

INVITATION TO BID

Supply, Delivery, and Installation of Multi-Hazard Early Warning System in Leyte

ITB No.: ITB/086/PHL/2019

Project: Project Climate Twin Phoenix-RAPID

Country: Philippines

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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

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 procurement.ph@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	Approved by:		
Name: Marie Kristel Aberilla	Name: Alka Aneja		
Title: Procurement Associate	Title: Procurement Specialist		
Date: June 4, 2019	Data: June 4 2019		

Section 2. Instruction to Bidders

GENERAL PROVISIONS		
1. Introduction	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
	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.
	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.
	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.
2. Fraud & Corruption, Gifts and Hospitality	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
	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.
	2.3	In pursuance of this policy, UNDP:
		(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; (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.
	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
3. Eligibility	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

these organizations.

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.

4. Conflict of Interests

- 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:
 - 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.
- 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.
- 4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:
 - 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.

Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.

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.

B. PREPARATION OF BIDS

General Considerations

- 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.
- 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.

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: 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.

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. 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. 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: 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: to sign the Contract after UNDP has issued an award; or 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 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: 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, 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 Consortium or Bid that: (i) they have designated one party to act as a lead entity, duly vested Association 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. 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. 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. 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

14.5 A JV, Consortium or Association in presenting its track record and experience

UNDP.

	should clearly differentiate between:
	 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.
	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
	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.
15. Only One Bid	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.
	 15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following: 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	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.
	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.
17. Extension of Bid Validity Period	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.
	17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.
	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.

18. Clarification of Bid (from the Bidders)	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.
	18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.
	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.
19. Amendment of Bids	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.
	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.
20. Alternative Bids	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.
	20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"
21. Pre-Bid Conference	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.

C. SUBMISSION AND OPENING OF BIDS		
22. Submission	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.
	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.
	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.
Hard copy (manual) submission	22.4	Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:
		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.
		 (b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which_shall: 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.
		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.
Email and eTendering	22.5	Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:
submissions		a) Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS;
		b) 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.
	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-notices/resources/
23. Deadline for Submission of Bids and Late Bids	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
	23.2	UNDP shall not consider any Bid that is received after the deadline for the

		submission of Bids.
24. Withdrawal, Substitution, and	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.
Modification of Bids	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"
	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.
	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.
25. Bid Opening	25.1 25.2	UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members. 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.
	25.3	In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.
D. EVALUATION OF	BIDS	
26. Confidentiality	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.
	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.
27. Evaluation of Bids	27.1	UNDP will conduct the evaluation solely on the basis of the Bids received.
	27.2	 Evaluation of Bids shall be undertaken in the following steps: a) Preliminary Examination including Eligibility b) Arithmetical check and ranking of bidders who passed preliminary examination by price. c) Qualification assessment (if pre-qualification was not done)

	 a) Evaluation of Technical Bids b) Evaluation of prices Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary
28. Preliminary Examination	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.
29. Evaluation of Eligibility and Qualification	29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).
	 In general terms, vendors that meet the following criteria may be considered qualified: 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	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.
31. Due diligence	 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: 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

		 works, as deemed necessary; e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder; f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.
32. Clarification of Bids	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.
	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.
	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.
33. Responsiveness of Bid	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.
	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.
34. Nonconformities, Reparable Errors and Omissions	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.
	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.
	34.3	For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:
		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;
		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
		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.
	34.4	If the Bidder does not accept the correction of errors made by UNDP, its Bid shall

	be rejected.
E. AWARD OF CON	TRACT
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 Contract%20Management%20Payment%20 and%20Taxes Advanced%20Payment%20Guarantee%20Form.docx&action=de fault
43. Liquidated Damages	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.
44. Payment Provisions	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.
45. Vendor Protest	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: http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html
46. Other Provisions	46.1 46.2 46.3	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.

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)	Not Allowed
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	Will not be conducted
5	16	Bid Validity Period	90 days
6	13	Bid Security	Not Required
7	41	Advanced Payment upon signing of contract	Not Allowed
8	42	Liquidated Damages	Will be imposed as follows: Percentage of the contract price per day of delay: 0.03% Max. number of days of delay: 30 days, after which UNDP may terminate the contract
9	40	Performance Security	Not Required
10	12	Currency of Bid	Philippine Peso for local bidders and USD for international bidders
11	31	Deadline for submitting requests for clarifications/ questions	3 days before the submission deadline

12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Marie Kristel Aberilla Address: 15 th Floor, North Tower E-mail address: marie.kristel.aberilla@undp.org
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Posted directly to eTendering
14	23	Deadline for Submission	5:00 pm of 18 June 2019, Manila Time/5:00 AM EDT. For eTendering submission - as indicated in eTendering system. Note that system time zone is in EST/EDT (New York) time zone.
14	22	Allowable Manner of Submitting Bids	⊠ e-Tendering
15	22	Bid Submission Address	https://etendering.partneragencies.org BU Code: PHL10 Event ID number: 3844
16	22	Electronic submission (email or eTendering) requirements	 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: 5MB Mandatory subject of email: ITB-086-PHL-2019
17	25	Date, time and venue for the opening of bid	Since it is through e-Tendering, bidders will receive an automatic notification once their Bids are opened.
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	June 30, 2019
20		Maximum expected duration of contract	Six (6) months
21	35	UNDP will award the contract to:	One Proposer Only
22	39	Type of Contract	Purchase Order

			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	The following Special Conditions of Contract shall supplement the UNDP General Conditions of Contracts under BDS No. 23.
			ACCEPTANCE OF PURCHASE ORDER: The resulting Purchase Order may only be accepted by the Supplier's signing and returning an acknowledgement copy within the time specified. Acceptance of the Purchase Order shall effect a contract between the Parties under which the rights and obligations of the Parties shall be governed solely by the terms and conditions of the Purchase Order, including these General Conditions. No additional or inconsistent provisions proposed by the Supplier shall bind UNDP unless agreed to in writing by a duly authorized official of UNDP.
			CERTIFICATE OF WARRANTY: A Certificate of Warranty Security will be required. The successful Bidder must provide a Warranty Certificate in the amount commensurate to the value of the one (1) year warranty and technical support services period, to be submitted after satisfactory completion and acceptance by the end user.
			The Certificate of Warranty shall be named and titled to the https://example.com/PAGASA).
			If the supplier fails to render the services required under the Warranty, after establishing that the defect is indeed caused by factor defect and not by mishandling or erroneous use of the equipment, PAGASA may make claims against the Certificate of Warranty to cover the value of the repair services required. In the event that appropriate claims shall have to be made by the PAGASA against the Certificate of Warranty, the value of the Certificate of Warranty shall also be reduced accordingly.
			Please refer to Form H of the ITB for the Certificate of Warranty template.

