



**INVITATION FOR BID**

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*Bidding document for the procurement of pipeline and manifold system materials, installation, and related services*

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**IFB No.:** IFB-ETH---14 Aug-2022

**Procurement Reference No.:** EM/CSP/004/22

**Project:** Unitaid

**Country:** Ethiopia

**Issued on:** 14 August 2022

## ACRONYMS

CHAI	Clinton Health Access Initiative
DDP	Delivered Duty Paid Incoterms
EFDA	Ethiopian Food and Drug Administration
ETB	Ethiopian Birr
MOH	Ministry of Health
HF	Health Facility
IFB	Invitation for Bid
PMED	Pharmaceutical and Medical Equipment Directorate
PO	Purchase Order
PPM	Planned Preventive Maintenance
PSA	Pressure Swing Adsorption
Q&A	Question and Answers
RHB	Regional Health Bureau
SLA	Service Level Agreement
USD	United States Dollar
COVID-19	Corona Virus Disease 2019

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## BACKGROUND

COVID-19 remains a public threat and requires a holistic approach across different levels of the healthcare system. To that end, the Ethiopian Ministry of Health (MOH), along with its key stakeholders, has been working to expand medical oxygen and related devices in the country to ensure the sustainable availability of medical oxygen for COVID-19 response and beyond. This deliberate effort is aimed to build a resilient health system for a strong response to public health emergencies.

Clinton Health Access Initiative (CHAI) Ethiopia supports the MOH, Ethiopia on a wide range of programs to strengthen the country's health system and ensure access to quality health services. CHAI is mandated to coordinate the procurement of central oxygen distribution systems and manifold materials, installation, and training services to optimize the production capacity of liquid oxygen plants at Dilla and Ambo General Hospitals.

## PROCUREMENT CONTEXT

The MOH, in collaboration with key stakeholders such as CHAI Ethiopia and other implementing partners, conducted a medical oxygen need assessment and analysis and identified gaps in the availability of pressure swing adsorption (PSA) oxygen plants, manifold and pipeline systems, as well as backup power generators to meet the additional oxygen need for COVID-19 management beyond essential services.

To close the big gap between the demand for oxygen by patients and supply at service delivery points, the MOH with CHAI support, would like to procure pipeline and manifold system materials, installation services and a training package for end-users including biomedical engineers at two priority hospitals in the country, the Ambo General Hospital and Dilla University Hospital.

## PROCESS

This procurement request was developed in collaboration with the Ethiopian MOH.

All bids will be evaluated based on efficiency, cost-effectiveness, value-for-money, and long-term sustainability of the oxygen ecosystem.

## OBJECTIVE AND SCOPE

CHAI is seeking quotes which include the procurement and supply of pipeline and manifold system materials, installation services, commissioning, and training for end users at Ambo General hospital and Dilla University Hospitals.

Detailed specifications for the above items can be found in **Annex A**.

Desired shipping, installation and commissioning costs is presented under DDP INCOTERMS 2020.

If you are interested in submitting a bid in response to this Invitation for Bid (IFB), please prepare your bid in accordance with the National Competitive Bidding (NCB) requirements and procedures as set out in this IFB. Bidders should submit technical, operational, and financial proposals. Offers are to be submitted in two (2) separate envelopes and must be clearly labeled:

- a. Technical and Operational
- b. Price Schedule / Financial Proposal

It shall remain the bidder's responsibility to ensure that the quotation is submitted on or before August 26, 2022 at 2 pm EAT, to the following address:

**Address: Clinton Health Access Initiative,  
Bid Document for (IFB # CHAI/ EM/CSP/001/22), Meskel Flower Road  
Tel # 011 416 6993-98, Fax: 011 416 6988 and P.O. Box 3297, Code 1250, Addis Ababa, Ethiopia**

All bid documents submitted after the cut-off date shall be rejected and returned unopened to bidders.

Bids shall be opened in the presence of the bidders and/or their representatives who choose to attend in person at the Clinton Health Access Initiative office at 2:15 PM EAT on August 26, 2022. All bids must be accompanied by a 2% Bid Security of Bank "Cashier Payment Order" in Ethiopian Birr.

All interested bidders must have renewed license and bidder's registration certificate from the Government of Ethiopia - Ministry of Finance and Economic Development.

**Issued by:**

**Approved by:**

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**Name:** Dinkineh Bikila

**Name:** Rahel Belete (PhD)

**Title:** Program manager for Essential Medicine

**Title:** Country Director, CHAI Ethiopia

**Date:** August 14, 2022

**Date:** August 14, 2022

**IFB Terms and Conditions**

Distribution of this document does not mean there is any commitment on the part of CHAI to engage an applicant. CHAI will not reimburse or otherwise bear any costs associated with this IFB regardless of whether applicant is selected to implement the project. Please note that no fee is required in submission of these quotes. All IFBs, along with any responses are considered the property of CHAI and the proposals will not be returned to the originator.

## SECTION 2. INSTRUCTION TO BIDDERS

<b>GENERAL PROVISION</b>	
<b>Introduction</b>	<p>1.1 Bidders shall adhere to all the requirements of this IFB, including any amendments made in writing by CHAI.</p> <p>1.2 Any bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the bid by CHAI. CHAI is under no obligation to award a contract to any Bidder as a result of this IFB.</p> <p>1.3 CHAI reserves the right to cancel the procurement process at any stage without any liability of any kind for CHAI, upon notice to the bidders or publication of cancellation notice.</p> <p>1.4 As part of the bid, it is desired that the Bidder have a renewed license and bidder's registration certificate from Government of Ethiopia - Ministry of Finance and Economic Development.</p>
<b>Fraud &amp; Corruption, Gifts and Hospitality</b>	<p>1.5 CHAI does not tolerate corrupt, fraudulent, collusive, anti- competitive or coercive practices of any kind involving its resources, including grant funds.</p> <p>1.6 CHAI requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation.</p> <p>1.7 Bidders/vendors shall not solicit, offer, give or receive, or promise or represent to offer, give or receive, fees, gratuities, rebates, gifts, commissions, or other payments, except as disclosed in full to the - or the grant recipient, in connection with the procurement process or in contract execution.</p> <p>1.8 In this regard, CHAI:</p> <ul style="list-style-type: none"> <li>a) Shall take strong, immediate action in all circumstances where it determines that there is substantive and credible evidence of corrupt, fraudulent, collusive, anti-competitive or coercive practices in connection with the procurement or performance of the contract in question.</li> <li>b) Reserves the rights to reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question.</li> <li>c) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a contract</li> </ul>
<b>Eligibility</b>	<p>1.9 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other major international financing institution or organization. Vendors are therefore required to disclose to CHAI whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>1.10 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by -.</p>
<b>Conflict of Interests</b>	<p>1.11 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified.</p> <p>1.12 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to CHAI, and seek confirmation on whether or not such conflict exists.</p> <p>1.13 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p>

