

INVITATION TO BID

UNDP/ITB/06/2015

Supply, Delivery and Installation of Automatic Early Warning System at Imja Lake

Community Based Flood and Glacial Lake Outburst Risk Reduction Project (CFGORRP)

Nepal



Section 1. Letter of Invitation

Kathmandu, Nepal July 23, 2015

UNDP/ITB/06/2015 Supply, Delivery and Installation of Early Warning System at Imja Lake

Dear Sir/Madame,

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:

Section 1 – This Letter of Invitation
Section 2 – Instructions to Bidders (including Data Sheet)
Section 3 – Schedule of Requirements and Technical Specifications
Section 4 – Bid Submission Form
Section 5 – Documents Establishing the Eligibility and Qualifications of the Bidder
Section 6 – Technical Bid Form
Section 7 – Price Schedule Form
Section 8 – Form for Performance Security
Section 9 – Contract to be Signed, including General Terms and Conditions

Your offer, comprising of a Technical Bid and Price Schedule, in separate sealed envelopes, should be submitted in accordance with Section 2.

You are kindly requested to submit an acknowledgment letter to UNDP to the following address:

United Nations Development Programme UN House, Pulchowk Lalitpur, Nepal or E-mail address: registry.np@undp.org The Deputy Country Director (Operations)

The letter should be received by UNDP no later than **Monday, 03 August 2015, 1700hrs**. The same letter should advise whether your company intends to submit a Bid. If that is not the case, UNDP would appreciate your indicating the reason, for our records.

If you have received this ITB through a direct invitation by UNDP, transferring this invitation to another firm requires notifying UNDP accordingly.

Should you require any clarification, kindly communicate with the contact person identified in the attached Data Sheet as the focal point for queries on this ITB.

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

Sincerely yours,

Deepak Shrestha Procurement Analyst, Procurement Unit July 23, 2015

Section 2: Instruction to Bidders¹

Definitions

- a) *"Bid"* refers to the Bidder's response to the Invitation to Bid, including the Bid Submission Form, Technical Bid and Price Schedule and all other documentation attached thereto as required by the ITB.
- b) *"Bidder"* refers to any legal entity that may submit, or has submitted, a Bid for the supply of goods and provision of related services requested by UNDP.
- c) *"Contract"* refers to the legal instrument that will be signed by and between the UNDP and the successful Bidder, all the attached documents thereto, including the General Terms and Conditions (GTC) and the Appendices.
- d) "Country" refers to the country indicated in the Data Sheet.
- e) *"Data Sheet"* refers to such part of the Instructions to Bidders used to reflect conditions of the tendering process that are specific for the requirements of the ITB.
- f) "Day" refers to calendar day.
- g) *"Goods"* refer to any tangible product, commodity, article, material, wares, equipment, assets or merchandise that UNDP requires under this ITB.
- h) *"Government"* refers to the Government of the country where the goods and related services provided/rendered specified under the Contract will be delivered or undertaken.
- i) *"Instructions to Bidders"* refers to the complete set of documents which provides Bidders with all information needed and procedures to be followed in the course of preparing their Bid
- j) *"ITB"* refers to the Invitation to Bid consisting of instructions and references prepared by UNDP for purposes of selecting the best supplier or service provider to fulfil the requirement indicated in the Schedule of Requirements and Technical Specifications.
- k) *"LOI"* (Section 1 of the ITB) refers to the Letter of Invitation sent by UNDP to Bidders.
- I) "Material Deviation" refers to any contents or characteristics of the bid that is significantly different from an essential aspect or requirement of the ITB, and (i) substantially alters the scope and quality of the requirements; (ii) limits the rights of UNDP and/or the obligations of the offeror; and (iii) adversely impacts the fairness and principles of the procurement process, such as those that compromise the competitive position of other offerors.

¹Note: this Section 2 - Instructions to Bidders shall not be modified in any way. <u>Any necessary changes to address specific country</u> and project information shall be introduced only through the Data Sheet.

- m) "Schedule of Requirements and Technical Specifications" refers to the document included in this ITB as Section 3 which lists the goods required by UNDP, their specifications, the related services, activities, tasks to be performed, and other information pertinent to UNDP's receipt and acceptance of the goods.
- n) *"Services"* refers to the entire scope of tasks related or ancillary to the completion or delivery of the goods required by UNDP under the ITB.
- o) "Supplemental Information to the ITB" refers to a written communication issued by UNDP to prospective Bidders containing clarifications, responses to queries received from prospective Bidders, or changes to be made in the ITB, at any time after the release of the ITB but before the deadline for the submission of Bid.

A. GENERAL

- 1. UNDP hereby solicits Bids as a response to this Invitation to Bid (ITB). Bidders must strictly adhere to all the requirements of this ITB. No changes, substitutions or other alterations to the rules and provisions stipulated in this ITB may be made or assumed unless it is instructed or approved in writing by UNDP in the form of Supplemental Information to the ITB.
- 2. Submission of a Bid shall be deemed as an acknowledgement by the Bidder that all obligations stipulated by this ITB will be met and, unless specified otherwise, the Bidder has read, understood and agreed to all the instructions in this ITB.
- 3. Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of any Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.
- 4. UNDP implements a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical practices, and obstruction. UNDP is committed to preventing, identifying and addressing all acts of fraud and corrupt practices against UNDP as well as third parties involved in UNDP activities. (See http://www.undp.org/about/transparencydocs/UNDP_Anti_Fraud_Policy_English_FINAL_june_2011.pdf and http://www.undp.org/content/undp/en/home/operations/procurement/procurement_protest/

for full description of the policies)

5. In responding to this ITB, UNDP requires all Bidders to conduct themselves in a professional, objective and impartial manner, and they must at all times hold UNDP's interests paramount. Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. All 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:

- 5.1 Are, or have been associated in the past, with a firm or any of its affiliates which have been engaged UNDP to provide services for the preparation of the design, Schedule of Requirements and Technical Specifications, cost analysis/estimation, and other documents to be used for the procurement of the goods and related services in this selection process;
- 5.2 Were involved in the preparation and/or design of the programme/project related to the goods and related services requested under this ITB; or
- 5.3 Are found to be in conflict for any other reason, as may be established by, or at the discretion of, UNDP.

In the event of any uncertainty in the interpretation of what is potentially a conflict of interest, Bidders must disclose the condition to UNDP and seek UNDP's confirmation on whether or not such conflict exists.

- 6. Similarly, the following must be disclosed in the Bid :
 - 6.1 Bidders who are owners, part-owners, officers, directors, controlling shareholders, or key personnel who are family of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving the goods and related services under this ITB; and
 - 6.4 Others that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.

Failure of such disclosure may result in the rejection of the Bid.

- 7. 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 as an independent entity, the extent of Government ownership/share, receipt of subsidies, mandate, access to information in relation to this ITB, and others that may lead to undue advantage against other Bidders, and the eventual rejection of the Bid.
- 8. All Bidders must adhere to the UNDP Supplier Code of Conduct, which may be found at this link: <u>http://web.ng.undp.org/procurement/undp-supplier-code-of-conduct.pdf</u>

B. CONTENTS OF BID

9. Sections of Bid

Bidders are required to complete, sign and submit the following documents:

- 9.1 Bid Submission Cover Letter Form (see ITB Section 4);
- 9.2 Documents Establishing the Eligibility and Qualifications of the Bidder (see ITB Section 5);
- 9.3 Technical Bid (see prescribed form in ITB Section 6);
- 9.4 Price Schedule (see prescribed form in ITB Section 7);
- 9.5 Bid Security, if applicable (if required and as stated in the DS nos. 9-11, see prescribed Form in ITB Section 8);

9.6 Any attachments and/or appendices to the Bid (including all those specified under the **Data Sheet**)

10. Clarification of Bid

- 10.1 Bidders may request clarification of any of the ITB documents no later than the number of days indicated in the **Data Sheet** (DS no. 16) prior to the Bid submission date. Any request for clarification must be sent in writing via courier or through electronic means to the UNDP address indicated in the **Data Sheet** (DS no. 17). UNDP will respond in writing, transmitted by electronic means and will transmit copies of the response (including an explanation of the query but without identifying the source of inquiry) to all Bidders who have provided confirmation of their intention to submit a Bid.
- 10.2 UNDP shall endeavor to provide such 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 Bid, unless UNDP deems that such an extension is justified and necessary.

11. Amendment of Bid

- 11.1 At any time prior to the deadline for submission of Bid, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of a Supplemental Information to the ITB. All prospective Bidders will be notified in writing of all changes/amendments and additional instructions through Supplemental Information to the ITB and through the method specified in the **Data Sheet** (DS No. 18).
- 11.2 In order to afford prospective Bidders reasonable time to consider the amendments in preparing their Bid, UNDP may, at its discretion, extend the deadline for submission of Bid, if the nature of the amendment to the ITB justifies such an extension.

C. PREPARATION OF BID

12. Cost

The Bidder shall bear any and all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid was selected or not. UNDP shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.

13. Language

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 **Data Sheet** (DS No. 4). Any printed literature furnished by the Bidder written in a language other than the language indicated in the **Data Sheet**, must be accompanied by a translation in the preferred language indicated in the **Data Sheet**. For purposes of interpretation of the Bid, and in the event of discrepancy or inconsistency in meaning, the version translated into the preferred language shall govern. Upon conclusion of a contract, the language of the contract shall govern the relationship between the contractor and UNDP.

14. Bid Submission Form

The Bidder shall submit the Bid Submission Form using the form provided in Section 4 of this ITB.

15. Technical Bid Format and Content

Unless otherwise stated in the **Data Sheet** (DS no. 28), the Bidder shall structure the Technical Bid as follows:

- 15.1 Expertise of Firm/Organization this section should provide details regarding management structure of the organization, organizational capability/resources, and experience of organization/firm, the list of projects/contracts (both completed and on-going, both domestic and international) which are related or similar in nature to the requirements of the ITB, manufacturing capacity of plant if Bidder is a manufacturer, authorization from the manufacturer of the goods if Bidder is not a manufacturer, and proof of financial stability and adequacy of resources to complete the delivery of goods and provision of related services required by the ITB (see ITB Clause 18 and DS No. 26 for further details). The same shall apply to any other entity participating in the ITB as a Joint Venture or Consortium.
- 15.2 Technical Specifications and Implementation Plan this section should demonstrate the Bidder's response to the Schedule of Requirements and Technical Specifications by identifying the specific components proposed; how each of the requirements shall be met point by point; providing a detailed specification and description of the goods required, plans and drawings where needed; the essential performance characteristics, identifying the works/portions of the work that will be subcontracted; a list of the major subcontractors, and demonstrating how the bid meets or exceeds the requirements, while ensuring appropriateness of the bid to the local conditions and the rest of the project operating environment during the entire life of the goods provided. Details of technical bid must be laid out and supported by an Implementation Timetable, including Transportation and Delivery Schedule where needed, that is within the duration of the contract as specified in the **Data Sheet** (DS noS. 29 and 30).