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	 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 Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder Export/Import Licenses, if applicable Local Government permit to locate and operate in the current location of office or factory. Must be current. 	Form B: Bidder Information Form

	 A Written Proof / Statement of Satisfactory Performance issued by at least three (3) of the top clients of similar nature of supply. Contact details for references to be sought should be included Audited financial statements for the last three (3) years (Income Statement and Balance Sheet), including Auditor's Report. UNDP will check the financial accounts to compute the quick ratio (QR). Quick ratio tests the company's financial strength and liquidity by calculating a company's liquid assets in proportion to its liabilities. If Quick ratio is less than 1, UNDP shall verify financial capacity of the bidder and has the authority to seek references from concerned parties and banks on the bidder's financial standing. UNDP has the right to reject any bid if submitted by a contractor if investigation leads to a result that it is not financially capable and/or has serious financial problems. Total monetary value of sales for each of the last three (3) years. Average should be no less than PHP 2,000,000 or USD 36,934. Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the bidder is updated with its tax payment obligations, or Certificate of Tax Exemption, if any such privilege is enjoyed by the bidder 	
QUALIFICATION		
History of Non- Performing Contracts ¹	Non-performance of a contract did not occur as a result of contractor default for the last 3 years.	Form D: Qualification Form
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 over the last 5 years.	Form D: Qualification Form
	Contracts must be fully relevant to the complexity and intended scope of the present ITB. Each Contract shall clearly indicate the type and quantities of items and technical specifications, contract amount and date. Copies of relevant pages of the contract must be provided.	

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.

	(For JV/Consortium/Association, all Parties cumulatively should meet requirement).	
Financial Standing	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability.	Form D: Qualification Form
	(For JV/Consortium/Association, all Parties cumulatively should meet requirement).	
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.	Form F: Price Schedule Form
	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.	
Additional Technical Evaluation Criteria	The following additional documents shall be included in the bid submission:	
	Technical description of items: Full details including technical & performance characteristics, exact model and country of origin of all the items should be included in the "Description of items offered and Bidders' statement on deviations" column in Section 5a's table.	
	Bidder's Statement Regarding Deviations/Non-Compliance: Any deviation from the provisions of the specification shall be disclosed in the "Bidder's Statement Regarding Deviations/Non-Compliance"	
	column in Section 5a's table. In case that the bidder's offer contain	
	absolutely no deviations from the specified requirements, for purposes of clarity, the bidder must clearly indicate 'no deviations'.	
	Organizational Set-up required / Partnership with Local Service Provider: The main contractor should be one that possesses the	
	following qualifications:	
	 an international / national supplier with at least 3 years of network and experience in similar projects internationally / nationally; 	
	2. with proven financial capacity to undertake high value orders and sufficient resources that allows it to progress on the project milestones without need to rely on payments that will be made by UNDP;	
	3. if the bid is being submitted by an international firm, there should be evidence of established local partnership with qualified companies for the provision of readily available service and parts according to the specific qualification requirements.	

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

Table 1. Technical Specifications (MINIMUM SPECIFICATIONS)

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
1	Controller/Data Logger	Power Supply: 50Watts to 200watts solar panel and wind turbine with greater than or equal to 60AH deep cycle battery requiring 12V charge controller 2 pulse input port 2 x DI ports to monitor door closing/opening 1 x series TTL port more than 10 spare GPIO ports with built in 10/100T-TX Lan with built in Wi-fi connectivity 1.2Ghz Processor Speed minimum Storage of 8GB SD Storage 8 x Analog to Digital inputs (10-bits or 12-bits available upon request) for system voltage monitoring 4-20mA sensors with built in GSM Modem that can accommodate 10 or more mobile recipients with built in GPS modem RS-232 port for AWS RS-232 port for UHF/VHF Radio Serial Data Communication	21	6 months from issuance of PO
2	Radio	Frequency range: VHF: 136-174Mhz UHF: 300-370Mhz, 400-440Mhz, 430-470MHz, 450-490Mhz Channel Spacing: 12.5khz/24KHz Channel Capacity: 16 Power Supply: 9.5V-16V DC Operation Voltage: 12V DC (Nominal) Temperature Range: - 30°C ~+ 65°C(Operating) Transmitter: Output Power: 1~25W(Programmable) 3Modulation Type: F3D/F3E urrent: 5W RF Power, 12V, 1.5A 1W RF Power, 12V, 1A Standby (Muted) Current: 65mA Frequency Deviation: <5KHz (25KHz) <2.5KHz(12.5KHz) Audio Response: 300Hz~3KHz +1/-3dB (25KHz) Receiver: Adj. Channel Power:	21	6 months from issuance of PO

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
		<=70dBc(25KHz) <=65dBc(12.5KHz) TX SNR: >45dB(25KHz) >40dB(12.5KHz) RX Sensitivity (12 dB Sinad): <=119dBm Extreme: <=115dBm Intermodulation: >65dB Audio Output Power: 0.5W @ 8Ω RX Audio Distortion: <5% Image Rejection: >70dB Spurious Rejection: >70dB With Data Modem: Serial Interface: TTL/RS-232/RS-485(8N1) Supply Voltage: DC +12.5V Data Transmission Mode: Transparent Galvanized monopole antenna mast with steps, guy wires, turnbuckles, brackets, lightning protection. The mast and guy wires rest on concrete bases.		
3	Receiver Antenna	Receiving frequency band: L1 GPS Built in a 20dB low noise amplifier and low loss filter, perfect support passive antenna. Antenna side to build high-quality ESD protection [TVS tube, to ensure that the ESD to achieve 8KV above [air discharge] Receiving frequency band: E1B/C1 Galileo Default support for wide area differential GPS enhancement system S137, [S129] Wan enhanced satellite Receiving channel: 56CH Positioning performance:	21	6 months from issuance of PO