	<p>a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of - staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and</p> <p>b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.</p> <p>1.14 Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>1.15 The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
<b>PREPARATION OF BIDS</b>	
<b>General Considerations</b>	<p>1.16 In preparing the Bid, the Bidder is expected to examine the IFB in detail. Material deficiencies in providing the information requested in the IFB may result in rejection of the Bid.</p> <p>1.17 The Bidder will not be permitted to take advantage of any errors or omissions in the IFB. Should such errors or omissions be discovered, the Bidder must notify CHAI accordingly.</p>
<b>Cost of Preparation of Bid</b>	1.18 The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. CHAI shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.
<b>Language</b>	1.19 The Bid, as well as any and all related correspondence exchanged by the Bidder and CHAI, shall be written in English; the language(s) specified in the Bid Data Sheet (BDS).
<b>Documents Comprising the Bid</b>	<p>1.20 The Bid shall comprise of the following documents and related forms which details are provided in the BDS:</p> <p>a) Documents Establishing the Eligibility and Qualifications of the Bidder;</p> <p>b) Technical Bid (including operational aspects);</p> <p>c) Price Schedule/Financial Proposal;</p> <p>d) Bid Security, if required by BDS;</p> <p>e) Any attachments and/or appendices to the Bid.</p>
<b>Documents Establishing the Eligibility and Qualifications of the Bidder</b>	1.21 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to CHAI's satisfaction.
<b>Price Schedule / Financial Proposal</b>	<p>1.22 Interested parties are asked to submit, under separate cover, a detailed price schedule/financial proposal for procurement and delivery.</p> <p>1.23 Value for money will be a key criterion in selection and the final budget will be agreed with the successful party.</p> <p>1.24 The Price Schedule/Financial Proposal shall be prepared using the Form provided in Section 6 of the IFB and taking into consideration the requirements in the IFB.</p> <p>1.25 The bidder should cost in Dollars (USD) for the following:</p> <p>a) Pipeline and Manifold system materials</p>



	<ul style="list-style-type: none"> <li>• Pipeline and Manifold system materials and the components</li> <li>• Shipping and inland transportation to the facility and other costs as per DDP INCOTERMS 2020</li> <li>• Loading and unloading (crane other related expenses)</li> <li>• Labor costs (including installation, commissioning, and training)</li> </ul> <p>b) After sales SLA:<sup>1</sup></p> <ul style="list-style-type: none"> <li>• Spares, itemized, costed per unit and total (as per costing template) after warranty period</li> <li>• Consumables for service, labor costs associated with repair and maintenance within the warranty period</li> </ul> <p><b>Note: Only when technical specifications have been met and terms of after sales have been deemed acceptable, the financial proposal will be considered.</b></p>
<b>Bid Security</b>	<p>1.26 Unless otherwise specified in the bid document, the Bidder shall furnish as part of its bid, a bid security in original form and in the amount and currency specified in the bid document. All bids must be accompanied by a 2% Bid Security of Bank “Certified Payment Order” in Ethiopian Birr.</p> <p>1.27 The bid security shall be, at the Bidder’s option, in any of the following forms:</p> <ol style="list-style-type: none"> <li>a) An unconditional Bank Guarantee.</li> <li>b) An irrevocable Letter of Credit.</li> <li>c) Cash, check certified by a reputable bank or financial institution, or payable order.</li> </ol> <p>1.28 The Bid Security shall be valid for a minimum of twenty-eight (28) days beyond the end of validity period of the Bid. This shall also apply if the period for bid validity is extended.</p> <p>1.29 CHAI reserves the right to accept or reject any or all bids if:</p> <ol style="list-style-type: none"> <li>a) The Bid Security is not included along with the Bid or is not found in the Bid as per indicated the IFB.</li> <li>b) The Bid Security amount or its validity period is found to be less than what is required.</li> </ol> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>a) The bank guarantee from a banking institution recognized by the purchaser located in any eligible country shall be counter guaranteed by any local Commercial Banks.</li> <li>b) Unconditional bank guarantee should be submitted in its original form; copies will not be accepted.</li> <li>c) Bid security shall be issued in the name of Clinton Health Access Initiative (CHAI).</li> </ol> <p>1.30 The Bid Security may be forfeited, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ol style="list-style-type: none"> <li>a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or;</li> <li>b) In the event the successful Bidder fails: <ul style="list-style-type: none"> <li>• to sign the Contract after being issued an award; or</li> </ul> </li> </ol>

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<sup>1</sup> Please complete the unit price and required spare parts (any necessary but missed from the list) to be supplied after warranty period.

	<ul style="list-style-type: none"> <li>to furnish the Performance Security, insurances, or other documents that may be required as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.</li> </ul>
<b>Currencies</b>	<p>1.31 All prices shall be quoted in USD; the currency indicated in the BDS. Where Bids are quoted in different currencies, CHAI will not convert the currency quoted in the Bid into the preferred currency.</p> <p>1.32 If the Bidder wishes to be paid in a combination of amounts in different currencies like ETB and USD, the bidder should indicate the percentage with list of specific goods and services, but this should be noted that the amount to be paid will be based on the national bank of Ethiopia exchange rate of USD on the date.</p> <p>1.33 The payment currency for local agents for installation, after sales services and maintenance will be changed to local currency by referring to the current/updated - fixed rate.</p>
<b>Bid Validity Period</b>	<p>1.34 Bids shall remain valid for the period of 30 days (specified in the bid document) after the bid submission deadline prescribed by CHAI. A Bid valid for a shorter period may be rejected and rendered non-responsive.</p> <p>1.35 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
<b>Extension of Bid Validity Period</b>	<p>1.36 In exceptional circumstances, prior to expiry of the bid validity period, CHAI may request Bidders to extend the period of validity of their bids in two days' time. The request and the responses shall be made in writing via email.</p> <p>1.37 Bidders who are not willing to extend their bid validity period for whatever reason shall be disqualified from the bid without having forfeited their bid security.</p> <p>1.38 Bidders agreeing to the CHAI's request for extension of their bid validity period have to express in writing their agreement to such request and for how long they are willing to extend the period. Similarly, they have to amend the validity period of their bid security on the basis of the extension of the bid validity period they have agreed to or furnish new bid security to cover the extended period.</p> <p>1.39 A bidder not agreeing to extend the validity period of his/its bid security shall be treated as a bidder refusing the CHAI's request for extension of bid validity period, and as such, shall be disqualified from further bid proceeding.</p>
<b>IFB-related Questions or Clarifications (from the Bidders)</b>	<p>1.40 Bidders may request clarifications on any of the IFB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing and directed to the email address <a href="mailto:EthiopiaProcurement@clintonhealthaccess.org">EthiopiaProcurement@clintonhealthaccess.org</a> until 19 Aug 2022. If inquiries are sent other than specified channel, CHAI shall have no obligation to respond or confirm that the query was officially received.</p> <p>1.41 All questions will be collected into one document and all answers provided will be circulated to all parties who submitted for clarification, as well as be posted on any platform hosting the IFB.</p> <p>1.42 CHAI shall attempt to provide responses to clarifications in a speedy manner, but any delay in such response shall not cause an obligation on the part of CHAI to extend the submission date of the Bids, unless CHAI deems that such an extension is justified and necessary.</p>
<b>Amendment of Bids</b>	<p>1.43 At any time prior to the deadline of Bid submission, CHAI may for any reason, such as in response to a clarification requested by a Bidder, modify the IFB in the form</p>

	<p>of an amendment to the IFB. Amendments will be made available to all prospective bidders.</p> <p>1.44 If the amendment is substantial, CHAI may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
<b>Alternative Bids</b>	<p>1.45 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the IFB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, CHAI reserves the right to award a contract based on an alternative Bid.</p> <p>1.46 If multiple/alternative bids are being submitted, they must be clearly marked as “Main Bid” and “Alternative Bid”</p>

