Request for Proposals (RFP)
SUPPLY, DELIVERY AND INSTALLATION OF STORAGE STRUCTURES AND BINNING, FENCING AND GATES, BATTERY BAY EQUIPMENT AND SUPPLY, DELIVERY, COMMISSIONING AND TRAINING FOR MATERIALS HANDLING EQUIPMENT FOR THE MEDICAL STORES WAREHOUSE IN CHOMA IN ZAMBIA

RFP Number: RFP-ZMB-MHE2017-01
Description: Medical Stores Ltd (MSL) is currently constructing new warehouses in Choma town in Zambia. The warehouses will cater for the distribution of pharmaceutical products, for which there are requirements for Narrow Aisle Storage Structures, Flow Rack Picking system, Small parts binning, Material Handling Equipment, Battery Bay Equipment and Ancillary Products described herein.

This RFP is for Supply, Delivery and Installation of stacked pallet racking and shelving system, Battery Bay equipment, Fencing and Gates, and Supply, Delivery, Commissioning and Training for Materials Handling Equipment (MHE), for the MSL Warehouses in Choma town in Zambia.

For: GHSC-PSM/Zambia
Contracting Entity: Chemonics International, Inc. (Chemonics)
Funded by: United States Agency for International Development (USAID),
Contract No. AID- OAA-I-15-00004;
Contract No. AID-OAA-TO-15-00007 (Task Order 01);
Contract No. AID-OAA-TO-15-00009 (Task Order 02);
Contract No. AID-OAA-TO-15-00010 (Task Order 03).

Place of Performance: Choma Town, Zambia
Release Date: October 31, 2017
RFP Issue: No. 1
Questions Due: November 6, 2017
Bidders’ Conference: November 9, 2017
Proposals Due: November 20, 2017

Please submit your proposal for the services described herein in accordance with the instructions to Offerors and terms and conditions of this RFP. This RFP includes the following sections and attachments:

1. INSTRUCTIONS TO OFFERORS
2. SCOPE OF WORK

ATTACHMENT A  LETTER OF TRANSMITTAL
ATTACHMENT B  REQUIRED CERTIFICATIONS
ATTACHMENT C  EXAMPLE BANK GUARANTEE FOR PERFORMANCE SECURITY
ATTACHMENT D  SCHEDULE OF VALUES
ATTACHMENT E  WAREHOUSE PLAN, SECTIONS AND FLOOR LOADS – CHOMA WAREHOUSE COMPLEX
ATTACHMENT F  FUNCTIONAL AND TECHNICAL REQUIREMENTS – STORAGE SYSTEMS AND BINNING
ATTACHMENT G  FUNCTIONAL AND TECHNICAL SPECIFICATIONS – MATERIALS HANDLING EQUIPMENT
ATTACHMENT H  FUNCTIONAL AND TECHNICAL SPECIFICATIONS – BATTERY BAY EQUIPMENT
ATTACHMENT I  FUNCTIONAL AND TECHNICAL SPECIFICATIONS – MISCELLANEOUS
ATTACHMENT J  ENVIRONMENTAL MITIGATION & MONITORING PLAN (EMMP)
<table>
<thead>
<tr>
<th>ACRONYMS</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIDAR</td>
<td>Agency for International Development Regulations</td>
</tr>
<tr>
<td>BOQ</td>
<td>Bill of Quantities</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CO</td>
<td>USAID Contracting Officer</td>
</tr>
<tr>
<td>COP</td>
<td>Chief of Party</td>
</tr>
<tr>
<td>COR</td>
<td>USAID Contracting Officer Representative</td>
</tr>
<tr>
<td>FAR</td>
<td>Federal Acquisition Regulations</td>
</tr>
<tr>
<td>MSL</td>
<td>Medical Stores Limited</td>
</tr>
<tr>
<td>PFW</td>
<td>Prefabricated Warehouse</td>
</tr>
<tr>
<td>RFP</td>
<td>Request for Proposals</td>
</tr>
<tr>
<td>SOW</td>
<td>Statement of Work</td>
</tr>
<tr>
<td>USAID</td>
<td>United States Agency for International Development</td>
</tr>
</tbody>
</table>
SECTION 1: INSTRUCTIONS TO OFFERORS

1.1 Introduction

Chemonics International Inc., duly registered and authorized to conduct business in Zambia and as Prime Contractor for the GHSC-PSM/Zambia requests proposals for:
The supply and installation of pallet racking and shelving systems, supply of materials handling equipment, battery bay equipment and all other required items described in this RFP for an MSL warehouse currently under construction in Choma, the provincial headquarters of Southern Province of Zambia.

1.2 Offer Deadline

Offers must be received in hard and soft copy no later than 17:00 hours local Lusaka time on November 20, 2017 at the following address:

Chemonics International Inc.
Plot 2473, 1st Floor Metropolitan House off Kelvin Siwale Road, Mass Media, Lusaka, Zambia
Attention:
Luckson Sichamba

Late offers will be considered at the discretion of the Chemonics evaluation committee.

