



REQUEST FOR PROPOSALS (RFP) FOR THE INSTALLATION OF A 15HP DUPLEX MEDICAL GRADE COMPRESSOR FOR THE LEÓN BECERRA HOSPITAL IN THE CITY OF MILAGRO, ECUADOR

Summary of deadlines

Release request for proposals	August 15, 2023
Proposal Expiration/Last Proposal Submission Date	August 30, 2023 5pm EST

Clinton Health Access Initiative (CHAI) invites interested and capable organizations to submit proposals to install a 15HP duplex medical grade compressor (7.5 HP per-motor) for the León Becerra Hospital in the city of Milagro, Ecuador. A medical grade duplex compressor is a type of air compressor used in medical and hospital settings.

If you choose to submit your quote in response to this RFP, please electronically submit your submission to Rodrigo Valencia, COVID-19 Associate, South America, at rvalencia.ic@clintonhealthaccess.org before 5pm (EST) on Wednesday, August 30, 2023.

Questions related to this RFP should be sent to Rodrigo Valencia to the email mentioned above.



BACKGROUND

A. CLINTON HEALTH ACCESS INITIATIVE (CHAI)

Clinton Health Access Initiative, Inc. (CHAI) is a global health organization committed to saving lives and reducing the burden of disease in low- and middle-income countries, while strengthening the capacities of governments and the private sector in those countries. to create and maintain high-quality health systems that can succeed without our help. For more information, visit: www.clintonhealthaccess.org

B. THE PROGRAM: OXYGEN TECHNICAL ASSISTANCE

The first case of SARS-CoV-2 was registered in Latin America on February 26, 2020, when Brazil confirmed the presence of the virus in Sao Paulo, and since then, more than 46 million cases have been registered in the region. According to the statistics of the World Health Organization (WHO), in 2020, Latin America and the Caribbean was the region with the highest number of confirmed cases worldwide, representing a quarter of the total cases worldwide.

Latin America bore one of the highest burdens of COVID-19 in the world and its health systems are among the hardest hit by the pandemic. Despite initial progress in preparing for an emergency response, many countries in the region continue to experience difficulties in providing quality and timely care to patients. Documented gaps have included limited testing capacity, difficulty connecting the patient care pathway with a single information system, limited capacity to implement oxygen therapy, drug stockouts, ICU saturation, and delays in implementation of a vaccination strategy or limited access to vaccines.

Since July 2021, CHAI began supporting Ecuador and Guatemala with a new program focused on strengthening the medical oxygen technical capacity of those two countries. Under the new Oxygen Technical Assistance Program, financed by UNITAID, CHAI is working with the Ministries of Health in the prioritization of hospitals, in different departments of the aforementioned countries. Program interventions included: a) improvement of hospital infrastructure, b) training in clinical aspects of oxygen therapy and also in the prognosis of oxygen and related products, c) development of preventive and corrective maintenance programs for each of the hospitals prioritized, d) acquisition of health services supplies, among others.

C. TECHNICAL ASSISTANCE AT THE LEÓN BECERRA HOSPITAL



The Hospital Dr. León Becerra Camacho del Cantón Milagro, began its own functions of a health home, in which patients with yellow fever and other infectious-contagious processes, coming from places near the aforementioned canton, were cared for. Executive Decree of December 29, 1928, passed the administration of the hospital, to Public Assistance since January 10, 1929, in compliance with the Law issued in 1926, ceasing to be an isolation hospital to become a GENERAL HOSPITAL DR. LEON BECERRA CAMACHO OF THE MIRACLE CANTON.

The Vision of the Dr. León Becerra Camacho General Hospital for the year 2020 is to raise the quality of the administrative-care processes, through the Management of works, equipment necessary for the hospital services attended by the Community of the Cantón Milagro, being the patients the novice beneficiaries.