## SUBMISSION AND OPENING OF BIDS

<b>Submission</b>	<p>1.47 As per the specifications indicated herein, interested, and eligible bidders can do hard copy (manual) or electronic copy submission by courier or hand delivery of documents to the address below at or before 26 Aug 2022, @ 2PM.</p> <p>1.48 The bidder should submit one original and one copy of the document, and they should be clearly marked “Original”, and copies marked “Copy” as appropriate.</p> <p>1.49 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder.</p> <p>1.50 This authorization shall consist of a written statement by a power of attorney (or notary statement, etc.) proving that the person, who signed the bid on behalf of the company/joint venture/consortium is duly authorized to do so and it shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid shall be signed or initialled by the person signing the bid.</p> <p>1.51 All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>1.52 Bidders should submit Technical and Operational, as well as financial proposals. The Technical and Operational Bid as well as the Financial Proposal must be sealed and submitted in separate envelopes, which shall:</p> <ol style="list-style-type: none"> <li>a) Bear the name of the Bidder.</li> <li>b) Be addressed to CHAI; and</li> <li>c) Bear a warning not to open before the time and date for Bid opening.</li> </ol> <p>1.53 If the envelope with the Bid Documents is not sealed and marked as required, CHAI shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p> <p>1.54 CHAI may, by permission of the FMOH employ electronic method to <a href="mailto:EthiopiaProcurement@clintonhealthaccess.org">EthiopiaProcurement@clintonhealthaccess.org</a> to send requests for quotation and receive quotations provided that the following conditions are satisfied. If the method employed by CHAI has a safety mechanism of ensuring that information sent and or received through that electronic communication method cannot be accessed by any person other than the person to whom/which the information is sent, before the time such information will be made public. Electronic submission through email, if allowed, shall be governed as follows:</p>
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	<p>a) Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in bid document</p> <p>b) Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions by the bid submission deadline.</p> <p>1.55 Availability of stock and delivery time must be stated clearly.</p> <p>1.56 Late bids will be rejected and returned unopened to bidders.</p> <p>1.57 Bids must be delivered to the address below:  <b>Clinton Health Access Initiative,  Bid Document for (IFB # CHAI/ EM/CSP/001/22), Meskel Flower Road  Tel # 011 416 6993-98, Fax: 011 416 6988 and P.O. Box 3297, Code 1250,  Addis Ababa, Ethiopia</b></p> <p>1.58 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the <b>General Contract Terms and Conditions</b>.</p>
<b>Deadline for Submission of Bids and Late Bids</b>	<p>1.59 Complete Bids must be received by CHAI as per indicated in bid document and no later than 26 Aug 2022, 2PM specified in the BDS. CHAI shall only recognise the actual date and time that the bid was received by CHAI.</p> <p>1.60 CHAI shall not consider any Bid that is received after the deadline for the submission of Bids.</p>
<b>Withdrawal, Substitution, and Modification of Bids</b>	<p>1.61 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>1.62 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to CHAI, duly signed by an authorized representative, and shall include a copy of the authorization. The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as “WITHDRAWAL” “SUBSTITUTION,” or “MODIFICATION”</p> <p>1.63 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
<b>Bid Opening</b>	<p>1.64 Bids will be opened in the presence of the bidders and/or their representatives who choose to attend in person at the Clinton Health Access Initiative office at 2:15 PM on Aug 26<sup>th</sup>, 2022.</p> <p>1.65 The Bidders’ names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as CHAI may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p>
<b>PROCEDURES FOR BID EVALUATION</b>	
<b>Confidentiality</b>	<p>1.66 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>1.67 Any effort by a Bidder or anyone on behalf of the Bidder to influence CHAI in the examination, evaluation and comparison of the Bids or contract award decisions</p>

	<p>may, at CHAI's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing supplier's sanctions procedures.</p>
<b>Bid Evaluation</b>	<p>1.68 Evaluation will be conducted solely on the basis of the Bids received.</p> <p>1.69 Evaluation of Bids shall be undertaken in the following steps and weighting:</p> <ul style="list-style-type: none"> <li>a) Preliminary Examination including Eligibility</li> <li>b) Qualification assessment (if pre-qualification was not done)</li> <li>c) Evaluation of Technical Bids (Technical Evaluation-60% including operational aspects and preliminary technical evaluation-10%) – <b>70%</b></li> <li>d) Evaluation of Price Schedule / Financial Proposal – <b>30%</b></li> </ul> <p>1.70 Financial offers will only be opened and evaluated if critical criteria of technical and operational offers have been met.</p> <p><b>Note: Only those vendors who provide complete documentation to satisfy the technical and operational aspects of the offer will be considered for financial evaluation.</b></p>
<b>Preliminary Examination</b>	<p>1.71 CHAI shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. CHAI reserves the right to reject any Bid at this stage.</p>
<b>Evaluation of Eligibility and Qualification</b>	<p>1.72 Bidding will be conducted through the National Competitive Bidding (NCB) procedures and is open to all bidders.</p> <p>1.73 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>1.74 In general terms, suppliers that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> <li>a) They have not directly or indirectly, including through an agent or other intermediary, breached the Supplier Code, including, but not limited to, corrupt, fraudulent, collusive, anti-competitive or coercive practices in competing for, or performing under, a --financed contract.</li> <li>b) They have not engaged in misconduct which results in the imposition of sanctions by any partner organization, any comparable institution or by a - grant recipient for conduct that would constitute a breach of the Supplier Code or any other unethical or unlawful behaviour.</li> <li>c) They have not engaged in misconduct which results in an investigation, proceedings or findings, either civil, criminal or administrative, or the imposition of sanctions, by another national or international authority for conduct that would constitute a breach of the Supplier Code.</li> <li>d) They have not been involved in a significant and material breach of the contract between the - and the vendor or between a grant recipient and the vendor that in the opinion of the - places - resources at risk.</li> <li>e) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments,</li> <li>f) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required.</li> <li>g) They do not have a consistent history of court/arbitral award decisions against the Bidder; and</li> </ul>

	h) They have a record of timely and satisfactory performance with their clients.
<b>Evaluation of Technical Bid and Price Schedule/Financial Proposal</b>	<p>1.75 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements as well as Technical &amp; Operational Specifications and other documentation provided, applying the procedure indicated in the BDS and other IFB documents.</p> <p>1.76 When deemed appropriate, CHAI will invite the short-listed competent suppliers with technically responsive bids for a presentation on their Technical Bids and Financial Proposals which could help for sound decision in the selection process of competent competitors. The conditions for the presentation shall be provided in the bid document where required.</p>
<b>Due diligence</b>	<p>1.77 CHAI reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> <li>a) Verification of accuracy, correctness and authenticity of information provided by the Bidder</li> <li>b) Validation of extent of compliance to the IFB requirements and evaluation criteria based on what has so far been found by the evaluation team.</li> <li>c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder.</li> <li>d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous works, as deemed necessary.</li> <li>e) Physical inspection of the Bidder's offices, branches, or other places where business transpires, with or without notice to the Bidder.</li> <li>f) Other means that CHAI may deem appropriate, at any stage within the selection process, prior to awarding the contract.</li> </ul>
<b>Clarification of Bids</b>	<p>1.78 To assist in the examination, evaluation and comparison of Bids, CHAI may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>1.79 CHAI's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by CHAI in the evaluation of the Bids, in accordance with the IFB.</p> <p>1.80 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by CHAI, shall not be considered during the review and evaluation of the Bids.</p>
<b>Responsiveness of Bid</b>	<p>1.81 CHAI's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications, and other requirements of the IFB without material deviation, reservation, or omission.</p> <p>1.82 If a bid is not substantially responsive, it shall be rejected by CHAI and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
<b>Nonconformities, Repairable Errors and Omissions</b>	<p>1.83 Provided that a Bid is substantially responsive, CHAI may waive any non-conformities or omissions in the Bid that, in the opinion of CHAI, do not constitute a material deviation.</p>

	<p>1.84 CHAI may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>1.85 For the bids that have passed the preliminary examination and technical evaluation, CHAI shall check and correct arithmetical errors as follows:</p> <p>a) if there is a discrepancy between the unit price and the line-item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line-item total shall be corrected, unless in the opinion of CHAI there is an obvious misplacement of the decimal point in the unit price; in which case, the line-item total as quoted shall govern and the unit price shall be corrected;</p> <p>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.</p> <p>1.86 If the Bidder does not accept the correction of errors made by CHAI, its Bid shall be rejected.</p>
<b>AWARD OF CONTRACT</b>	
<b>Right to Accept, Reject, Any or All Bids</b>	1.87 CHAI reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.
<b>Award Criteria</b>	<p>1.88 Tenders submitted by vendors will be assessed as per details in Annex B. Vendors must have a legally established business and be of good conduct. Submitted quotes will be reviewed and evaluated by the review committee based on criteria outlined for Pipeline and manifold system materials. The offers shall meet:</p> <p>a) Technical and operational requirements:</p> <ul style="list-style-type: none"> <li>• Technical and performance criteria</li> <li>• Warranty</li> <li>• Service level agreement</li> </ul> <p>b) Quality requirements (including regulatory and standards and proof thereof)</p> <p>1.89 Prior to expiration of the period of Bid validity, CHAI 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.</p>
<b>Debriefing</b>	1.90 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from CHAI. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for CHAI procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
<b>Right to Vary Quantities at the Time of Award</b>	1.91 At the time of award of Contract, CHAI reserves the right to increase or decrease the quantity of goods and/or scope of related services, by up to a maximum twenty percent (20%) of the total offer, without any change in the unit price or other terms and conditions.

