

REQUEST FOR PROPOSAL (RFP)

For Provision of Consultancy Service for Feasibility & market assessment study to determine potential for upscaling the use of Solar Water Pumps in Cambodia (Process 35-53608)

Phnom Penh, Cambodia October 6, 2017

Dear Sir / Madam:

We kindly request you to submit your Proposal for provision of **Consultancy Service for the Feasibility & market assessment study to determine potential for upscaling the use of Solar Water Pumps in Cambodia.**

Please be guided by the forms attached hereto as Annex B and C, in preparing your Proposal.

Your offer, <u>comprising of a Technical and Financial Proposal, in separate sealed</u> <u>envelopes</u>, must be submitted to the following address <u>no later than 25 October 2017 by 11:00</u> <u>a.m., local time</u>. Late submission shall be rejected. Submission by email will not be accepted.

UNDP Cambodia, Registry Office (Building No. 3)
No. 18, Pasteur Street, Boeung Keng Kang I
PO Box 877, Phnom Penh, Cambodia
Attn: Procurement Analyst, Procurement Unit

Your Proposal must be expressed in the *English*, and valid for a minimum period of *90 days*

In the course of preparing your Proposal, it shall remain your responsibility to ensure that it reaches the address above on or before the deadline. Proposals that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation.

Services proposed shall be reviewed and evaluated based on completeness and compliance of the Proposal and responsiveness with the requirements of the RFP and all other annexes providing details of UNDP requirements.

The Proposal that complies with all of the requirements, meets all the evaluation criteria and offers the best value for money shall be selected and awarded the contract. Any offer that does not meet the requirements shall be rejected.

Any discrepancy between the unit price and the total price shall be re-computed by UNDP, and the unit price shall prevail and the total price shall be corrected. If the Service Provider does not accept the final price based on UNDP's re-computation and correction of errors, its Proposal will be rejected.

No price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted by UNDP after it has received the Proposal. At the time of Award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, 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.

Any Contract or Purchase Order that will be issued as a result of this RFP shall be subject to the General Terms and Conditions attached hereto. The mere act of submission of a Proposal implies that the Service Provider accepts without question the General Terms and Conditions of UNDP, herein attached as Annex D.

Please be advised that UNDP is not bound to accept any Proposal, nor award a contract or Purchase Order, nor be responsible for any costs associated with a Service Providers preparation and submission of a Proposal, regardless of the outcome or the manner of conducting the selection process.

UNDP's vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a Purchase Order or Contract in a competitive procurement process. In the event that you believe you have not been fairly treated, you can find detailed information about vendor protest procedures in the following link:

http://www.undp.org/content/undp/en/home/operations/procurement/protestandsanctions/

UNDP encourages every prospective Service Provider to prevent and avoid conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, cost estimates, and other information used in this RFP.

UNDP implements a zero tolerance on fraud and other proscribed practices, and is committed to preventing, identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities. UNDP expects its Service Providers to adhere to the UN Supplier Code of Conduct found in this link: http://www.un.org/depts/ptd/pdf/conduct_english.pdf

Thank you and we look forward to receiving your Proposal.

Sincerely yours,

Sereyvattana Chan Procurement Analyst

Annex A

Description of Requirements

Canada afala	Feasibility & market assessment study to determine potential for upscaling the
Context of the	use of Solar Water Pumps in Cambodia
Requirement	As you Towns of Defeven so
Brief Description of the	As per Terms of Reference
Required Services ¹	D : 11
List and Description of	Detailed work plan submitted to UNDP for endorsement Output Detailed work plan submitted to UNDP for endorsement Detailed work plan submitted to UNDP for endorsement
Expected Outputs to be Delivered	Preliminary findings of the technical feasibility and market assessment
Delivered	of the SWP
	Draft Report of the feasibility and market assessment study of the SWP Africa of Name
	in Microsoft Word
	Final proof-read version of the feasibility and market assessment report OND in Missage (CM) and EDDE.
Barrella Caracita de	of the SWP in Microsoft Word and PDF
Person to Supervise the	Carrian Dalian Advison LINDD Carria adia
Work/Performance of the	Senior Policy Advisor, UNDP Cambodia
Service Provider	Through amail talanhana/Clausa sayrasa and an sa an an anthlichasis and other
Frequency of Reporting	Through email, telephone/Skype correspondence on a monthly basis and when
Due succes De la cutilia su	needed based on the arising issues.
Progress Reporting	n/a
Requirements	Hans Based and Blancus Bank Combadia
La cation of words	Home Based, and Phnom Penh, Cambodia
Location of work	Navarahar 2017 Ian 2010
Expected duration of work	November 2017-Jan 2018
Target start date	November 2017
Latest completion date	January 2018 Phnom Penh, Cambodia
Travels Expected	Prinom Penn, Camboula
Travels Expected Special Security	N/A
Requirements	IV/A
Facilities to be Provided	
by UNDP (i.e., must be	N/A
excluded from Price	IV/A
Proposal)	
Implementation Schedule	
indicating breakdown	⊠ Required
and timing of	Marie Mari
activities/sub-activities	
Names and curriculum	
vitae of individuals who	⊠ Required
will be involved in	required
completing the services	
Currency of Proposal	
, , , , , ,	☑ United States Dollars

 $^{^1}$ A detailed TOR may be attached if the information listed in this Annex is not sufficient to fully describe the nature of the work and other details of the requirements.

Value Added Tax on Price Proposal ²	☑ must be exclusive of VAT and other applicable indirect taxes				
Validity Period of Proposals (Counting for the last day of submission of quotes)	☑ 90 days In exceptional circumstances, UNDP may request the Proposer to extend the validity of the Proposal beyond what has been initially indicated in this RFP. The Proposal shall then confirm the extension in writing, without any modification whatsoever on the Proposal.				
Partial Quotes	⊠ No	ot permitted			
Payment Terms ³	N	Deliverables/Outputs	Target Due Dates	Payment amount	
	1	Detailed work plan submitted to UNDP for endorsement	One week of signature	20%	
	2	Preliminary findings of the technical feasibility and market assessment of the SWP	Seven weeks after signature	40%	
	3	Draft Report of the feasibility and market assessment study of the SWP in Microsoft Word	Nine weeks after signature	30%	
	4	Final proof-read version of the feasibility and market assessment report of the SWP in Microsoft Word and PDF	12 weeks after signature	10%	
Person(s) to review/inspect/ approve	Senio	r Policy Advisor, UNDP Cambodia			
outputs/completed services and authorize the disbursement of payment					
Type of Contract to be Signed	⊠ Co	☑ Contract for Professional Services			
Preliminary Examination	UNDP shall examine the Proposals to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, whether or not the Proposer is in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's list of suspended and removed vendors, and whether the Proposals are generally in order, among other indicators that may be used at this stage.				