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
		Warm start time: 30s [average] Hot start time: 1s [average] The auxiliary ephemeris data of AGPS [network]: 3S Operating temperature: -40 C to C +85 C		
		Package size:124x96.6mm Built in 25x25x4mm passive ceramic antenna Other parameters: Standard clock pulse: 0.25Hz~10MHz Location update rate: 1Hz Usb port interface [default] Data rate: 9600bps		
		Computer Interfacing: USB communication protocol support operating system: VistaXP, CE Windows10 Support: XP, win7, win8, win10 (support for all series windows system drive) Windows USB drivers Download U-center8.25 USB GPS test software Windows Download		
4	IP Radio	Radio Frequency range: 4.940 - 4.990 GHz Channel Size: 5, 10, 20 MHz Modulation Schemes: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) Data rates @ 20 MHz: 173, 144, 130, 116, 87, 58, 43, 29, 14 Mbps Antenna: Integrated directional dual-pol 23 dBi panel or 2 N-type	6 (pairs)	
		connectors Wired First Interface: 10/100/1000 Base-T with PoE IN (RJ45) Second Interface: 10/100/1000 Base-T with PoE OUT (RJ45) Power		
		Power input method, voltage: PoE 802.3at, isolated 42 - 57 VDC Power consumption (max): 8.6W Power output method, voltage: PoE 802.3af, 48 VDC, 12.95W maximum w/ PoE inserter and AC/DC adapter		
		Operating temperature: -40°C to +65°C Humidity: 0 to 90% Internal antenna Frequency range: 4.9 – 5.9 GHz		

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
		Gain: 23 dBi Polarization: Dual linear Cross-pol Isolation: 27 dBi VSWR: 1.5:1 Azimuth beamwidth (Hpol): 6 deg Azimuth beamwidth (Vpol): 7 deg Elevation beamwidth: 9 deg		
5	Solar Charge Controller	Rated Voltage: 12V/24V Wind Turbine power: 300Watts Solar Panel Power: 200Watts Charging mode: MPPT charging for wind turbine PWM charging for Solar Panel Display: LCD (remark Voltage, charge current, battery volumetric) Battery Type: AGM, GEL, Lead-acid	15	6 months from issuance of PO
6	Solar Panel	Maximum Power (pmax): 200Watts Maximum Power Voltage: 36V Maximum Power Current: 5.56A Open Circuit Voltage: 45V Short Circuit Current: 6A Power Tolerance: +5% Module Efficiency STC: 15.30% Operating Temperature range: -40 C to 85 C Maximum System Voltage: 1000V Series Fuse Rating: 15A Nominal Operating Cell Temperature: 45 ±2 °C Cell Type: Monocrystalline 156 x 156mm Front Glass: 3.2mm, High Transmission, Low Iron, Tempered glass Frame Type: Anodized Aluminum Alloy Junction Box Protection class: IP67 Rated	15	6 months from issuance of PO
7	Wind Turbine	Generator power: 200Watts Wheel Diameter: 0.47m Turbine height: 0.93 m Blades Material: Casting Aluminum Alloy Rated wind speed: 11m/s Startup wind turbine: 1.5m/s Survival turbine: 45m/s Output Voltage: 12v/24v Generator type: Maglev Generator Control System: electromagnet Speed regulation: automatically adjust windward direction Working temperature: from -40 °C to 80°C	15	6 months from issuance of PO
8	Water Level Sensor (Tidal Gauge Sensor)	Pressure Range: 0-10m, 0-20m, of 0-30m or 0-500M Overload: 150% F.S.	6	6 months from

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
		Burst Pressure:300% F.S. Accuracy: ≤ ±0.5%F.S. Temperature Compensation: -10°C~65°C Medium compatible: Compatible with 316L Stainless Steel Electronic connection: Fixed cable and water proof IP68 Response time: ≤10 ms (standard) Pressure Type: Gauge pressure Certificate: intrinsic safety or ExdIICT6 and CE Certificate approving EMC Standard:		issuance of PO
9	Digital Humidity Pressure Temperature Sensor	Supply Voltage: 12VDC Operating Range Temperature: -40 to +85 deg. C. Relative Humidity: 0 to 100% Barometric Pressure: 300 to 1100 hPa Key parameters for humidity sensor Response Time: 1s Accuracy Tolerance: +/- 3% relative humidity Hysteresis: +/- 1% relative humidity Key parameters for pressure sensor RMS Noise: 0.2Pa, equiv. to 1.7cm Offset temperature coefficient: +/- 1.5 Pa/K, equiv. to +/-12.6 cm at 1 deg. C temperature change	3	6 months from issuance of PO
10	Wind Direction Sensor	Features: In line with the WMO World Meteorological Organization specifications (CIMO Guide) High sensitivity: start wind speed ≤ 0.3m / s 0-360 degrees show no dead ends Parameters: Range: 0-360 ° Accuracy: ± 1% ° Resolution: of 1 ° Start wind speed: ≤ 0.3m / s Working environment: temperature -50 °C ~ 80 °C, humidity ≤ 100% RH Power supply: Standard: DC5V Other: DC12V, DC24V Output signal: Standard: 0-5V voltage signal	3	6 months from issuance of PO6 months from issuance of PO

