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INVITATION TO BID

Supply of Communication Equipment

ITB No.: ITB/FJI/JPN/001/20

Project: Enhancing Disaster and Climate Resilience through improved Disaster Preparedness and Infrastructure

Country: Fiji

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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.fj@undp.org, indicating whether you intend to submit a Bid or otherwise. 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.

Sincerely,

UNDP Pacific Office in Fiji

Procurement Unit

Section 2. Instruction to Bidders

GENERAL PROVISIONS	
1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (www.ungm.org). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP: (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.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at http://www.un.org/depts/ptd/pdf/conduct_english.pdf</p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>
4. Conflict of Interests	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they: 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</p>

	<p>documents to be used for the procurement of the goods and services in this selection process;</p> <p>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</p> <p>c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP.</p> <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <p>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</p> <p>b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.</p> <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>4.4 The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
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B. PREPARATION OF BIDS

5. 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: <ul style="list-style-type: none"> a) Documents Establishing the Eligibility and Qualifications of the Bidder; b) Technical Bid; c) Price Schedule; d) Bid Security, if required by BDS; e) Any attachments and/or appendices to the Bid.
9. Documents Establishing the Eligibility and Qualifications of the Bidder	9.1	The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
10. Technical Bid Format and Content	10.1	The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB.
	10.2	Samples of items, when required as per Section 5, shall be provided within the time

	<p>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.</p> <p>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.</p> <p>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.</p>
11. Price Schedule	<p>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.</p> <p>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.</p>
12. Bid Security	<p>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.</p> <p>12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.</p> <p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ol style="list-style-type: none"> a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or; b) In the event the successful Bidder fails: <ol style="list-style-type: none"> i. to sign the Contract after UNDP has issued an award; or ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.
13. Currencies	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <ol style="list-style-type: none"> a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.
14. Joint Venture, Consortium or Association	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the</p>

	<p>JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <ul style="list-style-type: none"> a) Those that were undertaken together by the JV, Consortium or Association; and b) Those that were undertaken by the individual entities of the JV, Consortium or Association. <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
<p>15. Only One Bid</p>	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this ITB; or d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of another Bidder regarding this ITB process; e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
<p>16. Bid Validity Period</p>	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
<p>17. Extension of Bid Validity Period</p>	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>

18. Clarification of Bid (from the Bidders)	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
19. Amendment of Bids	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
20. Alternative Bids	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
21. Pre-Bid Conference	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>
C. SUBMISSION AND OPENING OF BIDS	
22. Submission	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
Hard copy (manual) submission	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in</p>

	<p>an envelope, which shall:</p> <ol style="list-style-type: none"> i. Bear the name of the Bidder; ii. Be addressed to UNDP as specified in the BDS; and iii. Bear a warning not to open before the time and date for Bid opening as specified in the BDS. <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
Email and eTendering submissions	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> 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. <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link: http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/</p>
23. Deadline for Submission of Bids and Late Bids	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the submission of Bids.</p>
24. Withdrawal, Substitution, and Modification of Bids	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
25. Bid Opening	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>

D. EVALUATION OF BIDS

<p>26. Confidentiality</p>	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
<p>27. Evaluation of Bids</p>	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ul style="list-style-type: none"> 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 <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
<p>28. Preliminary Examination</p>	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
<p>29. Evaluation of Eligibility and Qualification</p>	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list; b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments, c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required; d) They are able to comply fully with the UNDP General Terms and Conditions of Contract; e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and f) They have a record of timely and satisfactory performance with their clients.
<p>30. Evaluation of Technical Bid and prices</p>	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
<p>31. Due diligence</p>	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> a) Verification of accuracy, correctness and authenticity of information provided by the Bidder;

	<ul style="list-style-type: none"> 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	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
33. Responsiveness of Bid	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
34. Nonconformities, Repairable Errors and Omissions	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <ul style="list-style-type: none"> 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. <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.</p>

E. AWARD OF CONTRACT

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

	<p>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</p>
<p>46. Other Provisions</p>	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15 http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&referer</p>

Section 3. Bid Data Sheet

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

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Allowed, Bidders are allowed to submit their bids for each Lot or for all Lots as per given ITB
3	20	Alternative Bids	Shall 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	42	Advanced Payment upon signing of contract	Not Allowed. For advance payment please refer to Clause 42.1 Bank Guarantee for Advanced Payment of Section 2. Instruction to Bidders
8	43	Liquidated Damages	Will be imposed as follows: Percentage of contract price per day of delay: 0.1% Max. number of days of delay 30, after which UNDP may terminate the contract.
9	40	Performance Security	Not Required
10	13	Currency of Bid	United States Dollar Reference date for determining UN Operational Exchange Rate: January, 2020
11	31	Deadline for submitting requests for clarifications/ questions	5 days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Murod Ruziev Address: Level 8, Kadavu House, 414 Victoria Parade, Privat Mail Bag Suva, Fiji E-mail address: procurement.fj@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	<p>As indicated in eTendering system. System time zone is in EST/EDT (New York (time zone)).</p> <p>PLEASE NOTE:</p> <ul style="list-style-type: none"> ✓ Date and time visible on the main screen of event (on eTendering portal) will be final and prevail over any other closing time indicated elsewhere, in case they are different. The correct bid closing time is as indicated in the eTendering portal and system will not accept any bid after that time. It is the responsibility of the bidder to make sure bids are submitted within this deadline. UNDP will not accept any bid that is not submitted directly in the system. ✓ Try to submit your bid a day prior or well before the closing time. Do not wait until last minute. If you face any issue submitting your bid at the last minute, UNDP may not be able to assist.
14	22	Allowable Manner of Submitting Bids	<p><input type="checkbox"/> Courier/Hand Delivery</p> <p><input type="checkbox"/> Submission by email</p> <p><input checked="" type="checkbox"/> e-Tendering</p> <p>Username: event.guest</p> <p>Password: why2change</p>
15	22	Bid Submission Address	<p>https://etendering.partneragencies.org</p> <p>Business Unit Code: FJI10</p> <p>Event ID: 0000005095</p>
16	22	Electronic submission requirements	<ul style="list-style-type: none"> ▪ Format: PDF files only ▪ File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. ▪ All files must be free of viruses and not corrupted. ▪ Max. File Size per transmission: 15 MB
17	25	Date, time and venue for the opening of bid	<p>Date and Time: next day after bid submission closing day</p> <p>Venue: UNDP Pacific Office in Fiji (Level 8, Kadavu House, 414 Victoria Parade, Private Mail Bag, Suva, Fiji)</p>
18	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible, and qualified bid
19		Expected date for commencement of Contract	<i>March 24, 2020</i>
20		Maximum expected duration of contract	6 months
21	35	UNDP will award the contract to:	One or more Proposers, depending on the following factors: Evaluation of bids will be Lot based and UNDP will award contract to the lowest priced technically responsive, eligible and qualified bid per each Lot
22	39	Type of Contract	Contract for Goods and/or Services to UNDP

			http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
23	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Contracts http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
24		Other Information Related to the ITB	N/A

