاز التثبيت باسم المشروع مثبتة على رول أب.</p>	
عمود أنارة شارع قاعدته الاسمنتية	LOT-1 (130) / LOT-2 (140)	<p>8. تقديم وتركيب عمود إنارة معدني بطول 9m في حرسا و 8.5m في حلب مضع بشكل مخروطي :</p> <ul style="list-style-type: none"> • شكل العمود وفق النماذج المركبة في شوارع المدينة ويتوافق مع جهاز الإنارة المراد تركيبه مع دهان تأسيس سيرقون وجهين ودهان وجهين بلون تحدده اللجنة المشرفة على المشروع من الخارج. • القطر العلوي 8 سم ± 5 مم، القطر السفلي 25 سم ± 10 مم. 	عدد

			<ul style="list-style-type: none"> • سماكة المعدن 4مم. • طول العمود فوق سطح الأرض 9م. • القاعدة السفلية 40*40سم , بسماكة 12 مم. • براغي التثبيت طول 80سم بمقطع 28مم سن خشن. • قاعدة التثبيت صفيحة سماكة 10مم أبعاد 40*40سم وعليها براغي التثبيت عدد 4، ثلاث عزقات لكل برغي لتثبيت البراغي على صفيحة القاعدة . • البرغي بشكل معقوف للتثبيت داخل القاعدة البيتونية وبطول لا يقل عن 80سم اعتباراً من وجه صفيحة التثبيت. • يتم ربط براغي التثبيت ضمن القاعدة بأساور أفقية لا يقل قطرها عن 10مم وتباعداً شاقولي لا يقل عن 20سم. • تدعيم العمود مع القاعدة بمثلث مقطع 1سم وضلعي المثلث 6*15سم عدد 8 لكل عمود. • يجب أن يكون العمود قطعة كاملة من الصفيح بدون وصلات على طوله. • على المتعهد فك كافة التجهيزات الموجودة على العواميد الموجودة مسبقاً وترحيلها الى المستودع المحدد من قبل لجنة الاشراف ان وجدت.
اسمنتية	<p>LOT-1 / (130) قاعدة</p> <p>LOT-2 / (140) مسلحة</p>	عدد	<p>9. تقديم وتركيب قاعدة العمود وهي عبارة عن صب بيتون مسلح عيار 350كغ/م3 بأبعاد (1.1*1*1) م3:</p> <ul style="list-style-type: none"> • سماكة بيتون النظافة (عيار 200كغ/م3) أسفل قاعدة العمود لا تقل عن 10سم وبيروز 10سم من كل جهة عن قاعدة العمود البيتونية. • تسليح القاعدة البيتونية في كل من الاتجاهين الطولي والعرضي: عدد 6/ قضبان بقطر 12/ مم يرفع منها القضبان الأربعة الوسطية بشكل قفص بارتفاع 1/ م • لا يقل الحد الأدنى لقوة الشد عن 520 NM/mm2 فولاذ نوع ST-52 بالنسبة لعمود الانارة وبرايي وصفيحة تثبيت العمود مع القاعدة.

(*) ملاحظة:

- يجب تقديم على الأقل عدد 4 شواحن MPPT لكل LOT مع ميزة ال Data-Logging زائد البرنامج الخاص لعرض المعلومات
 - + المخططات. على العارض تقديم معلومات تفصيلية ونماذج صور عن عرض المعلومات المطلوبة ضمن البرنامج.
- ملاحظات إضافية:

- يجب أن تكون البطارية منفصلة وتوضع مع منظم الشحن ضمن علبة معدنية سماكة 2 ملم مغلفة ومزودة بتهوية مناسبة وتركب أسفل اللاقط مما يسمح بضمان حرية توجيه اللوح الشمسي بشكل منفصل عن اتجاه الإنارة. علبة البطاريات والشاحن مزودة بثقب/فتحة مغطاة ببلور شفاف لامكانية برمجة المتحكم عن بعد (من أسفل عامود الانارة). على العارض تقديم مخططات تفصيلية لكافة أجزاء نظام الانارة المقدم من قبله.

- كافة كبلات التوصيل بين أجزاء منظومة الانارة يتم تركيبها بشكل مخفي.

- على المعارض تقديم جدول تفصيلي لتطابق المواصفات (حسب الجدول أعلاه) بند بند وبيان الخلافات بين عرضه والمواصفة المطلوبة ان وجدت (نسختان، واحدة هارد كوبي والثانية سوفت كوبي Excel أو WORD).

The Technical Specifications:

- 1- LOT-1 / Provision and installation of (130) solar street lighting units in Aleppo City as per below specifications.
- 2- LOT-2 / Provision and installation of (150) solar street lighting units in Rural Damascus (Harasta) as per below specifications.

Latest Delivery Date	Description/Specifications of Goods	Quantity	Unit	Items to be supplied
3 months from contract signature	1- Provision and installation of a 60-Watt LED street lamp: <ul style="list-style-type: none"> • Nominal Voltage 24 VDC • LED Array, made by Philips or any other equal product, installed on a proper heat sink for maximum heat dissipation. The LED should preferably consist of two arrays, in case one fails the second one remains working at half capacity. • Provide the light beam distribution shape covering the road width and the distance between the lighting poles from 25 to 30 meters. Pole height is 9m. • The LED driver circuit should be 24V nominal and not less than 100W also provided with a heat sink for heat dissipation. The LED driver is part of the MPPT controller 3 in 1. • 150 lum/w lightning efficiency • Greater or equal to 9,000 Luminous • Day-light 4000 to 5000K • Provided with a photo-cell for automatic switch on/off at dusk and dawn. Or any equivalent function to achieve this requirement. • Technical life more than 50,000 hours • The external cover is made of Aluminum Alloy and ASA/PC 	LOT-1 (130) / LOT-2 (140)	No.	LED light source

	<ul style="list-style-type: none"> • Can be disassembled and changed • Aluminum cast casing • Tempered Glass • 5-year warranty • IP 65 • To be installed on a 1.2m-1.5m extension arm that matches the design of the pole. Should be fixed on the pole by screws or welding and can be adjusted in all directions. Or similar arms to the existing ones should be installed as per the directions of the supervising technical committee in charge. • Galvanized fixing structure for PV collectors. Angle of inclination for the PV collectors shall be 45 degrees. 			
	<p>2- Provision and installation of PV solar Collectors:</p> <ul style="list-style-type: none"> • At least 265 Watt. Higher Power is preferred. • Monocrystalline solar panel. • 24 VDC – Nominal Voltage. • Voc not less than 38 V • Isc greater or equal to 10 A • Max Power Current: > 8.5 A • Max Power Voltage: > 30 V • Module efficiency: greater or equal to 16% • Integrated diodes to prevent reverse current and by-pass diodes • IP 66 • Comply with the standards: IEC-61215 or IEC-61730 • The Vendor must specify and provide the test and quality test certificates for the offered PV collectors (IEC, TUV, UL etc.) • Installation Inclination angle is 45 degrees • Direction of the PV panel is towards the south. 	<p>LOT-1 (130) / LOT-2 (140)</p>	No.	PV Panels