- Strengthening of the Services Portfolio
- Inauguration of the Tomography Service
- Articulation with Health Districts of Zone 5 of the Médico del Barrio strategy
- Inauguration of the Mental Health Room • Strengthening of the Physical Rehabilitation Service to care

The hospital keeps a SCHULZ air compressor, model CSV15, 120 PSI, 3HP, 250 liters, oil-free, out of operation. A SULLAIR model RN 15 air dryer with a capacity of 15 scfm of air.

In addition, there is a bank for 1x3 air cylinders (without high pressure hoses) as a reserve and with a double stage regulator 0-110 psig.

The project consists of strengthening the medical gas distribution system and the different components related to medical gases, at the León Becerra hospital. The installation of medical air equipment will allow the hospital to expand its capacity to care for patients, especially those with respiratory conditions that require critical care in intensive care and neonatology rooms, which in turn means an improvement in the quality of care for the population.

SN	Item Description	Unit	Quantity
			LEON BECERRA CAMACHO GENERAL HOSPITAL
1	Medical Air Compressor System	Set	
1.1	Medical Compressor	set	1
1.2	Medical air alarm panel plus electric works	Pieces	1
	Installation inclusive of team travel, room and board	Lump sum	
	[other]		

SCOPE OF WORK

This Request for Proposals (RFP) is intended to solicit competitive bids for the installation of a 15HP duplex medical grade air compressor for the León Becerra Hospital in the city of Milagro, Ecuador.

A. TECHNICAL SPECIFICATIONS

The following are the technical specifications that the supplier must meet for the Installation, materials and devices. Please download the technical specifications checklist (Excel sheet), complete and include in your application. If you are unable to Access this link, please contact us via rvalencia.ic@clintonhealthaccess.org and we will email the document to you.

Technical requirements for DUPLEX medical grade air compressor of 15h2 x 7.5hp

- Medical Compressed Air System, Oil Free, Duplex 7.5 HP (60Hz), 2 X 7.5 HP (60Hz) ^[SEP]
- Flow per module: 25 scfm @ 50 psig (60Hz) - 43 m3/hr @ 50 psig (60Hz) ^[SEP]
- System Flow: 25 scfm @ 50 psig (60Hz) - 43 m3/hr @ 50 psig (60Hz) ^[SEP]
- ASME 120 Gal Tank - Epoxy Lined, Horizontal Configuration ^[SEP]
- Double air treatment module: pre-filter, regenerative dryer, post-filter and pressure regulator. ^[SEP]
- Analog CO and Dew Point Monitor – Air Quality Analyzers ^[SEP]
- Control Panel (UL), NFPA with Touch Screen (NT), NEMA 4 (230V/3ph/60Hz) ^[SEP]

components	Generic Specifications
Model:	
Technical components	<ul style="list-style-type: none"> ○ Settings: <ul style="list-style-type: none"> ○ ≥ Duplexcompressor ○ Duty and standby dryer ○ Dashboard control <ul style="list-style-type: none"> ○ digital display ○ continuous operations ○ ethernet connection ○ Clearly visible in Spanish and/or preferred language of destination country, for at least: <ul style="list-style-type: none"> ▪ output pressure ▪ System status, including current maintenance need ▪ Cumulative hours of operation (digital or analog meter) ○ Air compressor (includes motor and sub-assembly) <ul style="list-style-type: none"> ○ Provides 100% system design flows with one compressor out of service ○ Feed air compressor, either oil-free or filtered oil-injected or oil-lubricated rotary screw-type, minimum 750 kPa [108 psi] ○ Noise: ≤97dBA ○ Dryer/filter/regulation system <ul style="list-style-type: none"> ○ Dessicant type dryer ○ Sized for 100% of system peak calculated demand ○ Pressure Dewpoint: -40 deg Celsius (-40 F)