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
11	Wind Speed Sensor	Features: In line with the WMO World Meteorological Organization specifications (CIMO Guide) High sensitivity: start wind speed ≤ 0.3m / s Measuring range: measuring range 0-70m/s, 0-45m/s High accuracy: Accuracy is ± (0.3 0.03V) m / s (V: wind speed) Parameters: Measuring range: 0-70 m / s Measurement accuracy: ± (0.3 0.03 V) m / s (V: wind speed) Starting wind speed: Lt; 0.3 m / s Input voltage: 5V, 12V, 24V power supply range Output signal: Standard: pulse signal output, Other: 0-5V, 4-20mA, RS485 and other signal output Working environment: Temperature -20 ° C ~ 60 ° C; humidity ≤ 100% RH	3	6 months from issuance of PO
12	Solar Radiation Sensor	Sensitivity: 7~ 14 μ V/w.m-2 Spectral range: 0.3 -3 μm Measuring range: 0~2000W/ m² Power Supply mode: 5VDc/12VDC/24VDC Output type: Pulse: pulse signal Current: 4~20mA RS232 RS485 Line length: 2.5m Response time: ≤35 sec (99%) Internal resistance: about 350Ω Cosine response: ≤7% (solar height angle of 10°) Azimuth response error: ≤5% (solar altitude angle of 10°) Temperature characteristics: ±2% (-10°C ~ 40°C) Working environment temperature: -40°C `50°C Non-linearity: ≤2%	3	6 months from issuance of PO
13	Horn Siren Amplifier	Working Voltage: 12VDC / 24VDC Output Power: 200Watts Waterproof: IP65 Ambient Temperature: -40°C ~ 65 °C Sound Pressure: 120-130DB With 10 feet of cable to speaker and 8.5 feet cable to power	11	6 months from issuance of PO
14	Horn Siren	Dimensions: $8.46'' \text{ L} \times 4.65'' \text{H} \times 7.443''$ Impedance: $4\Omega / 6\Omega / 8\Omega / 11\Omega$ Power: 200Watts Frequency range: 300-4600Hz Distortion factor: $\leq 5\%$ Sound Pressure: 120-130dB	11	6 months from issuance of PO

#	Description and minimum/mandatory specifications	Technical Specifications (MINIMUM SPECIFICATIONS)	QTY No. of Units	Delivery Date
15	Staff Gauges	Reflectorized stainless steel water level gauge installed at any structure (i.e. pier of the bridge, retaining) of the identified stations. Dimensions: 1-foot wide (length will be based on the actual condition of the station location) Material: powder coated aluminum Colors: white background with black markings	11	6 months from issuance of PO
16	Dashboard Screen	LED TV 43inches Resolution: 1920x1080	8	6 months from issuance of PO
17	Server Database	Workstation i7 Windows PC with UPS, 1-5W UHF radio on a commercial power supply with backup and emergency revert, Omni fiberglass antenna with low-loss cable and connectors, lightning and electrical surge protection. Localized warning broadcast capable within 1km radius. Master and slave database servers to process and store hierarchical hydrological data (PAGASA format). Slave (backup) database server to act as standby server Bespoke interactive web-based map data display. Can perform basic hydrological and mathematical function and to receive sensor readings via radio links	4	6 months from issuance of PO
18	Equipment Housing	Powder coated NEMA-compliant box	21	6 months from issuance of PO
19	Tower mast	Galvanized tower mast (for the equipment listed in Table 2) Length based on actual site condition	21	6 months from issuance of PO

Table 2. DELIVERY LOCATIONS PER TYPE OF EQUIPMENT

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description	
1	Brgy. Mahagnao Elem	10.86545	124.8525	Automated Rain	1	The Automated Rain Gauge Station shall be	
	School, Burauen, Leyte			Gauge Station		composed of the following and consistent	
	Anibong Elem School,	11.01528	124.9817		1	with the technical specifications indicated in	
	Julita, Leyte					Table 1:	
	Brgy. Mag-Aso, La Paz,	10.87944	124.9211		1	1. Controller/datalogger	
	Leyte					2. Radio	
						3. Receiver antenna	
						4. Solar charge controller	
						5. Solar panel	

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description
				·		6. Wind turbine 7. Equipment housing 8. Tower mast While the stainless-steel tipping bucket rain gauge is not part of the station as this is currently available, this will still be installed as component of the station. Galvanized rain gauge tower mast on concrete base, equipment mounting brackets, and electrical accessories.
2	Daguitan - US bridge, Burauen, Leyte	10.97125	124.8995	Automated Water Level	1	The Automated Water Level Station shall be composed of the following and consistent
	Marabong Bridge, Burauen, Leyte	10.96111	124.9017	Station on Bridge	1	with the technical specifications indicated in Table 1:
	Hibuga Bridge US 1, Mayorga, Leyte	10.89298	124.9737		1	 Controller/datalogger Radio
	Hibuga Bridge US 2, La Paz, Leyte	10.92556	124.9281		1	3. Receiver antenna 4. Solar charge controller 5. Solar panel 6. Wind turbine 7. Water level sensor 8. Equipment housing 9. Tower mast Galvanized water level tower masts for solar panel and equipment box clamped on bridge railings, equipment mounting brackets, conduits and electrical accessories.
3	Brgy. Matin-Ao, Burauen, Leyte	10.97	124.8072	Automatic Weather Stations	1	The Automatic Weather Station shall be composed of the following and consistent with the technical specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. Solar charge controller 5. Solar panel 6. Wind turbine 7. Digital humidity pressure temperature sensor 8. Wind direction sensor 9. Wind speed sensor 10. Solar radiation sensor 11. Equipment housing 12. Tower mast While the stainless-steel tipping bucket rain gauge is not part of the station as this is currently available, this will still be installed as component of the station. Galvanized water level tower masts for solar panel and equipment box clamped on bridge

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description
						railings, equipment mounting brackets,
						conduits and electrical accessories.
4	Sabang Beach, Dulag, Leyte	10.93022	125.0333	Automatic Weather Stations and Storm Surge Station	1	The Automatic Weather Stations and Storm Surge Station shall be composed of the following and consistent with the technical specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. Solar charge controller 5. Solar panel 6. Wind turbine 7. Digital humidity pressure temperature sensor 8. Wind direction sensor 9. Wind speed sensor 10. Solar radiation sensor 11. Water level sensor 12. Equipment housing 13. Tower mast While the stainless-steel tipping bucket rain gauge is not part of the station as this is currently available, this will still be installed as component of the station. Galvanized water level tower masts for solar panel and equipment box clamped on bridge railings, equipment mounting brackets,
5	Balocawe Bridge US, MacArthur, Leyte	10.81427	124.9361	Automatic Weather Station and Water Level Station	1	conduits and electrical accessories. The Automatic Weather Stations and Water Level Station shall be composed of the following and consistent with the technical specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. Solar charge controller 5. Solar panel 6. Wind turbine 7. Digital humidity pressure temperature sensor 8. Wind direction sensor 9. Wind speed sensor 10. Solar radiation sensor 11. Water level sensor 12. Equipment housing 13. Tower mast While the stainless-steel tipping bucket rain gauge is not part of the station as this is currently available, this will still be installed as component of the station.