Section 4. Evaluation Criteria

Preliminary Examination Criteria

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

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity

Minimum Eligibility and Qualification Criteria

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

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

Subject	Criteria	Document Submission requirement
ELIGIBILITY		
Legal Status	Vendor is a legally registered entity.	Form B: Bidder Information Form
Eligibility	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
Conflict of Interest	No conflicts of interest in accordance with ITB clause 4.	Form A: Bid Submission Form
Bankruptcy	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form
Certificates and Licenses	<ul style="list-style-type: none"> ▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer ▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country ▪ Patent Registration Certificates if any of technologies submitted in the Bid is patented by the Bidder ▪ Export/Import Licenses, if applicable ▪ Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation ▪ 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 ▪ Certificates of quality (e.g., ISO, etc.), origin for the offered goods, and/or other similar certificates, accreditations, awards, and citations received by the Bidder, if any 	Form B: Bidder Information Form

	<ul style="list-style-type: none"> ▪ 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 	
Additional eligibility documents	<ul style="list-style-type: none"> ▪ Details of the Bidder's after-sales service capacity and appropriateness of service network in areas of delivery ▪ List and value of major contracts of similar nature and size successfully completed in the past three years, including contact details of clients, who could be contacted for reference purposes 	
QUALIFICATION		
History of Non-Performing Contracts¹	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 5 years	Form D: Qualification Form
Previous Experience	Minimum 3 years of relevant experience in supply of similar goods <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
Financial Standing	Minimum average annual turnover of USD 200,000 for the last 3 years <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
Technical Evaluation	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document	Form E: Technical Bid Form
	<ul style="list-style-type: none"> ▪ Full compliance of Bid to the Technical Requirements ▪ Full compliance of offered goods to the Technical Specifications and required quality standards ▪ Availability of certificates of quality and origin for the offered equipment ▪ Acceptability of after-sales service capacity and appropriateness of service network in areas of delivery ▪ Compliance with pricing conditions described in the Schedule of Requirements 	

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.

<p>Financial Evaluation</p>	<p>Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F.</p> <p>Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including spare parts, consumption, training, special packaging, etc., where applicable)</p> <p>Comparison with budget/internal estimates.</p>	<p>Form F: Price Schedule Form</p>
<p>Post-qualification Actions</p>	<p>Verification of accuracy, correctness and authenticity of the information provided by the bidder on the legal, technical and financial documents submitted.</p> <p>Inquiry and reference checking with Government entities with jurisdiction on the bidder, or any other entity that may have done business with the bidder.</p> <p>Inquiry and reference checking with other previous clients on the quality of performance on ongoing or previous contracts completed.</p> <p>Physical inspection of the bidder's plant, factory, branches or other places where business transpires, with or without notice to the bidder, if possible.</p>	

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

Any manufacturer's names, trade names, brand names or catalogue numbers used in the specifications are for the purpose of describing and establishing general performance and quality levels. Such references are not intended to be restrictive. Bids are invited on these and comparable brands or products provided the quality of the proposed products meet or exceed the quality of the specifications listed for any item.

SPECIAL NOTE.

All equipment supplied will be built to withstand continuous operation in severe tropical maritime climates prevailing in Micronesia without deterioration. Free and sealed from insect invasion into electronic components.

Bidders will show written evidence that the same or similar equipment has operated satisfactorily in the Tropical Pacific Islands for at least 3 years.

It is expected that all suppliers will have dealers / representatives in the Micronesian region to provide effective after sales and warranty service.

All bidders must be able to satisfy the above conditions and give details of the support to be provided.

All equipment supplied will carry a two-year warranty against any defects.

Quantities will be advised at the time of ordering.

Bidders will indicate price breaks for quantity 1-9, 10-24, 25-49 and more than 50 of each item. Exact number of equipment will be specified at a contract signature.

All bidders must comply with the general rules relating to supply of equipment through UNDP purchasing arrangements.

All prices will include shipping (to be shown separately) to Koror (Palau) and Pohnpei (Federated States of Micronesia).

Bidders will give approximate lead times to supply from the date of receiving an official order to the estimated arrival time in the place of delivery.

LOT 1

HF RADIO ANTENNAS TECHNICAL SPECIFICATIONS

Three basic types of HF antennas are required.

1. Three Wire Broadband Dipole antennas to be configured as an Inverted "V", for NVIS operation.
2. Compact Tuned HF Dipole Antennas with supporting mast for use where space is limited.
3. Rapidly deployed Emergency Antenna Kits.

Specification for HF Antennas and Support Structures.

1. Three Wire Dipoles.

Broadband balanced dipole antennas are required to cover the frequency range 3.5 - 30 MHz.

VSWR should be less than 2:1 over this frequency range and the antenna will be capable of continuous operation at 125 watts PEP.

These antennas preferably will be of 3 wire construction to ensure efficient radiation.

These antennas will be constructed primarily of G304 or equivalent stainless-steel wires to withstand severe maritime tropical conditions.

Spreaders will be of high-quality fiberglass to withstand severe UV radiation levels experienced in the tropics.

All components including load unit and balun will be capable of withstanding hurricane rated winds of at least 65 m/s and tropical UV radiation without damage.

All antennas will be provided with at least 30 meters of high grade 50-ohm coaxial cable terminated at the radio end with a PL259 connector.

2. Compact Tuned Antennas

For locations where there is not adequate space for an inverted V antenna shorter high efficiency antenna will be required.

These should be of tuned balanced construction with horizontal elements to reduce extraneous noise pickup. They should be rated for 150 watts PEP.

The antenna supports and tuner assembly will be constructed to be waterproof and be able to withstand hurricane rated winds of up to 65 m/s without failure.

Most of these units will be required with 6-meter roof mount kits.

Frequency coverage will be from 3.5 – 30 MHz.

All mast sections to be Heavy Duty 4mm wall thickness aluminium tube.

All necessary guy wires to be supplied with at least 3.2 mm diameter stainless steel guy wires with stainless steel fittings.

Insulators will be placed in the guy wires at appropriate intervals.

Guy wire anchors will be galvanized steel posts for ground mount and stainless or galvanized plates and bolts for roof mounting.

Insulators and swivel plates all to be corrosion / UV resistant materials.

All antennas will be provided with at least 30 meters of high grade 50-ohm coaxial cable terminated at the radio end with a PL259 connector.

The tuner will be supplied with 12-volt DC power from the radio supply and 30 meters of control cable will be provided with each antenna.

The antenna should be suitable to operate with SELCAL and ALE scanning while in receive mode.

It should automatically switch to "tuned" mode at the commencement of a transmission for maximum transmit efficiency and revert to broadband receive mode to give maximum receive efficiency when idle.

3. Emergency Antennas

A broadband emergency antenna employing an ultra flexible stainless steel wire as a radiating element is required for rapid deployment where the main HF antenna may have been damaged.