Bidders must be fully aware that the goods and related services that UNDP require may be transferred, immediately or eventually, by UNDP to the Government partners, or to an entity nominated by the latter, in accordance with UNDP's policies and procedures. All bidders are therefore required to submit the following in their bids:

- A statement of whether any import or export licences are required in respect of the goods to be purchased or services to be rendered, including any restrictions in the country of origin, use or dual use nature of the goods or services, including any disposition to end users;
- b) Confirmation that the Bidder has obtained license of this nature in the past, and have an expectation of obtaining all the necessary licenses, should their bid be rendered the most responsive; and
- c) Complete documentation, information and declaration of any goods classified or may be classified as "Dangerous Goods".

15.3 Management Structure and Key Personnel – This section should include the comprehensive curriculum vitae (CVs) of key personnel that will be assigned to support the implementation of the technical bid, clearly defining their roles and responsibilities. CVs should establish competence and demonstrate qualifications in areas relevant to the requirements of this ITB.

In complying with this section, the Bidder assures and confirms to UNDP that the personnel being nominated are available to fulfil the demands of the Contract during its stated full term. If any of the key personnel later becomes unavailable, except for unavoidable reasons such as death or medical incapacity, among other possibilities, UNDP reserves the right to render the Bid non-responsive. Any deliberate substitution of personnel arising from unavoidable reasons, including delay in the implementation of the project of programme through no fault of the Bidder, shall be made only with UNDP's acceptance of the justification for substitution, and UNDP's approval of the qualification of the replacement who shall be either of equal or superior credentials as the one being replaced.

- 15.4 Where the **Data Sheet** requires the submission of the Bid Security, the Bid Security shall be included along with the Technical Bid. The Bid Security may be forfeited by UNDP, and reject the Bid, in the event of any or any combination of the following conditions:
 - a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the **Data Sheet** (DS no. 11), or;
 - b) If the Bid Security amount is found to be less than what is required by UNDP as indicated in the **Data Sheet** (DS no. 9), or;
 - c) In the case the successful Bidder fails:
 - i. to sign the Contract after UNDP has awarded it;
 - ii. to comply with UNDP's variation of requirement, as per ITB Clause 35; or
 - iii. to furnish Performance Security, insurances, or other documents that UNDP may require as a condition to rendering effective the contract that may be awarded to the Bidder.

16. Price Schedule

The Price Schedule shall be prepared using the attached standard form (Section 7). It shall list all major cost components associated with the goods and related services, and the detailed breakdown of such costs. All goods and services described in the Technical Bid must be priced separately on a one-to-one correspondence. Any output and activities described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of the items or activities, as well as in the final total price of the bid.

17. Currencies

All prices shall be quoted in the currency indicated in the **Data Sheet** (DS no. 15). However, where Bids are quoted in different currencies, for the purposes of comparison of all Bid:

- 17.1 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 Bid; and
- 17.2 In the event that the Bid found to be the most responsive to the ITB requirement is quoted in another currency different from the preferred currency as per **Data Sheet** (DS no. 15), then UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.

18. Documents Establishing the Eligibility and Qualifications of the Bidder

- 18.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the forms provided under Section 5, Bidder Information Forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfactions. These include, but are not limited to the following:
 - a) That, in the case of a Bidder offering to supply goods under the Contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' manufacturer or producer to supply the goods in the country of final destination;
 - b) That the Bidder has the financial, technical, and production capability necessary to perform the Contract; and
 - c) That, to the best of the Bidder's knowledge, it is not included in the UN 1267 List or the UN Ineligibility List, nor in any and all of UNDP's list of suspended and removed vendors.
- 18.2 Bids submitted by two (2) or more Bidders shall all be rejected by UNDP if they are found to have <u>any</u> of the following:
 - a) they have at least one controlling partner, director or shareholder in common; or
 - b) any one of them receive or have received any direct or indirect subsidy from the other/s; or
 - c) they have the same legal representative for purposes of this ITB; or
 - d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of, another Bidder regarding this ITB process;
 - e) they are subcontractors to each other's bid, or a subcontractor to one bid also submits another Bid under its name as lead Bidder; or
 - f) an expert proposed to be in the bid of one Bidder participates in more than one Bid received for this ITB process. This condition does not apply to subcontractors being included in more than one Bid.

19. Joint Venture, Consortium or Association

If the Bidder is a group of legal entities that will form or have formed a joint venture, consortium or association at the time of the submission of 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 joint venture jointly and severally, and this shall be duly evidenced by a duly notarized Agreement among the legal entities, which shall be submitted along 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 entities that comprise the joint venture.

After the bid has been submitted to UNDP, the lead entity identified to represent the joint venture shall not be altered without the prior written consent of UNDP. Furthermore, neither the lead entity nor the member entities of the joint venture can:

- a) Submit another Bid, either in its own capacity; nor
- b) As a lead entity or a member entity for another joint venture submitting another Bid.

The description of the organization of the joint venture/consortium/association must clearly define the expected role of each of the entity in the joint venture in delivering the requirements of the ITB, both in the bid and in the Joint Venture Agreement. All entities that comprise the joint venture shall be subject to the eligibility and qualification assessment by UNDP.

Where a joint venture is presenting its track record and experience in a similar undertaking as those required in the ITB, it should present such information in the following manner:

- a) Those that were undertaken together by the joint venture; and
- b) Those that were undertaken by the individual entities of the joint venture expected to be involved in the performance of the services defined in the ITB.

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 joint venture or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials.

If the Bid of a joint venture is determined by UNDP as the most responsive Bid that offers the best value for money, UNDP shall award the contract to the joint venture, in the name of its designated lead entity, who shall sign the contract for and on behalf of all the member entities.

20. Alternative Bid

Unless otherwise specified in the **Data Sheet** (DS nos. 5 and 6), alternative bid shall not be considered. 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.

21. Validity Period

- 21.1 Bid shall remain valid for the period specified in the **Data Sheet** (DS no. 8), commencing on the submission deadline date also indicated in the **Data Sheet** (DS no. 21). A Bid valid for a shorter period shall be immediately rejected by UNDP and rendered non-responsive.
- 21.2 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bid. The request and the responses shall be made in writing, and shall be considered integral to the Bid.

22. Bidder's Conference

When appropriate, a Bidder's conference will be conducted at the date, time and location specified in the **Data Sheet** (DS no. 7). All Bidders are encouraged to attend. Non-attendance, however, shall <u>not</u> result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be either posted on the UNDP website, or disseminated to the individual firms who have registered or expressed interest with the contract, whether or not they attended the conference. No verbal statement made during the conference shall modify the terms and conditions of the ITB unless such statement is specifically written in the Minutes of the ITB.

D. SUBMISSION AND OPENING OF BID

23. Submission

- 23.1 The Technical Bid and the Price Schedule <u>must be submitted together and sealed together</u> in one and the same envelope, delivered either personally, by courier, or by electronic method of transmission. If submission will not be done by electronic means, the Technical Bid and Price Schedule must be sealed together in an envelope whose external side must :
 - a) Bear the name of the Bidder;
 - b) Be addressed to UNDP as specified in the Data Sheet (DS no.20); and
 - c) Bear a warning not to open before the time and date for Bid opening as specified in the **Data Sheet** (DS no. 24).

If the envelope is not sealed nor labeled as required, the Bidder shall assume the responsibility for the misplacement or premature opening of Bid due to improper sealing and labeling by the Bidder.

- 23.2 Bidders must submit their Bid in the manner specified in the **Data Sheet** (DS nos. 22 and 23). When the Bid is expected to be in transit for more than 24 hours, the Bidder must ensure that sufficient lead time has been provided in order to comply with UNDP's deadline for submission. UNDP shall indicate for its record that the official date and time of receiving the Bid is the <u>actual</u> date and time when the said Bid has physically arrived at the UNDP premises indicated in the **Data Sheet** (DS no. 20).
- 23.3 Bidders submitting Bid by mail or by hand shall enclose the original and each copy of the Bid, in separate sealed envelopes, duly marking each of the envelopes as "Original Bid" and the others as "Copy of Bid". The two envelopes, consisting of original and copies, shall then be sealed in an outer envelope. The number of copies required shall be as specified in the **Data Sheet** (DS no. 19). In the event of any discrepancy between the contents of the "Original Bid" and the "Copy of Bid", the contents of the original shall govern. The original version of the Bid shall be signed or initialed by the Bidder or person(s) duly authorized to commit the Bidder on every page. The authorization shall be communicated through a document evidencing such authorization issued by the highest official of the firm, or a

Power of Attorney, accompanying the Bid.

23.4 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder accepts the General Contract Terms and Conditions of UNDP as attached hereto as Section 11.

24. Deadline for Submission of Bid and Late Bids

Bid must be received by UNDP at the address and no later than the date and time specified in the **Data Sheet** (DS no. 20 and 21).

UNDP shall not consider any Bid that arrives after the deadline for submission of Bid. Any Bid received by UNDP after the deadline for submission of Bid shall be declared late, rejected, and returned unopened to the Bidder.

25. Withdrawal, Substitution, and Modification of Bid

- 25.1 Bidders are expected to have sole responsibility for taking steps to carefully examine in detail the full consistency of its Bid to the requirements of the ITB, keeping in mind that material deficiencies in providing information requested by UNDP, or lack clarity in the description of goods and related services to be provided, may result in the rejection of the Bid. The Bidder shall assume any responsibility regarding erroneous interpretations or conclusions made by the Bidder in the course of understanding the ITB out of the set of information furnished by UNDP.
- 25.2 A Bidder may withdraw, substitute or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 23, 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 must accompany the respective written notice. All notices must be received by UNDP prior to the deadline for submission and submitted in accordance with ITB Clause 23 (except that withdrawal notices do not require copies). The respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," or MODIFICATION".
- 25.3 Bid requested to be withdrawn shall be returned unopened to the Bidders.
- 25.4 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bid and the expiration of the period of Bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.

26. Bid Opening

UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members. If electronic submission is permitted, any specific electronic Bid opening procedures shall be as specified in the **Data Sheet** (DS no. 23).

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 submission, for which the Bid shall be returned unopened to the Bidder.

27. Confidentiality

Information relating to the examination, evaluation, and comparison of Bid, 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.

Any effort by a Bidder to influence UNDP in the examination, evaluation and comparison of the Bid or contract award decisions may, at UNDP's decision, result in the rejection of its Bid.