 $^{^2}$ VAT exemption status varies from one country to another. Pls. check whatever is applicable to the UNDP CO/BU requiring the service.

³ UNDP preference is not to pay any amount in advance upon signing of contract. If the Service Provider strictly requires payment in advance, it will be limited only up to 20% of the total price quoted. For any higher percentage, or any amount advanced exceeding \$30,000, UNDP shall require the Service Provider to submit a bank guarantee or bank cheque payable to UNDP, in the same amount as the payment advanced by UNDP to the Service Provider.

The below requirements will be reviewed under Preliminary Examination before proceeding with the evaluation. UNDP may reject any Proposal at this stage.

- 1. Legally organization with Certificate of Business Registration, Patent, VAT Certificates, including Articles of Incorporation, or equivalent documents if Bidder is not a corporation.
- 2. Form for Submitting Service Provider's Technical Proposal is duly completed and signed as per **Annex-B** (completion in the template in Annex-B is mandatory for bidder as the form would allow bidders to confirm its conformity with the requirements defined in the Request for Proposal and all its attachments, as well as the provision of UNDP General Contract Terms and Conditions required under this process). Bidders may choose to use its own template and acceptable if it is duly signed by authorized person and confirm the same as Annex-B.
- 3. Technical and Financial Proposals are submitted in separate sealed envelopes.
- 4. Proposer is not in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's list of suspended and removed vendors.

Criteria for Contract Award

☐ Having received the Highest Combined Score (based on the 70% technical weight and 30% price weight distribution)

The total score for each proposal will be calculated independently by the following formula:

Rating the Technical Proposal (TP):

TP Rating = (Total Score Obtained by the Offer / Max. Obtainable Score for TP) x 100

Rating the Financial Proposal (FP):

FP Rating = (Lowest Priced Offer / Price of the Offer Being Reviewed) x 100

Total Combined Score:

(TP Rating) x Weight of TP (70%)

+ (FP Rating) x Weight of FP (30%)

Total Combined and Final Rating of the Proposal

☑ Full acceptance of the UNDP Contract General Terms and Conditions (GTC). This is a mandatory criteria and cannot be deleted regardless of the nature of services required. Non acceptance of the GTC will be grounds for the rejection of the Proposal.

Stage 1: Technical Proposal Evaluation (70%)

Criteria for the Assessment of Proposal

The Technical Proposal of the offerors will be evaluated based on the following criteria:

The total number of points allocated for the technical proposal is 1000. The technical proposal of the offeror is evaluated based on following criteria:

No.	Summary of Technical Proposal Evaluation Forms	Points Obtainable
1	Expertise of organization	250
2	Proposed Approach and methodology	250
3	Proposed Personnel	500
	Total	1000

No.	Technical Proposal Evaluation Form 1: Expertise of organization	Points Obtainable
1	Reputation of Organization and Staff / Size of the Organization/Credibility / Reliability / Financial stability	60
2	5 years' experience related to public and private sector activities in climate change and renewable energy investment (particularly related to solar PV). Experience with research-based, quantitative analyses and reports is preferred.	100
3	Experience working in the last 5 years in developing country contexts preferred. Experience within the last 5 years' in the region is a further advantage.	50
4	Experience working in the last 5 years with bilateral or multilateral organizations and/or the UN system preferred.	40
	Total:	250

No.	Proposed Approach	Points Obtainable
1	To what degree does the Offeror understand the task? Have the important aspects of the task been addressed in sufficient detail?	100
2	Is the scope of task well defined and does it correspond to the TOR?	100
3	Is the presentation clear and is the sequence of activities and the planning logical, realistic and promise efficient implementation to the project?	50
	Total	250

No.	Proposed personnel	Points
1	Toom London (1 norson)	Obtainable 150
	Team Leader (1 person): • Bachelor's degree or equivalent in energy,	150
	engineering, finance, economics,	
	international affairs, or other related field.	
	Personnel with Master's or equivalent	
	degrees will be at an advantage. (20 points)	
	At least 10 years of experience with	
	renewable energy investment. (50 points)	
	Experience making a financial assessment for	
	investments. (20 points)	
	 Experience in preparing market based 	
	assessment or similar reports. (20 points)	
	 Experience working in developing country 	
	contexts preferred. Experience working in	
	the region is a further advantage. (20 points)	
	 Experience managing a team of consultants 	
	and consolidating the findings of the experts	
	into a coherent report. (20 points)	
2	Renewable energy/solar PV expert (1 person):	150
	 Bachelor's degree or equivalent in energy, 	
	engineering, finance, economics,	
	international affairs, or other related field.	
	Personnel with Master's or equivalent	
	degrees will be at an advantage. (20 points)	
	At least 7 years of experience with renewable	
	energy investment, in particular solar PV. (50points)	
	 Excellent research based quantitative skills. 	
	Strong writing and drafting skills. (40 points)	
	Experience working in developing country	
	contexts preferred. Experience working in	
	the region is a further advantage. (40 points)	
3	Water resource expert/hydrologist (1 person):	100
	Bachelor's degree or equivalent in	
	physical/natural/environmental science	
	including hydrology and climate change or	
	other related field. Personnel with Master's or	
	equivalent degrees will be at an advantage.	
	(20 points)	
	At least 7 years of experience with hydrology	
	field. (30 points)	
	Excellent research based modelling skills	
	including hydrology. (30 points)	
	Experience working in developing country	
	contexts preferred. Experience working in the	
	region is a further advantage. (20 points)	