	<ul style="list-style-type: none"> Connecting cables shall be of galvanized copper 1x4 mm². Red color for positive and black color for negative. Warranty for 10 years against manufacturing defects. 90% output efficiency shall be guaranteed for (0 to +3%) and 80% for 25 years. 			
	<p>3- Provision and installation of a Charger/Controller:</p> <ul style="list-style-type: none"> MPPT type Nominal Voltage: 24 VDC Charging current not less than 15A. BMS (Battery Management System) must be used with Li batteries to protect them from being overly charged or discharged. Cold charge disconnects for freezing temperatures. Prevents return currents from the battery to the solar panels. Voltage regulation for battery charging. Operating temperature up to 70 degrees Celsius. IP 65. Connecting cables between the charger and the light 4 mm². Timer for up to 15 hours of operation. Light dimming control with timer – at least three stages. Light sensor to connect/disconnect the light or according to the PV voltage. Remote control capability. Change charging voltage per battery type used i.e. Gel, AGM, Flooded, lithium NMC and user defined type with voltage charging settings. (*) Should have an integrated data-logger for all kind of readings and alarms. The logger should keep the data for at least 2 years. Possibility to download all data to a PC. A soft-ware that can display all readings, alarms and can display the production versus the consumption in graphics on a daily, 	<p>LOT-1 (130) / LOT-2 (140)</p>	<p>No.</p>	<p>Charger / Controller</p>

	<p>weekly and monthly basis. (*) See Note below.</p> <ul style="list-style-type: none"> Charger should be made by Victron, SMA or what's equivalent to it, along with their quality control documentations. 			
	<p>4- Battery:</p> <ul style="list-style-type: none"> Lithium NMC type. Nominal Voltage 25.2 V Capacity 65 Ahr – 1638 W Operating temperature from 0 to 70 degrees Celsius. Cable connecting between the battery and chargers 4 mm². Battery poles are protected with heat shrink sleeves from the atmosphere to prevent oxidization. Technical life equal or greater than 4 years. The battery shall be of a well-known manufacturer and meet the EU / British standards. The battery charging/discharging cycles shall be not less than 1000 cycles at DOD 70% on the current curve. Vendor shall provide detailed technical specs for the offered batteries with discharge tables and graphs. 	<p>LOT-1 (130) / LOT-2 (140)</p>	<p>No.</p>	<p>Batteries Lithium NMC</p>
	<p>5- Provision of a Remote Control for controlling the charger, on/off and modifying the timer and the dimming function.</p>	<p>LOT-1 (13) / LOT-2 (13)</p>	<p>No.</p>	<p>Remote Control</p>
	<p>6- Provide and install all needed accessories and they should be stated in detail in the offer.</p>	<p>LOT-1 (130) / LOT-2 (140)</p>	<p>No.</p>	<p>Accessories</p>
	<p>7- The contractor should provide a Flex plate with the name of the project fixed on a roll up.</p>	<p>LOT-1 (2) / LOT-2 (2)</p>	<p>No.</p>	<p>Roll-up</p>
	<p>8- Provision and installation of 9m lighting Pole in Harasta and 8.5m lighting pole in Aleppo, poles should be of the cone-rippled type:</p> <ul style="list-style-type: none"> The poles shall be like the ones installed in the according cities, protected with special protection paint two layers and on top of it 	<p>LOT-1 (130) / LOT-2 (140)</p>	<p>No.</p>	

	<p>two layers paint to be determined by the supervising committee.</p> <ul style="list-style-type: none"> • Upper end of the pole shall have a diameter of 8 cm +/- 5 mm, and the lower one 25 cm +/- 10 mm. • Pole metal thickness shall be 4 mm. • Pole height 9 m. • Lower base of the pole 40 x 40 cm, 12 mm thick. • Fixation Screws shall be 80 cm long with a 28-mm cross section. • Fixation base is a 10-mm thick plate, dimensions 40x40 cm, 3 nuts for each screw to fix the 4 fixation screws on the fixation base. • The screws shall be of the hooked type for fixation inside the cement base with a length not less than 80 cm. • The fixation screws are interconnected within the cement base with horizontal bracelets 10 mm thick and a vertical distance of not less than 20cm. • The pole shall be supported by 1cm thick triangles with sides 6 x 15 cm, qty. 8 for each pole. • The pole should be one piece of metal sheet for the whole pole. • The contractor should disassemble any equipment on the existing poles and return them to the specified warehouse as per the supervising committee directions, if such a case exists. 			
	<p>9- Supply and installation of a steel reinforced cement base for the pole 350kg/m³ – dimension (1*1*1.1) m³:</p> <ul style="list-style-type: none"> • Clean cement base (200kg/m³) at the bottom of the pole cement base with a thickness of at least 10cm and edge of 10cm at each side of the base. • The cement base shall be reinforced with steel in both vertical and horizontal directions: /6/ bars no less than 12mm in diameter of which the 4 middle bars shall be raised in the shape of a cage 1 meter high. • Fixation Torque for ST-52 steel should be at least 520 Nm/mm² for fixing the pole with the screws and plate and the cement base. 	<p>LOT-1 (130) / LOT-2 (140)</p>	<p>No.</p>	<p>Steel Reinforced Cement Base</p>

(*) Note: At least qty.4 (for each LOT) of the MPPT Chargers supplied should have the data-logging option including the PC software for displaying measurements, Alarms and displaying the requested graphical information.

Additional Notes:

- **The battery and controller shall be put in a vented metal box 2mm thickness and installed**

on the pole under the solar panel (solar panel, battery + controller and LED lamp are separated as in a classic system). The battery/controller box should be painted in the same fashion as the pole. Also, the box should have an opening covered with glass to be able to use the remote control for programming when standing at the bottom of the pole. The vendor should provide with his offer detailed diagrams for all parts of the offered lighting system.

- *All interconnecting cables of the installed system shall be installed in a hidden way.*
- *The vendor should provide a detailed compliance table as per above table (item by item) and he should point out the differences in his offered specs to the requested specs in case it exists. One hard copy and one softcopy in Excel or Word format.*

- يشترط على العارض الالتزام بما يلي:

1. مدة التنفيذ 3 أشهر تبدأ من تاريخ توقيع العقد مع برنامج الأمم المتحدة الإنمائي في سورية. في حال عدم الالتزام بهذه المدة وتجاوز مدة التأخير المسموحة حسب شروط العقد يحق لل **UNDP** إلغاء العقد مع الشركة التي رسي عليها التعهد.
2. يمكن للعارض التقديم على مجموعة واحدة أو اثنتين
3. اللجنة الفنية تعد مشرفة على متابعة عمليات التجميع والتركيب والتثبيت لضمان الحفاظ على جودة الأجهزة والتركيب.
4. على العارض تقديم مخطط زمني تفصيلي لمراحل تنفيذ المشروع وبيان الطريقة التي سيفذ بها المشروع "مفتاح باليد".
5. يشترط على العارض المتقدم أن يكون فني ومختص في هذا المجال وممارساً للمهنة، وعليه تقديم وثيقة تثبت ذلك من الجهات المعنية. يجب تقديم السيرة الذاتية للمهندس المشرف من قبل المتعهد في عرضه.
6. على العارض تقديم المخططات البيانية والكتالوجات لأجهزة الإضاءة الكاملة التي سيتم تركيبها مع بيان مصدرها، وملزم بتقديم الصيانة الكاملة خلال مدة الكفالة وكل ما يلزم لتشغيلها بالشكل الأمثل.
7. على العارض تقديم كفالة لمدة لا تقل عن سنتان للبطاريات وباقي التجهيزات.
8. خلال مدة الكفالة/الصيانة المجانية يجب على المتعهد تزويد مكتب الأمم المتحدة بدمشق بعد كل ثلاثة أشهر بقراءات كافة ال **Data-Loggers** المركبة ومخططات الانتاج والاستهلاك للمنظومة بشكل يومي وشهري. كما يجب أن يقوم بالصيانة الدورية كل 3 أشهر ومن ضمنها فحص اللواظ بكاميرا **INFRARED** لتأكد عمل الخلايا بالإضافة الى قياس كافة الجهود وتنظيف كافة اللواظ وتقديم تقرير بالصيانة الى ال **UNDP** والجهة المستفيدة من المشروع.
9. قبل نهاية العقد على المتعهد تدريب كوادرات فنية من الجهة المستفيدة على تشغيل وصيانة أنظمة الإنارة المركبة من قبله وتدريب هذه العناصر على كيفية تحميل المعلومات من جهاز ال **Data-Logger** وعلى كيفية استخدام البرنامج الخاص لعرض هذه البيانات بالإضافة الى تسليمهم البرنامج والوصلات اللازمة لتحميل البيانات على الحاسب. على المتعهد تقديم تقرير استلام شامل وموقع من الجهة المستفيدة بالتدريب والمواد التي تم تسليمها.
10. على العارض معاينة مواقع العمل (الزامي) ومطابقة الأعمال المطلوبة وفق المذكور في المواصفات الفنية وكشف الأعمال المبين أعلاه وبناءً عليه يقدم عرضه.
11. يحق للجنة الفنية المشرفة على المشروع تعديل أي بند من بنود الأعمال ضمن المبالغ المحددة ووفق مقتضيات العمل ورأي الجهة المعنية واللجنة الفنية على المشروع.
12. عملية تجميع وتركيب أجهزة الإنارة تتم من قبل نفس المورد وعملية فك أجهزة الإنارة السابقة "المركبة حالياً" ونقلها وتسليمها للجهات المعنية تقع على مسؤولية العارض (ان وجدت).
13. عملية نقل الأجهزة لمواقع التركيب وتركيب وتثبيت الأجهزة مع تقديم الكابلات اللازمة وكافة الروافع والآليات اللازمة للعمل تقع على مسؤولية العارض ووفق رأي اللجنة الفنية.
14. يجب أن لا تقل عدد ساعات العمل للجهاز بالحمل الكامل لمدة 6 ساعات ونصف الحمل 6 ساعات في اليوم. النظام مصمم بحيث يعمل لمدة 3 أيام بدون شمس.
15. جميع الأجزاء المتممة من أسلاك ووصلات وملاقط وجميع الأجزاء المعدنية الأخرى من أذرع وقطع التثبيت والحوامل والمساند والقواعد وصناديق البطاريات يجب أن تكون من النوع المتين وغير قابلة للصدأ أو الأكسدة.
16. تصميم الجهاز يجب أن يؤمن سهولة الصيانة، ويتحمل الجهاز سرعة رياح لا تقل عن 140 كم / سا.
17. يتم خصم 0.5% عن كل يوم تأخير من قيمة العقد على أن لا تتجاوز مدة التأخير أكثر من 20 يوم.
18. توجيه كافة اللواظ الشمسية نحو الجنوب عند تركيبها ويجب أن تكون زاوية الميل 45 درجة مئوية.
19. يتم حساب كشف الأعمال المنفذة وفق الأعمال الفعلية والمنجزة ويوقع على الكشف اللجنة الفنية بعد إجراء اختبار التشغيل لكافة الأجهزة ومدى كفاءتها، ويتم تنظيم محاضر تركيب للأجهزة وتصدق من اللجنة الفنية والجهة المعنية، ويتم الصرف وفق ذلك وبالسعر المقدم بالعرض وبالليرة السورية {حسب سعر صرف **UN** في حال العرض مقدم بالدولار} وحسب الكميات المقررة والمذكورة بالجدول أعلاه.
20. يتوجب على المتعهد تعيين لا يقل عن 30 عمال خلال مدة المشروع وفق معايير اختيار العمال المرعية لدى برنامج الأمم المتحدة الإنمائي والمذكورة بنص المقترح وذلك في أعمال نقل وتجميع وتركيب وتثبيت التجهيزات، وعليه دفع التعويضات

- المستحقة والمتعارف عليها لهم وفق جداول أجور معتمدة لدى البرنامج وعليه إبراز الجداول وتسليمها لإدارة المشروع والتي تعتبر وثيقة من وثائق المشروع.
- 21.** يتحمل العارض المسؤولية الكاملة على كل ضرر يقع على العمال والأجهزة قبل التسليم، كما يتحمل العارض دفع كافة الأجور المستحقة لعاملي المشروع.
- 22.** لا يتم صرف قيمة البند في حال مخالفة أي محتوى فيه.
- 23.** على العارض الالتزام بالشروط المتعلقة بتنفيذ الأعمال المذكورة أعلاه وفق معايير ومواصفات الجهات المعتمدة بهذا المجال.
- 24.** يتم الصرف على دفعة واحدة عند استلام وتركيب كامل التجهيزات عند الاستلام النهائي من قبل اللجنة الفنية لأعمال التركيب ووضعها في الخدمة والتأكد من سلامة عملها.
- 25.** جميع إجراءات التعاقد ستتم وفق أنظمة برنامج الأمم المتحدة الإنمائي في سورية.