In the event that a Bidder is unsuccessful, the Bidder may seek a meeting with UNDP for a debriefing. The purpose of the debriefing is discussing the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving the bid presented to UNDP. The content of other bid and how they compare to the Bidder's submission shall not be discussed.

E. EVALUATION OF BID

28. Preliminary Examination of Bid

UNDP shall examine the Bid to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, whether or not the Bidder is in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's list of suspended and removed vendors, and whether the Bid are generally in order, among other indicators that may be used at this stage. UNDP may reject any Bid at this stage.

29. Evaluation of Bid

- 29.1 UNDP shall examine the Bid to confirm that all terms and conditions under the UNDP General Terms and Conditions and Special Conditions have been accepted by the Bidder without any deviation or reservation.
- 29.2 The evaluation team shall review and evaluate the 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 **Data Sheet** (DS No. 25). Absolutely no changes may be made by UNDP in the criteria after all Bids have been received.
- 29.1 UNDP reserves the right to undertake a post-qualification exercise, aimed at determining, to its satisfaction the validity of the information provided by the Bidder. Such post-qualification shall be fully documented and, among those that may be listed in the **Data Sheet** (DS No.33), may include, but need not be limited to, all or any combination of the following :
 - a) Verification of accuracy, correctness and authenticity of the information provided by the

bidder on the legal, technical and financial documents submitted;

- 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 any other entity that may have done business with the bidder;
- d) Inquiry and reference checking with other previous clients on the quality of performance on on-going or previous contracts completed;
- e) Physical inspection of the bidder's plant, factory, branches or other places where business transpires, with or without notice to the bidder;
- f) Testing and sampling of completed goods similar to the requirements of UNDP, where available; and
- g) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.

30. Clarification of Bid

To assist in the examination, evaluation and comparison of bids, UNDP may, at its discretion, ask any Bidder to clarify its Bid.

UNDP's request for clarification and the Bidder's response shall be in writing. Notwithstanding the written communication, 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 Bid, in accordance with ITB Clause 35.

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 Bid.

31. Responsiveness of Bid

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, and specifications of the ITB without material deviation, reservation, or omission.

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.

32. Nonconformities, Reparable Errors and Omissions

- 32.3 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.
- 32.4 Provided that a Bid is substantially responsive, UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, 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.

- 32.5 Provided that the Bid is substantially responsive, UNDP shall correct arithmetical errors as follows:
 - a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
 - b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to the above.

32.6 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.

F. AWARD OF CONTRACT

33. Right to Accept, Reject, or Render Non-Responsive Any or All Bid

- 33.1 UNDP reserves the right to accept or reject any Bid, to render any or all of the Bids as nonresponsive, 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. Furthermore, UNDP is not obligated to award the contract to the lowest price offer.
- 33.2 UNDP shall also verify, and immediately reject their respective Bid, if the Bidders are found to appear in the UN's Consolidated List of Individuals and Entities with Association to Terrorist Organizations, in the List of Vendors Suspended or Removed from the UN Secretariat Procurement Division Vendor Roster, the UN Ineligibility List, and other such lists that as may be established or recognized by UNDP policy on Vendor Sanctions. (See http://www.undp.org/content/undp/en/home/operations/procurement/procurement_protest/

34. Award Criteria

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 (See DS No. 32).

35. Right to Vary Requirements at the Time of Award

At the time of award of Contract, UNDP reserves the right to vary the quantity of the goods and/or related 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.

36. Contract Signature

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 of the successful Bidder to comply with the requirement of ITB Section F.3 and this provision shall 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 Bidder with the second highest rated Bid, or call for new Bid.

37. Performance Security

A performance security, if required, shall be provided in the amount and form provided in Section 9 and by the deadline indicated in the **Data Sheet** (DS no. 14), as applicable. Where a Performance Security will be required, the submission of the said document, and the confirmation of its acceptance by UNDP, shall be a condition for the effectivity of the Contract that will be signed by and between the successful Bidder and UNDP.

38. Bank Guarantee for Advanced Payment

Except when the interests of UNDP so require, it is the UNDP's preference to make no advanced payment(s) on contracts (i.e., payments without having received any outputs). In the event that the Bidder requires an advanced payment upon contract signature, and if such request is duly accepted by UNDP, and the said advanced payment exceeds 20% of the total Bid price, or exceed the amount of USD 30,000, UNDP shall require the Bidder to submit a Bank Guarantee in the same amount as the advanced payment. A bank guarantee for advanced payment shall be furnished in the form provided in Section 10.

39. Vendor Protest

UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a purchase order or contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures:

http://www.undp.org/procurement/protest.shtml

Instructions to Bidders

DATA SHEET²

The following data for the supply of goods and related services shall complement / supplement the provisions in the Instruction to Bidders. In the case of a conflict between the Instruction to Bidders and the Data Sheet, the provisions in the Data Sheet shall prevail.

DS No.	Cross Ref. to Instructions	Data	Specific Instructions / Requirements
1		Project Title:	Community Based Flood and Glacial Lake Outburst Risk Reduction Project (CFGORRP)
2		Title of Goods/Services/Work Required:	UNDP/ITB/06/2015, Supply, Delivery and Installation of Early Warning System at Imja Lake: a) Automatic Weather Station and GLOF sensors at Lake area b) Audio GLOF Sirens (Emergency Notification) System. c) Slave and siren nodes d) Services.
3		Country:	Nepal
4	C.13	Language of the Bid:	English Image: French Image: Spanish Image: Others (pls. specify)
5	C.20	Conditions for Submitting Bid for Parts or sub-parts of the Total Requirements	 Allowed [Partial Bids allowed on Lot basis] Not allowed
6	C.20	Conditions for Submitting Alternative Bid	 Shall not be considered Shall be considered. A Bidder may submit an alternative Bid, <u>but only if it</u> also submits a Bid that meets the base case (i.e., what is originally required by UNDP in this ITB). UNDP shall only consider the alternative bid offered by the Bidder whose Bid for the base case was

 $^{^2}$ All DS number entries in the Data Sheet are cited as references in the Instructions to Bidders. All DS Nos. corresponding to a Data must not be modified. Only information on the 3rd column may be modified by the user. If the information does not apply, the 3rd column must state "n/a" but must not be deleted.

			determined to be a responsive Bid that offers the lowest price.
7	C.22	A pre-Bid conference will be held on:	Not Applicable Time: Click here to enter text. Date: Click here to enter a date. Venue: The UNDP focal point for the arrangement is: Click here to enter text. Address: Telephone: Facsimile:
8	C.21.1	Period of Bid Validity commencing on the submission date	□ 60 days □ 90 days ⊠ 120 days
9	B.9.5 C.15.4 b)	Bid Security	 Required Amount: Click here to enter text. Form: Click here to enter text. Not Required
10	B.9.5	Acceptable forms of Bid Security	 Bank Guarantee (See Section 8 for template) Any Bank-issued Check / Cashier's Check / Certified Check Other negotiable instrument Cash (exceptionally, if none of the other forms are feasible) Others [pls. specify]
11	B.9.5 C.15.4 a)	Validity of Bid Security	<i>[indicate no. of days, but minimum of 90]</i> days from the last day of Bid submission. Bid Security of unsuccessful Bidders shall be returned.
12		Advanced Payment upon signing	\Box Allowed up to a maximum of% of contract ⁴

³ Surety bonds or other instruments issued by non-bank Financial Institutions are least preferred by UNDP. Unless stated otherwise, they shall be considered unacceptable to UNDP.

⁴ If the advanced payment that the Bidder will submit will exceed 20% of the Price Offer, or will exceed the amount of USD 30,000, the Bidder must submit an Advanced Payment Security in the same amount as the advanced payment, using the form

		of contract	⊠ Not allowed
13		Liquidated Damages	 Will not be imposed Will be imposed under the following conditions: Percentage of contract price per week of delay:0.5% Max. no. of days of delay : 1 calendar month Next course of action: Contract may be terminated. Will be imposed also in any delay in Operation and Maintenance during the contract period Percentage of contract price per day of delay:0.5% Max. no. of days of delay : 15 days Next course of action: Contract may be terminated.
14	F.37	Performance Security	 Required Amount : 10% of the contract amount Form: Bank Guarantee Not Required
15	C.17 C.17.2	Preferred Currency of Bid and Method for Currency conversion	 United States Dollars (US\$) Euro Local Currency Reference date for determining UN Operational Exchange Rate : 101.96
16	B.10.1	Deadline for submitting requests for clarifications/ questions	08 August 2015
17	B.10.1	Contact Details for submitting clarifications/questions ⁵	Focal Person in UNDP: -Procurement Unit- Address: UNDP, UN House, Pulchowk Facsimile: Fax No. : 00 977 1 5223991 E-mail address dedicated for this purpose: registry.np@undp.org Subject line of email: UNDP/ITB/06/2015 – EWS for Imja Lake

and contents of the document in Section 10

⁵ This contact person and address is officially designated by UNDP. If inquiries are sent to other person/s or address/es, even if they are UNDP staff, UNDP shall have no obligation to respond nor can UNDP confirm that the query was officially received.

			 Note: This email address is officially designated by UNDP. The subject line of the email for query should be same as mentioned above. UNDP shall have no obligation to respond nor can UNDP confirm that the query was officially received; When inquiries are sent with the different subject line even to the designated email address. When inquiries are sent to other person/s or address/es, even if they are UNDP staff. For queries for information already available in the bidding document.
18	B.11.1	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	 Direct communication to prospective Bidders by email or fax Direct communication to prospective Bidders by email or fax, and Posting on the website⁶ http://www.np.undp.org/content/nepal/en/ho me/operations/procurement.html
19	D.23.3	No. of copies of Bid that must be submitted	Original : 1 Copies : Not required
20	D.23.1 b) D.23.2 D.24	Bid submission address	The Deputy Country Director (Operations) United Nations Development Programme UN House, Pulchowk, Lalitpur, Nepal
21	C.21.1 D.24	Deadline of Bid Submission	Date and Time : August 24, 2015 12:00 PM
22	D.23.2	Manner of Submitting Bid	Courier/Hand Delivery Electronic submission of Bid ⁷

⁶ Posting on the website shall be supplemented by directly transmitting the communication to the prospective offerors.

⁷ If this will be allowed, security features (e.g., encryption, authentication, digital signatures, etc.) are strictly required and must be enforced to ensure confidentiality and integrity of contents.