<b>Contract Signature</b>	<p>1.92 Promptly after notification of the proposed contract award, CHAI shall send the successful Bidder the Contract.</p> <p>1.93 Within fifteen (15) days of receipt of the notification of award, the successful Bidder shall sign, date, and return it to CHAI the Contract</p> <p>1.94 Where the successful bidder cannot or is unwilling to sign a contract or submit the Performance Security, CHAI may either declare the bidder submitting the second lowest evaluated bid the successful bidder or invite such bidder to sign a contract or advertise the bid afresh by assessing the benefit of the two options.</p> <p>1.95 CHAI shall not sign a contract before seven (7) working days from the date bidders are notified of the result of their bid or of any complaint against the bid proceeding.</p>
<b>Contract Type and General Terms and Conditions</b>	<p>1.96 The purchase order is the expected contract agreements to be signed off.</p>
<b>Performance Security</b>	<p>1.97 Within fifteen (15) days from signing the contract, the successful Bidder shall furnish the performance security. Failure of the successful Bidder to submit Performance Security or sign the Contract shall constitute sufficient grounds for annulment of the award and forfeiture of the bid security.</p> <p>1.98 Where a performance security is deemed necessary, the receipt of the performance security by CHAI shall be a condition for rendering the contract effective.</p>
<b>Bank Guarantee for Advanced Payment</b>	<p>1.99 In case an advance payment is allowed as per the BDS, an equivalent of 30% of the total contract price will be permitted. The Bidder shall submit a Bank Guarantee of the equivalent amount to Advance Payment once the bid is awarded prior to any advance payment.</p>
<b>Liquidated Damages</b>	<p>1.100 CHAI shall apply Liquidated Damages for the damages and/or risks caused to CHAI resulting from the Contractor's delays or breach of its obligations as per Contract.</p> <p>1.101 CHAI may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages with a penalty of 0.5% of the value of undelivered item for each day of delay. However, the cumulative penalty to be paid by the supplier shall not be 15% of the contract price within a maximum tolerable time of 30 days.</p> <p>1.102 If the delay in performing the contract affects its activities, CHAI may terminate the contract by giving advance notice to the Supplier pursuant without any obligation to wait until the penalty reaches 15% of the value of the Contract.</p>
<b>Bidders' Complaint Lodging Procedure</b>	<p>1.103 CHAI follows an open-door policy for management of any compliant lodging procedure in which the aggrieved supplier/bidder can lodge his/her complaint directly to office of Country Director or Deputy Country Director. There are standby committees in which members from different programs along with the principal benefit of this project/MOH, are available to review the issues for timely solution.</p>



### SECTION 3. BID DATA SHEET (BDS)

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail **as summarized from section 2**

BDS No.	Data	Specific Instructions / Requirements
1	Language of the Bid	English
2	Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	
3	Alternative Bids	Shall not be considered
5	Bid Validity Period	30 days after the bid submission deadline prescribed by CHAI.
6	Bid Security	<p>Required in the amount equal to 2% Bid Security of Bank “Cashiers Payment Order” in Ethiopian Birr. The bid security shall be, at the Bidder’s option, in any of the following forms:</p> <ol style="list-style-type: none"> <li>An unconditional Bank Guarantee.</li> <li>An irrevocable Letter of Credit.</li> <li>Cash, check certified by a reputable bank or financial institution, or payable order.</li> </ol> <p><b>NB:</b></p> <ol style="list-style-type: none"> <li>The bank guarantee from a banking institution recognized by the purchaser located in any eligible country shall be counter guaranteed by any local Commercial Banks.</li> <li>Unconditional bank guarantee should be submitted in its original form; copies will not be accepted.</li> <li>Bid security shall be issued in the name of Clinton Health Access Initiative</li> </ol>
7	Advanced Payment upon signing of contract	Allowed up to an equivalent of 30% of total contract value
8	Liquidated Damages	<p>Will be imposed as follows:</p> <ol style="list-style-type: none"> <li>A penalty of 0.5% of the value of undelivered item for each day of delay until actual delivery or performance; but the cumulative penalty to be paid by the supplier shall not exceed 15% of the contract price.</li> <li>Max. number of 30 days of delay, after which CHAI may terminate the contract.</li> <li>If the delay in performing the contract affects its activities, CHAI may terminate the contract by giving advance notice to the Supplier pursuant without any obligation to wait until the penalty reaches 15% of the value of the Contract or 30 days’ time.</li> </ol>
9	Currency of Bid	United States Dollar (USD)

BDS No.	Data	Specific Instructions / Requirements
11	IFB-related Questions or Clarifications (from the Bidders)	19 Aug 2022, Requests will be
12	Contact Details for submitting IFB-related Questions or Clarifications (from the Bidders)	E-mail address: <a href="mailto:EthiopiaProcurement@clintonhealthaccess.org">EthiopiaProcurement@clintonhealthaccess.org</a>
13	Manner of Disseminating Supplemental Information to the IFB and responses/clarifications to queries	Direct communication to prospective bidders by email and Posting on any platform hosting the IFB
14	Deadline for Submission	26 Aug 2022, at 2:00PM
14	Allowable Manner of Submitting Bids	Delivery of Hard Copies
15	Bid Submission Address	<b>Clinton Health Access Initiative, Bid Document for (IFB # CHAI/ EM/CSP/001/22), Meskel Flower Road Tel # 011 416 6993-98, Fax: 011 416 6988 and P.O. Box 3297, Code 1250, Addis Ababa, Ethiopia</b>
16	Date, time, and venue for the opening of bid	<b>Date:</b> 26 Aug 2022 <b>Time:</b> 2:15 PM <b>Venue:</b> Clinton Health Access Initiative Office
17	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
18	Expected date for commencement of Contract	Within 10 days after notification of award
19	Maximum expected duration of contract	70-90 days after signing of the contract
20	CHAI will award the contract to:	One or more Bidders, depending on the following factors: <ul style="list-style-type: none"> <li>▪ Lowest priced technically responsive, eligible and qualified bid</li> <li>▪ Delivery period</li> </ul>
21	Type of Contract	Purchase Order
22	Other Information Related to the IFB	<i>Please note that this invitation is for the procurement, delivery, installation, commissioning of piping and manifold system materials</i> .