Terms and Conditions:

Vendors should comply with the following:

1. Execution period is 3 months starting from the date of contract signature with the United Nations Development Program. In case the allowed delay period is exceeded by the contractor, UNDP has the right to cancel its contract with him.
2. The vendor has the right to apply for one Lot or both.
3. The technical committee "Project Team" With the representative of the beneficiary "lighting Unit in city councils" are considered the supervisor for following up of the process of assembling, installing and commissioning to ensure the preservation of the quality of both devices and installation.
4. Vendor must provide a Gantt chart and the methodology how will implement the turn key project.
5. The vendor should have the technical experience, specialized in the field, as well as a practitioner of the profession, and has to provide an authentication document to verify it from the concerned authorities ". The bidder should submit the CV of his supervising engineer who will supervise the execution of the project.
6. The vendor should present graphical charts and catalogues of the provided lighting devices in addition to the country of origin, and the devices must be guaranteed, and the vendor should provide full maintenance during the warranty period along with all requirements for optimal operation.
7. The vendor should present a warranty no less than two years for the batteries and for the rest of the equipment.
8. During the warranty/free maintenance period the contractor shall provide every three months all readings from all controllers and the graphs demonstrating the daily and monthly energy production/consumption graphs. Also, he must conduct during this period the preventative maintenance for all installed lighting systems including the testing of all panels with an infrared camera to insure the proper operation of all cells, measuring all the voltages and currents, cleaning of the solar panels every three month and he should provide to UNDP and the beneficiary an official and detailed technical report regarding all works done.
9. *Before the end of the contract, the contractor shall train the beneficiaries staff on the operation and data extraction from the data-loggers. This should include also how to use the provided PC software and how to analyze the extracted data and graphs. The contractor must hand over to the beneficiary the PC software, data connectors, cables and all remote-control units.*
10. The vendor should conduct an onsite visit, mandatory, preview the work location and verify the required works per the aforesaid in the technical specifications, and should provide his offer accordingly.
11. The supervising technical committee has the right to modify any item of the listed agenda within the specified sums and per the exigencies of work and the advice of concerned authority
12. Assembling and installation of lighting devices should be done by the same supplier. The process of decoding the previous lighting devices "currently installed", transporting and

- delivering it to the concerned authorities in the agreed locations lies on the bidder in coordination with the city council of Rural Damascus (in case they exist).
13. The transportation of all equipment to the installation sites and their installation is the responsibility of the vendor and according to the recommendations of the supervising technical committee.
 14. Operating hours of the devices should be no less than 6 hours at full load and 6 hours at half load per night under normal circumstances. The lighting system is designed to work for 3 continuous days with no sun.
 15. All supplementary parts including wires, connectors, hooks and all other metal parts including arms (tie rods), boxes for accumulators, isolation devices, surge arrestors, fixture parts, arms, trays, supports, bases, and shafts are required to be of a heavy duty, non-rusting, and antioxidant type.
 16. The design of the devices should ensure easy maintenance, bearing wind resistance of at least 140km/h.
 17. There would be a 0.5% deductions from the contract value, upon each day of delay, granting the delay duration should not exceed 20 days.
 18. *All PV solar panels shall be directed due south and their angle of inclination shall be 45 degrees.*
 19. The actual executed works will be calculated and signed by the technical committee and the end-user after testing all devices and making sure of its efficiency. Installation reports for all devices shall be prepared and duly authorized by the technical committee and the concerned authorities and then the payments will be released against an invoice and per the offered price and the ongoing UNDP exchange rate at that time.
 20. The contractor should employ at least 30 workers during the period of the project per UNDP standards, for the transportation, assembly and installation of all devices. Also, he should pay the known compensations per UNDP payment lists which should be submitted to contract administer and it is considered one of the project documents.
 21. The contractor is liable for all damages or harm affecting any of the workers or the devices befor the final acceptance is issued. Also, the contractor is responsible to pay all the workers fee due per the terms and conditions of the contract.
 22. Any item of any invoice shall be paid in case of any discrepancy.
 23. The contractor should abide by the contract conditions related to all works mentioned above in accordance with the imposed standards by the concerned authorities.
 24. *There will be one single payment upon delivering, installation, testing and commissioning of all equipment.*
 25. All contractual procedures are subject to the UNDP regulations in Syria.

Section 5b: Other Related Requirements

Further to the Schedule of Requirements in the preceding Table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements: *[check the condition that applies to this ITB, delete the entire row if condition is not applicable to the goods being procured]*

Delivery Term [INCOTERMS 2010] (Pls. link this to price schedule)	DAP
Exact Address of Delivery/Installation Location	For Lot1: Aleppo City For Lot2: Rural Damascus, Harasta
Mode of Transport Preferred	No preferred mode of transport
UNDP Preferred Freight Forwarder, if any	N/A
Distribution of shipping documents (if using freight forwarder)	N/A
Customs, if required, clearing shall be done by:	Supplier
Ex-factory / Pre-shipment inspection	No
Inspection upon delivery	Yes
Installation Requirements	Yes
Testing Requirements	Yes
Scope of Training on Operation and Maintenance	Yes, train technical staff on operation and maintenance before handing over the project.
Commissioning	yes
Warranty Period	Two years for batteries and other equipment
Local Service Support	yes
Technical Support Requirements	yes
After-sale services Requirements	<input checked="" type="checkbox"/> Warranty on Parts and Labor for minimum period of 2 years <input checked="" type="checkbox"/> Technical Support
Payment Terms (max. advanced payment is 20% as per UNDP policy)	100% within 30 days upon UNDP's acceptance of the goods delivered as specified and receipt of invoice
Conditions for Release of Payment	<input checked="" type="checkbox"/> Inspection upon arrival at destination <input checked="" type="checkbox"/> Installation <input checked="" type="checkbox"/> Testing <input checked="" type="checkbox"/> Training on Operation and Maintenance

	<input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
All documentations, including catalogues, instructions and operating manuals, shall be in this language	English

Section 6: Returnable Bidding Forms / Checklist

This form serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

Technical Bid:

Have you duly completed all the Returnable Bidding Forms?	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
▪ Form G: Form of Bid Security	
▪ [Add other forms as necessary]	<input type="checkbox"/>
Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?	<input type="checkbox"/>

Price Schedule:

▪ Form F: Price Schedule Form	<input type="checkbox"/>
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Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

We, the undersigned, offer to supply the goods and related services required for [Insert Title of goods and services] in accordance with your Invitation to Bid No. [Insert ITB Reference Number] and our Bid. We hereby submit our Bid, which includes this Technical Bid and Price Schedule.

Our attached Price Schedule is for the sum of [Insert amount in words and figures and indicate currency].

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium /Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do 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 our firm 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);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake 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 and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/or sanctioning by the UNDP.

We offer to supply the goods and related services in conformity with the Bidding documents, including the UNDP General Conditions of Contract and in accordance with the Schedule of Requirements and Technical Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet.

We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should UNDP accept this Bid.

Name: _____

Title: _____

Date: _____

Signature: _____

[Stamp with official stamp of the Bidder]

Form B: Bidder Information Form

Legal name of Bidder	[Complete]
Legal address	[Complete]
Year of registration	[Complete]
Bidder's Authorized Representative Information	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
Are you a UNGM registered vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UGNM vendor number]
Are you a UNDP vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UNDP vendor number]
Countries of operation	[Complete]
No. of full-time employees	[Complete]
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)	[Complete]
Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues	[Complete]
Is your company a member of the UN Global Compact	[Complete]
Contact person that UNDP may	Name and Title: [Complete]