	<ul style="list-style-type: none"> ○ Discharge pressure range: 345 kPa to 380 KPa [50-55 PSIG] ○ Includes dew point meter ○ Filter assembly to include dust filter (1 micron), duplex activated carbon filters, and duplex bacterial filter (0.01 micron). ○ Air receiver tank <ul style="list-style-type: none"> ○ Automatic drain
Power requirements	<ul style="list-style-type: none"> ○ Panel/operations: 120 V / 60 Hz (single-phase) ○ Compressor: 208 V / 60 Hz (3-phase)
Infrastructure requirements	<ul style="list-style-type: none"> ○ Manufacturer must indicate the following aspects to match infrastructure capabilities within facility: <ul style="list-style-type: none"> ○ Acceptable mains capacity, ○ Appropriate connection/adapters, ○ Compatibility with back-up power supply ○ Infrastructure requirements for operation: ○ Appropriate housing including roofing, ventilation, air conditioning (if necessary), a clean room without oil, grease and petroleum-based or other flammable products.
environmental considerations	<ul style="list-style-type: none"> ○ Operating temperature and humidity: 10–40 °C, 15–95% RH ○ Suitable for function at elevation of 2,560 meters ASL (8399 ft)
documentation	<ul style="list-style-type: none"> ○ Provision of hard and soft copies of the following documents: <ul style="list-style-type: none"> ○ Certificate of quality, calibration, and inspection ○ User manual, detailing <ul style="list-style-type: none"> ▪ Protocols for operations ▪ List of procedures and equipment required for cleaning ▪ List of procedures and equipment for preventive maintenance ▪ Troubleshooting chart ○ Contact details of manufacturer, and authorized distributors (if applicable), and local service agents ○ Product and model reference (brochure)
Installation, testing, commissioning	<ul style="list-style-type: none"> ○ Pre-shipment: Certificate of quality, calibration, and inspection ○ On-site: <ul style="list-style-type: none"> ○ Installation to include training on start-up, use, and maintenance ○ Inspection, testing and commission should be done before handover. ○ Verification to include: <ul style="list-style-type: none"> ○ Pressure levels ○ Electrical system functionality, alarms functionality ○ If possible, conformity of installation shall be verified by a certified third party. Otherwise, alternative verification process to be agreed upon between vendor and owner.
Warranty	<ul style="list-style-type: none"> ○ 2 years
Specifications & guidelines	<ul style="list-style-type: none"> ○ In the absence of national guidelines or standards, the following should be used to support with system planning and/or design: <ul style="list-style-type: none"> ○ Guidelines <ul style="list-style-type: none"> ▪ HTM-02-01 or NFPA 99 ○ standards <ul style="list-style-type: none"> ▪ ISO 7396-1 ○ Design, manufacture, and installation shall be carried out by specialist firms certified ISO 9001 and/or ISO 13485, with the scope of registration appropriately defined.
Regulatory	<ul style="list-style-type: none"> ○ Medical air produced shall meet the requirements of an SRA pharmacopoeia (eg, Ph Eur, USP). ○ Meets NFPA 99 or HTM 02-01 requirements for product output stream.

Component specific performance standards (or equivalent)	<ul style="list-style-type: none"> ○ ISO 8573-1: Compressed air – Part 1: Contaminants and purity classes. ○ ISO 8573-2: Compressed air – contaminant measurement – Part 2: Oil aerosol content. ○ ISO 8573-4: Compressed air – contaminant measurement – Part 4: particle content. ○ ISO 7396-1: Medical gas pipeline systems ○ All pressurized vessels to be: <ul style="list-style-type: none"> ○ Designed according to PED or ASME VIII, or equivalent. ○ Certified PED or ASME III, or equivalent. ○ Cleaned according to ISO 15001 ASTM G93, or equivalent.
Service level agreement	<ul style="list-style-type: none"> ○ 24 months ○ Provide: <ul style="list-style-type: none"> ○ training schedule ○ training content ○ Schedules for planned preventive maintenance (PPM) ○ Define corrective maintenance, including repair agreements, delineating what falls out of warranty ○ Provide time for response ○ Provide time for availability of critical spares ○ Origin and/or warehouse location of spares

APPLICATION TO THE PROJECT

CHAI's Oxygen Technical Assistance Program evaluated the Hospital's need for medical air in its critical care units and analyzed possibilities with the Hospital's technical staff to install new equipment and services. The evaluations have included the current infrastructure, the types of care offered and the technical capacity of the staff. However, there are specific considerations about the installation of the equipment that must be evaluated by the suppliers and consider compliance with all standards in the areas where the equipment will be installed.