This antenna will be required to cover the frequency range 3.5 - 30 MHz at a continuously rated power of 120 watts PEP without a tuner being needed.

This system should be supplied with a quick deployment kit to suit portable and temporary applications.

Accessories such as a carry satchel, 5M coaxial cable, tethering cord and earth stake should be included.

Weatherproof Sealing Tape.

One roll of Denso tape to be provided per system.

Support Masts for Inverted V Antennas.

To ensure easy transport is desirable that all antenna masts can be broken down to sections not exceeding 2.5 meters length.

All mast sections to be Heavy Duty 4mm wall thickness aluminium tube and be capable of withstanding 60m/s winds without damage.

Top section to be bent to provide an outrigger to support the inverted "V" antenna elements away from the mast.

All necessary guy wires to be supplied with at least 3.2 mm diameter stainless steel with stainless steel fittings.

Guy wires will be fitted / broken up with insulators at appropriate intervals.

Guy wire anchors will be galvanized steel posts for ground mount and stainless or galvanized plates and bolts for roof mounting. These are part of the installation kits for HF antennas and are to be supplied as part of the antenna package.

Insulators and swivel plates all to be corrosion resistant materials. All bolts and other necessary hardware will be provided as a kit of installation materials.

UV Resistant Rope and Fittings to haul up the antenna should be provided as part of the package.

All masts to be supplied with suitable footings kits for ground or roof mounting as required. Quantities will be specified at the time of ordering.

Various heights of 6, 10 and 12 meters may be required and should be made up of the shorter sections fitted together with the required guy sets.

Actual numbers and heights of each type will be provided at the time of ordering.

Lightning Protection equipment.

A suitable lightning / surge protector kit is required to be inserted in the antenna feed cable at the point of entry to the building housing the radio.

The surge arrestor will be equipped with UHF type connectors and be fitted with a replaceable gas arrestor.

A PL259 to PL259 coaxial tail of 5 metre length of RG58 or similar will be provided with the kit.

The whole assembly should have a typical insertion loss of < 0.2 dB in the frequency range 2 - 30 MHz

The kit will be supplied with a non-corroding earthing strap of at least 4 meters length with an end suitable to terminate on an earth rod clamp.

A 2 metre long copper clad earth rod and clamp should be provided in the kit.

It will be manufactured from corrosion resistant materials suitable for severe tropical maritime climates.

Lot 2

ITEM 1. VHF MARINE BAND ANTENNAS TECHNICAL SPECIFICATIONS

Three types of VHF antennas are required for fixed base use.

Folded dipoles for side mounting on an existing tower.

Vertical whip antennas for mounting at the top of a supporting pole.

Mounting hardware will be supplied with the antennas.

Folded Dipole VHF Marine Band Antennas

These antennas are required where an existing tower is to be used and the antenna is to be mounted on the side of the tower.

The antennas will be of all stainless steel construction to withstand the severe maritime climate in Micronesia.

Frequency Range: VHF Marine Band.

Typical VSWR at 156.8 MHz: 1.5 : 1

Cable and connector: RG213 or equivalent tail, 2 metres long with Type N female connector.

Polarisation: Vertical

Mounting: Horizontal tube 1 metre long.

Mounting Clamps: To suit vertical polarisation and attach to a 2 inch vertical pipe.

VHF HIGH GAIN (9dB) ANTENNA Specification

Specifications

Whip type antennas are required.

These antennas are to be suitable for operation in severe tropical maritime conditions.

The antennas will be able to withstand wind speeds of at least 50 m/s.

Band

VHF Marine Band

Antenna Gain

9dB

Max. Input Power

50 watts

SWR

nominally 1.5:1 at 156.8 MHz

Bandwidth

3 MHz within 2.0:1 VSWR

Polarity

Vertical

Impedance

50 Ohms

Connector

Type N or SO239 connector

Mounting Ferrule

Stainless Steel

Mounting Hardware

Stainless Steel or Galvanized steel mounting clamp is required to attach the antenna to a 2 inch water pipe.

An additional insulated standoff insulator is required to strengthen the antenna to withstand severe gale force winds.

VHF HIGH GAIN (6dB) ANTENNA Specification

VHF Marine band whip type antennas are required which are suitable for operation in severe tropical maritime conditions.

The antennas will be able to withstand wind speeds of at least 50 m/s.

Band

VHF Marine Band

Antenna Gain

6dB

Max. Input Power

100 watts

VSWR

nominally 1.5:1 at 156.8 MHz

Bandwidth

3 MHz within 2.0:1 VSWR

Connector

Type N or SO 239

Polarity

Vertical

Impedance

50 Ohms

Mounting Ferrule

Stainless steel

Mounting Hardware

A Stainless Steel or Galvanized Clamp is required to attach antenna to a 2 inch water pipe.

An additional insulated standoff insulator is required to strengthen the antenna to withstand severe gale force winds.

Lot 3

ITEM 1. HF RADIO TRANSCEIVERS TECHNICAL SPECIFICATIONS

All equipment to meet or exceed the minimum specifications listed below:

Transceivers will be supplied with a readily replaceable hand held microphone.

All transceivers will be supplied complete with the necessary hardware and software to be able to operate using SELCAL and ALE.

All transceivers will be sealed to at least IP67 to restrict ingress of moist and dust laden air as experienced in a tropical maritime climate.

Standards

SELCAL

The SELCAL used will conform to Selcal CCIR 493-4 standards and be capable of either 4 or 6 digit addressing.

ALE

The ALE system used will conform to MIL-STD 188-144 A and B and be able to interwork with systems using both these standards.

General standards

Compliant to US-FCC as applicable for HF equipment

Transmit frequency range

2 MHz to 29.99 MHz (full band).

Receive frequency range

0.5 MHz to 29.99 MHz (full band).

Channel capacity

At least 128 programmable channels (Simplex or semi-duplex).

Operating modes

J3E (USB, LSB) AFSK

Display system

Illuminated backlit LCD display (Preferably with adjustable backlight level). Must be on the transceiver front panel.

Programming interfaces

Via USB with provided programming software and also by front panel keyboard.

Pin-code protection.

Pin Code protection is required to prevent unauthorised changes to the radio's configuration.

Primary Power Supply

Nominal 13.6V DC negative ground Reverse polarity and over voltage protected.

100-260VAC 50-60Hz power supply with no break charging of a 2 X 6VDC SLA 12 volt backup battery. Will be required for some units.

Current consumption

Less than 1.5 A on standby.

Antenna port impedance

50 Ohms unbalanced.

Scan types

ALE, SelCal scan & voice detection scan.

Call received Alarm Output.

An alarm output to operate an external alarm when a SELCAL or ALE call is received is required on a connector on the rear panel.

HF Receiver Specifications

Spurious response better than 70dB protection

Audio output power 4.0W at < 10% distortion with a 4ohm load

Provision for external speaker.

Clarifier

Will operate over + - 200Hz range.