23	D.23.2 D.26	Conditions and Procedures for electronic submission and opening, if allowed	 Official Address for e-submission: [Not Applicable] Format : PDF files only, password protected Password must not be provided to UNDP until the date and time of Bid Opening as indicated in No. 24 Max. File Size per transmission: [N/A] Max. No. of transmission : [N/A] Ma. No. of transmission : [N/A] No. of copies to be transmitted : [N/A] Mandatory subject of email : Virus Scanning Software to be Used prior to transmission: [N/A] Digital Certification/Signature: [N/A] Time Zone to be Recognized: [N/A] Other conditions: [N/A]
24	D.23.1 c)	Date, time and venue for opening of Bid	Date and Time: <mark>August 24, 2015 3:00 PM</mark> Venue : UN House, Pulchowk
25		Evaluation method to be used in selecting the most responsive Bid	 Non-Discretionary "Pass/Fail" Criteria on the Technical Requirements; and Lowest price offer of technically qualified/responsive Bid
26	C.15.1	Required Documents that must be Submitted to Establish Qualification of Bidders (In "Certified True Copy" form only) [check all that apply, delete those that will not be required.]	 ☑ Company Profile, which should <u>not</u> exceed fifteen (15) pages, <u>including printed brochures and product catalogues relevant to the goods/services being procured</u> ☑ 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 ☑ Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation □ Trade name registration papers, if applicable □ Local Government permit to locate and operate in the current location of office or factory ☑ Official Letter of Appointment as local representative, if Bidder is submitting a Bid in behalf of an entity located outside the country ☑ Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any

			 □Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures □ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder □ Plan and details of manufacturing capacity, if Bidder is a manufacturer of the goods to be supplied ⊠ Certification or authorization to act as Agent in behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer ⊠ Latest Audited Financial Statement (Income Statement and Balance Sheet) including Auditor's Report for the past [2 years] ⊠ Statement of Satisfactory Performance from the Top [3] Clients in terms of Contract Value the past [3 years] □ List of Bank References (Name of Bank, Location, Contact Person and Contact Details) ⊠ All information regarding any past and current litigation during the last five (3) years, in which the bidder is involved, and the final resolution if already concluded.
27		Other documents that may be Submitted to Establish Eligibility	
28	C.15	Structure of the Technical Bid and List of Documents to be Submitted	Refer to Section 6, Technical Bid Form
29	C.15.2	Latest Expected date for commencement of Contract	September 10, 2015
30	C.15.2	Maximum Expected duration of contract	3 months
31		UNDP will award the contract to:	⊠ One Bidder only

		□ One or more Bidders, depending on the following factors: [One bidder for each Lot]
F.34	Criteria for the Award and Evaluation of Bid	Award Criteria ☑ Non-discretionary "Pass" or "Fail" rating on the detailed contents of the Schedule of Requirements and Technical Specifications ☑ Compliance on the following qualification requirements : Bid Evaluation Criteria ⁸ ☑ Minimum no. of years of experience in similar contracts: [3 years]; ☑ Minimum annual turnover of USD 100,000 for the past three years. ☑ Current ratio of not less than 1.0; ☑ Minimum no. of similar projects undertaken over the past 3 years [at least 1 project]; ☑ Highest value of a single contract over the past 3 years [USD 50,000.00]; ☑ Full compliance of Bid to the Technical Requirements; ☑ Quality Inspection and Testing Certificates for the goods to be supplied; ☑ After-sales service of at least one year. □ Lowest Operating Costs Evidenced by a Table of Consumables, Rate of Consumption, and Unit Price; ☑ Warranty on parts and services for a minimum period of [3 years]; ☑ Acceptability of the Transportation/Delivery Schedule; □ Qualification of the Team Leader to directly coordinate with UNDP [N/A]; □ Qualification of all other personnel to be assigned to the contract [N/A] □ Others [pls. specify and list further]
E.29	Post qualification Actions	 Verification of accuracy, correctness and authenticity of the information provided by the bidder on the legal, technical and financial documents submitted; Validation of extent of compliance to the
		Evaluation of Bid

⁸ Pls. reconcile and ensure consistency with the contents of the Technical Specifications

		ITB requirements and evaluation criteria based on what has so far been found by the evaluation team; □ Inquiry and reference checking with Government entities with jurisdiction on the bidder, or any other entity that may have done business with the bidder; ⊠ Inquiry and reference checking with other previous clients on the quality of performance on ongoing or previous contracts completed; □ Physical inspection of the bidder's plant, factory, branches or other places where business transpires, with or without notice to the bidder; □ Testing and sampling of completed goods similar to the requirements of UNDP, where available; and □ Others [click here to specify]
34	Conditions for Determining Contract Effectivity	 ☑ UNDP's receipt of Performance Bond of 10% of the total contract amount ☑ After the issuance of the Purchase Order and signing of the contract □ Others [click here to specify].
35	Other Information Related to the ITB ⁹	
36	Brief Background on the requested services	Community Based Flood and Glacial Lake Outburst Risk Reduction Project (CFGORRP) is a joint undertaking of the Government of Nepal (GON), Global Environment Facility (GEF) and the United Nations Development Programme (UNDP). The project is being implemented by Department of Hydrology and Meteorology (DHM) under the Ministry of Science, Technology and Environment (MoSTE) as the lead Implementing Agency. The project working areas include Solukhumbu in the hill and Mahottari, Siraha, Saptari and Udaypur districts in the Terai.

⁹ Where the information is available in the web, a URL for the information may simply be provided.

		The project under the first component aims to install and implement Imja GLOF Warning Systems in order to reduce the loss of lives and properties of the downstream communities. The systems include both Automatic and Community Based Early Warning Systems. The entire early warning systems include: a). Automatic Weather Station and GLOF sensors at Lake area b). Audio GLOF Sirens (Emergency Notification)
		System. c). Slave and siren nodes d). Services. and The Community based early warning system (<u>already procured and installed at site)</u> .
		The CFGORRP therefore intends to procure and install the GLOF warning system for Imja Lake. Imja Lake and its associated glaciers and the moraine dam at 5010 m in Solukhumbu District. The site is remote and inaccessible by road and the nearest airport is at Lukla. The trekking routes are through Namche, Tengboche, Pangboche, Dingboche, Chhukung and finally to Imja Lake. The hotel facilities are available from Lukla to Chhukung. The Service Provider needs to arrange camping and foods for entire period during supply, delivery and installation of equipment, and during operations and maintenance period.
37	Brief scope of works	The scope of work includes but not limited to: Supply, and delivery of various equipment related to GLOF Warning System as per specification Ground preparation and development of individual equipment's platform for the proper installation Installation of a). Automatic Weather Station and GLOF sensors at Lake area b). Audio GLOF Sirens (Emergency Notification) System. c). Slave and siren nodes d). Services. ensuring warranty and quality as per specification

	Conduct training to DHM officials on installation of stations, operation and maintenance of sensor, data logger configuration, remote monitoring and troubleshooting and site maintenances.
	5

Section 3a: Schedule of Requirements and Technical Specifications

Item A: Automatic Weather Station and GLOF sensors at Lake area.

The water level at lake shall primarily detect abnormal flow as well as keep record of flow from Imja Lake. In case of abnormal flow, water level sensors and others sensors data shall be verified for generating GLOF warnings after conformation other multiple sensors. During the Glacier Lake Outburst all equipment in the vicinity of the lake might be washed away. Hence the data collection platform for GLOF sensing must be placed at a higher altitude than the maximum flood level of the Imja Lake whereas the sensors need to be at a lower altitude to sense flood. The sensors used to detect the GLOF will communicate with the DCP using low power wireless communication built into

Components of : Automatic Weather Station and GLOF sensors at Lake area

1.0 Water level Sensor and Automatic Weather Station :

- a. Water level sensor Radar type (RLS) (1 Nos.)
- b. Wind Speed and Direction Sensor (1 Nos.)
- c. Temperature and RH Sensor (1 Nos.)
- d. Weighing Type Precipitation Gauge with Wind Shield (1 Nos.)
- e. Pyranometer Sensor (1 Nos.)
- f. Barometric Pressure Sensor (1 Nos.)
- g. Laser Snow Depth Sensor (1 Nos.)
- h. Wireless remote terminal unit (2 Nos.)
- i. Sensor for theft and vandalism (2 Nos.)
- j. Hanging mast to hang RLS at the outlet (1 Nos.)
- k. Data logger (1 Nos.)
- I. Communication module with cpe wifi gateway (1 Nos.)
- m. Power supply system 24 V 100 watt (1 Nos.)
- n. Meteorological Tower (1 Nos.)
- o. Weather proof housing (1 Nos.)

2.0 Upstream GLOF detection system:

- a. Volumetric Water Content Sensor (3 Nos.)
- b. Moraine Dam Movement Sensor (2 Nos.)
- c. Wireless remote terminal unit (5 Nos.)
- d. Sensor for theft and vandalism (2 Nos.)
- e. Radio Modem (1 Nos)
- f. Data logger (1 Nos.)
- g. Communication module with cpe wifi gateway (1 Nos.)
- h. Power supply system 24 V 100 watt (1 Nos.)
- i. Mast (1 Nos.)
- j. Weather proofing housing (1 Nos.)

3.0 Downstream GLOF detection system:

- a. Water level Sensor (Radar Type) (1 Nos.):
- b. Volumetric Water Content Sensor (3 nos.)

- c. Digital Sound Metering Sensor (1 Nos.)
- d. Camera for Harsh Environment (1 Nos.)
- e. Sensor for theft and vandalism (2 Nos.)
- f. Radio Modem (1 unit)
- g. Wireless remote terminal unit (5 Nos.)
- h. Data logger (1 Nos.)
- i. Communication module with cpe wifi gateway (1 Nos.)
- j. Power supply system 24 V 100 watt (1 Nos.)
- k. Mast (1 Nos.)
- I. Weather proofing housing (1 Nos.)

Item B: Audio GLOF Sirens (Emergency Notification) System.

The Audio GLOF Sirens (Emergency Notification) System will comprise of:

- a. Remote terminal unit with audio codec (6 Nos.).
- b. Horn Speakers Array (6 Nos.).
- c. Audio Amplifier (6 Nos.).
- d. Radio modem (6 Nos.).
- e. Sensor for theft and vandalism (12 Nos.)
- f. Communication module without cpe wifi gateway (6 Nos.)
- g. Power supply system 24 V 100 watt (6 Nos.)
- h. Mast (6 Nos.).
- i. Weather proofing housing (6 Nos.).

Item C: Slave and siren nodes

- a. Slave Siren Nodes (6 Nos.)
- b. Radio modem (6 Nos.).
- C. Power supply system 12 V 50 watt (6 Nos.)

Item D: Services:

1. The Trainings will comprise of but not limited to:

- a. The complete documentation should be provided.
- b. Provide information and knowledge on equipment and sensors for early warning detection, warning sirens and DHM web portal for information dissemination, mobile apps etc. used for Imja GLOF risk reduction.
- c. Operation and maintenance of equipment and sensors and monitoring of performance.
- d. Types of data management and dissemination to public (uploading to websites, mobile apps etc.).
- e. General architecture of automatic Imja GLOF warning system and

communication to community based early warning system (CBEWS). How CBEWS should respond to automatic warnings and harmonize information to local community in a effective way.