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description
						Galvanized water level mast for antenna, GPS and AWS equipment clamped on shelter wall, equipment mounting brackets, conduits and electrical accessories.
6	Daguitan Bridge, Dulag, Leyte	10.9359	125.022	Warning Post Stations	1	The outdoor Warning Post Station shall be composed of the following and consistent
	Brgy. Gen. Roxas, Dulag, Leyte	10.9762	124.99	1	1	with the technical specifications indicated in Table 1:
	Labiranan Bridge, Dulag, Leyte	10.99056	125.0386		1	 Controller/datalogger Radio
	Brgy. Liberty, Mayorga, Leyte	10.8768	124.999		1	Receiver antenna Solar charge controller
	Bocog Bridge, MacArthur, Leyte	10.84278	124.9961		1	5. Solar panel 6. Wind turbine 7. Horn siren amplifier 8. Horn siren 9. Equipment housing 10. Tower mast Galvanized tower mast for antenna, GPS, warning light and warning siren clamped on shelter wall equipment mounting brackets, conduits and electrical accessories.
7	Dulag MDRRMO	10.95375	125.0336	LGU Access	1	The Access Node shall be composed of the
	La Paz MDRRMO	10.89093	124.9581	Node (Relay and	1	following and consistent with the technical
0	MacArthur MDRRMO	10.83451	124.9976	Warning Stations)	1	specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. IP Radio 5. Horn siren amplifier 6. Horn siren 7. Dashboard screen 8. Equipment housing 9. Tower mast Galvanized monopole antenna mast with steps, guy wires, turnbuckles, brackets, lightning protection. The mast and guy wires rest on concrete bases.
8	Julita MDRRMO	10.97294	124.9622	LGU Access Node (Relay and Warning Stations) with Rain Gauge	1	The Access Node shall be composed of the following and consistent with the technical specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. IP Radio 5. Horn siren amplifier 6. Horn siren 7. Dashboard screen 8. Equipment housing 9. Tower mast

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description
						While the stainless-steel tipping bucket rain gauge is not part of the station as this is currently available, this will still be installed as component of the station. Galvanized monopole antenna mast with steps, guy wires, turnbuckles, brackets, lightning protection. The mast and guy wires rest on concrete bases.
9	Burauen MDRRMO	10.97583	124.8908	Multi-Hazard	1	The MHEWSC shall be composed of the
	Mayorga MDRRMO	10.90328	125.0056	Early Warning System Center (MHEWSC)	1	following and consistent with the technical specifications indicated in Table 1: 1. Controller/datalogger 2. Radio 3. Receiver antenna 4. IP Radio 5. Horn siren amplifier 6. Horn siren 7. Dashboard screen 8. Server database 9. Equipment housing 10. Tower mast Galvanized monopole antenna mast with steps, guy wires, and turnbuckles, brackets, and lightning protection
10	Hibuga Bridge US 2, La Paz, Leyte	10.92556	124.9281	Staff Gauges	1	The Staff Gauges shall have technical specifications indicated in Table 1.
	Daguitan - US bridge, Burauen, Leyte	10.97125	124.8995		1	specifications marcated in Tuble 1.
	Marabong Bridge Burauen, Leyte	10.96111	124.9017		1	
	Hibuga Bridge US 1, Mayorga, Leyte	10.89298	124.9737		1	
	Balocawe Bridge US, MacArthur, Leyte	10.81427	124.9361		1	
	Daguitan Bridge, Dulag, Leyte	10.9373	125.0227		1	
	Calbasag Bridge, Dulag, Leyte	10.96389	125.0325		1	
	Balocawe Bridge, MacArthur, Leyte	10.82083	124.9958		1	
	Labiranan Bridge, Dulag, Leyte	10.99056	125.0386		1	
	Hibuga Bridge, Mayorga, Leyte	10.88207	124.9987		1	
	Bocog Bridge, MacArthur, Leyte	10.84278	124.9961		1	
11	PDRRMO Leyte, Candahug, Palo, Leyte	11.177091	125.002715	MHEWS Web- interface	1	The MHEWS Web-interface shall be composed of the following and consistent with the technical specifications indicated in Table 1:

No.	Delivery Place	Latitude	Longitude	Items Required	QTY	Features and brief description
						1. Dashboard screen
						2. Server database
						The two offices will have copy of the MHEWS
						data through the web-interface.

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	Please see Table 2 for delivery locations.
Mode of Transport Preferred	Air
UNDP Preferred Freight Forwarder, if any ²	UNDP will provide to the winning contractor the details of the Freight Forwarder at time of PO placement.
Distribution of shipping documents (if using freight forwarder)	UNDP will provide specific instructions at PO placement.
Customs, if required, clearing shall be done by:	UNDP
Ex-factory / Pre-shipment inspection	Not Applicable
Inspection upon delivery	Yes. The inspection of the physical appearance of the equipment will be done at the end user's location in the presence of UNDP, End User and Technical Expert.
Installation Requirements	Yes, equipment must be installed in each delivery location, in the presence of UNDP, End User and Technical Expert.
Testing Requirements	Yes. Testing will be conducted in the presence of UNDP, End User and Technical Expert.
Scope of Training on Operation and Maintenance	A one-time training is required after the delivery of all the MHEWS has been completed. User Manuals must also be submitted to and accepted by UNDP.
Commissioning	Yes. Commissioning will be conducted in the presence of UNDP, End User and Technical Expert.

²A factor of the Incoterms stipulated in the ITB. The use of a UNDP preferred freight forwarder may be considered for purposes of ensuring forwarder's familiarity with procedures and processing of documentary requirements applicable to UNDP when clearing with customs authority of the country of destination.