<p>contact for requests for clarifications during Bid evaluation</p>	<p>Telephone numbers: [Complete]</p> <p>Email: [Complete]</p>
<p>Please attach the following documents:</p>	<p><input type="checkbox"/> Company Profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods/services being procured;</p> <p><input checked="" type="checkbox"/> Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation;</p> <p><input checked="" type="checkbox"/> Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer;</p> <p><input checked="" type="checkbox"/> Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country;</p> <p><input checked="" type="checkbox"/> Statement of Satisfactory Performance from the Top Three (3) Clients in terms of Contract Value and related to similar nature and complexity to our project;</p> <p><input checked="" type="checkbox"/> Time schedule in compliance with the deadlines set in the ITB. Detailed work plan including the project timeline and duration for the main activities. The proposal shall be clear and comprehensive;</p> <p><input checked="" type="checkbox"/> In case of subcontracting, the bidder should submit the company profile, experience and team composition of the designated subcontractor;</p> <p><input checked="" type="checkbox"/> List and value of projects performed by the bidder with similar nature and complexity, plus client's contact details who may be contacted for further information on those contracts;</p> <p><input checked="" type="checkbox"/> The bidder should present graphical charts and catalogues of the provided lighting devices in addition to the country of origin,</p> <p><input checked="" type="checkbox"/> The bidder should submit a statement confirming that he will provide full maintenance during the warranty period along with all requirements for optimal operation.</p> <p><input checked="" type="checkbox"/> The bidder should submit the CV of his supervising engineer who will supervise the execution of the project.</p> <p><input checked="" type="checkbox"/> Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any</p> <p><input checked="" type="checkbox"/> Latest Audited Financial Statement (Income Statement and Balance Sheet) including Auditor's Report for the past Two (2) years</p> <p><input checked="" type="checkbox"/> Statement of warranty of defects in materials and workmanship and operation and performance guarantee, backed by the manufacturers guarantee on the main component, meets or exceeds the required period.</p>

- ☒ Proof of after-sales service capacity (during defect liability Period) and appropriateness of local service and technical support available.
- ☒ A statement confirming that the vendor will employ 30 workers during the period of the project according to UNDP standards, for the transportation, assembly and installation of all devices. Also, he should confirm in the statement that he will pay the known compensations per UNDP payment lists which should be submitted to contract administer and it is considered one of the project documents

Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/Consortium/Association.

No	Name of Partner and contact information <i>(address, telephone numbers, fax numbers, e-mail address)</i>	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

Name of leading partner (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
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We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

☐ Letter of intent to form a joint venture **OR** ☐ JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to UNDP for the fulfillment of the provisions of the Contract.

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

If JV/Consortium/Association, to be completed by each partner.

History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last 3 years			
<input type="checkbox"/> Contract(s) not performed in the last 3 years			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Reason(s) for non-performance:	

Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 3 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute: Party awarded if resolved:	

Previous Relevant Experience

Please list only previous similar assignments successfully completed in the last 3 years.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by UNDP.

Project name & Country of Assignment	Client & Reference Contact Details	Contract Value	Period of activity and status	Types of activities undertaken

Bidders may also attach their own Project Data Sheets with more details for assignments above.

☐ Attached are the Statements of Satisfactory Performance from the Top 3 (three) Clients or more.

Financial Standing

Annual Turnover for the last 3 years	Year	USD
	Year	USD
	Year	USD
Latest Credit Rating (if any), indicate the source		

Financial information (in US\$ equivalent)	Historic information for the last 3 years		
	Year 1	Year 2	Year 3
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

☐ Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following condition:

- Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
 - Historic financial statements must be audited by a certified public accountant;
 - Historic financial statements must correspond to accounting periods already completed and audited.
- No statements for partial periods shall be accepted.

Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder's Bid should be organized to follow this format of the Technical Bid. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same will be viewed as non-responsive.

SECTION 1: Bidder's qualification, capacity and expertise

- 1.1 General organizational capability which is likely to affect implementation: management structure, financial stability and project financing capacity, project management controls, extent to which any work would be subcontracted (if so, provide details).
- 1.2 Relevance of specialized knowledge and experience on similar engagements done in the region/country.
- 1.3 Quality assurance procedures and risk mitigation measures.
- 1.4 Organization's commitment to sustainability.

SECTION 2: Scope of Supply, Technical Specifications, and Related Services

This section should demonstrate the Bidder's responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements/specifications. All important aspects should be addressed in sufficient detail.

- 2.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 2.2 Explain whether any work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 2.3 The bid shall also include details of the Bidder's internal technical and quality assurance review mechanisms.
- 2.4 Implementation plan including a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.
- 2.5 Demonstrate how you plan to integrate sustainability measures in the execution of the contract.

Goods and services to be Supplied and Technical Specifications	Your response				
	Compliance with technical specifications		Delivery Date <i>(confirm that you comply or indicate your delivery date)</i>	Quality Certificate/Export Licenses, etc. <i>(indicate all that apply and attach)</i>	Comments
	Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>			
10- Provision and installation of a 60-Watt LED street lamp: <ul style="list-style-type: none"> Nominal Voltage 24 VDC LED Array, made by Philips or any other equal product, installed on a proper heat sink for maximum heat dissipation. The LED should preferably consist of two arrays, in case one fails the second one remains working at half capacity. Provide the light beam distribution shape covering the road width and the distance between the 					

<p>lighting poles from 25 to 30 meters. Pole height is 9m.</p> <ul style="list-style-type: none"> • The LED driver circuit should be 24V nominal and not less than 100W also provided with a heat sink for heat dissipation. The LED driver is part of the MPPT controller 3 in 1. • 150 lum/w lightning efficiency • Greater or equal to 9,000 Luminous • Day-light 4000 to 5000K • Provided with a photo-cell for automatic switch on/off at dusk and dawn. Or any equivalent function to achieve this requirement. • Technical life more than 50,000 hours 					
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<ul style="list-style-type: none"> • The external cover is made of Aluminum Alloy and ASA/PC • Can be disassembled and changed • Aluminum cast casing • Tempered Glass • 5-year warranty • IP 65 • To be installed on a 1.2m-1.5m extension arm that matches the design of the pole. Should be fixed on the pole by screws or welding and can be adjusted in all directions. Or similar arms to the existing ones should be installed as per the directions of the supervising technical committee in charge. <p>Galvanized fixing structure for PV</p>					
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collectors. Angle of inclination for the PV collectors shall be 45 degrees.					
<p>11- Provision and installation of PV solar Collectors:</p> <ul style="list-style-type: none"> • At least 265 Watt. Higher Power is preferred. • Monocrystalline solar panel. • 24 VDC – Nominal Voltage. • Voc not less than 38 V • Isc greater or equal to 10 A • Max Power Current: > 8.5 A • Max Power Voltage: > 30 V • Module efficiency: greater or equal to 16% • Integrated diodes to prevent reverse current and by-pass diodes • IP 66 • Comply with the standards: IEC-61215 or IEC-61730 • The Vendor must specify and provide the test and quality test certificates 					

<p>for the offered PV collectors (IEC, TUV, UL etc.)</p> <ul style="list-style-type: none"> • Installation Inclination angle is 45 degrees • Direction of the PV panel is towards the south. • Connecting cables shall be of galvanized copper 1x4 mm². Red color for positive and black color for negative. <p>Warranty for 10 years against manufacturing defects. 90% output efficiency shall be guaranteed for (0 to +3%) and 80% for 25 years.</p>					
<p>12- Provision and installation of a Charger/Controller :</p> <ul style="list-style-type: none"> • MPPT type • Nominal Voltage: 24 VDC • Charging current not less than 15A. • BMS (Battery Management System) must be used with Li batteries to protect them from being overly charged or 					