	 Bachelor's degree or equivalent in economics, social or other related fields to the assignment. (20 points) Substantive experience in conducting similar (energy) market assessment and household surveys. (30 points) Experience with preparing questionnaires and managing a team of local surveyors preferred. (30 points) Experience and knowledge of circumstances in Cambodia is strongly preferred. (20 points) 	100 500	
	The minimum score required to pass the evaluation of technical proposal of the total obtainable score of 1,000 points. Stage 2: Financial Proposal (30%) Only the Financial Proposal of the Service Providers that passed technical score of 70% of the obtainable score of 1000 points in of the technical proposals will only be considered and opened using the above formula.	I the minimum the evaluation	
Post Qualification Review	UNDP reserves the right to undertake a post-qualification exercise aimed at determining, to its satisfaction the validity of the information provided by the Proposer. Such post-qualification shall be fully documented and, among those that may be listed in the Terms of Reference, may include, but need not be limited to, all or any combination of the following:		
	 a) Verification of accuracy, correctness and authenticity of provided by the Proposer on the legal, technical documents submitted; b) Validation of extent of compliance to the RFP requevaluation criteria based on what has so far been evaluation team; c) Inquiry and reference checking with other previous quality of performance on ongoing or previous contract d) Physical inspection of the Proposer's offices, branches of where business transpires, with or without notice to the e) Other means that UNDP may deem appropriate, at an the selection process, prior to awarding the contract. 	and financial airements and found by the clients on the ts completed; or other places Proposer; and	
UNDP will award the contract to:	☑ One Service Provider		

	 Form for Submission of Technical Proposal (Annex B) 		
Annexes to this RFP ⁴	 Form for Submission of Financial Proposal (Annex C) 		
	 General Terms and Conditions / Special Conditions (Annex D) 		
	Terms of Reference (Annex E)		
	UNDP Cambodia		
Contact Person for	Registry Office (located in Building No. 3, Ground Floor)		
Inquiries	No. 53, Pasteur Street,		
(Written inquiries only) ⁵	PO Box 877, Phnom Penh, Cambodia		
	Tel: 023 216 167, Fax: 023 216 257		
	Attn: Procurement Unit,		
	E-mail: <u>procurement.kh@undp.org</u>		
	Any delay in UNDP's response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers.		

⁴ Where the information is available in the web, a URL for the information may simply be provided.
⁵ This contact person and address is officially designated by UNDP. If inquiries are sent to other person/s or address/es, even if they are UNDP staff, UNDP shall have no obligation to respond nor can UNDP confirm that the query was received.

FORM FOR SUBMITTING SERVICE PROVIDER'S TECHNICAL PROPOSAL⁶

(This Form must be submitted only using the Service Provider's Official Letterhead/Stationery⁷)

[insert: Location]. [insert: Date]

To: [insert: Name and Address of UNDP focal point]

Name of Proposing Organization / Firm:	
Country of Registration:	
Name of Contact Person for this	
Proposal:	
Address:	
Phone / Fax:	
Email:	

Dear Sir/Madam:

We, the undersigned, hereby offer to render the following services to UNDP in conformity with the requirements defined in the **Request for Proposal (RFP) dated 6 October 2017**, and all of its attachments, as well as the provisions of the UNDP General Contract Terms and Conditions.

Name and Signature of the Service Provider's
Authorized Person]
Designation]
Date]

A. Qualifications of the Service Provider

This section should describe the organizational unit that will be responsible for the contract, and the general management approach towards this project. This should fully explain the Bidder's resources in terms of personnel and other resources necessary for achieving project results. The Service Provider must describe and explain how and why they are the best entity that can deliver the requirements of UNDP by indicating the following:

a) Profile – provide description of the organization/firm including the year, staffs structure,

⁶ This serves as a guide to the Service Provider in preparing the Proposal.

⁷ Official Letterhead/Stationery must indicate contact details – addresses, email, phone and fax numbers – for verification purposes

- and state/country of incorporation and a brief description of the Bidder's present activities (focusing on the services related to the Proposal). The Bidder should describe its experience in similar projects;
- b) Business Licenses Registration Papers, Tax Payment Certification, etc.;
- c) Track Record list of clients for similar services indicating description of contract scope, contract duration, contract value, and contact references within the last 5 years;
- d) Certificates and Accreditation including Quality Certificates, Patent Registrations, Environmental Sustainability Certificates, etc. (if any)
- e) Written Self-Declaration that the Service Provider is not in the UN Security Council 1267/1989 List, UN Procurement Division List or Other UN Ineligibility List.

B. Proposed Methodology for the Completion of Services

This section should demonstrate the Bidder's responsiveness to the requirements/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 methodology meets or exceeds the requirements. The Service Provider must describe how it will address/deliver the demands of the Request for Proposal document.

C. Qualifications of Key Personnel

The service provider shall submit the proposed team structure to successfully deliver the
assignment. The specific roles and responsibilities of each team member as required in the
Request for Proposal document shall be clearly presented. The service provider shall also
provide the updated CV of each team member as the supporting evidence of their
qualification.

FORM FOR SUBMITTING SERVICE PROVIDER'S FINANCIAL PROPOSAL8

(This Form must be submitted only using the Service Provider's Official Letterhead/Stationery®)

[insert: Location]. [insert: Date]

To: [insert: Name and Address of UNDP focal point]

The Financial Proposal must provide a detailed cost breakdown. Provide separate figures for each functional grouping or category.

A. Cost Breakdown of Outputs/Tasks [This is only an Example]:

The Proposers are requested to provide the cost breakdown for each project based on the following format. UNDP shall use the cost breakdown for the price reasonability assessment purposes as well as the calculation of price in the event that both parties have agreed to add new deliverables to the scope of Services.

		Position	Time Input in Day/Month/Quantity	Person Remuneration/ Unit Rate	Total
Out	come XX				
	Output XX				
1	Personnel Services				
	a. Expertise 1		[Home]		
			[Field]		
	b. Expertise 2		[Home]		
			[Field]		
2	Other Related Costs				
	Output XX				
1	Personnel Services				
	a. Expertise 1		[Home]		
			[Field]		
	b. Expertise 2		[Home]		
			[Field]		
2	Other Related Costs				

⁸ This serves as a guide to the Service Provider in preparing the Proposal.

⁹ Official Letterhead/Stationery must indicate contact details – addresses, email, phone and fax numbers – for verification purposes

B. Cost Breakdown by Cost Component [This is only an Example]:

Description of Activity	Total Period of Engagement	Total Person Remuneration/Unit Rate	Total
I. Personnel Services			
1. Services from Home Office			
a. Expertise 1			
b. Expertise 2			
2. Services from Field Offices			
a. Expertise 1			
b. Expertise 2			
II. Other Related Costs			
1. Travel Costs			
2. Daily Allowance			
3. Communications			
4. Reproduction			
5. Equipment Lease			
6. Others			

[Name and Signature of the Service Provider's Authorized Person]
[Designation]
[Date]

NOTE: WHEN SUBMITTING YOUR BID DOCUMENTS, PLEASE CAREFULLY PLACE THE TECHNICAL AND FINANCIAL PROPOSALS IN SEPARATE SEALED ENVELOPES.