## SECTION 4. EVALUATION CRITERIA

### PRELIMINARY EXAMINATION CRITERIA

Bids will be examined to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and submitted in accordance with IFB requirements as per below criteria on a Yes/No basis:

- a) Latest Business License and Registration Certificate from Government of Ethiopia -Ministry of Finance and Economic Development.
- b) Technical BID – use template in **Annex A** and **FORM E**
  - Comprising/meeting all Technical and performance criteria, operational criteria, and quality requirements.
  - Details provided on specific configurations offered
- c) Product documentation (provision of user and service manuals)
  - Individual Equipment Operation & Maintenance Manuals,
- d) Proof of quality including Stringent Regulatory Authority (SRA) approval (e.g., CE certification under MDR) and all requisite standards.
- e) The unit price per terminal for - and - system materials and labor cost should be submitted using the financial template in **FORM F**
- f) Minimum Bid documents provided
- g) Warranty for device and warranty on labor, where applicable
- h) Proof of approval from local Regulatory Authorities in Ethiopia (EFDA), where available, and applicable and import permits.
- i) Standard Operating Procedure for product recall, where applicable
- j) Vendor/Bidder Details – use template in **FORM B**
- k) Price Schedule/Financial Proposal – use template in **FORM F**
- l) Bid Security submitted as per IFB requirements with compliant validity period

#### Minimum Eligibility and Qualification Criteria

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

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

SUBJECT	CRITERIA	DOCUMENT SUBMISSION REQUIREMENT
<b>ELIGIBILITY</b>		
<b>Legal Status</b>	Vendor is a legally registered entity.	Form B: Bidder Information Form
<b>Eligibility</b>	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization, national or regional responsible office in accordance with IFB clause 3.	Form A: Bid Submission Form
<b>Conflict of Interest</b>	No conflicts of interest in accordance with IFB clause 4.	Form A: Bid Submission Form
<b>Bankruptcy</b>	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal	Form A: Bid Submission Form

	action against the vendor that could impair its operations in the foreseeable future.	
<b>Certificates and Licenses</b>	<ul style="list-style-type: none"> <li>▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer.</li> <li>▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country</li> <li>▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder</li> <li>▪ Export/Import Licenses, if applicable</li> </ul>	Form B: Vendor/Bidder Details Form
<b>Other details</b>	<ul style="list-style-type: none"> <li>▪ Conformity to the minimum quality standards indicated as part the IFB documents</li> </ul>	
<b>QUALIFICATION</b>		
<b>Previous Experience</b>	Minimum 3 years of relevant experience.	Form D: Qualification Form
	Minimum 3 contracts of similar value, nature and complexity implemented over the last 3 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Financial Strength</b>	Minimum cumulative sales turnover of <b>USD (insert figure)</b> for the last 3 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Technical Evaluation</b>	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
<b>Financial Evaluation</b>	Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F. Price comparison shall be based on the shipping and inland transportation of the required items/consumables used for plant and other devices service in the warranty period to the facility and other costs as per DDP INCOTERMS 2020. The total cost of ownership (including spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable) will be incorporated in price comparison.	Form F: Price Schedule/Financial Proposal Form
<b>Additional requirements</b>	Current Ethiopian Standards Agency (ESA) certification, will be an added advantage	

## SECTION 5: SCHEDULE OF REQUIREMENTS, BILL OF QUANTITIES, AND DESIGN DWGS

The table below shows a summarized version of the Technical Specifications. The Detailed Technical Specifications are as shown in the attached Annexes.

**Table 1: Summary of the Technical Specifications**

Product information																		
S/n o	Product	Model	Unit	Supplier	Quantity			Unit Cost (USD)	Total cost(USD)	Total PSM costs(USD)	Total cost(USD)	INCOTERM	3PL details	Country	Delivery address	Consignee details	Shipping documents	Lead time (days)
					Ambo General Hospital	Dilla University Hospital	Total											
1	Semi-Automatic Oxygen Manifold system		Set					0		0								
1.1	2X 6 manifold		Pieces		2	1	3	0		0								
2	Medical Gas Terminal Units		Pieces		89	89	178											
3	Area Alarm Unit		Pieces		4	3	7											
4	Zone Service Units		Pieces		4	3	7	0		0								
6	Medical copper pipe	N/A					0											
6.1	Dia. 12mm	N/A	Meter		286	210	496											
6.2	Dia. 15mm	N/A	Meter		210	196	406											
6.3	Dia. 22mm	N/A	Meter		231	135	366											
6.4	Dia. 28mm	N/A	Meter		176	220	396											
6.5	Dia. 35mm	N/A	Meter		105	210	315											
7	Support structure	N/A	Lump sum		410	385	795											
8	Copper fittings and accessories	N/A	Lump sum		1	1	2											
9	Pipe trucking	N/A	Lump sum		720	520	1240											

10	Flowmeter with Humidifier	N/A	Pieces				0										
10.1	0-15 L/min, accuracy 10%, dual taper graduations 0.5 L/min (0-5 L/min range) and 1 L/min (5 L/min – maximum range)		Pieces	59	64												
10.2	0-3.5 L/min, accuracy 10%, single taper graduations 0.25 L/min		Pieces	30	25		25	0		0							
11	Installation inclusive of team travel, room and board	N/A	Lump sum				0										
12	[other]																

## SECTION 5.1. SUMMARY OF ACTIVITIES WITH TIMELINE

Activity, Services and Project Timeline				
Activity	Duration	Start	Finish	Comments
Procurement of all project materials				
Submission of third-party documentation for chemical and physical composition, cleaning, and degreasing of piping hardware (as per ASTM B-819, NFPA 99 and/or equivalent)				
Staging of works at site				
Installation at site (Note: this is an existing operational facility)				
Testing				
Commissioning				
Delivery of comprehensive training to facility team				
Completion of handover including provision of the following to CHAI, MOH, and facility team:				
As-built design DWGs (if deviation from proposed DWGs)				
Testing report				
Train users and technical personnel				
Commissioning report and certificate				

**ANNEX A4 1- HOSPITAL PIPELINE DRAWING FOR AMBO HOSPITAL**

[..\AMBO MGS DWG.zip](#)

**ANNEX A4 1- HOSPITAL PIPELINE DRAWING FOR DILLA UNIVERSITY HOSPITAL**

[..\DU HOSPITAL MGS DWG.zip](#)

**ANNEX A: EQUIPMENT SPECIFICATIONS**

**ANNEX A1 TECHNICAL REQUIREMENTS FOR PIPELINE INSTALLATION, MATERIALS, AND COMPONENTS**

Component	Specification
Overview	The reach of the pipeline distribution network shall be in accordance with the design DWGs provided in Section 5
	System configuration shall include:
	· Semi-automatic oxygen distribution manifold system
	· Line valve assemblies
	· Area valve service units
	· Alarms
	· Emergency inlet port
	· Terminal units
<b><u>Piped network installation</u></b>	Installation, testing, and commissioning of medical gas pipelines should be carried out as per:
	<ul style="list-style-type: none"> <li>• HTM-02-01: United Kingdom Department of Health: Health Technical Memorandum 02-01: Medical Gas Pipeline Systems -Part A Design, Installation, Validation and Verification</li> </ul>
	Or



	<ul style="list-style-type: none"> <li>• NFPA 99: National Fire Protection Association (USA): Health Care Facilities Code Handbook</li> </ul>
<b><u>Copper pipes</u></b>	Labeling:
	· Color: International (white) labelled “oxygen”
	· The pipe manufacturer’s name and registered trademark shall be marked on each pipe, specification, and either traceable batch number or production date
	Cleaning:
	· Copper piping shall be free of contaminants such as oil, grease, and other readily oxidizable materials.
	Each pipe shall be internally clean in such way to prevent gas contamination and potential explosions.
	Pipes shall be sold and delivered capped at both ends to minimize contamination prior to installation.
	· Pipes shall be certified for use for medical gases. Copper pipe shall have certification of origin and documentation to support fitness for medical gas application.
	· All fittings (elbows, connectors, tees, reducing tee, reducers) shall be made of degreased medical copper or brass.
Fittings shall come sealed in individual packages.	
<b><u>Alarms</u></b>	Master alarms should be added to provide system-status overview if warranted by size of facility / reticulation system and technical team is present to perform continuous surveillance.
	Local alarms should be placed within services where risk to patient is high if supply disruption occurs (e.g., OTs and post-op, NICU, pediatric ward, ICU, the ER and delivery rooms)
	Alarm shall have the following features:
	· Audible and visual alarms to indicate abnormal conditions such as:
	High- and low-pressure conditions
	Bank changeover for manifolds
	Cessation of flow
	Initiation and operation of secondary or emergency supply (e.g., manifold)
	Any other system abnormality not otherwise stated