- f. Training of PMU /DHM staff for data acquisition and uploading to DHM website: www.hydrology.gov.np
- g. Operation and maintenance course should include:
 - a. Operation and Maintenance of Sensor
 - b. Data logger configuration
 - c. Remote Monitoring and troubleshooting
 - d. Site maintenance
- h. Any other as appropriate.
- 2. Development of customized software for data acquisition and dissemination of

information should include but not limited to:

- a. For data acquisition, decision support system, alert dissemination and system configuration.
- b. Web based software for programming, multi-tasking, and configuring remotely and sending SMS and alerts during emergencies.
- c. Any other as appropriate.

3. Operation / maintenances

The Operation and maintenances, data acquisition and communication will

comprise of but not limited to:

- 1. Operation and maintenances and data acquisition for one year that can be extended for defect liability period of 3 years for equipment and sensors. The Service Provider has to mobilize its staff for periodic maintenance of the system.
- 2. Regular site visits for regular operation and maintenance, data acquisitions or data management should be done.
- 3. Prior site visits for identification suitable location for installation of equipment if required should be undertaken.
- 4. Data acquisition and uploading to DHM website: www.hydrology.gov.np for one year that can be extended for defect liability period of 3 years.
- 5. Communication Charges should include:
 - a. Data charges for CDMA and GSM for 1 year
 - b. Iridium SBD charges for 1 year
 - c. 500kbps or other appropriate bandwidth from a local ISP
- 6. Others as appropriate.

4. Warranty, testing, transportation and installations:

This will comprise of but not limited to:

- a. Fabrication, installation and testing of equipment and system is a must.
- b. Warranty of supplied equipment should be for at least 3 years and

service period should be for **one year** that can be extended to warranty period on satisfactory performance.

c. Transportation and Installation at Imja Lake with minimum of one year data collection and uploading in web portal of DHM (www.hydrology.gov.np) is a must.

Specifications of sensors and equipment:

Item		Description / Specifications of Goods			
1	Water level	Sensor (Radar Type):			
	Should have:				
	• Stan	Standard Range: Up To 30 meters.			
	 Accu 	Accuracy (depth<10m): ±5 mm			
	 Frec 	uency: 24~26 GHz			
	 Ante 	enna: Flat type			
	 Bear 	m angle: 6° to 12°			
	 Inte 	rface: Digital			
	 SDI- 	12 measurement sequence:≤20 seconds			
	 Volt 	age Input: 12V ±2V DC			
	 Surg 	e Protection: Built in, 1.5 KVA			
	 Ope 	rating Temperature: -40° C to +60° C			
	 Stor 	age Temperature:-40° C to +80° C			
	• Tem	perature Sensitivity: average TK:< 3 mm/10 K, max 5 mm over the			
	enti	re temperature range -40° C to +80° C			
2	-	and Direction Sensor:			
	Should have:				
		Sensor Type: Four blade propeller type			
	 Wind 	Wind Speed:			
	(D Measuring range: 0 to 70 m/s			
	(O Coating: Ice resistant			
	C	O Threshold Sensitivity: 1 m/s			
	C	O Accuracy: better than ±0.3m/s or 1% of reading			
	C	O Operating Temperature: -40° C to +50°			
	(Operating Relative humidity: 10-100%.			
	C	O Output signal: RS 485 / SDI 12 / Analog			
	 Wine 	Direction:			
	C	D Sensor type: Vane			
	C	D Measuring range: 0 to 359 Deg			
	(O Accuracy: better than ± 3 %.			
	C	000			
		ice formation on its body.			
3	-	and RH Sensor:			
		e sensor Should have:			
		or type: Platinum resistance Thermometer (Pt100) Class B			
		suring range: -40 to +60 °C			
	 Outp 	ut: RS485 or RS232 or TTL			

	• Accuracy:±0.1K°			
	Resolution: 0.01 K			
	 Long-term stability:<0.2 °C / year 			
	Relative Humidity Sensor should have:			
	Probe type: Standard probe			
	• Measuring range: 0 – 100%			
	Accuracy:± 0.8 % Rh			
	 Operating temperature range: -40 to +60 °C 			
	Output: Digital			
	 Humidity response time: 3 to 15 seconds 			
	 Long-term stability:< 1 % rh/year 			
	Calculation: Dew point			
	Should include a radiation shield.			
4	Weighing Type Precipitation Gauge with Wind Shield			
	Should have:			
	• Type of measurement: liquid and solid			
	 Measuring Capacity: ≥750mm 			
	 Collecting Area: ≥400 cm² 			
	 Measuring Range: 0 - 50 mm/min 			
	 Accuracy at -25 to 45°C: ±1% of measured value 			
	Resolution: 0.01mm			
	 Protocol: SDI-12, RS-485 			
	 Sensor Technology: Weighing principle (sealed load cell) 			
	 O/p Interval: 1 minute 			
	 Operating Temperature: -40° C to +60° C 			
	With Wind Shield Alter type			
5	Pyranometer:			
	 Spectral range: 285 to 2800 nm 			
	 Sensitivity: 5 to 20 μV/W/m² 			
	Response time: 18 s			
	• Zero offset A: < 12 W/m ²			
	 Zero offset B: < 4 W/m² 			
	 Directional error (up to 80° with 1000 W/m² beam): < 20 W/m² 			
	 Temperature dependence of sensitivity (-10° C to +40° C): < 4 % 			
	 Operational temperature range: -40 °C to +80 °C 			
	 Maximum solar irradiance: 2000 W/m² 			
	• Field of view: 180 °			
6	Barometric Pressure Sensor			
	 Sensor type: Silicon capacitive, absolute pressure sensor with Class B 			
	accuracy			
	 Pressure Range: 50- 1100 hPa 			
	 Operating Temperature range: -40° C to +60° C 			
	• Linearity: ±0.2 hPa			
	 Accuracy at +20 °C: ±0.35 hPa 			

	• Temperature dependence: ±0.4 hPa
	 Total accuracy at -40° C to +60° C: ±0.5 hPa
	 Long-term stability: ±0.2 hPa/year
	 Inputs and outputs: RS 232/ RS485
	 Resolution: 0.01 hPa
	Response time (one sensor): 2 s
7	Snow Depth Sensor
	Sensor type: Laser
	 Temperature range: -40° C to +50° C
	Relative humidity: 0 to 100%
	Data interfaces: Digital
	• Power consumption:
	(without heating) <12W [with heating (heating cycle 0 to -30°C, at 24 VDC)] 24W
	 Operating voltage: 10 to 30VDC (without heating), 15 to 24VDC (with heating)
	 Laser classification: Laser Class 2 (IEC825-1/EN 60825)
	Protection type: IP65
8	Volumetric Water Content Sensor
	The volumetric water content sensor should measure water content using dielectric
	constant of the media using capacitance / frequency domain technology. The
	sensor should also be able to measure temperature to detect ice formation Should have:
	 Measurement range: 0 to 100% VWC
	-
	Measurement accuracy: ∓3% VWC
	• Supply voltage: 12V
	 Digital Interface: SDI- 12
	 Measurement duration: 150ms
	 Operating temperature range: -40 to 50°C
	 Current consumption (during measurement): <20ma
	 Current consumption (during asleep): 0.03ma
9	Moraine Dam Movement Sensor
	 The sensor should use a MEMS accelerometer
	 Accelerometer range: ∓2g
	Resolution: 16 bit ADC
10	Digital Sound Metering Sensor
	Specification:
	 Sound metering: 0 to 120 dB
	 Acoustic overload point: 120 dBSPL
	• Signal to noise ratio: 60 dB
	• Sensitivity: -26 dBFS
	• When the sound decibel exceeds certain threshold, sensor should also be
	capable of logging and transmitting sound clips to the server for analysis.
11	Camera for Harsh Environment
	The camera should be designed to work for very harsh environment.
L	G -----------

	Specification:
	 Image standard: Compressed JPG images
	• Video resolution: 720P
	 Image resolution: 5 megapixels
	• Window defroster to prevent and remove light frost and icing from the
	cameras window
	• Communication interface: RS-232, RS-485 and ethernet 10/100 interface
	 Communication protocols: FTP, email and web page interface
	• Operating power: 12 to 16 V dc
	 Operating current drain: 250ma
	 Quiescent current: ≤1 ma (off power mode)
	 Memory Card Interface: SD card, FAT32, JPEG (image)
	Weatherproof enclosure for harsh environments
	 Operating temperature: -30 °C to + 50°C
12	Horn Speakers Array
	• 40W RMS / 60W max
	• SPL > 125dB/40W/1m
	Material ABS or Stainless steel
	Weatherproof Siren Horns
	 360 Omni directional Sound Propagation
	• Sound should be audible from at least 700 meters both directions at 50 db
13	Audio Amplifier
	Class D Audio Amplifier for power efficiency
	Shutdown control for power efficiency
14	Slave Siren Nodes
	Two sirens per station
	Enclosed in a NEMA enclosure
	Can be triggered by Radio modem
	 Power and status can be posted to the server using radio modem and through the audio emergency patification system
15	through the audio emergency notification system. Radio Modem
	 Frequency band: 350 Mhz to 470 Mhz, selectable according to permission
	from ministry of Information and communication
	Interface: RS232 / RS485
	Range: At least 10Km
	Antenna: According to requirement
16	Sensor for theft and vandalism:
	All the solar panels and cabinets should include a sensor for theft and vandalism.
	 Activated by the detection of motion or by detection of change in orientation.
	 Programmable to avoid triggering by wind.
l	

	Should send out alerts using SMS and emails instantly.
17	Data Logger:
	Data logger should have following features:
	• The data logger should be remotely configurable to change any settings in the system. (Note that mobile communication providers in Nepal do not allow fixed IP address nor public IP address to its nodes).
	 Capable of logging sensor parameters, battery voltage, solar voltage, charging current, and load to monitor health of battery and communication errors remotely.
	 Support micro SD card as secondary backup and retrieved data through a flash drive.
	 Should have internal battery-backed real time clock to automatically synchronize with global time server.
	 Has digital interfaces - SDI12, RS485, RS232 and analog interfaces.
	 PC and web based software for programming, multi-tasking, and configuring remotely.
	 Data transmission through CDMA / GSM/ IRIDIUM/ WIFI networks simultaneously.
	Capability to send SMS and email alerts during emergencies.
	Should withstand harsh environmental condition.
	Interfaces / Ports:
	• No. of Channels: 4 Differential or 8 single ended (SE) individually configured channel with 24 bit resolution.
	 Input range: (0-20ma, 4-20ma, 0-1v, 0-5v, 0-10v, etc.)
	Pulse counters: 2 Counter/frequency inputs
	 Switch closure (minimum switch closer time 5ms)
	 Digital Ports: 4 Input Output ports (RS–485, RS-232 & SDI 12etc.)v Up to 10 SDI 12 ports should be supported
	Specifications:
	Device: SRAM/ Flash
	 Flash Program Memory for data storage: 256MB or more
	 External Flash memory: > 16 GB flash storage
	Operating Voltage: 12Volt
	Communication Ports: Simultaneous communication on all ports
	 Should have wireless sensor interface features. On another Terms and the Control of Control of
	 Operating Temperature: - 40 ° C + 60° C Dresser: 22bit
	Processor: 32bit
	 LCD Display: Alphanumeric Display Internal clock: Real time synchronization with international time convers
18	 Internal clock: Real time synchronization with international time servers. Hanging Mast to hang the RLS sensor above the lake at the outlet.
19	Wireless Remote Terminal Unit for GLOF sensing
	The wireless RTU is required to transmit data from the water level sensor to Data