<p>discharged. Cold charge disconnects for freezing temperatures.</p> <ul style="list-style-type: none"> • Prevents return currents from the battery to the solar panels. • Voltage regulation for battery charging. • Operating temperature up to 70 degrees Celsius. • IP 65. • Connecting cables between the charger and the light 4 mm². • Timer for up to 15 hours of operation. • Light dimming control with timer – at least three stages. • Light sensor to connect/disconnect the light or according to the PV voltage. • Remote control capability. • Change charging voltage per battery type used i.e. Gel, AGM, Flooded, lithium NMC and user defined type with voltage charging settings. • (*) Should have an integrated data-logger for all kind of readings and 					
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<p>alarms. The logger should keep the data for at least 2 years. Possibility to download all data to a PC. A soft-ware that can display all readings, alarms and can display the production versus the consumption in graphics on a daily, weekly and monthly basis. (*)</p> <p>See Note below.</p> <p>Charger should be made by Victron, SMA or what's equivalent to it, along with their quality control documentations.</p>					
<p>13- Battery:</p> <ul style="list-style-type: none"> • Lithium NMC type. • Nominal Voltage 25.2 V • Capacity 65 Ahr – 1638 W • Operating temperature from 0 to 70 degrees Celsius. • Cable connecting between the battery and chargers 4 mm². • Battery poles are protected with heat shrink sleeves from the atmosphere to prevent oxidization. • Technical life equal or greater than 4 years. 					

<ul style="list-style-type: none"> • The battery shall be of a well-known manufacturer and meet the EU / British standards. • The battery charging/discharging cycles shall be not less than 1000 cycles at DOD 70% on the current curve. <p>14- Vendor shall provide detailed technical specs for the offered batteries with discharge tables and graphs.</p>					
15- Provision of a Remote Control for controlling the charger, on/off and modifying the timer and the dimming function.					
16- Provide and install all needed accessories and they should be stated in detail in the offer.					
17- The contractor should provide a Flex plate with the name of the project fixed on a roll up.					
18- Provision and installation of <u>9m lighting Pole in Harasta</u> and <u>8.5m lighting pole in Aleppo</u> , poles should be of the cone-ripped type:					

<ul style="list-style-type: none"> • The poles shall be like the ones installed in the according cities, protected with special protection paint two layers and on top of it two layers paint to be determined by the supervising committee. • Upper end of the pole shall have a diameter of 8 cm +/- 5 mm, and the lower one 25 cm +/- 10 mm. • Pole metal thickness shall be 4 mm. • Pole height 9 m. • Lower base of the pole 40 x 40 cm, 12 mm thick. • Fixation Screws shall be 80 cm long with a 28-mm cross section. • Fixation base is a 10-mm thick plate, dimensions 40x40 cm, 3 nuts for each screw to fix the 4 fixation screws on the fixation base. • The screws shall be of the hooked type for fixation inside the cement base with a length not less than 80 cm. • The fixation screws are interconnected within the cement base with horizontal bracelets 10 mm thick and a vertical distance 					
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<p>of not less than 20cm.</p> <ul style="list-style-type: none"> • The pole shall be supported by 1cm thick triangles with sides 6 x 15 cm, qty. 8 for each pole. • The pole should be one piece of metal sheet for the whole pole. • The contractor should disassemble any equipment on the existing poles and return them to the specified warehouse as per the supervising committee directions, if such a case exists. 					
<p>19-</p> <p>20- Supply and installation of a steel reinforced cement base for the pole 350kg/m³ – dimension (1*1*1.1) m³:</p> <ul style="list-style-type: none"> • Clean cement base (200kg/m³) at the bottom of the pole cement base with a thickness of at least 10cm and edge of 10cm at each side of the base. • The cement base shall be reinforced with steel in both vertical and horizontal directions: /6/ bars no less than 12mm in diameter of which the 4 middle bars shall be raised in the shape of a 					

21-	cage 1 meter high. Fixation Torque for ST-52 steel should be at least 520 Nm/mm ² for fixing the pole with the screws and plate and the cement base.					
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Other Related services and requirements <i>(based on the information provided in Section 5b)</i>	Compliance with requirements		Details or comments on the related requirements
	Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>	
e.g. Delivery Term			
Warranty			
Local Service Support			
Training			
Installation			
commissioning			

SECTION 3: Management Structure and Key Personnel

- 3.1 Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of the project describing the relationship of key positions and designations. Provide a spreadsheet to show the activities of each personnel and the time allocated for his/her involvement.
- 3.2 Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

Format for CV of Proposed Key Personnel

Name of Personnel	[Insert]
Position for this assignment	[Insert]
Nationality	[Insert]
Language proficiency	[Insert]
Education/Qualifications	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i>
	[Insert]
	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i>

Professional certifications	<ul style="list-style-type: none"> ▪ Name of institution: [Insert] ▪ Date of certification: [Insert]
Employment Record/ Experience	<p><i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i></p> <p>[Insert]</p>
References	<p><i>[Provide names, addresses, phone and email contact information for two (2) references]</i></p> <p>Reference 1: [Insert]</p> <p>Reference 2: [Insert]</p>

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

Signature of Personnel

Date (Day/Month/Year)

FORM F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder is required to prepare the Price Schedule following the below format. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided. Separate figures must be provided for each functional grouping or category, if any.

Any estimates for cost-reimbursable items, such as travel of experts and out-of-pocket expenses, should be listed separately.

Currency of the Bid: [Insert Currency]

Table 1: Price Schedule for Lot1: Supply and Installation of 130 Solar Lighting Unite in Aleppo:

Item #	Description	UOM	Quantity	Unit Price	Total Price
	22- Provision and installation of a 60-Watt LED street lamp: <ul style="list-style-type: none"> Nominal Voltage 24 VDC LED Array, made by Philips or any other equal product, installed on a proper heat sink for maximum heat dissipation. The LED should preferably consist of two arrays, in case one fails the second one remains working at half capacity. Provide the light beam distribution shape covering the road width and the distance between the lighting poles from 25 to 30 meters. Pole height is 9m. The LED driver circuit should be 24V nominal and not less than 100W also provided with a heat sink for heat dissipation. 		130		

	<p>The LED driver is part of the MPPT controller 3 in 1.</p> <ul style="list-style-type: none"> • 150 lum/w lightning efficiency • Greater or equal to 9,000 Luminous • Day-light 4000 to 5000K • Provided with a photo-cell for automatic switch on/off at dusk and dawn. Or any equivalent function to achieve this requirement. • Technical life more than 50,000 hours • The external cover is made of Aluminum Alloy and ASA/PC • Can be disassembled and changed • Aluminum cast casing • Tempered Glass • 5-year warranty • IP 65 • To be installed on a 1.2m-1.5m extension arm that matches the design of the pole. Should be fixed on the pole by screws or welding and can be adjusted in all directions. Or similar arms to the existing ones should be installed as per the directions of the supervising technical committee in charge. <p>Galvanized fixing structure for PV collectors. Angle of inclination for the PV collectors shall be 45 degrees.</p>				
	23- Provision and installation of PV solar Collectors:		130		