HF Transmitter Specifications

Output power

J3E A3E PEP (typical) 125 Watts Continuous

Spurious emissions

64dB typical below PEP

Carrier suppression

50dB below PEP

Unwanted sideband suppression

- 400Hz, 55dB below PEP, 1kHz 65dB below PEP

3rd IMD products.

At least 25dB below PEP

Duty cycle (at 14.1MHz, 25 deg C)

Normal conversation & FSK 100% (at 30 deg C ambient)

RECOMMENDED SPARES.

Bidders will provide a recommended list of workshop replaceable spares including microphones, circuit boards and front panels.

MANUALS.

Hard copies of Operational manuals will be provided with each radio.

Sets of maintenance manuals will be provided where requested together with programming leads and software.

ITEM 2. VHF HANDHELD MARINE RADIO TECHNICAL SPECIFICATIONS

General

Waterproof VHF Handheld Marine radios are required.

These radios will be supplied pre-programmed with International, Canadian and USA channels.

All radios supplied will have a proven history of satisfactory use in severe tropical maritime conditions and will be waterproof to IPX-7 specifications.

The radio is required to float if accidentally dropped into the water.

Radios will be simple to use and have an easily read backlit LCD status screen.

The supplied battery will have an operating life of at least 10 hours with a 10:1 Rx to Tx ratio.

Frequency Range

Tx 156.025 – 157.425 MHz

Rx 156.050 – 163.275 MHz

Usable channels

INT, USA, CAN, WX channels

Scanning

Dual watch on channel 16 and any other selected channel is required.

One button Channel 16 selection is required.

Type of emission

16K0G3E (FM)

Operating temperature range

-20 C to +60 C; -4 F to +140 F

Antenna

Replaceable Flexible Whip

Battery Pack

The supplied battery will have an operating life of at least 10 hours with a 10:1 Rx to Tx ratio.

Rechargeable Battery pack together with one spare pack for each radio.

The battery pack will be replaceable in the field if possible.

Battery Charger

One Mains powered 110 / 220 volt charger and one 12 volt battery charger suitable for battery pack used.

Transmitter**Output power**

(Hi/Low) 5W (High), 1W (Low)

Max. frequency deviation

+_- 5.0kHz

Frequency stability

10ppm

Spurious emissions

less than -68dBc typical

Adjacent channel power

70dB suppression

Audio harmonic distortion

10% (at 60% dev.)

Residual modulation

less than -40dB

Receiver Sensitivity

(at 12dB SINAD) 0.25 uV

Typical Squelch sensitivity

0.25 uV typ. (at threshold) adjustable.

Adjacent Channel Selectivity

70dB

Typical Spurious response

less than - 70dB

Typical Intermodulation Rejection

70dB

Typical Hum and noise ratio

40dB

Typical Audio output power at 10% distortion

Internal SP: 550mW typ.

External SP: 300mW typ. (4 ohm load)

PROGRAMMING SOFTWARE

Copies of any programming software and hardware necessary to configure the repeater will be provided as required. Exact numbers will be provided at the time of placing orders.

DOCUMENTS

Printed operational manuals will be provided with each radio.

These will be written in the English language.

Where required copies of the service and maintenance manuals will be provided.

ITEM 3. VHF MARINE BASE RADIO TECHNICAL SPECIFICATIONS**General**

All radios supplied will have a proven history of satisfactory use in severe tropical maritime conditions and will be waterproof to IPX-7 specifications.

Marine grade weatherproof VHF transceivers factory preprogrammed with all International, Canadian and US VHF Marine channels are required.

These transceivers will be simple to operate and be units that have a proven history of satisfactory operation in the severe maritime conditions in the Pacific Islands.

All controls will be accessible from the front panel except PTT which will be on the microphone.

The following features will be built in to the radio.

Dualwatch and tri-watch function

Priority scan

Display & keypad backlighting

Single key return to CH 16

Tag scan and favorited channel functions

External speaker connection

Weather channel with weather alert

Frequency Range

Tx 156.025 - 161.600 MHz

Rx 156.025 - 162.000 MHz

External Speaker Connection

An external speaker connection is required to enable a remote external speaker to be readily connected to the radio.

Usable channels

USA, CAN, INT, WX channels

Type of emission 16K0G3E (FM)**Power Supply**

Power supply requirement 13.6 V DC nominal, (11.7 - 15.9 V DC reverse polarity protected.)

Antenna Impedance

50 ohm

Transmitter

Output power (at 13.8 V DC)

25W, and 1W

Max. frequency deviation

+ - 5 kHz

Frequency tolerance

+ - 5 ppm

Spurious emissions

Less than 70 dBc (at 25 W)

Adjacent channel power suppression

More than 70dB

Residual modulation noise

More than 40dB suppression

Microphone

Sealed to IPX-7 standards.

The microphone will be easily replaced if required.

Receiver

Sensitivity

12dB SINAD at 0.22 uV typical

Hum and noise ratio

More than 40dB

Audio output power

More than 4W with a 4 ohm load with less than 10% distortion.

External speaker

A weatherproof external speaker not less than 4 inches diameter is required fitted with 5 meters cable and appropriate connector to suit the radio.

Scanning

Dual watch on Channel 16 and another selected Channel.

Single Button Channel 16 Selection.

Priority Scan operation.

PROGRAMMING SOFTWARE.

Copies of any programming software and hardware necessary to configure the radio will be provided as required. Exact numbers will be provided at the time of placing orders.

DOCUMENTS.

Printed operational manuals will be provided with each radio.

These will be written in the English language.

Where required copies of the service and maintenance manuals will be provided.

ITEM 4. VHF REPEATER TECHNICAL SPECIFICATIONS**General Frequency coverage (MHz)**

150-174MHz

Channel spacing

12.5/

External speaker connector

25KHz

Frequency stability

VHF 2.5ppm

Operating temperature range

0 C to +60 C

Nominal Power supply voltage:

11.5 - 14.6V DC

Current drain (at 13.6 V DC)

Tx VHF (at 50W) 15 amps amx.

Rx Stand-by 1A typ.

Transmitter

Output power

50W (high), 10W (low) adjustable (at 13.6V DC)

Max. frequency deviation

+ - 5.0kHz

Spurious emissions 70dB

Adjacent channel power

-70 dBc

Hum and noise

-40 dB

Microphone impedance

600 ohm (8-pin modular)

Receiver

Receiver Sensitivity

0.25 uV typ. (at 12dB SINAD)

Adjacent channel selectivity

70dB

Spurious response

70dB protection

Intermodulation rejection ratio

70dB

Hum and noise ratio

40 dB

Audio output power

2.5 W typ. at 10% distortion with a 4 ohm load.

External speaker connector

2-conductor 3.5 (d) mm (1/8")/4Ω

Repeater Duplexer

Frequency range

Rx 156.025 – 157.425 MHz

Tx 156.050 – 163.275 MHz

Tx to Rx separation

4.5 MHz Minimum

Filter Type

Resonant Cavity Type

Tx to Rx Isolation at 4.5 MHz spacing

> 70 dB

Filter Loss

< 1.5 dB

Antenna Output Connector

50 Ohm Type "N"

PROGRAMMING SOFTWARE

Copies of any programming software and hardware necessary to configure the repeater will be provided as required. Exact numbers will be provided at the time of placing orders.