Warranty Period	A Certificate of Warranty Security will be required. The successful Bidder must provide a Warranty Certificate in the amount commensurate to the value of the one (1) year warranty and technical support services period, to be submitted after satisfactory completion and acceptance by the end user.
	The Certificate of Warranty shall be named and titled to the Philippine Atmospheric Geophysical and Astronomical Services Administration (PAGASA).
	If the supplier fails to render the services required under the Warranty, after establishing that the defect is indeed caused by factor defect and not by mishandling or erroneous use of the equipment, PAGASA may make claims against the Certificate of Warranty to cover the value of the repair services required. In the event that appropriate claims shall have to be made by the PAGASA against the Certificate of Warranty, the value of the Certificate of Warranty shall also be reduced accordingly.
Local Service Support	Yes. Identify the geographical distribution of local agents/service providers nearest to the location of the equipment
Technical Support Requirements	Troubleshooting support and preventive maintenance
After-sale services Requirements	 ☑ Warranty on Parts and Labor for minimum period of one (1) year ☑ Technical Support
Payment Terms (max. advanced payment is 20% as per UNDP policy)	40% Upon delivery and installation of the MHEWS equipment and accessories to all the delivery sites
	60%: Upon testing, integration and commissioning of the MHEWS equipment and accessories at all delivery site; Upon completion of the conduct of a one-time training and submission and acceptance of User Manuals; Upon submission and acceptance of a Warranty Certificate in the amount commensurate to the value of the one (1) year warranty and technical support services period, to be submitted after satisfactory completion and acceptance by the end user.
Conditions for Release of Payment	 ☑ Inspection upon arrival at destination ☑ Installation ☑ Testing ☑ Training on Operation and Maintenance ☑ 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 forms 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 	
 Form B: Bidder Information Form 	
 Form C: Joint Venture/Consortium/ Association Information Form 	
 Form D: Qualification Form 	
 Form E: Format of Technical Bid/Bill of Quantities 	
Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?	

Price Schedule:

 Form F: Price Schedule Form 	
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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?	\square Yes \square No If yes, [insert UGNM vendor number]
Are you a UNDP vendor?	☐ Yes ☐ 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]

contact for requests for	Telephone numbers: [Complete]
clarifications during Bid evaluation	
	Email: [Complete]
Please attach the following documents:	 Company Profile, which should not exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/or services being procured Certificate of Incorporation/ Business Registration Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder Trade name registration papers, if applicable Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney. Export Licenses, if applicable Local Government permit to locate and operate in assignment location, if applicable Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country

Form C: Joint Venture/Consortium/Association Information Form

Name	e of Bidder:	[Insert Name of Bio	dder]			Date:	Select date	
ITB re	ference:	[Insert ITB Referen	ce Number]					
To be	completed and r	eturned with your Bi	d if the Bid i	s submi	tted as a Joir	nt Ventu	re/Consortium/	Association.
No		ner and contact inf ers, fax numbers, e-mai		address,		pe of go	tion of respon oods and/or se erformed	
1	[Complete]				[Complete]			
2	[Complete]				[Complete]			
3	[Complete]				[Complete]			
Associate evicantra We have legal so	iation during the rent a Contract is act execution) ve attached a contracture of and the structure of a contracture of a con	the JV, Consortium, ITB process and, in awarded, during opy of the below rei the confirmation of j form a joint venture at if the contract is a	oint and se	cument verable ال	liability of th	ne memb	pers of the said	joint venture
be join		y liable to UNDP for		ent of th		of the (
Signa	ture:			Signat	ure:			
Date:				Date:	· · · · · · · · · · · · · · · · · · ·			
Name	e of partner:			Name	of partner: _			
Signature: Si			Signat	ure:				
Date:			Date:	ato:				

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

□Non-per	□Non-performing contracts did not occur during the last 3 years						
□ Contract	t(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)

□ No litiga	□ No litigation history for the last 3 years							
☐ Litigation	n History as indicated	d below						
Year of	Amount in	Contract Identification	Total Contract Amount					
dispute	dispute (in US\$)		(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 Year Year	USD USD 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		
	Information from Balance Sheet				
Total Assets (TA)					
Total Liabilities (TL)					
Current Assets (CA)					
Current Liabilities (CL)					
	Information from Income Statement				
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:

- a) Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
- b) Historic financial statements must be audited by a certified public accountant;
- c) 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		Your response					
	Technical Specifications			pliance with	Delivery Quality Date Certificate		Comments	
			Yes, we compl	No, we cannot comply (indicate discrepancies)	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)		
Description and Minimum /Mandatory	Technical Specifications (Minimum Specifications)	Qty			autoj			
Specifications								
Controller/ Data Logger	Power Supply: 50Watts to 200watts solar panel and wind turbine with greater than or equal to 60AH deep cycle battery requiring 12V charge controller 2 pulse input port 2 x DI ports to monitor door closing/opening 1 x series TTL port more than 10 spare GPIO ports with built in 10/100T-TX Lan with built in Wi-fi connectivity 1.2Ghz Processor Speed minimum Storage of 8GB SD Storage 8 x Analog to Digital inputs (10- bits or 12-bits available upon request) for system voltage monitoring 4-20mA sensors with built in GSM Modem that can accommodate 10 or more mobile recipients with built in GPS modem RS-232 port for AWS RS-232 port for UHF/VHF Radio	21						
Radio	Frequency range: VHF: 136-174Mhz UHF: 300-370Mhz, 400- 440Mhz, 430-470MHz, 450-490Mhz Channel Spacing: 12.5khz/24KHz Channel Capacity: 16 Power Supply: 9.5V-16V DC Operation Voltage: 12V DC	21						