General Terms and Conditions for Services

1.0 LEGAL STATUS:

The Contractor shall be considered as having the legal status of an independent contractor vis-à-vis the United Nations Development Programme (UNDP). The Contractor's personnel and sub-contractors shall not be considered in any respect as being the employees or agents of UNDP or the United Nations.

2.0 SOURCE OF INSTRUCTIONS:

The Contractor shall neither seek nor accept instructions from any authority external to UNDP in connection with the performance of its services under this Contract. The Contractor shall refrain from any action that may adversely affect UNDP or the United Nations and shall fulfill its commitments with the fullest regard to the interests of UNDP.

3.0 CONTRACTOR'S RESPONSIBILITY FOR EMPLOYEES:

The Contractor shall be responsible for the professional and technical competence of its employees and will select, for work under this Contract, reliable individuals who will perform effectively in the implementation of this Contract, respect the local customs, and conform to a high standard of moral and ethical conduct.

4.0 ASSIGNMENT:

The Contractor shall not assign, transfer, pledge or make other disposition of this Contract or any part thereof, or any of the Contractor's rights, claims or obligations under this Contract except with the prior written consent of UNDP.

5.0 SUB-CONTRACTING:

In the event the Contractor requires the services of sub-contractors, the Contractor shall obtain the prior written approval and clearance of UNDP for all sub-contractors. The approval of UNDP of a sub-contractor shall not relieve the Contractor of any of its obligations under this Contract. The terms of any sub-contract shall be subject to and conform to the provisions of this Contract.

6.0 OFFICIALS NOT TO BENEFIT:

The Contractor warrants that no official of UNDP or the United Nations has received or will be offered by the Contractor any direct or indirect benefit arising from this Contract or the award thereof. The Contractor agrees that breach of this provision is a breach of an essential term of this Contract.

7.0 INDEMNIFICATION:

The Contractor shall indemnify, hold and save harmless, and defend, at its own expense, UNDP, its officials, agents, servants and employees from and against all suits, claims, demands, and liability of any nature or kind, including their costs and expenses, arising out of acts or omissions of the Contractor, or the Contractor's employees, officers, agents or subcontractors, in the performance of this Contract. This provision shall extend, inter alia, to claims and liability in the nature of workmen's compensation, products liability and liability arising out of the use of patented inventions or devices, copyrighted material or other intellectual property by the Contractor, its employees, officers, agents, servants or subcontractors. The obligations under this Article do not lapse upon termination of this Contract.

8.0 INSURANCE AND LIABILITIES TO THIRD PARTIES:

- **8.1** The Contractor shall provide and thereafter maintain insurance against all risks in respect of its property and any equipment used for the execution of this Contract.
- **8.2** The Contractor shall provide and thereafter maintain all appropriate workmen's compensation insurance, or the equivalent, with respect to its employees to cover claims for personal injury or death in connection with this Contract.
- **8.3** The Contractor shall also provide and thereafter maintain liability insurance in an adequate amount to cover third party claims for death or bodily injury, or loss of or damage to property, arising from or in connection with the provision of services under this Contract or the operation of any vehicles, boats, airplanes or other equipment owned or leased by the Contractor or its agents, servants, employees or subcontractors performing work or services in connection with this Contract.
- **8.4** Except for the workmen's compensation insurance, the insurance policies under this Article shall:
 - **8.4.1** Name UNDP as additional insured;
 - **8.4.2** Include a waiver of subrogation of the Contractor's rights to the insurance carrier against the UNDP;
 - **8.4.3** Provide that the UNDP shall receive thirty (30) days written notice from the insurers prior to any cancellation or change of coverage.
 - **8.5** The Contractor shall, upon request, provide the UNDP with satisfactory evidence of the insurance required under this Article.

9.0 ENCUMBRANCES/LIENS:

The Contractor shall not cause or permit any lien, attachment or other encumbrance by any person to be placed on file or to remain on file in any public office or on file with the UNDP against any monies due or to become due for any work done or materials furnished under this Contract, or by reason of any other claim or demand against the Contractor.

10.0 TITLE TO EQUIPMENT:

Title to any equipment and supplies that may be furnished by UNDP shall rest with UNDP and any such equipment shall be returned to UNDP at the conclusion of this Contract or when no longer needed by the Contractor. Such equipment, when returned to UNDP, shall be in the

same condition as when delivered to the Contractor, subject to normal wear and tear. The Contractor shall be liable to compensate UNDP for equipment determined to be damaged or degraded beyond normal wear and tear.

11.0 COPYRIGHT, PATENTS AND OTHER PROPRIETARY RIGHTS:

- 11.1 Except as is otherwise expressly provided in writing in the Contract, the UNDP shall be entitled to all intellectual property and other proprietary rights including, but not limited to, patents, copyrights, and trademarks, with regard to products, processes, inventions, ideas, know-how, or documents and other materials which the Contractor has developed for the UNDP under the Contract and which bear a direct relation to or are produced or prepared or collected in consequence of, or during the course of, the performance of the Contract, and the Contractor acknowledges and agrees that such products, documents and other materials constitute works made for hire for the UNDP.
- 11.2 To the extent that any such intellectual property or other proprietary rights consist of any intellectual property or other proprietary rights of the Contractor: (i) that pre-existed the performance by the Contractor of its obligations under the Contract, or (ii) that the Contractor may develop or acquire, or may have developed or acquired, independently of the performance of its obligations under the Contract, the UNDP does not and shall not claim any ownership interest thereto, and the Contractor grants to the UNDP a perpetual license to use such intellectual property or other proprietary right solely for the purposes of and in accordance with the requirements of the Contract.
- 11.3 At the request of the UNDP; the Contractor shall take all necessary steps, execute all necessary documents and generally assist in securing such proprietary rights and transferring or licensing them to the UNDP in compliance with the requirements of the applicable law and of the Contract.
- 11.4 Subject to the foregoing provisions, all maps, drawings, photographs, mosaics, plans, reports, estimates, recommendations, documents, and all other data compiled by or received by the Contractor under the Contract shall be the property of the UNDP, shall be made available for use or inspection by the UNDP at reasonable times and in reasonable places, shall be treated as confidential, and shall be delivered only to UNDP authorized officials on completion of work under the Contract.