DOCUMENTS

Printed operational manuals will be provided with each radio.

These will be written in the English language.

Where required copies of the service and maintenance manuals will be provided.

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:

Delivery Term [INCOTERMS 2010] <i>(Pls. link this to price schedule)</i>	CIP Koror, Palau CIP Pohnpei, Federates State of Micronesia (FSM)
Exact Address of Delivery/Installation Location	Koror, Palau Pohnpei, FSM
Mode of Transport Preferred	Sea
UNDP Preferred Freight Forwarder, if any ²	n/a
Distribution of shipping documents <i>(if using freight forwarder)</i>	n/a
Customs, if required, clearing shall be done by:	UNDP
Ex-factory / Pre-shipment inspection	No
Inspection upon delivery	Yes, inspection will be conducted at the final point of destination
Installation Requirements	No
Testing Requirements	Yes
Scope of Training on Operation and Maintenance	Manuals and instructions are required
Commissioning	No
Warranty Period	Standard manufacturer's warranty not less than 2 years
Local Service Support	Details of after-sales capacity in the points of destination will be required
Technical Support Requirements	All technical supporting services and replacement of faulty parts must be provided at vendor's expense during the warranty period. Vendor should indicate nearest to the country of use designated place for shipping the equipment vehicle in case of warranty event.
After-sale services Requirements	<input checked="" type="checkbox"/> Standard manufacturer's warranty not less than 2 years <input checked="" type="checkbox"/> Technical Support <input checked="" type="checkbox"/> Provision of Service Unit when pulled out for maintenance /repair <input type="checkbox"/> Others <i>[pls. specify]</i>
Payment Terms	100% within 30 days upon UNDP's acceptance of the goods delivered as specified and receipt of invoice.
Conditions for Release of Payment	<input type="checkbox"/> Pre-shipment inspection <input checked="" type="checkbox"/> Inspection upon arrival at destination <input type="checkbox"/> Installation <input checked="" type="checkbox"/> Testing <input type="checkbox"/> Training on Operation and Maintenance

² A 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.

	<input type="checkbox"/> Others <i>[pls. specify]</i> <input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
All documentations, including catalogues, instructions and operating manuals, shall be in this language	For evaluation purposes documentations, including catalogues, instructions and operating manuals, shall be in English. All technical documentation, instructions and operating manuals in English language will be required with delivered vehicle.

Section 6: Returnable Bidding Forms / Checklist

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

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

Technical Bid:

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

Price Schedule:

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

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	ITB/FJI/JPN/001/20		

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

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

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

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

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

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

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

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

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

Name: _____

Title: _____

Date: _____

Signature: _____

[Stamp with official stamp of the Bidder]

Form B: Bidder Information Form

Legal name of Bidder	[Complete]
Legal address	[Complete]
Year of registration	[Complete]
Bidder's Authorized Representative Information	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
Are you a UNGM registered vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UGNM vendor number]
Are you a UNDP vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UNDP vendor number]
Countries of operation	[Complete]
No. of full-time employees	[Complete]
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)	[Complete]
Does your organization demonstrate 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 contact for requests for clarifications during Bid evaluation	Name and Title: [Complete] Telephone numbers: [Complete]

	Email: [Complete]
<p>Please attach the following documents:</p>	<ul style="list-style-type: none"> ▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer ▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country ▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder ▪ Export/Import Licenses, if applicable ▪ Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation ▪ 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 ▪ Certificates of quality (e.g., ISO, etc.), origin for the offered goods, 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 ▪ Details of the Bidder's after-sales service capacity and appropriateness of service network in areas of delivery ▪ List and value of major contracts of similar nature and size successfully completed in the past three years, including contact details of clients, who could be contacted for reference purposes

Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	ITB/FJI/JPN/001/20		

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

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

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

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

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

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	ITB/FJI/JPN/001/20		

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

History of Non- Performing Contracts

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

Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 5 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute: Party awarded if resolved:	

Previous Relevant Experience

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

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

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

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

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

Financial Standing

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

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

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

- 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:	ITB/FJI/JPN/001/20		

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.

UNDP Minimum Requirements <i>(Models to be offered by bidders should meet below minimum requirements. Bidders can offer options that exceed below specifications.)</i>	Compliance with Technical Specifications	
	Yes, We Comply	No, we can't comply (indicate discrepancy)
ITEM 1. HF RADIO ANTENNAS TECHNICAL SPECIFICATIONS		
<p><u>Three basic types of HF antennas are required.</u></p> <p>1. Three Wire Broadband Dipole antennas to be configured as an Inverted "V", for NVIS operation.</p>		

2. Compact Tuned HF Dipole Antennas with supporting mast for use where space is limited.		
3. Rapidly deployed Emergency Antenna Kits.		
<u>Specification for HF Antennas and Support Structures.</u>		
<p><u>1. Three Wire Dipoles.</u></p> <p>Broadband balanced dipole antennas are required to cover the frequency range 3.5 - 30 MHz.</p> <p>VSWR should be less than 2:1 over this frequency range and the antenna will be capable of continuous operation at 125 watts PEP.</p> <p>These antennas preferably will be of 3 wire construction to ensure efficient radiation.</p> <p>These antennas will be constructed primarily of G304 or equivalent stainless-steel wires to withstand severe maritime tropical conditions.</p> <p>Spreaders will be of high-quality fiberglass to withstand severe UV radiation levels experienced in the tropics.</p> <p>All components including load unit and balun will be capable of withstanding hurricane rated winds of at least 65 m/s and tropical UV radiation without damage.</p> <p>All antennas will be provided with at least 30 meters of high grade 50-ohm coaxial cable terminated at the radio end with a PL259 connector.</p>		
<p><u>2. Compact Tuned Antennas</u></p> <p>For locations where there is not adequate space for an inverted V antenna shorter high efficiency antenna will be required.</p> <p>These should be of tuned balanced construction with horizontal elements to reduce extraneous noise pickup. They should be rated for 150 watts PEP.</p> <p>The antenna supports and tuner assembly will be constructed to be waterproof and be able to withstand hurricane rated winds of up to 65 m/s without failure.</p> <p>Most of these units will be required with 6-meter roof mount kits.</p> <p>Frequency coverage will be from 3.5 – 30 MHz.</p> <p>All mast sections to be Heavy Duty 4mm wall thickness aluminium tube.</p> <p>All necessary guy wires to be supplied with at least 3.2 mm diameter stainless steel guy wires with stainless steel fittings.</p> <p>Insulators will be placed in the guy wires at appropriate intervals.</p>		