1.3 Protocol for Submission of Offers and Required Documents

Offerors are responsible for ensuring that their offers are received in accordance with the instructions stated herein.

All offers must be prepared in English. Any resultant subcontract will be issued in English and the English language will govern. All proposals must be submitted in two volumes, consisting of:

- Volume 1: Technical Volume (See Section 1.6)
- Volume 2: Cost Volume (see Section 1.7)

These volumes must be submitted in separate, sealed envelopes. Three (3) hard copies—one original and two copies—of each volume must be included in each envelope. Offerors are also required to submit one (1) electronic version of each volume on a CD-ROM. Each envelope must be clearly marked with the RFP number (RFP-ZMB-MHE2017-01), the complete legal name and contact information of the offeror’s organization, and the delivery address found below.

Upon delivery, applicants will be issued a stamped receipt confirming timely submission.

Each offeror may submit only one proposal, either individually or as a partner in a joint venture. An offeror who submits or participates in more than one proposal shall cause all the proposals with that offeror’s participation to be disqualified.
1.4 Questions and Clarifications

All questions and/or clarifications regarding this RFP must be submitted via email to PSMZambiaProcurement@gmail.com no later than 17:00 hours local Lusaka time on November 6, 2017. All correspondence and/or inquiries regarding this solicitation must reference the RFP number in the subject line. No phone calls or in-person inquiries will be entertained; all questions and inquiries must be in writing.

Questions and requests for clarification—and the responses thereto—that Chemonics believes may be of interest to other Offerors will be circulated to all RFP recipients who have indicated an interest in bidding.

Only the written answers will be considered official and carry weight in the RFP process and subsequent evaluation. Any verbal information received from a Chemonics or GHSC-PSM/Zambia employee or other entity shall not be considered as an official response to any questions regarding this RFP.

1.5 Site Visit and Offeror’s Conference

There is no mandatory visit to the respective sites in this RFP, however, Offerors may visit the sites at their own convenience and expense. Offerors wishing to visit any site will have to make prior arrangements with Chemonics giving at least three days’ notice.

A pre-bid conference shall be held via conference call on November 9, 2017 at 9:30am. The pre-bid conference will provide prospective Offerors an opportunity to familiarize themselves with the needs of the stores.

Attendance at the Offeror’s Conference is not mandatory but Offerors are encouraged to participate. Upon receipt of an award, the Offeror waives any claim arising from any errors, inconsistencies or ambiguities, that the Offeror or any person or entity working with or under the Offeror on the contract became aware of, or should have reasonably become aware of, prior to Offeror’s submission of its proposal.

For Offerors not resident in Zambia, provision will be made for Skype calls on the day and timing of the conference and the information of Skype addresses will be communicated to those potential Offerors.

The pre-bid conference minutes, and any further enquiries received on or before the deadline stated in the RFP, will be documented and posted on the designated Chemonics website. No inquiries will be accepted after 5 working days prior to the deadline for submission of bids stated in the RFP.

1.6 Technical Volume

The Technical Volume should describe in detail how the offeror intends to carry out the requirements specified for the works and other services as described in this RFP. The technical volume should demonstrate a clear understanding of the work to be undertaken and the responsibilities of all parties involved. The technical volume should be organized by the evaluation criteria listed in Section 1.13. The offeror should include details on personnel, equipment, and Offerors who will be used to carry out the required
activities. The following documents must be included in the Technical Volume (failure to submit all of the following documents may result in disqualification from award):

- Completed Letter of Transmittal (see Attachment A)
- Completed Required Certifications (see Attachment B)
- Project Methodology (see below)
- Environmental Compliance plan (see below)
- Design documents and technical specifications
- Draft Work Plan (see below)
- CVs of Key Personnel (see below)
- Information on Past Performance (see below)
- Copy of official license of legal registration in Zambia

**Project Methodology and Technical Solution:** Using the information contained in this RFP, the offeror should describe its approach for executing racking and shelving supply and installation (design review, procurement & temporary storage, fabrication, and installation) and technical and performance information for the supply of the material handling equipment and other miscellaneous items as described in this RFP, in as much detail as necessary, for a successful outcome. The methodology and technical solution proposed by the offeror shall meet recognized international industry standards, all relevant Zambian Standards and be cost efficient while taking into consideration the project’s location and availability of materials and equipment. The methodology section should also include an outline of the offeror’s approach to Quality Control and Quality Assurance (with description of testing and inspections), Safety Plan as well as compliance with the USAID/Zambia Environmental Regulations. The methodology section shall include a detailed schedule demonstrating that all works described in this RFP shall be complete and accepted by Chemonics’ currently estimated completion date of November 30, 2018.

**Design Documents and Technical Specifications:** The offeror is directed to Section 2 Scope of Work of this RFP and the relevant Attachments for design documents and specifications.