	<ul style="list-style-type: none"> <li>· Visual alarm shall remain active even after pressing of “mute” button; Audible alarm shall re-sound if abnormal condition is left unresolved.</li> <li>· Digital display of line pressure for all the gas lines, with factory-calibrated pressure sensors housed in or adjacent to AVSUs.</li> <li>· All wall outlets/terminal units should be covered under local and/or master alarms.</li> <li>· Power supply of 220V, 50 Hz AC.</li> <li>· Wall mounted.</li> </ul>
<b><u>Line Valve Assemblies</u></b>	Constructed of nickel- plated brass
	Ball-valve type, operated manually by lever that opens and closes by a 90° turn.
	Pneumatically tested for 800 kPa (which is twice the working pressure) and factory degreased for medical gas service
	Labelled according to service including direction of flow
	Capable of being locked in a fully opened or fully closed position
<b><u>Area valve service units (AVSUs)</u></b>	Constructed in metal with transparent plastic cover.
	Valves themselves shall be constructed of nickel- plated brass and shall be ball-valve types, cleaned and tested for medical oxygen application.
	Features analogue pressure gauges to indicate the pressure in line.
	Contains at least one area valve (Oxygen).
<b><u>Wall outlets / Terminal Units</u></b>	Terminal unit wall connection type: [MG-BS-13 O2,
	Colour: International (white) labelled “oxygen”
<b><u>Oxygen Distribution Manifold System</u></b>	See Annex A3
<b><u>Warranty</u></b>	All components of the medical oxygen pipeline network shall have a 5-year warranty period after commissioning, in-line with system design life.
	The supplier must ensure the availability of spare part for at least 8 years

<b><u>Testing and commissioning</u></b>	All the copper pipes shall be inspected by the client or their appointed agents before installation
	A specific sticker shall be affixed to the pipe showing the flow direction.
	After installation, the system – comprising piping and fittings – shall undergo comprehensive testing, a plan for which shall include but not be limited to leak tests, a standing pressure test (24hrs at 480 kPa [20% greater than operating pressure]), as well as testing for system pressure drops or shocks.
	To be verified and validated by design engineers as per system-specific configurations.
	On-site: Inspection, testing and commissioning shall be done before handover.
	Provision of:
	· As-built system drawings
	· Testing report · Commissioning report & certificate
<b><u>Standards</u></b>	Pipeline network designer and installer shall hold a valid certificate of a Quality Management Systems (ISO 13485, ISO 9001), where scope of current registration defined for piped networks
	Pipeline components must comply with the following standards (or equivalent):
	· ISO 7396-1: Medical gas pipeline systems
	· ISO 9170-1: Terminal units for medical gas pipeline systems
	· BS EN 13348: Copper and copper alloys. Seamless, round copper tubes for medical gases or vacuum or equivalent
	· BS EN 1057: Copper and copper alloys. Seamless, round copper tubes for water and gas in sanitary and heating applications or equivalent (*n.b. this standard is used for dimensioning of piping)
	· BS EN 1254-1: Copper and copper alloys - Plumbing fittings - Fittings with ends for capillary soldering or capillary brazing to copper tubes
	· BS EN 1254-4: Copper and copper alloys - Plumbing fittings - Fittings combining other end connections with capillary or compression ends

	· ISO 10524 Pressure regulators for use with medical gases
	· ISO 21969: High-pressure flexible connections for use with medical gas systems .
<b><u>Documentation</u></b>	See Annex A2

## ANNEX A2: SUBMISSION CHECKLIST

Category	Requirement	Meet requirement?	Type of supporting documents	Comments
<b>Experience</b>	At least 3 years' experience in designing and setting medical gas pipeline networks for hospitals/medical facilities in Ethiopia or low- and middle-income countries. Please attached a detailed relevant work history.			
	Documentation of personnel training/qualifications, which may include: <ul style="list-style-type: none"> <li>- CV of lead system design engineer</li> <li>- Certifications of personnel installing the system</li> <li>- Summary of training program</li> </ul> supplier requires of technical team involved in design & install			

<b>Category</b>	<b>Requirement</b>	<b>Meet requirement?</b>	<b>Type of supporting documents</b>	<b>Comments</b>
<b>Training</b>	Certifications of personnel and CV of the Lead System Design Engineer			
	Documentation summarizing the training program that the supplier requires of all engineers involved in medical gas system installation and design			
<b>Warranty</b>	All components should have at least 2 years' warranty period after commissioning			
	The supplier must ensure the availability of spare parts for at least 5 years			
	Within the warranty period, the manufacturer will be responsible for the prompt repair of malfunctioning equipment within the system			
<b>Testing and commissioning</b>	On-site: Inspection, testing and commission should be done before handover			
<b>Medical grade copper piping</b>	<ol style="list-style-type: none"> <li>1. The copper tube should be type k &amp; L</li> <li>2. Printed on the copper piping: Medical grade copper piping</li> </ol>			

Category	Requirement	Meet requirement?	Type of supporting documents	Comments
	Diameter [mm] EN 13348 (covered to be cleaned) Manufacturer, Year of production 3. Designating Ink Markings: Oxy, Med, Oxy/Med, Oxy/ACR or ACR/Med			
<b>Regulatory and Standards for pipelines</b>	Certificate of Quality Management System (either ISO 9001 or ISO 13485 with scope clearly defined)			
	ISO 7396-1: Medical gas pipeline systems — Part 1: Pipeline systems for compressed medical gases and vacuum Note: Statement of compliance to be provided by the company carrying out design and installation			
	ISO 9170-1: Terminal units for medical gas pipeline systems			
	EN 1412:1996 grade CW024A(Cu-DHP), and R290 for larger sizes of 76mm and above.			

Category	Requirement	Meet requirement?	Type of supporting documents	Comments
	EN 13348 Clean and Degrease (Covered)			
	BS EN 13348: Copper and copper alloys. Seamless, round copper tubes for medical gases or vacuum			
	BS EN 1057: Copper and copper alloys. Seamless, round copper tubes for water and gas in sanitary and heating applications (*n.b. this standard is used for dimensioning of piping)			
	EN 1254-1: Copper and copper alloys - Plumbing fittings - Fittings with ends for capillary soldering or capillary brazing to copper tubes			
	EN 1254-4: Copper and copper alloys - Plumbing fittings - Fittings combining other end connections with capillary or compression ends			
<b>Regulatory and Standards for medical devices</b>	Certified Quality Management Systems (ISO 13485)			
	Regulatory approval under SRA (CE under MDR or US FDA) for all medical devices included in the BOQ			

Category	Requirement	Meet requirement?	Type of supporting documents	Comments
	such as manifolds, terminal units, flowmeters, and humidifiers			
	ISO 10524-2: Pressure regulators for use with medical grade gases (for manifolds)			
	ISO 21969: High-pressure flexible connections for use with medical gas systems (for manifolds)	-	-	

### ANNEX A3: TECHNICAL SPECIFICATIONS FOR SEMI-AUTOMATIC MANIFOLD SYSTEM

**General description:**

Product	Category	Target Product Profile	Meet requirement?	Type of supporting documents	Comments
Semi-Automatic Oxygen Distribution Manifold	Description	The semi-automatic manifold control system shall comply to ISO 7396-1 – medical graded gas pipeline systems, and NHS Health Technical Memorandum HTM 02-01. The manifold shall be supplied fully assembled and factory tested.	N/A	N/A	
	Configuration	Configuration: The manifold system includes the following components to operate 2x 6 cylinders (left and right bank):			
		• High-pressure bank headers, each with:			



Product	Category	Target Product Profile	Meet requirement?	Type of supporting documents	Comments
		a high-pressure regulator, sensor and gauge (pressure displayed in both unit bar and psi)			
		primary pressure relief valve			
		a wall mounting bracket			
		• Automatic bank changeover			
		• Automatic changeover panel, complete with:			
		Alarm (audible and visual)			
		Status monitoring			
		• Cylinder connections			
		Flexible tailpipe with brass adaptors suitable for connection to bullnose 5/8 inch BSP (F) / BS 341			
		Safety check/non-return valves			
		• Secondary relief valve assembly comprising line pressure release valve and exhaust line			
		• Supply line isolation valve (lockable)			
		• Test point (medical gas terminal unit)			
		• Manifold shall be configured so that cylinders can be held in place, either by brackets or chains (zinc plated).			
	Electrical	All electrical components shall be in a separate enclosure to limit dust, water penetration, and simplify electrical connection with alarms.			
	PCBs shall be linked with plug and socket connectors for easy removal. For added safety the voltage inside the panel shall not exceed 24V D.C.				
	Power failure shall not disrupt the flow of supply.				