To apply to this RFP, applicants must provide (1) a completed application form (Sections 1 and 2); and (2) a complete budget template (collectively "Materials"). Completed applications will be reviewed and agreed between the CHAI afterwards. Proposed budgets should not exceed USD \$55,000 and proposed delivery times should not take more than 2 months to implement.

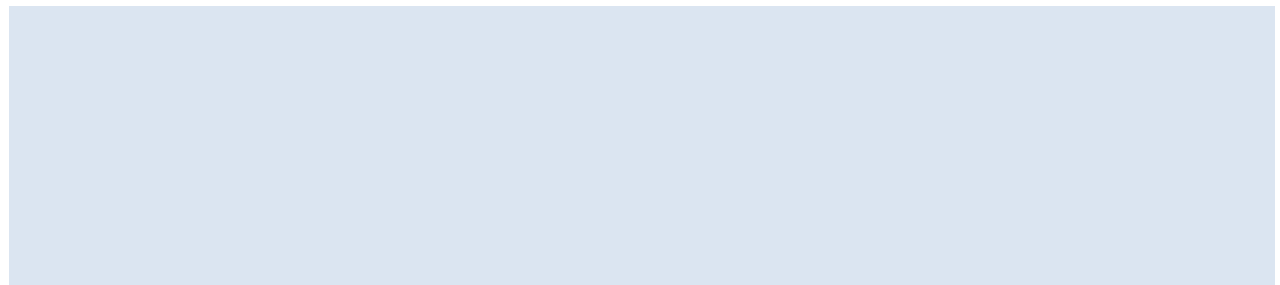
SECTION 1: BENEFICIARY INFORMATION

- 1. Name of the beneficiary organization:**

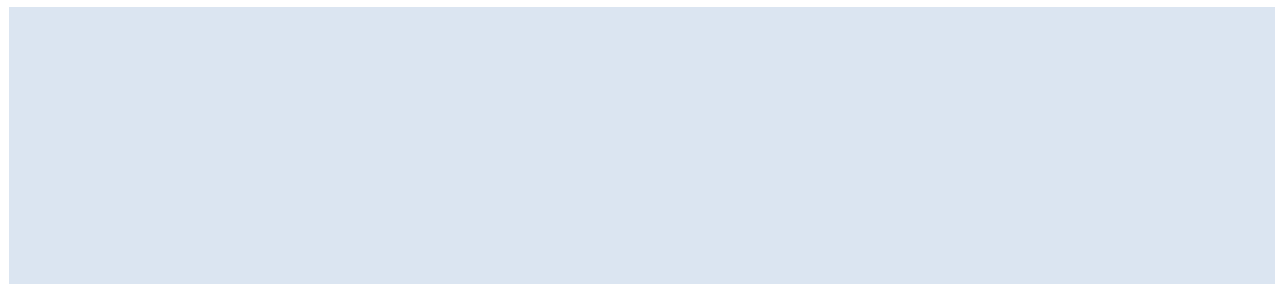
- 2. Contact information (include contact name, address, phone number, and email):**
- 3. Total budget requested:**