	T		ı	ī	1	T	1
	(Nominal)						
	Temperature Range: - 30°C ~ +						
	65°C(Operating)						
	Transmitter:						
	Output Power:						
	1~25W(Programmable)						
	3Modulation Type: F3D/F3E						
	urrent:						
	5W RF Power, 12V, 1.5A						
	1W RF Power, 12V, 1A						
	Standby (Muted) Current: 65mA						
	Frequency Deviation:						
	<5KHz (25KHz)						
	<2.5KHz(12.5KHz) Audio Response: 300Hz~3KHz						
	+1/-3dB (25KHz)						
	T 1/-300 (E3KHZ)						
	Receiver:						
	Adj. Channel Power:						
	<=70dBc(25KHz)						
	<=65dBc(12.5KHz)						
	TX SNR:						
	>45dB(25KHz						
	>40dB(12.5KHz)						
	RX Sensitivity (12 dB Sinad):						
	<=119dBm						
	Extreme: <=115dBm						
	Intermodulation: >65dB						
	Audio Output Power: 0.5W @						
	Ω8						
	RX Audio Distortion: <5%						
	Image Rejection: >70dB						
	Spurious Rejection: >70dB						
	Mari D. A. M. J.						
	With Data Modem:						
	Serial Interface: TTL/RS-232/RS-						
	485(8N1) Supply Voltage: DC +12.5V						
	Data Transmission Mode:						
	Transparent						
	Tanaparent						
	Galvanized monopole antenna						
	mast with steps, guy wires,						
	turnbuckles, brackets, lightning						
	protection. The mast and guy						
	wires rest on concrete bases.						
	Receiving frequency band: L1	21					
Possivor	GPS						
Receiver	Built in a 20dB low noise						
Antenna	amplifier and low loss filter,						
	perfect support passive antenna.						

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	Antenna side to build high-				
	quality ESD protection [TVS				
	tube, to ensure that the ESD to				
	achieve 8KV above [air				
	discharge]				
	Receiving frequency band:				
	E1B/C1 Galileo				
	Default support for wide area				
	differential GPS enhancement				
	system S137, [S129] Wan				
	enhanced satellite				
	Receiving channel: 56CH				
	Positioning performance:				
	<2.5m[Autonomous]				
	[50%]				
	<2.0m[SBAS]				
	Rate: < 0.1m/s; direction:				
	<0.5Degrees				
	Timing accuracy: 30ns				
	Reference coordinate system:				
	WGS-84				
	Maximum altitude: 50000 M				
	Max speed: 500m/s				
	Acceleration: < 4G				
	Interface electrical properties:				
	Wide voltage range: the main				
	power supply is $+3.3V\sim+5.5V$,				
	self-owned RTC power supply				
	Tracking sensitivity: -161dBm				
	Capture sensitivity: -147dBm				
	Cold start time: 30s [average				
	Warm start time: 30s [average]				
	Hot start time: 1s [average]				
	The auxiliary ephemeris data of				
	AGPS [network]: 3S				
	Operating temperature: -40 C to				
	C +85 C				
	C +03 C				
	Dockogo cizo:124:00 Czar-				
	Package size:124x96.6mm				
	Built in 25x25x4mm passive				
	ceramic antenna				
	Other parameters:				
	Standard clock pulse:				
	0.25Hz~10MHz				
	Location update rate: 1Hz				
	Usb port interface [default]				
	Data rate: 9600bps				
	Computer Interfacing:				
	USB communication protocol				
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	support operating system: VistaXP, CE Windows10 Support: XP, win7, win8, win10 (support for all series windows system drive) Windows USB drivers Download U-center8.25 USB GPS test software Windows Download				
	Radio Frequency range: 4.940 - 4.990 GHz Channel Size: 5, 10, 20 MHz Modulation Schemes: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) Data rates @ 20 MHz: 173, 144, 130, 116, 87, 58, 43, 29, 14 Mbps Antenna: Integrated directional dual-pol 23 dBi panel or 2 N- type connectors Wired First Interface: 10/100/1000 Base-T with PoE IN (RJ45) Second Interface: 10/100/1000 Base-T with PoE OUT (RJ45)	6 pairs			
IP Radio	Power Power input method, voltage: PoE 802.3at, isolated 42 - 57 VDC Power consumption (max): 8.6W Power output method, voltage: PoE 802.3af, 48 VDC, 12.95W maximum w/ PoE inserter and AC/DC adapter Operating temperature: -40°C to				
	+65°C Humidity: 0 to 90% Internal antenna Frequency range: 4.9 – 5.9 GHz Gain: 23 dBi Polarization: Dual linear Cross-pol Isolation: 27 dBi VSWR: 1.5:1 Azimuth beamwidth (Hpol): 6				

	deg				
	Azimuth beamwidth (Vpol): 7				
	deg				
	Elevation beamwidth: 9 deg				
	Rated Voltage: 12V/24V	15			
	Wind Turbine power: 300Watts				
	Solar Panel Power: 200Watts				
	Charging mode:				
	MPPT charging for wind				
Solar Charge	turbine				
Controller	PWM charging for Solar Panel				
Controller	Display: LCD (remark Voltage,				
	charge current, battery				
	volumetric)				
	Battery Type: AGM, GEL, Lead-				
	acid				
	Maximum Power (pmax):	15			
	200Watts	13			
	Maximum Power Voltage: 36V				
	Maximum Power Current: 5.56A				
	Open Circuit Voltage: 45V				
	Short Circuit Current: 6A				
	Power Tolerance: +5%				
	Module Efficiency STC: 15.30%				
	Operating Temperature range: -				
	40 C to 85 C				
	Maximum System Voltage:				
Solar Panel	1000V				
Solar Panel	Series Fuse Rating: 15A				
	Nominal Operating Cell Temperature: 45 ±2 °C				
	Cell Type: Monocrystalline 156 x				
	156mm				
	Front Glass: 3.2mm, High				
	Transmission, Low Iron,				
	Tempered glass				
	Frame Type: Anodized				
	Aluminum Alloy				
	Junction Box Protection class:				
	IP67 Rated				
	Generator power: 200Watts	15			
	Wheel Diameter: 0.47m	13			
	Turbine height: 0.93 m				
	Blades Material: Casting				
Wind Turbine	Aluminum Alloy				
	Rated wind speed: 11m/s				
	Startup wind turbine: 1.5m/s				
	Survival turbine: 45m/s				
	Output Voltage: 12v/24v				