<p>Guy wire anchors will be galvanized steel posts for ground mount and stainless or galvanized plates and bolts for roof mounting.</p> <p>Insulators and swivel plates all to be corrosion / UV resistant materials.</p> <p>All antennas will be provided with at least 30 meters of high grade 50-ohm coaxial cable terminated at the radio end with a PL259 connector.</p> <p>The tuner will be supplied with 12-volt DC power from the radio supply and 30 meters of control cable will be provided with each antenna.</p> <p>The antenna should be suitable to operate with SELCAL and ALE scanning while in receive mode.</p> <p>It should automatically switch to "tuned" mode at the commencement of a transmission for maximum transmit efficiency and revert to broadband receive mode to give maximum receive efficiency when idle.</p>		
<p>3. Emergency Antennas</p> <p>A broadband emergency antenna employing an ultra flexible stainless steel wire as a radiating element is required for rapid deployment where the main HF antenna may have been damaged.</p> <p>This antenna will be required to cover the frequency range 3.5 - 30 MHz at a continuously rated power of 120 watts PEP without a tuner being needed.</p> <p>This system should be supplied with a quick deployment kit to suit portable and temporary applications.</p> <p>Accessories such as a carry satchel, 5M coaxial cable, tethering cord and earth stake should be included.</p>		
<p>Weatherproof Sealing Tape</p> <p>One roll of Denso tape to be provided per system.</p>		
<p>Support Masts for Inverted V Antennas</p> <p>To ensure easy transport is desirable that all antenna masts can be broken down to sections not exceeding 2.5 meters length.</p> <p>All mast sections to be Heavy Duty 4mm wall thickness aluminium tube and be capable of withstanding 60m/s winds without damage.</p> <p>Top section to be bent to provide an outrigger to support the inverted "V" antenna elements away from the mast.</p> <p>All necessary guy wires to be supplied with at least 3.2 mm diameter stainless steel with stainless steel fittings.</p>		

<p>Guy wires will be fitted / broken up with insulators at appropriate intervals.</p> <p>Guy wire anchors will be galvanized steel posts for ground mount and stainless or galvanized plates and bolts for roof mounting. These are part of the installation kits for HF antennas and are to be supplied as part of the antenna package.</p> <p>Insulators and swivel plates all to be corrosion resistant materials. All bolts and other necessary hardware will be provided as a kit of installation materials.</p> <p>UV Resistant Rope and Fittings to haul up the antenna should be provided as part of the package.</p> <p>All masts to be supplied with suitable footings kits for ground or roof mounting as required. Quantities will be specified at the time of ordering.</p> <p>Various heights of 6, 10 and 12 meters may be required and should be made up of the shorter sections fitted together with the required guy sets.</p> <p>Actual numbers and heights of each type will be provided at the time of ordering.</p>		
<p>Lightning Protection equipment</p> <p>A suitable lightning / surge protector kit is required to be inserted in the antenna feed cable at the point of entry to the building housing the radio.</p> <p>The surge arrestor will be equipped with UHF type connectors and be fitted with a replaceable gas arrestor.</p> <p>A PL259 to PL259 coaxial tail of 5 metre length of RG58 or similar will be provided with the kit.</p> <p>The whole assembly should have a typical insertion loss of < 0.2 dB in the frequency range 2 - 30 MHz</p> <p>The kit will be supplied with an non corroding earthing strap of at least 4 meters length with an end suitable to terminate on an earth rod clamp.</p> <p>A 2 metre long copper clad earth rod and clamp should be provided in the kit.</p> <p>It will be manufactured from corrosion resistant materials suitable for severe tropical maritime climates.</p>		

Lot 2

<p>ITEM 1. VHF MARINE BAND ANTENNAS TECHNICAL SPECIFICATIONS</p>		
<p><u>VHF Marine Band Antennas</u></p> <p>Three types of VHF antennas are required for fixed base use.</p> <p>Folded dipoles for side mounting on an existing tower.</p>		

Vertical whip antennas for mounting at the top of a supporting pole. Mounting hardware will be supplied with the antennas.		
<p><u>Folded Dipole VHF Marine Band Antennas</u></p> <p>These antennas are required where an existing tower is to be used and the antenna is to be mounted on the side of the tower.</p> <p>The antennas will be of all stainless steel construction to withstand the severe maritime climate in Micronesia.</p> <p>Frequency Range: VHF Marine Band.</p> <p>Typical VSWR at 156.8 MHz: 1.5 : 1</p> <p>Cable and connector: RG213 or equivalent tail, 2 metres long with Type N female connector.</p> <p>Polarisation: Vertical</p> <p>Mounting: Horizontal tube 1 metre long.</p> <p>Mounting Clamps: To suit vertical polarisation and attach to a 2 inch vertical pipe.</p>		
<u>VHF HIGH GAIN (9dB) ANTENNA Specification</u>		
<p>Specifications</p> <p>Whip type antennas are required.</p> <p>These antennas are to be suitable for operation in severe tropical maritime conditions.</p> <p>The antennas will be able to withstand wind speeds of at least 50 m/s.</p>		
<p>Band</p> <p>VHF Marine Band</p>		
<p>Antenna Gain</p> <p>9dB</p>		
<p>Max. Input Power</p> <p>50 watts</p>		
<p>SWR</p> <p>nominally 1.5:1 at 156.8 MHz</p>		
<p>Bandwidth</p> <p>3 MHz within 2.0:1 VSWR</p>		
<p>Polarity</p> <p>Vertical</p>		
<p>Impedance</p> <p>50 Ohms</p>		
<p>Connector</p> <p>Type N or SO239 connector</p>		
Mounting Ferrule		

Stainless Steel		
<p>Mounting Hardware Stainless Steel or Galvanized steel mounting clamp is required to attach the antenna to a 2 inch water pipe.</p> <p>An additional insulated standoff insulator is required to strengthen the antenna to withstand severe gale force winds.</p>		
<p><u>VHF HIGH GAIN (6dB) ANTENNA Specification</u> VHF Marine band whip type antennas are required which are suitable for operation in severe tropical maritime conditions.</p> <p>The antennas will be able to withstand wind speeds of at least 50 m/s</p>		
<p>Band VHF Marine Band</p>		
<p>Antenna Gain 6dB</p>		
<p>Max. Input Power 100 watts</p>		
<p>VSWR: nominally 1.5:1 at 156.8 MHz</p>		
<p>Bandwidth 3 MHz within 2.0:1 VSWR</p>		
<p>Connector Type N or SO 239</p>		
<p>Polarity Vertical</p>		
<p>Impedance 50 Ohms</p>		
<p>Mounting Ferrule Stainless steel</p>		
<p>Mounting Hardware A Stainless Steel or Galvanized Clamp is required to attach antenna to a 2 inch water pipe.</p> <p>An additional insulated standoff insulator is required to strengthen the antenna to withstand severe gale force winds.</p>		

Lot 3

ITEM 1. HF RADIO TRANSCEIVERS TECHNICAL SPECIFICATIONS		
Transceivers will be supplied with a readily replaceable hand held microphone		