	Collection Platform.
	Should have:
	 Digital Interface: SDI-12, RS485
	Built in rechargeable battery for power source
	Built in charge controller to charge the battery
	 Should use solar panels to charge the internal battery
	 Should 350 Mhz to 470 Mhz, selectable according to permission from ministry of information and communication
	ministry of Information and communication The battery should last at least a month without solar charging
20	Wireless Remote Terminal Unit with Audio Codec
	 Remote triggering by CDMA, GSM, Wifi and Iridium
	 Live Public Address and /or pre-recorded voice messages
	 Integrated Automatic Self-Monitoring with remote monitoring
	 Real Time Operating System
	 SIP compatible for live public address
	 Common Alerting Protocol (CAP) compliant
21	Communication Module:
	Should have:
	Economical service selection
	• Service selection according to signal strength.
	CDMA:
	 access mode: Standard CDMA 2000 1X CDMA
	• CDMA protocols:IS-95 A/B, IS-98A, IS-126,IS-637A, IS-683, IS-707A, IS-2000
	 Frequency: 800 Mhz between Tx and Rx: 45 Mhz for 800M
	 Cellular Rx sensitivity: -104 dBm (FER <=0.5%).
	 Rx signal Transmission range: -25 dBm – 104 dBm (FER<=0.5%)
	 Rx signal Receiving range: -25 dBm – 104 dBm (FER<=0.5%)
	SMS: Supports Text
	Data: Supports internal TCP/ IP stack
	Data Speed: Up/down link data rate 153.6kbps
	UIM Interface: UIM card Interface Antenna interface: CO Obms input impedance
	 Antenna interface: 50 Ohms input impedance GSM/GPRS:
	Rx /Tx frequency interval:
	O 45 Mhz for GSM 850 / 45Mhz for EGSM 900 / 95Mhz for DCS 1800 / 80 Mhz for PCS 1900
	• SMS: Supports Text
	 Data: Supports internal TCP/ IP stack
	• Data Speed: Maximum upload at 85.6Kbps and download at 42.8Kbps
	SIM Interface: SIM card Interface
	Antenna interface: 50 Ohms input impedance
	 Encrypted data transmission through HTTP and FTP

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	Hinge base and bolts: Stainless steel
	Guy wire: 3 sets stainless steel
	Support: Tilt able support.
25	Sensor Hanging mast:
	Material: preferably Aluminum alloy.
	Fabrication as per site condition at Imja Lake and outlet channel for water level
	sensor – Radar type.
26	Weather proof Housing system complete set:
	Should be weather proof metal housing:
	• Dimension 500 x 700 x 250 mm
	Protection category: IP 66
	NEMA 4
	• Lightning and Grounding: Standard Lightning and grounding required. The DCP
	should also be grounded separately. The grounding conductor of the lightning
	arrestor should be separate than the grounding for DCP.
	• Surge Protection: All connections to the Data logger and accessories surge
	protected for 1.5 KVA.
	• Cables and Connectors: All cables and connectors of rugged industrial grade with corrosion and climate/environment proof.

<u>Services</u>

S.No.	Item	Description			
1.	Documentation	Equipment should be supplied with full documentation that should include user's manuals, operating instructions, Standard Operating Procedures, wiring diagrams.			
2.	Communication Charges	 The communication of data for at least one year is a must. It should Include: Data charges for CDMA and GSM for 1 year Iridium SBD charges for 1 year 500kbps bandwidth from a local ISP 			
3.	Training	 Training should include: Installation of stations Operation and maintenance course that should include: Operation and Maintenance of Sensor Data logger configuration Remote Monitoring and troubleshooting Site maintenance One training session at Kathmandu and another session at Namche during installations. 			
4.	Operations and Maintenance	Regular site visits for regular operation and maintenance, data acquisitions or data management should be done.Operation and Maintenance of the system should be provided for 1 year data collection and uploading in web portal of DHM (www.hydrology.gov.np)The operation and maintenance period can be extended up to warranty period of 3 years upon satisfactory performance to ensure proper functioning.The Service Provider has to mobilize its staff for periodic maintenance of the system.			
5	Customized software.	Procurement and installation of a customized software for data acquisition, configuring remotely and sending SMS and alerts during emergencies. The customized software should have the following modules: a. Data Acquisition Module b. Data Processing Module c. Data Presentation Module d. Remote Device Configuration Module e. Automatic and Human Assisted Decision Support System f. Emergency Alert Dissemination Module			

6.	Warranty	Warranty of supplied equipment should be for at least 3 years and service period should be for one year that can be extended to
		warranty period on satisfactory performance.

<u>Note:</u>

Prior site visits for identification suitable location for installation of equipment if required should be undertaken. Transportation and Installation of equipment are the responsibility of the bidder Communication Module is of two different types with cpe wifi gateway and without it. Power supply system is two different type 24 V System and 12V system. Further to the Schedule of Requirements in the preceding Table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements: [check the condition that applies to this ITB, delete the entire row if condition is not applicable to the goods being procured]

Delivery Term				
Delivery Term [INCOTERMS 2010]				
(Pls. link this to price schedule)	🛛 Duty, Delivery Pa			
	□ Other <i>Click here</i>			
Exact Address of	Community Based Fl	ood and Glacial Lake Outburst Risk		
Delivery/Installation Location	Reduction Project (C	FGORRP)		
	Imja Lake, Solukhum	bu		
	Nepal			
Mode of Transport Preferred	🛛 AIR	🖾 LAND		
	🗆 SEA	OTHER [pls. specify]		
UNDP Preferred Freight	N/A			
Forwarder, if any ¹⁰				
Distribution of shipping	N/A			
documents (if using freight				
forwarder)				
Delivery Date	3 months from the is	suance of Purchase Order (PO) and signing		
	of the contract.			
Customs, if needed, clearing	□ UNDP			
shall be done by:	🖾 Supplier			
	🗆 Freight Forwarder			
Ex-factory / Pre-shipment	N/A			
inspection				
Inspection upon delivery	By the Project			
Installation Requirements	By Supplier			
Testing Requirements	By Supplier			
Scope of Training on Operation	N/A			
and Maintenance				
Commissioning	Yes			
Technical Support Requirements	Yes			
	☐ 70% upon delivery of materials at site with verification by			
Payment Terms (max. advanced				
	- ,			

¹⁰A factor of the INCOTerms stipulated in the ITB. The use of a UNDP preferred courier 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.

payment is 20% of total price as	☑ 30% upon completion of installation at site with verification
per UNDP policy)	by Project.
	\Box Max of 20% upon issuance of PO and the rest within 30 days
	from UNDP's acceptance of goods as specified and receipt of
	invoice
	Pre-shipment inspection [pls. provide details]
Conditions for Release of	Inspection at destination [Project to verify invoice]
Payment	Installation [Project to verify]
	Testing [pls. provide details]
	□ Training on Operation and Maintenance [pls. provide details]
	Written Acceptance of Goods based on full compliance with
	ITB requirements
	□ Others [pls. specify]
After-sale services required	Warranty on Parts and Labor for minimum period as
	indicated in Bill of Quantity
	Technical Support
	\Box Provision of Service Unit when pulled out for maintenance/
	repair
	Others [pls. specify]
All documentations, including	🖾 English
catalogs, instructions and	French
operating manuals, shall be in	Spanish
this language	□ Others [pls. specify, including dialects, if needed]

Section 4: Bid Submission Form¹¹

(This should be written in the Letterhead of the Bidder. Except for indicated fields, no changes may be made in this template.)

Kathmandu, Nepal Date: .../.../2014

To:

Dear Sir/Madam:

We hereby declare that:

- a) All the information and statements made in this Bid are true and we accept that any misrepresentation contained in it may lead to our disqualification;
- b) We are currently not on the removed or suspended vendor list of the UN or other such lists of other UN agencies, nor are we associated with, any company or individual appearing on the 1267/1989 list of the UN Security Council;
- c) We have no outstanding bankruptcy or pending litigation or any legal action that could impair our operation as a going concern; and
- d) We do not employ, nor anticipate employing, any person who is or was recently employed by the UN or UNDP.

We confirm that we have read, understood and hereby fully accept the Schedule of Requirements and Technical Specifications describing the duties and responsibilities required of us in this ITB, and the General Terms and Conditions of UNDP's Standard Contract for this ITB.

We agree to abide by this Bid for [insert: period of validity as indicated in Data Sheet].

We undertake, if our Bid is accepted, to initiate the supply of goods and provision of related services not later than the date indicated in the Data Sheet.

We fully understand and recognize that UNDP is not bound to accept this Bid, that we shall bear all costs associated with its preparation and submission, and that UNDP will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the evaluation.

We remain,

Yours sincerely,

¹¹ No deletion or modification may be made in this form. Any such deletion or modification may lead to the rejection of the Bid.