	Generator type: Maglev Generator Control System: electromagnet Speed regulation: automatically adjust windward direction Working temperature: from -40 °C to 80°C				
Water Level Sensor (Tidal Gauge Sensor)	Pressure Range: 0-10m, 0-20m, of 0-30m or 0-500M Overload: 150% F.S. Burst Pressure:300% F.S. Accuracy: ≤ ±0.5%F.S. Temperature Compensation: - 10°C~65°C Medium compatible: Compatible with 316L Stainless Steel Electronic connection: Fixed cable and water proof IP68 Response time: ≤10 ms (standard) Pressure Type: Gauge pressure Certificate: intrinsic safety or ExdIICT6 and CE Certificate approving EMC Standard: electromagnetic radiation: EN50081-1/-2 electromagnetic susceptibility: EN50082-2 Lighting Protection: Air conduction more than 8000 V external sensor more than 4000 V protection	6			
Digital Humidity Pressure Temperature Sensor	Supply Voltage: 12VDC Operating Range Temperature: -40 to +85 deg. C. Relative Humidity: 0 to 100% Barometric Pressure: 300 to 1100 hPa Key parameters for humidity sensor Response Time: 1s Accuracy Tolerance: +/- 3% relative humidity Hysteresis: +/- 1%	3			

	relative humidity Key parameters for pressure sensor RMS Noise: 0.2Pa, equiv. to 1.7cm Offset temperature coefficient: +/- 1.5 Pa/K, equiv. to +/-12.6 cm at 1 deg. C temperature change				
Wind Direction Sensor	Features: In line with the WMO World Meteorological Organization specifications (CIMO Guide) High sensitivity: start wind speed ≤ 0.3m / s 0-360 degrees show no dead ends Parameters: Range: 0-360 ° Accuracy: ± 1% ° Resolution: of 1 ° Start wind speed: ≤ 0.3m / s Working environment: temperature -50 °C ~ 80 °C, humidity ≤ 100% RH Power supply: Standard: DC5V Other: DC12V, DC24V Output signal: Standard: 0-5V voltage signal	3			
Wind Speed Sensor	Features: In line with the WMO World Meteorological Organization specifications (CIMO Guide) High sensitivity: start wind speed ≤ 0.3m / s Measuring range: measuring range 0- 70m/s, 0-45m/s High accuracy: Accuracy is ± (0.3 0.03V) m / s (V:	3			

	wind speed) Parameters: Measuring range: 0-70 m / s Measurement accuracy: ± (0.3 0.03 V) m / s (V: wind speed) Starting wind speed: Lt; 0.3 m / s Input voltage: 5V, 12V, 24V power supply range Output signal: Standard: pulse signal output, Other: 0-5V, 4-20mA, RS485 and other signal output Working environment: Temperature -20 ° C ~ 60 ° C; humidity ≤ 100% RH				
Solar Radiation Sensor	Sensitivity: 7~ 14 μ V/w.m-2 Spectral range: 0.3 -3 μm Measuring range: 0~2000W/ m² Power Supply mode: 5VDc/12VDC/24VDC Output type: Pulse: pulse signal Current: 4~20mA RS232 RS485 Line length: 2.5m Response time: ≤35 sec (99%) Internal resistance: about 350Ω Cosine response: ≤7% (solar height angle of 10°) Azimuth response error: ≤5% (solar altitude angle of 10°) Temperature characteristics: ±2% (-10°C ~ 40°C) Working environment temperature: -40°C `50°C Non-linearity: ≤2%	3			
Horn Siren Amplifier	Working Voltage: 12VDC / 24VDC Output Power: 200Watts Waterproof: IP65 Ambient Temperature: -40°C ~ 65°C Sound Pressure: 120-130DB With 10 feet of cable to speaker	11			

	and 8.5 feet cable to power				
Horn Siren	Dimensions: 8.46" L x 4.65"H x 7.443" Impedance: 4Ω / 6Ω/ 8 Ω/ 11 Ω Power: 200Watts Frequency range: 300-4600Hz Distortion factor: ≤5% Sound Pressure: 120-130dB	11			
Staff Gauges	Reflectorized stainless steel water level gauge installed at any structure (i.e. pier of the bridge, retaining) of the identified stations. Dimensions: 1-foot wide (length will be based on the actual condition of the station location) Material: powder coated aluminum	11			
	Colors: white background with black markings				
Dashboard Screen	LED TV 43inches Resolution: 1920x1080	8			
Server Database	Workstation i7 Windows PC with UPS, 1-5W UHF radio on a commercial power supply with backup and emergency revert, Omni fiberglass antenna with low-loss cable and connectors, lightning and electrical surge protection. Localized warning broadcast capable within 1km radius. Master and slave database servers to process and store hierarchical hydrological data (PAGASA format). Slave (backup) database server to act as standby server Bespoke interactive web-based map data	4			
	display. Can perform basic hydrological and mathematical function and to receive sensor readings via				

	radio links				
Equipment Housing	Powder coated NEMA-compliant box	21			
Tower mast	Galvanized tower mast (for the equipment listed in Table 2) Length based on actual site condition	21			

Other Related services and requirements	Compliance	with requirements	Details or comments on the related requirements
(based on the information provided in Section 5b)	sed on the information Yes, we comply No, we cannot comply		_
e.g. Delivery Term			
Warranty			
Local Service Support			

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/	[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]
Qualifications	[Insert]
	[Provide details of professional certifications relevant to the scope of goods and/or services]
Professional	Name of institution: [Insert]
certifications	Date of certification: [Insert]

Employment Record/ Experience		
References	[Provide names, addresses, phone and email contact information for two (2) references]	
	Reference 1: [Insert]	
	Reference 2: [Insert]	

[IIISEIT]	
I, the undersigned, certify that to the best of describes my qualifications, my experiences, an	my knowledge and belief, the data provided above correctly of 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: PHP for local bidders and USD for international bidders

Price Schedule

	Description	UOM	Quantity	Unit Price	Total Price
	<please 5(a)<="" as="" breakdown="" component="" each="" indicate="" of="" per="" section="" td=""><td></td><td></td><td></td><td></td></please>				
			Transportation	on/Delivery Cost	
	Bid Total DDP / DAT / DAP, off-loaded	/cleared, F	Place, Country (Incoterms 2010)	
	Installation			Installation	
Training			Training		
	Warranty			Warranty	
	After Sales				
	GRAND TOTAL			GRAND TOTAL	

Name of Bidder:	
Authorised signature:	
Name of authorised signatory:	
Functional Title:	