All transceivers will be supplied complete with the necessary hardware and software to be able to operate using SELCAL and ALE		
All transceivers will be sealed to at least IP67 to restrict ingress of moist and dust laden air as experienced in a tropical maritime climate		
Standards		
SELCAL The SELCAL used will conform to Selcall CCIR 493-4 standards and be capable of either 4 or 6 digit addressing.		
ALE The ALE system used will conform to MIL-STD 188-144 A and B and be able to interwork with systems using both these standards.		
General standards Compliant to US-FCC as applicable for HF equipment		
Transmit frequency range 2 MHz to 29.99 MHz (full band)		
Receive frequency range 0.5 MHz to 29.99 MHz (full band)		
Channel capacity At least 128 programmable channels (Simplex or semi-duplex)		
Operating modes J3E (USB, LSB) AFSK		
Display system Illuminated backlit LCD display (Preferably with adjustable backlight level). Must be on the transceiver front panel		
Programming interfaces Via USB with provided programming software and also by front panel keyboard		
Pin-code protection Pin Code protection is required to prevent unauthorised changes to the radio's configuration		
Primary Power Supply Nominal 13.6V DC negative ground Reverse polarity and over voltage protected. 100-260VAC 50-60Hz power supply with no break charging of a 2 X 6VDC SLA 12 volt backup battery. Will be required for some units		
Current consumption Less than 1.5 A on standby		
Antenna port impedance		

50 Ohms unbalanced		
Scan types ALE, SelCal scan & voice detection scan		
Call received Alarm Output An alarm output to operate an external alarm when a SELCAL or ALE call is received is required on a connector on the rear panel.		
HF Receiver Specifications Spurious response better than 70dB protection Audio output power 4.0W at < 10% distortion with a 4ohm load Provision for external speaker.		
Clarifier Will operate over + - 200Hz range		
HF Transmitter Specifications		
Output power J3E A3E PEP (typical) 125 Watts Continuous		
Spurious emissions 64dB typical below PEP		
Carrier suppression 50dB below PEP		
Unwanted sideband suppression - 400Hz, 55dB below PEP, 1kHz 65dB below PEP		
3rd IMD products At least 25dB below PEP		
Duty cycle (at 14.1MHz, 25 deg C) Normal conversation & FSK 100% (at 30 deg C ambient)		
RECOMMENDED SPARES Bidders will provide a recommended list of workshop replaceable spares including microphones, circuit boards and front panels		
MANUALS Hard copies of Operational manuals will be provided with each radio. Sets of maintenance manuals will be provided where requested together with programming leads and software.		
ITEM 2. VHF HANDHELD MARINE RADIO TECHNICAL SPECIFICATIONS		
General Waterproof VHF Handheld Marine radios are required. These radios will be supplied pre-programmed with International, Canadian and USA channels.		

<p>All radios supplied will have a proven history of satisfactory use in severe tropical maritime conditions and will be waterproof to IPX-7 specifications.</p> <p>The radio is required to float if accidentally dropped into the water.</p> <p>Radios will be simple to use and have an easily read backlit LCD status screen.</p> <p>The supplied battery will have an operating life of at least 10 hours with a 10:1 Rx to Tx ratio.</p>		
<p>Frequency Range Tx 156.025 – 157.425 MHz Rx 156.050 – 163.275 MHz</p>		
<p>Usable channels INT, USA, CAN, WX channels</p>		
<p>Scanning Dual watch on channel 16 and any other selected channel is required. One button Channel 16 selection is required.</p>		
<p>Type of emission 16K0G3E (FM)</p>		
<p>Operating temperature range -20 C to +60 C; -4 F to +140 F</p>		
<p>Antenna Replaceable Flexible Whip</p>		
<p>Battery Pack The supplied battery will have an operating life of at least 10 hours with a 10:1 Rx to Tx ratio. Rechargeable Battery pack together with one spare pack for each radio. The battery pack will be replaceable in the field if possible.</p>		
<p>Battery Charger One Mains powered 110 / 220 volt charger and one 12 volt battery charger suitable for battery pack used.</p>		
<p>Transmitter</p>		
<p>Output power (Hi/Low) 5W (High),1W (Low)</p>		
<p>Max. frequency deviation +_- 5.0kHz</p>		
<p>Frequency stability 10ppm</p>		

Spurious emissions less than -68dBc typical		
Adjacent channel power 70dB suppression		
Audio harmonic distortion 10% (at 60% dev.)		
Residual modulation less than -40dB		
Receiver Sensitivity (at 12dB SINAD) 0.25 uV		
Typical Squelch sensitivity 0.25 uV typ. (at threshold) adjustable		
Adjacent Channel Selectivity 70dB		
Typical Spurious response less than - 70dB		
Typical Intermodulation Rejection 70dB		
Typical Hum and noise ratio 40dB		
Typical Audio output power (at 10% distortion) Internal SP: 550mW typ. External SP: 300mW typ. (4 ohm load)		
<u>PROGRAMMING SOFTWARE</u> Copies of any programming software and hardware necessary to configure the repeater will be provided as required. Exact numbers will be provided at the time of placing orders		
<u>DOCUMENTS</u> Printed operational manuals will be provided with each radio. These will be written in the English language. Where required copies of the service and maintenance manuals will be provided		
ITEM 3. VHF MARINE BASE RADIO TECHNICAL SPECIFICATIONS		
<u>General</u> All radios supplied will have a proven history of satisfactory use in severe tropical maritime conditions and will be waterproof to IPX-7 specifications. Marine grade weatherproof VHF transceivers factory preprogramed with all International, Canadian and US VHF Marine channels are required.		

<p>These transceivers will be simple to operate and be units that have a proven history of satisfactory operation in the severe maritime conditions in the Pacific Islands.</p> <p>All controls will be accessible from the front panel except PTT which will be on the microphone.</p> <p><u>The following features will be built in to the radio.</u></p> <p>Dualwatch and tri-watch function</p> <p>Priority scan</p> <p>Display & keypad backlighting</p> <p>Single key return to CH 16</p> <p>Tag scan and favorited channel functions</p> <p>External speaker connection</p> <p>Weather channel with weather alert</p>		
<p>Frequency Range Tx 156.025 - 161.600 MHz Rx 156.025 - 162.000 MHz</p>		
<p>External Speaker Connection An external speaker connection is required to enable a remote external speaker to be readily connected to the radio</p>		
<p>Usable channels USA, CAN, INT, WX channels</p>		
<p>Type of emission 16K0G3E (FM)</p>		
<p>Power Supply Power supply requirement 13.6 V DC nominal, (11.7 - 15.9 V DC reverse polarity protected.)</p>		
<p>Antenna Impedance 50 ohm</p>		
<p><u>Transmitter</u></p>		
<p>Output power (at 13.8 V DC) 25W, and 1W</p>		
<p>Max. frequency deviation +- 5 kHz</p>		
<p>Frequency tolerance +- 5 ppm</p>		
<p>Spurious emissions Less than 70 dBc (at 25 W)</p>		
<p>Adjacent channel power suppression More than 70dB</p>		
<p>Residual modulation noise</p>		