12.0 USE OF NAME, EMBLEM OR OFFICIAL SEAL OF UNDP OR THE UNITED NATIONS:

The Contractor shall not advertise or otherwise make public the fact that it is a Contractor with UNDP, nor shall the Contractor, in any manner whatsoever use the name, emblem or official seal of UNDP or THE United Nations, or any abbreviation of the name of UNDP or United Nations in connection with its business or otherwise.

13.0 CONFIDENTIAL NATURE OF DOCUMENTS AND INFORMATION:

Information and data that is considered proprietary by either Party and that is delivered or disclosed by one Party ("Discloser") to the other Party ("Recipient") during the course of performance of the Contract, and that is designated as confidential ("Information"), shall be held in confidence by that Party and shall be handled as follows:

- **13.1** The recipient ("Recipient") of such information shall:
 - **13.1.1** use the same care and discretion to avoid disclosure, publication or dissemination of the Discloser's Information as it uses with its own similar information that it does not wish to disclose, publish or disseminate; and,
 - **13.1.2** use the Discloser's Information solely for the purpose for which it was disclosed.
- 13.2 Provided that the Recipient has a written agreement with the following persons or entities requiring them to treat the Information confidential in accordance with the Contract and this Article 13, the Recipient may disclose Information to:
 - **13.2.1** any other party with the Discloser's prior written consent; and,
 - **13.2.2** the Recipient's employees, officials, representatives and agents who have a need to know such Information for purposes of performing obligations under the Contract, and employees officials, representatives and agents of any legal entity that it controls controls it, or with which it is under common control, who have a need to know such Information for purposes of performing obligations under the Contract, provided that, for these purposes a controlled legal entity means:
 - **13.2.2.1** a corporate entity in which the Party owns or otherwise controls, whether directly or indirectly, over fifty percent (50%) of voting shares thereof; or,
 - **13.2.2.2** any entity over which the Party exercises effective managerial control; or,
 - **13.2.2.3** for the UNDP, an affiliated Fund such as UNCDF, UNIFEM and UNV.
- 13.3 The Contractor may disclose Information to the extent required by law, provided that, subject to and without any waiver of the privileges and immunities of the United Nations, the Contractor will give the UNDP sufficient prior notice of a request for the disclosure of Information in order to allow the UNDP to have a reasonable opportunity to take protective measures or such other action as may be appropriate before any such disclosure is made.
- 13.4 The UNDP may disclose Information to the extent as required pursuant to the Charter of the UN, resolutions or regulations of the General Assembly, or rules promulgated by the Secretary-General.
- 13.5 The Recipient shall not be precluded from disclosing Information that is obtained by the Recipient from a third party without restriction, is disclosed by the Discloser to a third party without any obligation of confidentiality, is previously known by the Recipient, or at any time is developed by the Recipient completely independently of any disclosures hereunder.
- 13.6 These obligations and restrictions of confidentiality shall be effective during the term of the Contract, including any extension thereof, and, unless otherwise provided in the Contract, shall remain effective following any termination of the Contract.

14.0 FORCE MAJEURE; OTHER CHANGES IN CONDITIONS

- In the event of and as soon as possible after the occurrence of any cause constituting force majeure, the Contractor shall give notice and full particulars in writing to the UNDP, of such occurrence or change if the Contractor is thereby rendered unable, wholly or in part, to perform its obligations and meet its responsibilities under this Contract. The Contractor shall also notify the UNDP of any other changes in conditions or the occurrence of any event that interferes or threatens to interfere with its performance of this Contract. On receipt of the notice required under this Article, the UNDP shall take such action as, in its sole discretion; it considers to be appropriate or necessary in the circumstances, including the granting to the Contractor of a reasonable extension of time in which to perform its obligations under this Contract.
- 14.2 If the Contractor is rendered permanently unable, wholly, or in part, by reason of force majeure to perform its obligations and meet its responsibilities under this Contract, the UNDP shall have the right to suspend or terminate this Contract on the same terms and conditions as are provided for in Article 15, "Termination", except that the period of notice shall be seven (7) days instead of thirty (30) days.
- **14.3** Force majeure as used in this Article means acts of God, war (whether declared or not), invasion, revolution, insurrection, or other acts of a similar nature or force.
- 14.4 The Contractor acknowledges and agrees that, with respect to any obligations under the Contract that the Contractor must perform in or for any areas in which the UNDP is engaged in, preparing to engage in, or disengaging from any peacekeeping, humanitarian or similar operations, any delays or failure to perform such obligations arising from or relating to harsh conditions within such areas or to any incidents of civil unrest occurring in such areas shall not, in and of itself, constitute force majeure under the Contract..

15.0 TERMINATION

- 15.1 Either party may terminate this Contract for cause, in whole or in part, upon thirty (30) days notice, in writing, to the other party. The initiation of arbitral proceedings in accordance with Article 16.2 ("Arbitration"), below, shall not be deemed a termination of this Contract.
- 15.2 UNDP reserves the right to terminate without cause this Contract at any time upon 15 days prior written notice to the Contractor, in which case UNDP shall reimburse the Contractor for all reasonable costs incurred by the Contractor prior to receipt of the notice of termination.
- 15.3 In the event of any termination by UNDP under this Article, no payment shall be due from UNDP to the Contractor except for work and services satisfactorily performed in conformity with the express terms of this Contract.
- 15.4 Should the Contractor be adjudged bankrupt, or be liquidated or become insolvent, or should the Contractor make an assignment for the benefit of its creditors, or should a Receiver be appointed on account of the insolvency of the Contractor, the UNDP may, without prejudice to any other right or remedy it may have under the terms of these conditions, terminate this Contract forthwith. The Contractor shall immediately inform the UNDP of the occurrence of any of the above events.