Authorized Signature [In ful	ll and initials]:
Name and Title of Signatory	/:
Name of Firm:	
Contact Details:	

[please mark this letter with your corporate seal, if available]

Section 5: Documents Establishing the Eligibility and Qualifications of the Bidder

Bidder Information Form¹²

Date: [insert date (as day, month and year] of Bid Submission] ITB No.: [insert number of bidding process] Page ______of _____ pages

1. Bidder's Legal Name [insert Bidder's legal name]						
2. In case of Joint Venture (JV), legal name of each party: [insert legal name of each party in JV]						
3. Actual or intended Country/ies of	Registration/Operation: [insert act	tual or intended Country of Registration]				
4. Year of Registration in its Location	n: [insert Bidder's year of registration	n]				
5. Countries of Operation	. Countries of Operation 6. No. of staff in each Country 7.Years of Operation in each Count					
8. Legal Address/es in Country/ies o registration]	f Registration/Operation:[insert Bic	lder's legal address in country of				
9. Value and Description of Top three	e (3) Biggest Contract for the past f	ive (5) years				
10. Latest Credit Rating (Score and S	ource, if any)					
11. Brief description of litigation his outcomes, if already resolved.	story (disputes, arbitration, claims,	etc.), indicating current status and				
12. Bidder's Authorized Representative Information						
Name: [insert Authorized Representative's name]						
Address: [insert Authorized Repres	-	no /fay numbers]				
Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers] Email Address: [insert Authorized Representative's email address]						
13. Are you in the UNPD List 1267.1989 or UN Ineligibility List? \Box YES or \Box NO						
14. Attached are copies of original documents of:						
\square All eligibility document requirements listed in the Data Sheet						
\Box If Joint Venture/Consortium – copy of the Memorandum of Understanding/Agreement or Letter of						
Intent to form a JV/Consortium, or Registration of JV/Consortium, if registered						
If case of Government corporation or Government-owned/controlled entity, documents establishing legal and financial autonomy and compliance with commercial law.						

¹² The Bidder shall fill in this Form in accordance with the instructions. Apart from providing additional information, no alterations to its format shall be permitted and no substitutions shall be accepted.

Joint Venture Partner Information Form (if Registered)¹³

Date: [insert date (as day, month and year) of Bid Submission] ITB No.: [insert number of bidding process]

		Page	of p	pages
1. Bidder's Legal Name: [insert E	Bidder's legal name]			
2. JV's Party legal name: [insert .	IV's Party legal name]			
3. JV's Party Country of Registra	tion: [insert JV's Party country of reg	gistration]		
4. Year of Registration: [insert Part	ty's year of registration]			
5. Countries of Operation	6. No. of staff in each Country	7.Years of Country	Operation in each	
8. Legal Address/es in Country/ies registration]	of Registration/Operation: [insert Po	arty's legal addr	ress in country of	
9. Value and Description of Top the	ree (3) Biggest Contract for the past f	ive (5) years		
10. Latest Credit Rating (if any) :C	lick here to enter text.			
	history (disputes, arbitration, claims, I. Click here to enter text.	. etc.), indicating	g current status and	
13. JV's Party Authorized Represe	entative Information			
		•	resentative]	
14. Attached are copies of original	documents of: [check the box(es) o	f the attached o	original documents]	
 All eligibility document requirer Articles of Incorporation or Reg In case of government owned e with commercial law. 		nd financial aut	conomy and compliance	e

¹³ The Bidder shall fill in this Form in accordance with the instructions. Apart from providing additional information, **N**o alterations to its format shall be permitted and no substitutions shall be accepted.

Section 6: Technical Bid Form¹⁴

INSERT TITLE OF THE ITB

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

SECTION 1: EXPERTISE OF FIRM/ ORGANISATION

This section should fully explain the Bidder's resources in terms of personnel and facilities necessary for the performance of this requirement.

<u>1.1 Brief Description of Bidder as an Entity</u>: Provide a brief description of the organization / firm submitting the Bid, its legal mandates/authorized business activities, the year and country of incorporation, and approximate annual budget, etc. Include reference to reputation, or any history of litigation and arbitration in which the organisation / firm has been involved that could adversely affect or impact the delivery of goods and/or performance of related services, indicating the status/result of such litigation/arbitration.

<u>1.2. Financial Capacity:</u> Based on the latest Audited Financial Statement (Income Statement and Balance Sheet) describe the financial capacity (liquidity, stand-by credit lines, etc.) of the bidder to engage into the contract. Include any indication of credit rating, industry rating, etc.

<u>1.3. Track Record and Experiences:</u> Provide the following information regarding corporate experience within at least the last five (5) years which are related or relevant to those required for this Contract.

Name of project	Client	Contract Value	Period of activity	Types of activities undertaken	Status or Date Completed	References Contact Details (Name, Phone, Email)

¹⁴ Technical Bids not submitted in this format may be rejected.

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 specifications.

<u>2.1. Scope of Supply</u>: Please provide a detailed description of the goods to be supplied, indicating clearly how they comply with the technical specifications required by the ITB (see below table); describe how the organisation/firm will supply the goods and any related services, keeping in mind the appropriateness to local conditions and project environment.

ltem No.	Description/ Specification of Goods	Source/ Country Qt Manufacturer of Origin		Qty	Quality Certificate/ Export Licenses, etc. (indicate all that applies and if attached)

A supporting document with full details may be annexed to this section

<u>2.2. Technical Quality Assurance Mechanisms</u>: The bid shall also include details of the Bidder's internal technical and quality assurance review mechanisms, all the appropriate quality certificates, export licenses and other documents attesting to the superiority of the quality of the goods and technologies to be supplied.

<u>2.3. Reporting and Monitoring</u>: Please provide a brief description of the mechanisms proposed for this project for reporting to the UNDP and partners, including a reporting schedule.

<u>2.4. Subcontracting</u>: Explain whether any work would be subcontracted, to whom, how much percentage of the work, the rationale for such, and the roles of the proposed sub-contractors. Special attention should be given to providing a clear picture of the role of each entity and how everyone will function as a team.

<u>2.5. Risks / Mitigation Measures</u>: Please describe the potential risks for the implementation of this project that may impact achievement and timely completion of expected results as well as their quality. Describe measures that will be put in place to mitigate these risks.

<u>2.6 Implementation Timelines:</u> The Bidder shall submit a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.

<u>2.7. Partnerships (Optional)</u>: Explain any partnerships with local, international or other organizations that are planned for the implementation of the project. Special attention should be given to providing a clear picture of the role of each entity and how everyone will function as a team. Letters of commitment from partners and an indication of whether some or all have successfully worked together on other previous projects is encouraged.

<u>2.8. Anti-Corruption Strategy (Optional)</u>: Define the anti-corruption strategy that will be applied in this project to prevent the misuse of funds. Describe the financial controls that will be put in place.

<u>2.9 Statement of Full Disclosure</u>: This is intended to disclose any potential conflict in accordance with the definition of "conflict" under Section 4 of this document, if any.

<u>2.10 Other:</u> Any other comments or information regarding the bid and its implementation.

SECTION 3: PERSONNEL

<u>3.1 Management Structure</u>: Describe the overall management approach toward planning and implementing the contract. Include an organization chart for the management of the contract, if awarded.

<u>3.2 Staff Time Allocation</u>: Provide a spreadsheet will be included to show the activities of each personnel involved in the implementation of the contract. Where the expertise of the personnel is critical to the success of the contract, UNDP will not allow substitution of personnel whose qualifications had been reviewed and accepted during the bid evaluation. (If substitution of such a personnel is unavoidable, substitution or replacement will be subject to the approval of UNDP. No increase in costs will be considered as a result of any substitution).

<u>3.3 Qualifications of Key Personnel.</u> Provide the CVs for key personnel (Team Leader, Managerial and general staff) that will be provided to support the implementation of this project. CVs should demonstrate qualifications in area of expertise relevant to the Contract. Please use the format below:

Name:				
Role in Contract Implementation	:			
Nationality:				
Contact information:				
Countries of Relevant Work Expe	rience:			
Language Skills:				
Education and other Qualification	ns:			
Summary of Experience: Highli	ght experience	in the region and on simil	ar projects.	
Relevant Experience (From most	recent):			
Period: From – To	Name of activity/ Project/ funding organisation, if applicable:		Job Title and Activities undertaken/Description of actual role performed:	
e.g. June 2010-January 2011				
Etc.				
Etc.				
References (minimum of 3):	eferences (minimum of 3): Designation Organization Contact Information – Address; Phone; Email; etc.			
Declaration:	j			
I confirm my intention to serve in the stated position and present availability to serve for the term of the proposed contract. I also understand that any wilful misstatement described above may lead to my disqualification, before or during my engagement.				
Signature of the Nominated Team Leader/Member Date Signed				

The Bidder is required to prepare the Price Schedule as indicated in the Instruction to Bidders.

The Price Schedule must provide a detailed cost breakdown of all goods and related services to be provided, from unit price to lot prices. Separate figures must be provided for each functional grouping or category, if any.

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

The format shown on the following pages is suggested for use as a guide in preparing the Price Schedule. The format includes specific expenditures, which may or may not be required or applicable but are indicated to serve as examples.

No.	Deliverables			Price
	[list them as referred to in	Expected Date of	Percentage of Total	(Lump Sum, All
	the ITB]	Delivery/Completion	Price	Inclusive)
	A. Equipment supply a	nd delivery:		
1	Upon Supply, Delivery and Installation of Early Warning System at Imja Lake: a). Automatic Weather Station and GLOF sensors at Lake area b). Audio GLOF Sirens (Emergency Notification) System. c). Slave and siren nodes	15 Sep. 2015	70%	
	<mark>d). Services.</mark>			
2	Upon Installation and testing of Early Warning System at Imja Lake: a). Automatic Weather Station and GLOF sensors at Lake area	30 Sep. 2015	30%	

A. Cost Breakdown per Deliverable Items*

¹⁵ No deletion or modification may be made in this form. Any such deletion or modification may lead to the rejection of the Bid.

	b). Audio GLOF Sirens (Emergency Notification) System. c). Slave and siren nodes d). Services. e). Acceptance of completion report.		
	Total	100%	
	B. Services		
1	Upon rendering of the services.	100%	

* This shall be the basis of payment tranches

B. Cost Breakdown by Cost Component:

The Bidders are requested to provide the cost breakdown for the above given prices for each deliverable based on the following format. UNDP shall use the cost breakdown for the price reasonability assessment purposes as well as the calculation of price in the event that both parties have agreed for additional set of goods and/or related services.