More than 40dB suppression		
Microphone Sealed to IPX-7 standards. The microphone will be easily replaced if required		
Receiver Sensitivity 12dB SINAD at 0.22 uV typical		
Hum and noise ratio More than 40dB		
Audio output power More than 4W with a 4 ohm load with less than 10% distortion		
External speaker A weatherproof external speaker not less than 4 inches diameter is required fitted with 5 meters cable and appropriate connector to suit the radio		
Scanning Dual watch on Channel 16 and another selected Channel. Single Button Channel 16 Selection. Priority Scan operation.		
<u>PROGRAMMING SOFTWARE</u> Copies of any programming software and hardware necessary to configure the radio will be provided as required. Exact numbers will be provided at the time of placing orders		
<u>DOCUMENTS</u> Printed operational manuals will be provided with each radio. These will be written in the English language. Where required copies of the service and maintenance manuals will be provided		
ITEM 4. VHF REPEATER TECHNICAL SPECIFICATIONS		
General Frequency coverage (MHz) 150-174MHz		
Channel spacing 12.5/		
External speaker connector 25KHz		
Frequency stability VHF 2.5ppm		
Operating temperature range 0 C to +60 C		
Nominal Power supply voltage		

11.5 - 14.6V DC Current drain (at 13.6 V DC) Tx VHF (at 50W) 15 amps amx. Rx Stand-by 1A typ.		
<u>Transmitter</u>		
Output power 50W (high), 10W (low) adjustable (at 13.6V DC)		
Max. frequency deviation +- 5.0kHz		
Spurious emissions 70dB		
Adjacent channel power -70 dBc		
Hum and noise -40 dB		
Microphone impedance 600 ohm (8-pin modular)		
<u>Receiver</u>		
Receiver Sensitivity 0.25 uV typ. (at 12dB SINAD)		
Adjacent channel selectivity 70dB		
Spurious response 70dB protection		
Intermodulation rejection ratio 70dB		
Hum and noise ratio 40 dB		
Audio output power: 2.5 W typ. at 10% distortion with a 4 ohm load		
External speaker connector 2-conductor 3.5 (d) mm (1/8")/4Ω		
<u>Repeater Duplexer</u>		
Frequency range Rx 156.025 – 157.425 MHz Tx 156.050 – 163.275 MHz		
Tx to Rx separation 4.5 MHz Minimum		
Filter Type Resonant Cavity Type		

Tx to Rx Isolation at 4.5 MHz spacing > 70 dB		
Filter Loss < 1.5 dB		
Antenna Output Connector 50 Ohm Type "N"		
<u>PROGRAMMING SOFTWARE</u> Copies of any programming software and hardware necessary to configure the repeater will be provided as required. Exact numbers will be provided at the time of placing orders		
<u>DOCUMENTS</u> Printed operational manuals will be provided with each radio. These will be written in the English language. Where required copies of the service and maintenance manuals will be provided.		

Other Related services and requirements <i>(based on the information provided in Section 5b)</i>	Compliance with requirements		Details or comments on the related requirements
	Yes, we comply	No, we can't comply <i>(indicate discrepancies)</i>	
All equipment supplied will be built to withstand continuous operation in severe tropical maritime climates prevailing in Micronesia without deterioration. Free and sealed from insect invasion into electronic components			
Supplier has dealers / representatives in the Micronesian region to provide effective after sales and warranty service			
e.g. Delivery Term 6 months			
Standard manufacturer's warranty minimum 2 years			
All technical supporting services and replacement of faulty parts must be provided at vendor's expense during the warranty period. Vendor should indicate nearest to the country of use designated place for shipping the equipment vehicle in case of warranty event			
Manuals and instructions are required in English			
Delivery term CIP to the final points of destination			

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. – n/a
- 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. – n/a

Format for CV of Proposed Key Personnel

Name of Personnel	[Insert]
Position for this assignment	[Insert]
Nationality	[Insert]
Language proficiency	[Insert]
Education/Qualifications	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i>
	[Insert]
Professional certifications	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i>
	<ul style="list-style-type: none"> ▪ Name of institution: [Insert] ▪ Date of certification: [Insert]
Employment Record/ Experience	<i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i>
	[Insert]
References	<i>[Provide names, addresses, phone and email contact information for two (2) references]</i>
	Reference 1: [Insert] Reference 2: [Insert]

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

Signature of Personnel

Date (Day/Month/Year)

FORM F: PRICE SCHEDULE FORM

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	ITB/FJI/JPN/001/20		

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.

Bidders shall price their bids based on the details presented in Section 5a. All prices quoted shall comply with requested INCOTERMS 2010 and shall include loading/unloading, insurance, transportation to final destination, installation, initial start-up and training. All prices quoted shall be in US Dollars and shall be exclusive of all taxes (e.g. customs duties, VAT etc.).

UNDP will award the contract to one or more Bidders, who will present the lowest priced offers of the technically qualified/responsive Bids for each lot.

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

Bidder is required to specify detailed description of offered product by providing model, brand, technical parameters and catalogue if available. Offered product should meet minimum technical specification requirements outlined in the Section 5a: Schedule of Requirements and Technical Specifications/Bill of Quantities.

Currency of the Bid: USD

Price Schedule

#	A	C	D	E = CxD*	F	G	H	I	J = E+F+G+H	K=E+F+G+I
	Description	Quantity (pcs)	Unit Price	Total Price	Warranty	After Sales	Shipping Costs to Koror, Palau	Shipping Costs to Pohnpei, FSM	Total CIP** Price to Koror, Palau	Total CIP** Price to Pohnpei, FSM
Lot 1										
1	HF RADIO ANTENNAS [please provide specification details, catalogue, brochure of offered model]	1-9								
		10-24								
		25-49								
		50 and more								

Lot 2										
2	VHF MARINE BAND ANTENNAS [please provide specification details, catalogue, brochure of offered model]	1-9								
		10-24								
		25-49								
		50 and more								
Lot 3										
3	HF RADIO TRANSCEIVERS [please provide specification details, catalogue, brochure of offered model]	1-9								
		10-24								
		25-49								
		50 and more								
4	VHF HANDHELD MARINE RADIO [please provide specification details, catalogue, brochure of offered model]	1-9								
		10-24								
		25-49								
		50 and more								
5	VHF MARINE BASE RADIO [please provide specification details, catalogue, brochure of offered model]	1-9								
		10-24								
		25-49								
		50 and more								
6	VHF REPEATER [please provide specification details, catalogue,	1-9								
		10-24								

	brochure of offered model]	25-49								
		50 and more								

* To calculate total price please use 9, 24, 49 and 50

** Incoterms 2010, CIP

Name of Bidder: _____

Authorised signature: _____

Name of authorised signatory: _____

Functional Title: _____