Product	Category	Target Product Profile	Meet requirement?	Type of supporting documents	Comments
	Operational Features	Semi-automatic manifold control shall include the following operational features:	N/A	N/A	
		• Adjustable manual and automatic working system			
		• Pressure indication in both headers and line, displayed in analogue on the gauge.			
		• Adjustable high- and low-pressure alarm status			
		• Alarms to be duplicated on a display and embedded panel with LEDs.			
		• Alarm signal to inform user to perform regular preventive maintenance.			
		• ‘Service Mode’ to manually override (deactivate) alarms during commissioning and service, as well as allowing manual operation selection of a duty bank.			
	Testing	The manifold should be suitable to withstand a nominal pressure of 230 bar.			
		Two stage regulators allow pressure drop lower than 10% on a flow up to 1,750 l/min at 4 bar			
		The manifold should be tested (hydraulically) to 400 bar pressure and to be supplied along with necessary test certificate.			
	Regulation and standards	Bears CE marking under MDR			
		Conforms with the most current of the following (or equivalent):	N/A	N/A	
		• HTM-02-01			
		• ISO 7396-1			
		Compliance with:	N/A	N/A	

Product	Category	Target Product Profile	Meet requirement?	Type of supporting documents	Comments
		<ul style="list-style-type: none"> <li>• ISO 13485: Medical devices quality management systems</li> </ul>			
		<ul style="list-style-type: none"> <li>• ISO 1524-2: Pressure regulators for use with medical grade gases</li> </ul>			


## ANNEX-A4FLOWMETER SPECIFICATION

Product	Spec category	Specs, WHO-UNICEF	Meet spec?
<b>Flowmeter, Thorpe tube, pressure compensated</b>	Technical	Device suitable for use with medical oxygen	
		Thorpe tube flowmeter type, contains inlet and outlet port, a flow regulator, a valve and a clear measuring tube	
		Flowmeters to measure and regulate flow from an already pressure-reduced and regulated oxygen source to the patient or other medical device	
		Pressure compensated flowmeters, calibrated at 345–380 kPa (3.4–3.8 bar, 50–55 psi) inlet gauge pressure.	
		Max gauge inlet pressure 690 kPa (6.9 bar, 100 psi).	
		Flow adjustment knobs to have rough surface to prevent slipping.	
		Flowmeters calibrated to the following flow range, all metric (specify):	
		0-3.5 L/min, accuracy 10%, dual taper graduations 0.25 L/min (0–1 L/min range) and 0.5 L/min (1 L/min – maximum range), or single taper graduations 0.25 L/min full range	
		0-15 L/min, accuracy 10%, dual taper graduations 0.5 L/min (0–5 L/min range) and 1 L/min (5 L/min – maximum range)	
		All minimum flowrates to be zero when fully closed	
		All graduations to be clearly visible for 270 degrees (most breadth for provider vantage points)	
		Inlet and outlet ports to be clearly specified and will in part be determined by use case (suitable for connection to centralized system, cylinders, concentrators, or compressors):	
Piped source inlet: Connection to a terminal unit / bedside unit (e.g. from a piped oxygen network . compatible with Terminal unit wall connection type: [MG-BS-13 O2			

Product	Spec category	Specs, WHO-UNICEF	Meet spec?
		Outlets: DISS (9/16 inch-18) male with “Christmas tree” barbed tubing adaptor	
		Flowmeter material:	
		Column to be transparent, clear, shatter-resistant, medical-grade polymer (polypropylene, polycarbonate)	
		Hardware/valves: Brass/steel/aluminum	
		All materials in contact with oxygen certified for medical use.	
		Internal parts (e.g. valve, inlet filter if present), replaceable by user.	
		Environmental	
		Capable of being stored in ambient temperature of at least 5–50 °C, relative humidity of at least 15–95% non-condensing.	
		Suitable for continuous operation in ambient temperature of at least 5–45 °C, relative humidity of at least 15–90% non-condensing.	
		Specific requirements for altitude may be required, depending on the installation site.	
		Disinfect able with hospital grade detergents.	
		Warranty	5 years (min. 2)
	QMS	ISO 13485 (medical device QMS)	
		ISO 14971 (application of risk management)	
	Regulatory	CE	
		FDA	
	Product performance standards	ISO 32 Gas cylinders for medical use — Marking for identification of content (or ANSI equivalent)	
		ISO 5359 Low-pressure hose assemblies for use with medical gases.	
		ISO 15001 Anaesthetic and respiratory equipment – Compatibility with oxygen.	
		ISO 15002 Flow-metering devices for connection to terminal units of medical gas pipeline systems.	
ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements.			
ISO 18082 Anesthetic and respiratory equipment – Dimensions of non-interchangeable screw-threaded (NIST) low-pressure connectors for medical gases.			
ISO 18562 Biocompatibility evaluation of breathing gas pathways in healthcare applications.			
Packaging	Name and/or trade mark and address of the manufacturer.		

Product	Spec category	Specs, WHO-UNICEF	Meet spec?
		Product name.	
		Product reference.	
		Type of product and main characteristics.	
		Performance testing information against the mentioned standards.	
		Lot number prefixed by the word "LOT" (or equivalent harmonized symbol).	
		Information for particular storage conditions (temperature, pressure, light, humidity, etc.), as appropriate (or equivalent harmonized symbol), if applicable.	
		Information for handling, if applicable (or equivalent harmonized symbol).	
		If the packaging is not transparent, it must bear a diagram (preferably actual size) showing the essential parts of the product and indicating the position of the product in the packaging.	
		Gross Weight.	
		Cubic Measurement.	
		All indicated at least in English.	

## ANNEX A5- HUMIDIFIER SPECIFICATION

Product	Spec category	Specs, WHO-UNICEF	Meet spec?
Humidifier	Technical  	Reusable humidifier for oxygen therapy and ventilation/anesthesia inspiratory lines.	
		Non-heated humidifier - ambient temperature functionality.	
		Bubble-through humidification system.	
		Unbreakable or shatter resistant.	
		Transparent humidification bottle	
		Graduated, graduation shall show minimum and maximum water level.	
		Humidification chamber working volume at least 150 mL, not greater than 500 mL.	
		Detachable metal or rigid durable polymer cap with gas connectors.	
		Pressure relief safety valve, $\geq 14$ kPa (0.1 bar, 2 psi) pressure rating.	
		DISS connectors for inlet.	