- 4. Commercial references:**

- 5. Provide a brief description of the organization.**



- 6. Provide information on experiences related to the work area.**

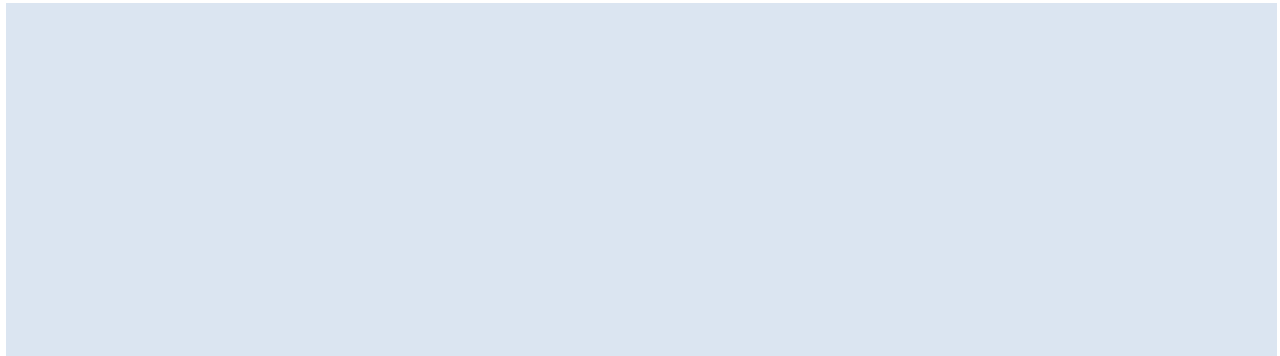


SECTION 2: PROJECT INFORMATION

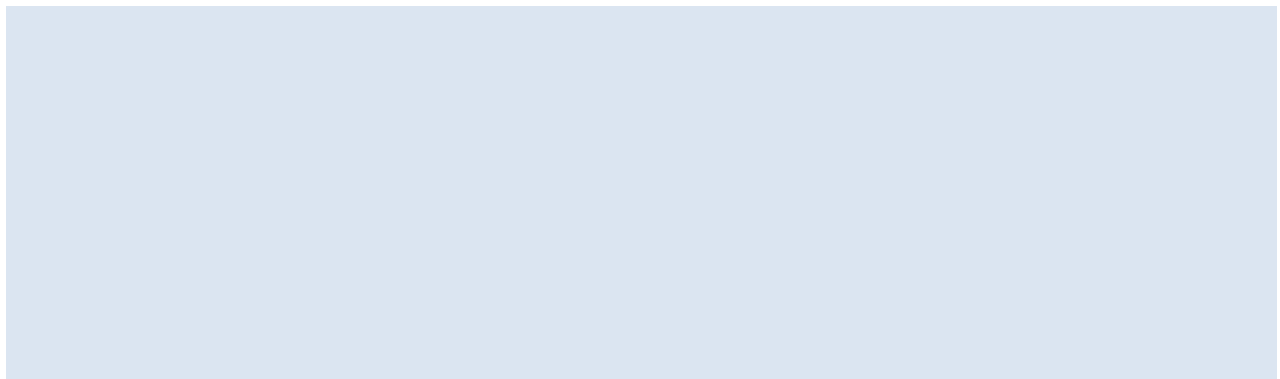
1. Description of the project and deliverables
2. Major activities with due dates and deliverable schedule (make sure the activities shown here match the activities shown in the budget template):

Activity(s) / Deliverables	Description	Estimated date of completion

3. How will this project contribute to the optimization of oxygen delivery to patients in the country or to what extent will it contribute to improving it?



4. How will you carry out the project within the indicated time frame? If the project is urgent (for example, funding must be ready before the XX date to achieve the proposed results), please indicate it here.



OFFER ELIGIBILITY AND QUALIFICATION

ELIGIBILITY

The RFP is open to companies that meet the following criteria:

Certificate

- ISO9001:2015
- NFPA-99 (National Fire Protection Association)
- NITC (Inspection Test Certification).
- ASSE (American Society for Sanitary Engineering).
- DOT (Department of Transportation) of the United States of America
- ASTM (American Society for Mechanical Engineering)
- ASSE 6020 (Inspectors of Medical Gas Systems) endorsed by NFPA and NITC.
- ASSE 6010, (Medical Gas Systems Welder and Installer) endorsed by NFPA and NITC,

Suppliers will agree to establish a temporary project team structure that includes the participation of CHAI, as well as arrange regular meetings (in person or via telecommunications) and on-site when necessary.