16.0 SETTLEMENT OF DISPUTES

- **16.1 Amicable Settlement**: The Parties shall use their best efforts to settle amicably any dispute, controversy or claim arising out of this Contract or the breach, termination or invalidity thereof. Where the parties wish to seek such an amicable settlement through conciliation, the conciliation shall take place in accordance with the UNCITRAL Conciliation Rules then obtaining, or according to such other procedure as may be agreed between the parties.
- 16.2 **Arbitration:** Any dispute, controversy, or claim between the Parties arising out of the Contract or the breach, termination, or invalidity thereof, unless settled amicably under Article 16.1, above, within sixty (60) days after receipt by one Party of the other Party's written request for such amicable settlement, shall be referred by either Party to arbitration in accordance with the UNCITRAL Arbitration Rules then obtaining. The decisions of the arbitral tribunal shall be based on general principles of international commercial law. For all evidentiary questions, the arbitral tribunal shall be guided by the Supplementary Rules Governing the Presentation and Reception of Evidence in International Commercial Arbitration of the International Bar Association, 28 May 1983 edition. The arbitral tribunal shall be empowered to order the return or destruction of goods or any property, whether tangible or intangible, or of any confidential information provided under the Contract, order the termination of the Contract, or order that any other protective measures be taken with respect to the goods, services or any other property, whether tangible or intangible, or of any confidential information provided under the Contract, as appropriate, all in accordance with the authority of the arbitral tribunal pursuant to Article 26 ("Interim Measures of Protection") and Article 32 ("Form and Effect of the Award") of the UNCITRAL Arbitration Rules. The arbitral tribunal shall have no authority to award punitive damages. In addition, unless otherwise expressly provided in the Contract, the arbitral tribunal shall have no authority to award interest in excess of the London Inter-Bank Offered Rate ("LIBOR") then prevailing, and any such interest shall be simple interest only. The Parties shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such dispute, controversy, or claim.

17.0 PRIVILEGES AND IMMUNITIES:

Nothing in or relating to this Contract shall be deemed a waiver, express or implied, of any of the privileges and immunities of the United Nations, including its subsidiary organs.

18.0 TAX EXEMPTION

18.1 Section 7 of the Convention on the Privileges and Immunities of the United Nations provides, inter-alia that the United Nations, including its subsidiary organs, is exempt from all direct taxes, except charges for public utility services, and is exempt from customs duties and charges of a similar nature in respect of articles imported or exported for its official use. In the event any governmental authority refuses to recognize the United Nations exemption from such taxes, duties or charges, the Contractor shall immediately consult with the UNDP to determine a mutually acceptable procedure.

18.2 Accordingly, the Contractor authorizes UNDP to deduct from the Contractor's invoice any amount representing such taxes, duties or charges, unless the Contractor has consulted with the UNDP before the payment thereof and the UNDP has, in each instance, specifically authorized the Contractor to pay such taxes, duties or charges under protest. In that event, the Contractor shall provide the UNDP with written evidence that payment of such taxes, duties or charges has been made and appropriately authorized.

19.0 CHILD LABOUR

- 19.1 The Contractor represents and warrants that neither it, nor any of its suppliers is engaged in any practice inconsistent with the rights set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical mental, spiritual, moral or social development.
- 19.2 Any breach of this representation and warranty shall entitle UNDP to terminate this Contract immediately upon notice to the Contractor, at no cost to UNDP.

20.0 MINES:

- 20.1 The Contractor represents and warrants that neither it nor any of its suppliers is actively and directly engaged in patent activities, development, assembly, production, trade or manufacture of mines or in such activities in respect of components primarily utilized in the manufacture of Mines. The term "Mines" means those devices defined in Article 2, Paragraphs 1, 4 and 5 of Protocol II annexed to the Convention on Prohibitions and Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to Have Indiscriminate Effects of 1980.
- 20.2 Any breach of this representation and warranty shall entitle UNDP to terminate this Contract immediately upon notice to the Contractor, without any liability for termination charges or any other liability of any kind of UNDP.

21.0 OBSERVANCE OF THE LAW:

The Contractor shall comply with all laws, ordinances, rules, and regulations bearing upon the performance of its obligations under the terms of this Contract.

22.0 SEXUAL EXPLOITATION:

22.1 The Contractor shall take all appropriate measures to prevent sexual exploitation or abuse of anyone by it or by any of its employees or any other persons who may be engaged by the Contractor to perform any services under the Contract. For these purposes, sexual activity with any person less than eighteen years of age, regardless of any laws relating to consent, shall constitute the sexual exploitation and abuse of such person. In addition, the Contractor shall refrain from, and shall take all appropriate measures to prohibit its employees or other persons engaged by it from, exchanging any money, goods, services, offers of employment or other things of value, for sexual favors or activities, or from engaging in any sexual activities that are

exploitive or degrading to any person. The Contractor acknowledges and agrees that the provisions hereof constitute an essential term of the Contract and that any breach of this representation and warranty shall entitle UNDP to terminate the Contract immediately upon notice to the Contractor, without any liability for termination charges or any other liability of any kind.

22.2 The UNDP shall not apply the foregoing standard relating to age in any case in which the Contractor's personnel or any other person who may be engaged by the Contractor to perform any services under the Contract is married to the person less than the age of eighteen years with whom sexual activity has occurred and in which such marriage is recognized as valid under the laws of the country of citizenship of such Contractor's personnel or such other person who may be engaged by the Contractor to perform any services under the Contract.

23.0 AUTHORITY TO MODIFY:

Pursuant to the Financial Regulations and Rules of UNDP, only the UNDP Authorized Official possesses the authority to agree on behalf of UNDP to any modification of or change in this Contract, to a waiver of any of its provisions or to any additional contractual relationship of any kind with the Contractor. Accordingly, no modification or change in this Contract shall be valid and enforceable against UNDP unless provided by an amendment to this Contract signed by the Contractor and jointly by the UNDP Authorized Official.

TERMS OF REFERENCE Professional Service

Project Information

Assignment Title:	Feasibility & market assessment study to determine potential for upscaling the use of Solar Water Pumps in Cambodia	
UNDP Practice Area:	Environment and Energy	
Cluster/Project:	Policy Unit	
Assignment Location:	Home based and Cambodia	
Assignment Duration:	November 2017-Jan 2018	

Background and Project Description

Expanding access to electricity through solar energy can have a positive impact on Cambodia's economic growth, as well as provide other co-benefits such as emission reductions, creating jobs in the rural areas, and improving health conditions through provision of clean energy. Although solar PV technologies present a promising opportunity for Cambodia, a number of barriers to up-scaling the technologies remain.