		6 mm barbed connector for outlet.	
		Flow rate capacity up to 15 L/min.	
		Must be capable of disinfection.	
		Materials, all to be certified for medical use:	
		·Cap and connectors made of brass/steel/other biocompatible metal or polymer	
		·Bottle and tubes made of polypropylene, polycarbonate or equivalent biocompatible plastic/polymer	
		·Pressure valve made of brass chromium plated or equivalent metal	
		Supplier must define decontamination procedure.	
	Warranty	Min. 1 year (ideal 2)	
	Standards	ISO 13485 (medical device QMS)	
	Regulatory	CE	
		FDA	
	Product performance standards	ISO 15001 Anaesthetic and respiratory equipment – Compatibility with oxygen.	
		ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements.	
		ISO 18562 Biocompatibility evaluation of breathing gas pathways in healthcare applications.	
		ISO 18562-1 Biocompatibility evaluation of breathing gas pathways in healthcare applications – Part 1: Evaluation and testing within a risk management process.	
	Packaging	Name and/or trade mark and address of the manufacturer.	
		Product name.	
		Product reference.	
		Type of product and main characteristics.	
		Performance testing information against the mentioned standards.	
		Lot number prefixed by the word "LOT" (or equivalent harmonized symbol).	
		Expiry date by year and month, prefixed by the word "EXP" (or equivalent harmonized symbol).	
		Information for particular storage conditions (temperature, pressure, light, humidity, etc.), as appropriate (or equivalent harmonized symbol), if applicable.	
		Information for handling, if applicable (or equivalent harmonized symbol).	
		If the packaging is not transparent, it must bear a diagram (preferably actual size) showing the essential parts of the product and indicating the position of the product in the packaging.	
		Gross Weight.	
		Cubic Measurement.	

## SECTION A4: OTHER RELATED REQUIREMENTS

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

<b>Delivery Term [INCOTERMS 2020] <sup>2</sup></b>	DDP
<b>Exact Address of Delivery/Installation Location</b>	
<b>Mode of Transport Preferred</b>	Choose an item.
<b>Preferred Freight Forwarder, if any<sup>3</sup></b>	
<b>Customs, if required, clearing shall be done by:</b>	
<b>Payment Terms</b>	
<b>Conditions for Release of Payment</b>	<input type="checkbox"/> Inspection upon arrival at destination <input type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
<b>All documentations, including catalogues, instructions and operating manuals, shall be in this language</b>	English

<sup>2</sup> Provide a Packing List with items, weights and dimensions per pallet (as applicable) as well as a Detailed Packing List with aggregate quantities per item, weights and dimensions as well as shipping conditions applicable to the items (i.e. temperature control, special instructions around loading, or hazardous goods declarations) and all batch numbers and quantities. Supplier is required to comply with packaging and shipping instructions related to the INCOTERM.

<sup>3</sup>A factor of the Incoterms stipulated in the IFB. The use of CHAI preferred freight forwarder may be considered for purposes of ensuring forwarder's familiarity with procedures and processing of documentary requirements applicable when clearing with customs authority of the country of destination.



## FORM A: BID SUBMISSION FORM

<b>Name of Bidder:</b>	[Insert Name of Bidder]	<b>Date:</b>	Select date
<b>IFB reference:</b>	<b>IFB-ETH-Unitaid-06 26-2022: Supply, installation, commissioning and after sales support of pipeline and manifold system in Ethiopia</b>		

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

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

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

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

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

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

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

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

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_ [Stamp with official stamp of the Bidder]

## FORM B: VENDOR/BIDDER DETAILS FORM

<b>Registered Company Name</b>	[Complete]
<b>Company Registration Number</b>	[insert vendor number]
<b>Year of registration</b>	[Complete]
<b>Area of Business (Mark “x” your area of business engagement in the box)</b>	<input type="checkbox"/> Manufacturer <input type="checkbox"/> Distributor <input type="checkbox"/> Other: [insert Area of business]
<b>Local address (HQ)</b>	[Complete]
<b>Phone</b>	Telephone number: [Complete]
<b>Contact person that CHAI may contact for requests for clarifications during Bid evaluation</b>	Name and Position: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Bidder’s Authorized Representative Information</b>	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Years in Business</b>	[Complete]
<b>Quality Assurance Certification (e.g., ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):</b>	[Complete]
<b>Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):</b>	[Complete]
<b>Countries of Operation: Previous export experience to target countries (please describe and list any relevant registrations, qualifications, licenses, attaching copies of each to IFB)</b>	[Complete]
<b>No. of trained and certified employees for plant installation (Plant installation is to be completed by trained and certified employee/contractors)</b>	[Complete]

<b>Client Portfolio</b>	[complete]
<b>Tax Identification Number</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, [insert tax identification number]
<b>Local Agent formally Registered in Ethiopia</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No  If yes, Name and Position: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Bid Security 2%, in Ethiopian Birr<sup>4</sup></b>	[complete]
<b>Please attach the following documents:</b>	<ul style="list-style-type: none"> <li>▪ Company Profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/or services being procured</li> <li>▪ Business Registration</li> <li>▪ Tax Registration evidencing that the Bidder is updated with its tax payment obligations</li> <li>▪ Trade name registration papers, if applicable</li> <li>▪ Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any</li> <li>▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder</li> <li>▪ Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney.</li> <li>▪ Export Licenses, if applicable</li> <li>▪ Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country</li> </ul>

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<sup>4</sup> Birr is accepted only for CPO

## **FORM C: PREVIOUS RELEVANT EXPERIENCE**

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

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

<b>Project name &amp; Country of Assignment</b>	<b>Client &amp; Reference Contact Details</b>	<b>Contract Value</b>	<b>Period of activity and status</b>	<b>Types of activities undertaken</b>

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

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

## FORM D: FINANCIAL STANDING

<b>Annual Turnover for the last 3 years</b>	Year 2019	USD
	Year 2020	USD
	Year 2021 (to date)	USD
<b>Latest Credit Rating (if any), indicate the source</b>		

<b>Financial information</b> (in US\$ equivalent)	<b>Historic information for the last 3 years</b>		
	Year 1 (2019)	Year 2 (2020)	Year 3 (2021 to date)
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

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

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

## FORM E: FORMAT OF TECHNICAL BID

<b>Name of Bidder:</b>	[Insert Name of Bidder]	<b>Date:</b>	Select date
<b>IFB reference:</b>	[Insert IFB Reference Number]		

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

### SECTION 1: Bidder's qualification, capacity and expertise

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

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

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

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

## FORM F: SCHEDULE / FINANCIAL PROPOSAL FORM

<b>Name of Bidder:</b>	[Insert Name of Bidder]	<b>Date:</b>	Select date
<b>IFB reference:</b>	[Insert IFB Reference Number]		

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

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

**Currency of the Bid:** [Insert Currency]

## FORM G: PRICE SCHEDULE/FINANCIAL PROPOSAL

Financial requirements	
Import/pre-import Grantee	

### Facility Name:

No.	Item/Spares list	Manufacturer	Brand	Model	Quantity	Unit Price	Amount (USD) <sup>5</sup>
1	Pipeline and manifold system materials (please list the major cost drivers)						
2	Cost of delivery to facility (shipping, inland transportation and other till final destination)						
3	Cost of installation, testing, and commissioning at facility						
4	Training for users and Biomedical technicians and engineers						
5	Warranty for one year						
6	After Sales Services after the warranty period						
<b>Sub total</b>							
<b>Total amount before Vat/TOT<sup>6</sup></b>							
<b>Grand total amount including Vat/TOT</b>							

Supplier is responsible for availability of all required spare parts in the local market after warranty period for a minimum of 2years with reasonable price as declared in the table below.

<sup>5</sup> All quotes for cost drivers should be given in USD/\$.

<sup>6</sup> VAT/TOT should be shown separately i.e., the cost before VAT or if not applicable to the item, it has to be indicated clearly.



## FORM H: FORM OF BID SECURITY

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

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To: CHAI

*[Insert contact information as provided in Data Sheet]*

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

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

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

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

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

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

### SIGNATURE AND SEAL OF THE GUARANTOR BANK

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

*[Stamp with official stamp of the Bank]*