CIVIL WORK:

Bidders must evaluate and include in the offer the civil works that involve the installation, adaptation and start-up of the equipment, as well as the soil studies that guarantee the safety of the facilities. The standards and regulations of the national control agencies must be considered and included in the offer.

ELECTRICITY:

Bidders must include in the offer the electrical adaptations that they must incorporate within the Hospital for the start-up of the equipment and that its operation be immediate.

TRAINING:

The proposal must include a training program for the use and maintenance of the equipment for Hospital personnel.

QUALIFICATION OF OFFERS

Bid qualification criteria:

- a. The determination of the qualifications for the selection of the winning offer will be made according to the criteria described in the following table:

CRITERIOS	PUNTOS
Tiempo de entrega	10
Apoyo técnico	20
Garantía	30
Precio	40

DELIVERY TIME

The offer that presents the shortest delivery time in business days for Installation and delivery of accessories will automatically obtain ten (10) points; the other offers will have a rating inversely proportional to the first one, according to the value of its offer. For which the following formula should be taken:

$$\frac{\text{Shortest delivery time offered} \times 10}{N\text{-value}}$$

Value N = Delivery period of the offers to qualify (in business days).

TECHNICAL SUPPORT:

Documents that prove the technical skills of the personnel that will execute the installation, binding certifications, including curriculum, photocopies of diplomas, certificates and / or certifications that guarantee the competence in this type of service, in the last 10 years to the date of presentation. of the offers.

For the qualification, the BOARD will assign twenty (20) points according to the documents that support the competence of the technicians presented by the BIDDER, according to the following formula:

$$\frac{NX \text{ value } 20}{\text{Largest number of records}}$$

Value N = Evidence to qualify.

Warranty:

The offer that presents the highest guarantee will automatically obtain thirty (30) points; the other offers will have a rating inversely proportional to the first one, according to the value of its offer. For which the following formula should be taken:

$$\frac{\text{Lowest Warranty Offered} \times 30}{N\text{-value}}$$

Value N = Guarantee of offer to qualify.

PRICE:

The offer with the lowest price will automatically obtain forty (40) points; the other offers will have a rating inversely proportional to the first one, according to the value of its offer. For which the following formula should be taken:

$$\frac{\text{Lowest Price Offered X 40}}{\text{N-value}}$$

Value N = Offer price to qualify.

OTHER INFORMATION

Failure to provide all information required by the RFP or submitting a bid that does not respond to the RFP in all respects will be the responsibility of the bidder and may result in bid rejection or disqualification.

CHAI shall have the right to seek any additional information or documents from the Bidder in the manner it deems appropriate in its sole and absolute discretion.

The offer prepared by the bidder, as well as all correspondence and documents related to the offer exchanged between the bidder and CHAI will be written only in the Spanish language. However, in case the bidder chooses to attach certain supporting documents in any language other than Spanish, the bidder must also attach certified/true translated copies thereof in English. Any document that is not translated into Spanish will not be considered and the offer will be considered incomplete and therefore subject to disqualification.

All prices quoted in the offer will be quoted in US dollars.

CHAI will review bids to determine if they are complete, meet all RFP conditions, and if documents have been properly signed and bids are generally in order. If there is a discrepancy between words and figures, the amount in figures may be used as the prevailing amount.

Disclaimer

Distribution of this document does not mean that CHAI is committing to award a contract or fund an applicant.

CHAI will not reimburse or assume any costs associated with this RFP regardless of whether an organization is selected to supply.

Please note that no fee is required to submit these requests.

CHAI makes no representation or warranty and will not incur any liability under any law as to the accuracy, reliability or completeness of the information contained in the RFP.

confidentiality

Information that the Responder considers proprietary must be clearly marked as such. All such information will be treated confidentially and used by the CHAI team for evaluation purposes only.