As part of the support to the Royal Government of Cambodia on promoting solar PV investment, an analysis will be performed on the potential for upscaling the use of Solar Water Pumps (SWP). Increasing anecdotal evidence from solar PV companies active in the rural last-mile distribution of solar home systems in Cambodia suggests that significant demand is emerging among rural households for the application of solar photovoltaics for household and small-scale productive uses in the agriculture and food production sectors – especially with regards to solar water pumping (SWP) and crop irrigation systems. Consequently, a number of local solar PV enterprises are currently engaged in R&D processes to develop suitable low-cost technologies for this observed household demand. Other enterprises have already specialized in SWP for a number of years, catering predominantly to medium- sized agri-businesses (commercial mango plantations, pepper farms, etc.)

In order to inform and encourage continued future engagement in this sector, and to attract additional funding, it will be crucial to establish a strong evidence base for the technical & financial feasibility and market potential for SWP in Cambodia. However, to date there is no comprehensive data available, and this is recognized as a significant challenge in attracting and engaging development partners and private sector actors in this sector. Hence it is proposed to address this lack of data by engaging a consultancy firm to conduct a 'feasibility & market assessment study to determine the technical and socio-economic feasibility of upscaling the use of SWP in Cambodia'.

Objective of the Assignment

The principal objectives of the study will be to assess the a) technical feasibility, b) financial feasibility (sustainable models) and c) market potential for upscaling the use of SWP in Cambodia.

Scope of Work

The scope of the study is:

- Provide an overview of past and current SWP (pilot-) projects in Cambodia including summary of experiences, good practices, technologies used, operation & maintenance models used, lessons learned, key issues encountered, size of systems (domestic, SME, farms, community), ownership models and an assessment of the lifespan/reliability of the systems;
- 2. **Provide an overview of existing SWP technical feasibility/market assessment studies and related relevant research** in Cambodia (including highlights of key findings with regards to market potential, technical feasibility of different technology options and operations models, economic attractiveness, barriers to adoption);
- 3. Provide an overview of different domestic, SME and community size SWP technologies currently available in Cambodia and assess supply chain status regarding the availability of suitable low-cost technology together with provision of adequate maintenance, service and end-user training (including overview of suppliers, supplier target groups, distribution approaches, product price points and price developments in past years and expected prices in coming years, technology pros/cons, technology options for different water resource settings and operation & maintenance models);
- 4. **Determine technical appropriateness of SWP in local contexts** considering the efficient and effective performance of the technology especially with regards to seasonal use limitations (e.g. changing water resource availability) and water resource setting and landscape variables (e.g. need for deep-well drilling and lowering water table during dry season), including the sizing of appropriate technology. List alternative sources of water (baseline situation) and the use of water in rural areas (cooking, washing, etc), including assessing the differentiated needs of women and men and an estimate of water draw/use and purpose;
- 5. **Determine functional/operational attractiveness** with regards to usage and maintenance requirements and limitations, user capacity to operate, maintain and share technology if used collectively;
- 6. Determine short and long-term economic & financial attractiveness of SWP for farmers/SMEs to invest in domestic-scale technology or collective (community-based models) use technology (also considering how economic attractiveness may be limited due to seasonal water resource availability, limited mobility of technology). Prepare example calculations for typical cases (NPV, IRR, PBP, SPP) showing financial attractiveness. Overview of current incentive schemes/policies to support SWP, grid-connected water pumps and diesel pumps;
- 7. **Estimate the overall market size for domestic/SME-size and community size SWP technologies** including identification of the most viable market segments, most suitable locations for deployment, installed SWP capacity to-date and growth trends. To the extent available, background on current irrigation practices and share of land

- irrigated shall be provided;
- 8. **Provide overview of key barriers to adoption of SWP** and how these could be addressed;
- 9. **Provide suggestions for market-based structure for deploying SWP systems at- scale and catalyzing market development for SWP** (including policy/regulatory incentives and technical assistance needs for market development on supply and demand side [e.g. need for technology quality assurance, development of after-sales service networks, need for consumer financing schemes such as microfinance, rental and leasing modalities, awareness raising activities, etc.]).
- 10. **Provide suggestions for alternative operations models and technology options for deploying SWP** if technical appropriateness and market demand for domestic-size application is found to be limited (e.g. community-size shared water pumping systems, etc.)
- 11. Identify areas in Cambodia suffering from water shortages and the various developments (drivers) leading to water shortages. Provide an overview of the available research/reports on the influence of climate change on the availability of water in Cambodia and other developments reducing available water. Provide an assessment whether and to what extent SWP can address water shortages in specific areas in Cambodia (e.g. during dry season) and to what extent SWP can have further negative effects on water shortages/what measures are required to avoid negative effects on ground water levels (regeneration capacity of aquifers).
- 12. **Surveys:** the findings of the study shall be complemented with survey data from the field. 2 surveys shall be conducted:
 - a) Item 1, which will provide an overview of past and current SWP (pilot-) projects, shall include user-satisfaction interviews of at least 50 SWP end-users in the country which benefitted from different SWP (pilot) projects (past and current). This may also include commercial users, such as commercial farms, which bought SWP on the market, besides community scale SWP etc. For at least half of the SWP included in this survey, also the relevant village chief shall be interviewed (generally the village chiefs have a good understanding of the water situation in the area). The aim of this survey is to get a good idea of the experiences and perception of the different groups of current & past end-users of the technology.
 - b) Historically Preah Vihea, Banteay Meanchey and Kampot provinces have faced droughts and represent different types of areas (highland, lowland, coastal). Potentially SWP could be a suitable technology to provide water in the rural areas of these provinces. To test this assumption and strengthen the results of the study, a survey in these 3 provinces shall be conducted. In each province at least 70 rural households and small businesses shall be interviewed (so total at least 210 households/businesses). The consultant shall propose an appropriate methodology for the survey, including an approach for random sampling. The survey shall also

include interviews of village chiefs in these 3 provinces. The survey shall aim to gather data on water shortages and current water use by the households/businesses, technology acceptability, economic & financial attractiveness compared to the current situation, willingness-to-pay, and to gauge potential consumer demand and key barriers to adoption. If there are current/past users of SWP in these 3 provinces, these households/businesses can be included in the first survey (a, item 1).

13. Conclusions/data gaps/key elements potential technical assistance program:
The consultant will present conclusions and recommendations in an easy-tounderstand way, including potential data gaps and suggestions for further research.
Drawing on understanding of good practices for market/supply chain development
for BoP products, the consultant will suggest key elements of a potential technical
assistance programs.