Deli	verables and Sub-Components	Qty	Unit Price (a)	Total Price (b)
	A: Automatic Weather Statior	and GLOF	sensors at Lake a	<mark>rea</mark>
1.0 Water	level Sensor and Automatic Weather S	station :		
a.	Water level sensor – Radar type (RLS).	1		
b.	Wind Speed and Direction Sensor.	1		
с.	Temperature and RH Sensor.	1		
d.	Weighing Type Precipitation Gauge with Wind Shield.	1		
e.	Pyranometer Sensor.	1		
f.	Barometric Pressure Sensor.	1		
g.	Laser Snow Depth Sensor.	1		
h.	Wireless remote terminal unit (2 Nos.)	2		
i.	Sensor for theft and vandalism.	2		
j.	Hanging mast to hang RLS at the outlet.	1		
k.	Data logger.	1		
I.	Communication module with cpe wifi gateway.	1		
m.	Power supply system 24 V 100 watt.	1		
n.	Meteorological Tower.	1		

0.	Weather proof housing.	1		
2.0 Upstre	eam GLOF detection system:			
	-			
a.	Volumetric Water Content Sensor.	3		
b.	Moraine Dam Movement Sensor (2 Nos.)	2		
C.	Wireless remote terminal unit.	5		
d.	Sensor for theft and vandalism.	2		
e.	Radio Modem.	1		
f.	Data logger.	1		
g.	Communication module with cpe wifi gateway.	1		
h.	Power supply system 24 V 100 watt.	1		
i.	Mast.	1		
<u>.</u>	Weather proofing housing			
j.	Weather proofing housing	1		
20 00000	troom GLOE detection system:			
5.0 Downs	tream GLOF detection system:			
a.	Water level Sensor (Radar Type).	1		
b.	Volumetric Water Content Sensor.	3		
с.	Digital Sound Metering Sensor.	1		
d.	Camera for Harsh Environment.	1		
e.	Sensor for theft and vandalism.	2		
f.	Radio Modem.	1		
g.	Wireless remote terminal unit.	5		
h.	Data logger.	1		
i.	Communication module with cpe wifi gateway.	1		
j.	Power supply system 24 V 100 watt.	1		
k.	Mast.	1		
Ι.	Weather proofing housing.	1		
	Sub –Total (A)			
	B: Audio GLOF Sirens (Eme	ergency No	tification) System	
a.	Remote terminal unit with audio			
	codec.	6		
b.	Horn Speakers Array.	6		
С.	Audio Amplifier.	6		
d.	Radio modem.	6		
e.	Sensor for theft and vandalism.	12		
f.	Communication module without cpe wifi gateway.	6		
g.	Power supply system 24 V 100 watt.	6		
b.	Mast.	6		

i. Weather proofing housing.	6		
	6		
	Total (B)		
C. Slave a	and siren	nodes	
Slave Siren Nodes	6		
Radio modem	6		
Power supply system 12 V 50 watt	6		
Sub –	Total (C)		
<u>D: Se</u>	<u>ervices</u>		
Training for about 5 persons after completion of installation at field site with food and accommodation for 12 days (10 days for two way travel for trekking and intermittent training on the way) from Kathmandu to field site and back.	LS		
 Development of customized software: a. Customized software, for data acquisition, decision support system, alert dissemination and system configuration. b. Development of web based software for programming, multi-tasking, and configuring remotely and sending SMS and alerts during emergencies. c. Any other as appropriate. 			
Regular Operation & Maintenance for one year.	LS		
Warranty, testing, transportation and installations.	LS		
Communication Charges for one year	LS		
Others			
Others			
Sub –Total (D)			
Total (A+B+C+D)			
VAT and taxes if applicable			
Grant total (Total + VAT)		,	
Operation & Maintenance for on-call (per site	1		
visit)	1		

<u>Note:</u>

Warranty of supplied equipment should be for at least 3 years.

Operation, maintenance and data uploading at <u>www.hydrology.gov.np</u> for one year is must and the contract can be extended for warranty period upon satisfactory performance.

The cost of Operation & Maintenance for on-call (per site visit) shall not be considered for evaluating bid price unless two lowest bids have same prices.

Section 8: FORM FOR PERFORMANCE SECURITY¹⁶

(This must be finalized using the official letterhead of the Issuing Bank. Except for indicated fields, no changes may be made in this template.)

To: UNDP

[Insert contact information as provided in Data Sheet]

WHEREAS [*name and address of Contractor*] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. Click to enter dated Click to enter, to deliver the goods and execute related services Click here to enter text. (hereinafter called "the Contract"):

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract:

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

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

This guarantee shall be valid until a date 30 days from the date of issue by UNDP of a certificate of satisfactory performance and full completion of services by the Contractor.

SIGNATURE AND SEAL OF THE GUARANTOR BANK

Date

Name of Bank

Address

¹⁶ If the RFP requires the submission of a Performance Security, which shall be made a condition to the signing and effectivity of the contract, the Performance Security that the Bidder's Bank will issue shall use the contents of this template

Section 9: General Terms and Conditions of Purchase Order

1. ACCEPTANCE OF THE PURCHASE ORDER

This Purchase Order may only be accepted by the Supplier's signing and returning an acknowledgement copy of it or by timely delivery of the goods in accordance with the terms of this Purchase Order, as herein specified. Acceptance of this Purchase Order shall effect a contract between the Parties under which the rights and obligations of the Parties shall be governed solely by the terms and conditions of this Purchase Order, including these General Conditions. No additional or inconsistent provisions proposed by the Supplier shall bind UNDP unless agreed to in writing by a duly authorized official of UNDP.

2. PAYMENT

- 2.1.1 UNDP shall, on fulfillment of the Delivery Terms, unless otherwise provided in this Purchase Order, make payment within 30 days of receipt of the Supplier's invoice for the goods and copies of the shipping documents specified in this Purchase Order.
- 2.1.2 Payment against the invoice referred to above will reflect any discount shown under the payment terms of this Purchase Order, provided payment is made within the period required by such payment terms.
- 2.1.3 Unless authorized by UNDP, the Supplier shall submit one invoice in respect of this Purchase Order, and such invoice must indicate the Purchase Order's identification number.
- 2.1.4 The prices shown in this Purchase Order may not be increased except by express written agreement of UNDP.

3. TAX EXEMPTION

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

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

4. RISK OF LOSS

Risk of loss, damage to or destruction of the goods shall be governed in accordance with DDU Inco terms 2000, unless otherwise agreed upon by the Parties on the front side of this Purchase Order.

5. EXPORT LICENCES

Notwithstanding any INCOTERM 2000 used in this Purchase Order, the Supplier shall obtain any export licences required for the goods.

6. FITNESS OF GOODS/PACKAGING

The Supplier warrants that the goods, including packaging, conform to the specifications for the goods ordered under this Purchase Order and are fit for the purposes for which such goods are ordinarily used and for purposes expressly made known to the Supplier by UNDP, and are free from defects in workmanship and materials. The Supplier also warrants that the goods are contained or packaged adequately to protect the goods.

7. INSPECTION

1. UNDP shall have a reasonable time after delivery of the goods to inspect them and to reject and refuse acceptance of goods not conforming to this Purchase Order; payment for goods pursuant to this Purchase Order shall not be deemed an acceptance of the goods.

2. Inspection prior to shipment does not relieve the Supplier from any of its contractual obligations.

8. INTELLECTUAL PROPERTY INFRINGEMENT

The Supplier warrants that the use or supply by UNDP of the goods sold under this Purchase Order does not infringe any patent, design, trade-name or trade-mark. In addition, the Supplier shall, pursuant to this warranty, indemnify, defend and hold UNDP and the United Nations harmless from any actions or claims brought against UNDP or the United Nations pertaining to the alleged infringement of a patent, design, trade-name or trade-mark arising in connection with the goods sold under this Purchase Order.

9. RIGHTS OF UNDP

In case of failure by the Supplier to fulfil its obligations under the terms and conditions of this Purchase Order, including but not limited to failure to obtain necessary export licenses, or to make delivery of all or part of the goods by the agreed delivery date or dates, UNDP may, after giving the Supplier reasonable notice to perform and without prejudice to any other rights or remedies, exercise one or more of the following rights:

- a) Procure all or part of the goods from other sources, in which event UNDP may hold the Supplier responsible for any excess cost occasioned thereby.
- b) Refuse to accept delivery of all or part of the goods.
- c) Cancel this Purchase Order without any liability for termination charges or any other liability of any kind of UNDP.

10. LATE DELIVERY

Without limiting any other rights or obligations of the parties hereunder, if the Supplier will be unable to deliver the goods by the delivery date(s) stipulated in this Purchase Order, the Supplier shall (i) immediately consult with UNDP to determine the most expeditious means for delivering the goods and (ii) use an expedited means of delivery, at the Supplier's cost (unless the delay is due to <u>Force</u> <u>Majeure</u>), if reasonably so requested by UNDP.

11. ASSIGNMENT AND INSOLVENCY

- 11.1. The Supplier shall not, except after obtaining the written consent of UNDP, assign, transfer, pledge or make other disposition of this Purchase Order, or any part thereof, or any of the Supplier's rights or obligations under this Purchase Order.
- 11.2. Should the Supplier become insolvent or should control of the Supplier change by virtue of insolvency, UNDP may, without prejudice to any other rights or remedies, immediately terminate this Purchase Order by giving the Supplier written notice of termination.

12. USE OF UNDP OR UNITED NATIONS NAME OR EMBLEM

The Supplier shall not use the name, emblem or official seal of UNDP or the United Nations for any purpose.

13. PROHIBITION ON ADVERTISING

The Supplier shall not advertise or otherwise make public that it is furnishing goods or services to UNDP without specific permission of UNDP in each instance.

14. CHILD LABOUR

The Supplier represents and warrants that neither it nor any of its affiliates is engaged in any practice inconsistent with the rights set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral or social development.

Any breach of this representation and warranty shall entitle UNDP to terminate this Purchase Order immediately upon notice to the Supplier, without any liability for termination charges or any other liability of any kind of UNDP.

15. MINES

The Supplier represents and warrants that neither it nor any of its affiliates is actively and directly engaged in patent activities, development, assembly, production, trade or manufacture of mines or in such activities in respect of components primarily utilized in the manufacture of Mines. The term "Mines" means those devices defined in Article 2, Paragraphs 1, 4 and 5 of Protocol II annexed to the Convention on Prohibitions and Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to Have Indiscriminate Effects of 1980.

Any breach of this representation and warranty shall entitle UNDP to terminate this Purchase Order immediately upon notice to the Supplier, without any liability for termination charges or any other liability of any kind of UNDP.

16. SETTLEMENT OF DISPUTES

16.1 Amicable Settlement

The Parties shall use their best efforts to settle amicably any dispute, controversy or claim arising out of, or relating to this Purchase Order or the breach, termination or invalidity thereof. Where the Parties wish to seek such an amicable settlement through conciliation, the conciliation shall take place in accordance with the UNCITRAL Conciliation Rules then obtaining, or according to such other procedure as may be agreed between the Parties.

16.2 Arbitration

Unless, any such dispute, controversy or claim between the Parties arising out of or relating to this Purchase Order or the breach, termination or invalidity thereof is settled amicably under the preceding paragraph of this Section within sixty (60) days after receipt by one Party of the other Party's request for such amicable settlement, such dispute, controversy or claim shall be referred by either Party to arbitration in accordance with the UNCITRAL Arbitration Rules then obtaining, including its provisions on applicable law. The arbitral tribunal shall have no authority to award punitive damages. The Parties shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such controversy, claim or dispute.

17. PRIVILEGES AND IMMUNITIES

Nothing in or related to these General Terms and Conditions or this Purchase Order shall be deemed a waiver of any of the privileges and immunities of the United Nations, including its subsidiary organs.