	<ul style="list-style-type: none"> • At least 265 Watt. Higher Power is preferred. • Monocrystalline solar panel. • 24 VDC – Nominal Voltage. • Voc not less than 38 V • Isc greater or equal to 10 A • Max Power Current: > 8.5 A • Max Power Voltage: > 30 V • Module efficiency: greater or equal to 16% • Integrated diodes to prevent reverse current and by-pass diodes • IP 66 • Comply with the standards: IEC-61215 or IEC-61730 • The Vendor must specify and provide the test and quality test certificates for the offered PV collectors (IEC, TUV, UL etc.) • Installation Inclination angle is 45 degrees • Direction of the PV panel is towards the south. • Connecting cables shall be of galvanized copper 1x4 mm². Red color for positive and black color for negative. <p>Warranty for 10 years against manufacturing defects. 90% output efficiency shall be guaranteed for (0 to +3%) and 80% for 25 years.</p>				
	<p>24- Provision and installation of a Charger/Controller:</p> <ul style="list-style-type: none"> • MPPT type • Nominal Voltage: 24 VDC • Charging current not less than 15A. • BMS (Battery Management System) must be used with Li batteries to protect them from 		130		

	<p>being overly charged or discharged. Cold charge disconnects for freezing temperatures.</p> <ul style="list-style-type: none"> • Prevents return currents from the battery to the solar panels. • Voltage regulation for battery charging. • Operating temperature up to 70 degrees Celsius. • IP 65. • Connecting cables between the charger and the light 4 mm². • Timer for up to 15 hours of operation. • Light dimming control with timer – at least three stages. • Light sensor to connect/disconnect the light or according to the PV voltage. • Remote control capability. • Change charging voltage per battery type used i.e. Gel, AGM, Flooded, lithium NMC and user defined type with voltage charging settings. • (*) Should have an integrated data-logger for all kind of readings and alarms. The logger should keep the data for at least 2 years. Possibility to download all data to a PC. A soft-ware that can display all readings, alarms and can display the production versus the consumption in graphics on a daily, weekly and monthly basis. (*) See Note below. <p>Charger should be made by Victron, SMA or what's equivalent to it, along with their quality control documentations.</p>				
	<p>25- Battery:</p> <ul style="list-style-type: none"> • Lithium NMC type. • Nominal Voltage 25.2 V 		130		

	<ul style="list-style-type: none"> • Capacity 65 Ahr – 1638 W • Operating temperature from 0 to 70 degrees Celsius. • Cable connecting between the battery and chargers 4 mm². • Battery poles are protected with heat shrink sleeves from the atmosphere to prevent oxidization. • Technical life equal or greater than 4 years. • The battery shall be of a well-known manufacturer and meet the EU / British standards. • The battery charging/discharging cycles shall be not less than 1000 cycles at DOD 70% on the current curve. <p>Vendor shall provide detailed technical specs for the offered batteries with discharge tables and graphs.</p>				
	Provision of a Remote Control for controlling the charger, on/off and modifying the timer and the dimming function.		13		
	Provide and install all needed accessories and they should be stated in detail in the offer.		130		
	The contractor should provide a Flex plate with the name of the project fixed on a roll up.		2		
26-	<p>Provision and installation of 8.5m lighting pole in Aleppo, poles should be of the cone-rippled type:</p> <ul style="list-style-type: none"> • The poles shall be like the ones installed in the according cities, protected with special protection paint two layers and on top of it two layers paint to be determined by the supervising committee. • Upper end of the pole shall have a diameter of 8 cm +/- 5 mm, and the lower one 25 cm +/- 10 mm. 		130		

	<ul style="list-style-type: none"> • Pole metal thickness shall be 4 mm. • Pole height 9 m. • Lower base of the pole 40 x 40 cm, 12 mm thick. • Fixation Screws shall be 80 cm long with a 28-mm cross section. • Fixation base is a 10-mm thick plate, dimensions 40x40 cm, 3 nuts for each screw to fix the 4 fixation screws on the fixation base. • The screws shall be of the hooked type for fixation inside the cement base with a length not less than 80 cm. • The fixation screws are interconnected within the cement base with horizontal bracelets 10 mm thick and a vertical distance of not less than 20cm. • The pole shall be supported by 1cm thick triangles with sides 6 x 15 cm, qty. 8 for each pole. • The pole should be one piece of metal sheet for the whole pole. • The contractor should disassemble any equipment on the existing poles and return them to the specified warehouse as per the supervising committee directions, if such a case exists. 				
	<p>27- Supply and installation of a steel reinforced cement base for the pole 350kg/m³ – dimension (1*1*1.1) m³:</p> <ul style="list-style-type: none"> • Clean cement base (200kg/m³) at the bottom of the pole cement base with a thickness of at least 10cm and edge of 10cm at each side of the base. • The cement base shall be reinforced with steel in both vertical and horizontal directions: /6/ bars no less than 12mm in diameter of which the 4 middle bars shall be raised in the shape of a cage 1 meter high. <p>Fixation Torque for ST-52 steel should be at least 520 Nm/mm² for</p>		130		

	fixing the pole with the screws and plate and the cement base.				
Bid Total DAP, off-loaded/cleared, Aleppo, Syria (Incoterms 2010)					
Installation					
Training					
Warranty					
After Sales					
GRAND TOTAL					

Name of Bidder: _____

Authorised signature: _____

Name of authorised signatory: _____

Functional Title: _____

Price Schedule for Lot 2: Supply and Installation of 140 Solar Lighting Units in Aleppo:

Item #	Description	UOM	Quantity	Unit Price	Total Price
	<p>28- Provision and installation of a 60-Watt LED street lamp:</p> <ul style="list-style-type: none"> Nominal Voltage 24 VDC LED Array, made by Philips or any other equal product, installed on a proper heat sink for maximum heat dissipation. The LED should preferably consist of two arrays, in case one fails the second one remains working at half capacity. Provide the light beam distribution shape covering the road width and the distance between the lighting poles from 25 to 30 meters. Pole height is 9m. The LED driver circuit should be 24V nominal and not less than 100W also provided with a heat sink for heat dissipation. The LED driver is part of the MPPT controller 3 in 1. 150 lum/w lightning efficiency Greater or equal to 9,000 Luminous Day-light 4000 to 5000K Provided with a photo-cell for automatic switch on/off at dusk and dawn. Or any equivalent function to achieve this requirement. 		140		