Methodology

The consultancy firm (or consortium) is expected to propose an appropriate research methodology that will assess with sufficient accuracy the technical feasibility, commercial market potential, and economic & financial attractiveness for deploying SWP for household and productive use in Cambodia. Suggested activities include initial desk research and key informant interviews to review past project experiences and existing assessment studies; and desk research to identify commercial technology suppliers and available product types. To determine technical feasibility with regards to water resource availability and water resource settings, the consultant may consider engaging with the Ministry of Water Resources and Meteorology (MoWRAM) for obtaining relevant data and statistics.

For estimation of market size, the consultancy firm may consider drawing on existing census data to triangulate with findings of water resource availability/settings, survey results and findings of viable market segments.

For the surveys, the consultancy firm may engage local surveyors, to be managed by an expert.

The draft report shall be presented in a validation consultation dialogue/workshop organised by UNDP with selected experts, government and other stakeholders, and incorporate comments and feedback into the final report.

Expected Outputs and Deliverables

N	Deliverables/Outputs	Target Due Dates	Payment amount
1	Detailed work plan submitted to UNDP for	One week of	20%
	endorsement	signature	
2	Preliminary findings of the technical feasibility	Seven weeks	40%
2	and market assessment of the SWP	after signature	
	Draft Report of the feasibility and market	Nine weeks	30%
3	assessment study of the SWP in Microsoft	after signature	
	Word		

	_	Final proof-read version of the feasibility and	12 weeks after	10%
4	4	market assessment report of the SWP in	signature	
		Microsoft Word and PDF		

Institutional Arrangement

The consultancy will be performed under the supervision of the Senior Policy Advisor, UNDP Cambodia. It will work closely with UNDP Policy Analyst, UNDP Regional Technical Advisor and a team of consultants supporting UNDP Cambodia on energy work.

Duration of the Work

The assignment is expected to be performed over the period of 3 months (from November 2017 to January 2018). During the assignment, service provider will be expected to undertake in-country missions to Cambodia if the service provider is based outside Cambodia. The dates for the in-country missions will be agreed upon between the service provider and UNDP in Cambodia. The service provide will arrange its own travel to Cambodia and Phnom Penh and provincial transportation during the missions.

Duty Station

The duty station of this assignment is a combination of home-based and Phnom Penh. The Service Provider will also perform duties from their home country through email, telephone/Skype correspondence.

Minimum Qualifications of the Successful Contractor at Various Levels

UNDP is seeking to procure a service provider who can propose personnel with the required skill sets and experiences for this consultancy. Both the qualifications of the Service Provider <u>and</u> its personnel will be assessed.

Qualifications of the Service Provider:

- At least 5 years' experience related to public and private sector activities in climate change and renewable energy investment (particularly related to solar PV). Experience with research-based, quantitative analyses and reports is preferred.
- Experience working in the last 5 years in developing country contexts preferred. Experience within the last 5 years' in the region is a further advantage.
- Experience working in the last 5 years with bilateral or multilateral organizations and/or the UN system preferred.

Qualifications of Key Personnel:

The Service Provider will include in the proposal the team composition with recent CVs. At the minimum the team should include

- (i) a team leader, and
- (ii) (ii) an renewable energy/solar PV expert,
- (iii) a water resources expert/hydrologist,
- (iv) an expert to manage a team of surveyors, with the qualifications below.

The requested team should have diversified skills. There will be no replacement of experts without the explicit consent of UNDP.

Team Leader:

- Bachelor's degree or equivalent in energy, engineering, finance, economics, international affairs, or other related field. Personnel with Master's or equivalent degrees will be at an advantage.
- At least 10 years of experience with renewable energy investment.
- Experience making a financial assessment for investments.
- Experience in preparing market based assessment or similar reports.
- Experience working in developing country contexts preferred. Experience working in the region is a further advantage.
- Experience working with bilateral, multilateral organizations and/or the UN system preferred.
- Experience managing a team of consultants and consolidating the findings of the experts into a coherent report.
- Strong command of written and spoken English.

Renewable energy/solar PV expert:

- Bachelor's degree or equivalent in energy, engineering, finance, economics, international affairs, or other related field. Personnel with Master's or equivalent degrees will be at an advantage.
- At least 7 years of experience with renewable energy investment, in particular solar PV.
- Excellent research based quantitative skills.
- Strong writing and drafting skills.
- Experience working in developing country contexts preferred. Experience working in the region is a further advantage.
- Experience working with bilateral, multilateral organizations and/or the UN system preferred.
- Strong command of written and spoken English.

Water resource expert/hydrologist:

- Bachelor's degree or equivalent in physical/natural/environmental science including hydrology and climate change or other related field. Personnel with Master's or equivalent degrees will be at an advantage.
- At least 7 years of experience with hydrology field.
- Excellent research based modelling skills including hydrology.
- Experience working in developing country contexts preferred. Experience working in the region is a further advantage.
- Experience working with bilateral, multilateral organizations and/or the UN system preferred.
- Strong command of written and spoken English.

Survey Manager:

- Bachelor's degree or equivalent in economics, social or other related fields to the assignment.
- Substantive experience in conducting similar (energy) market assessment and household surveys.
- Experience with preparing questionnaires and managing a team of local surveyors preferred.
- Experience and knowledge of circumstances in Cambodia is strongly preferred.

Note: The consultancy and the proposed team members shall not be a supplier of solar PV including solar water pumping equipment in Cambodia to avoid any potential conflict of interest.

Scope of Bid Price and Schedule of Payments

The contractor will be paid on a lump sum basis under the four installments. Every payment is subject to receipt of certification for payment, and performance evaluation for the last payment duly completed by the Senior Policy Advisor, Policy Unit, UNDP Cambodia.

Recommended Presentation of Technical Proposal

A. Profile of the service provider

Interested service providers shall state why they are the best-suited to carry out the above task. This should include a detailed organization profile, outline the service provider's strengths and expertise highlighting directly relevant experiences to the assignment.

B. Methodology to conduct the assignment

The service provider shall propose a tailored methodology to successfully carry out the assignment.

C. Team structure

The service provider shall submit the proposed team structure to successfully deliver the assignment. The specific roles and responsibilities of each team member shall be clearly presented. And the service provider shall also provide the updated CV of each team member as the supporting evidence of their qualification.

D. Timeline/work plan

In addition, the service provider shall submit the proposed timeline/work plan to implement the assignment.