	<ul style="list-style-type: none"> • Technical life more than 50,000 hours • The external cover is made of Aluminum Alloy and ASA/PC • Can be disassembled and changed • Aluminum cast casing • Tempered Glass • 5-year warranty • IP 65 • To be installed on a 1.2m-1.5m extension arm that matches the design of the pole. Should be fixed on the pole by screws or welding and can be adjusted in all directions. Or similar arms to the existing ones should be installed as per the directions of the supervising technical committee in charge. <p>Galvanized fixing structure for PV collectors. Angle of inclination for the PV collectors shall be 45 degrees.</p>				
	<p>29- Provision and installation of PV solar Collectors:</p> <ul style="list-style-type: none"> • At least 265 Watt. Higher Power is preferred. • Monocrystalline solar panel. • 24 VDC – Nominal Voltage. • Voc not less than 38 V • Isc greater or equal to 10 A • Max Power Current: > 8.5 A • Max Power Voltage: > 30 V • Module efficiency: greater or equal to 16% • Integrated diodes to prevent reverse current and by-pass diodes • IP 66 		140		

	<ul style="list-style-type: none"> • Comply with the standards: IEC-61215 or IEC-61730 • The Vendor must specify and provide the test and quality test certificates for the offered PV collectors (IEC, TUV, UL etc.) • Installation Inclination angle is 45 degrees • Direction of the PV panel is towards the south. • Connecting cables shall be of galvanized copper 1x4 mm². Red color for positive and black color for negative. <p>Warranty for 10 years against manufacturing defects. 90% output efficiency shall be guaranteed for (0 to +3%) and 80% for 25 years.</p>				
	<p>30- Provision and installation of a Charger/Controller:</p> <ul style="list-style-type: none"> • MPPT type • Nominal Voltage: 24 VDC • Charging current not less than 15A. • BMS (Battery Management System) must be used with Li batteries to protect them from being overly charged or discharged. Cold charge disconnects for freezing temperatures. • Prevents return currents from the battery to the solar panels. • Voltage regulation for battery charging. • Operating temperature up to 70 degrees Celsius. • IP 65. • Connecting cables between the charger and the light 4 mm². • Timer for up to 15 hours of operation. 		140		

	<ul style="list-style-type: none"> • Light dimming control with timer – at least three stages. • Light sensor to connect/disconnect the light or according to the PV voltage. • Remote control capability. • Change charging voltage per battery type used i.e. Gel, AGM, Flooded, lithium NMC and user defined type with voltage charging settings. • (*) Should have an integrated data-logger for all kind of readings and alarms. The logger should keep the data for at least 2 years. Possibility to download all data to a PC. A soft-ware that can display all readings, alarms and can display the production versus the consumption in graphics on a daily, weekly and monthly basis. (*) See Note below. <p>Charger should be made by Victron, SMA or what's equivalent to it, along with their quality control documentations.</p>				
	<p>31- Battery:</p> <ul style="list-style-type: none"> • Lithium NMC type. • Nominal Voltage 25.2 V • Capacity 65 Ahr – 1638 W • Operating temperature from 0 to 70 degrees Celsius. • Cable connecting between the battery and chargers 4 mm². • Battery poles are protected with heat shrink sleeves from the atmosphere to prevent oxidization. • Technical life equal or greater than 4 years. • The battery shall be of a well-known manufacturer and meet the EU / British standards. 		140		

	<ul style="list-style-type: none"> The battery charging/discharging cycles shall be not less than 1000 cycles at DOD 70% on the current curve. Vendor shall provide detailed technical specs for the offered batteries with discharge tables and graphs. 				
	Provision of a Remote Control for controlling the charger, on/off and modifying the timer and the dimming function.		13		
	Provide and install all needed accessories and they should be stated in detail in the offer.		140		
	The contractor should provide a Flex plate with the name of the project fixed on a roll up.		2		
	<p>32- Provision and installation of <u>9m lighting Pole in Harasta</u> and</p> <ul style="list-style-type: none"> The poles shall be like the ones installed in the according cities, protected with special protection paint two layers and on top of it two layers paint to be determined by the supervising committee. Upper end of the pole shall have a diameter of 8 cm +/- 5 mm, and the lower one 25 cm +/- 10 mm. Pole metal thickness shall be 4 mm. Pole height 9 m. Lower base of the pole 40 x 40 cm, 12 mm thick. Fixation Screws shall be 80 cm long with a 28-mm cross section. Fixation base is a 10-mm thick plate, dimensions 40x40 cm, 3 nuts for each screw to fix the 4 fixation screws on the fixation base. The screws shall be of the hooked type for fixation inside the cement base with a length not less than 80 cm. The fixation screws are interconnected within the 		140		

	<p>cement base with horizontal bracelets 10 mm thick and a vertical distance of not less than 20cm.</p> <ul style="list-style-type: none"> • The pole shall be supported by 1cm thick triangles with sides 6 x 15 cm, qty. 8 for each pole. • The pole should be one piece of metal sheet for the whole pole. • The contractor should disassemble any equipment on the existing poles and return them to the specified warehouse as per the supervising committee directions, if such a case exists. 				
	<p>33- Supply and installation of a steel reinforced cement base for the pole 350kg/m³ – dimension (1*1*1.1) m³:</p> <ul style="list-style-type: none"> • Clean cement base (200kg/m³) at the bottom of the pole cement base with a thickness of at least 10cm and edge of 10cm at each side of the base. • The cement base shall be reinforced with steel in both vertical and horizontal directions: /6/ bars no less than 12mm in diameter of which the 4 middle bars shall be raised in the shape of a cage 1 meter high. <p>Fixation Torque for ST-52 steel should be at least 520 Nm/mm² for fixing the pole with the screws and plate and the cement base.</p>		140		
Bid Total DAP, off-loaded/cleared, Harasta, Rural Damascus, Syria (Incoterms 2010)					
Installation					
Training					
Warranty					
After Sales					
GRAND TOTAL					

Name of Bidder: _____

Authorised signature: _____

Name of authorised signatory: _____

Functional Title: _____

FORM G: Form of Bid Security

**Bid Security must be issued using the official letterhead of the Issuing Bank.
Except for indicated fields, no changes may be made on this template.**

To: UNDP
[Insert contact information as provided in Data Sheet]

WHEREAS [Name and address of Bidder] (hereinafter called "the Bidder") has submitted a Bid to UNDP dated [Click here to enter a date.](#) to execute goods and/or services [Insert Title of Goods and/or Services] (hereinafter called "the Bid"):

AND WHEREAS it has been stipulated by you that the Bidder shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security if the Bidder:

- a) Fails to sign the Contract after UNDP has awarded it;
- b) Withdraws its Bid after the date of the opening of the Bids;
- c) Fails to comply with UNDP's variation of requirement, as per ITB instructions; or
- d) Fails to furnish Performance Security, insurances, or other documents that UNDP may require as a condition to rendering the contract effective.

AND WHEREAS we have agreed to give the Bidder such Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Bidder, up to a total of *[amount of guarantee] [in words and numbers]*, such sum being payable in the types and proportions of currencies in which the Price Bid is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[amount of guarantee as aforesaid]* without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

This guarantee shall be valid up to 30 days after the final date of validity of bids.

SIGNATURE AND SEAL OF THE GUARANTOR BANK

Signature: _____

Name: _____

Title: _____

Date: _____

Name of Bank _____

Address _____

[Stamp with official stamp of the Bank]