**Environmental Compliance:** The offeror must provide an environmental implementation plan that complies with the provisions of the USAID-approved Environmental Mitigation & Monitoring Plan for the GHSC-PSM global project which is linked in Attachment K. The Offeror’s environmental implementation plan shall follow the provided template, as linked in Attachment K.

**Draft Work Plan:** The draft work plan for the proposed services shall be submitted in the form of a Gantt chart and shall provide a step by step process for executing every phase of the work in the most efficient manner. All work described in this RFP must be completed and accepted by Chemonics by March 1, 2018.

**Key Personnel:** The offeror should demonstrate that professional staff with extensive experience is available to oversee and carry out the scope of work. The professional staff deemed as Key Personnel shall be fully available throughout the duration of the subcontract and shall not be replaced without prior written consent of Chemonics. The Technical Volume should include CVs for the following required key personnel:

- Project Manager,
- Certified Professional Structural Engineer
- Certified Professional Installer-Racking and Shelving
- Quality Assurance Specialist
- Qualified personnel for operations and training of material handling equipment and other items as described in the Scope of Works

The Technical Volume should also include an organizational chart with the roles and availability of each proposed staff for this project. It is expected the awardee would work with local Zambian professionals and certified engineers to ensure consistency with applicable local regulations.

**Past Performance:** The Technical Volume should include information on past performance, briefly describing at least three (3) recent contracts of similar scope and duration. It is not the intent of this RFP to solicit an overly long response but it is important that the offeror’s experience/expertise be adequately described. The information supplied must include the legal name and address of the organization for which services were performed, a description of the work performed, the duration of the work and size (in USD) of the contracts, a description of problems encountered in the performance of the work and actions taken to resolve them, and the contact information (current telephone number and email address) of a responsible representative of the contracting organization. Chemonics may use this information to contact representatives on prior contracts to obtain feedback on performance. Failure to submit complete and accurate information regarding previous similar or related contracts or subcontracts is grounds for disqualification from award. Any offer not including this information will be accepted at the discretion of the evaluation committee.

There is a 20 page limit to the Technical Volume. This page limit does not include the following documents:
- Completed Letter of Transmittal (see Attachment A)
- Completed Required Certifications (see Attachment B)
- Environmental Compliance Plan*
- CVs of key personnel
- Draft work plan
- Sketches, catalogue cut sheets and/or drawings

1.7 Cost Volume

The Cost Volume is used to establish the best value among proposals and serves as a basis of negotiation for the signing of the subcontract. The Cost Volume must include a detailed budget as well as a budget narrative which explains the basis for the estimate of each budget element. Supporting information should be provided in sufficient detail to allow a complete analysis of each cost element. The Cost Volume shall also include the costs for any materials, survey, and geotechnical testing and analysis required to complete the development of the design documents. Taxes or fees are not to be added later. Offers must show level of effort, materials, quantities, and total price. All items, services, etc. must be clearly labeled and included in the total price. Quotations must be a firm fixed-price, expressed in USD. All Offerors shall use the attached Schedule of Values (Attachment D) with itemized cost detail supporting schedules as the basis for the preparation of the detailed budget. The completed Schedule of Values and supporting schedules shall be submitted with the Cost Volume.
The anticipated contract type for this procurement will be a firm fixed-priced subcontract. Please note that the inclusion of separate line items for any indirect costs or fees will not be permitted. As such, it is expected that each offeror will provide comprehensive total values for each component inclusive of any/all indirects and fees.

1.8 Performance Guarantee

Within 7 (seven) calendar days after execution of this subcontract, the successful offeror shall deliver to Chemonics a performance guarantee in the amount of 10% of the subcontract amount in the form of an official bank guarantee or a check. The bank guarantee or check shall be issued by a reputable bank licensed to do business in Zambia. The format of the bank guarantee shall be as indicated in Attachment C. This Guarantee shall be valid until a date 28 days from the date of issue of the Certificate of Substantial Completion.

1.9 Authorized USAID Geographic Code

All goods and services offered under this order must meet USAID Geographic Code 935 (Special Free World) requirements detailed in the Code of Federal Regulations (CFR), 22 CFR §228 and the Automated Directives System (ADS), ADS Chapter 260.

No items, items with components from, or related services may be offered from the following countries: Cuba, Iran, North Korea, and Syria. Related services include incidental services pertaining to any/all aspects of this subcontract (including transportation, fuel, lodging, meals, and communications expenses).

1.10 Eligibility of Offerors

This RFP is open to all qualified Offerors who submit a proposal that meets the requirements in accordance to this RFP.

In accordance with Federal Acquisition Regulation Clause 52.209-6, “Protecting the Government’s Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment,” (SEP 2006), all Offerors must certify that they are not debarred, suspended, or proposed for debarment. Chemonics will not award a subcontract to any firm or firms’ principals who are debarred, suspended, or proposed for debarment, or who proposes to do business with firms or firms’ principals who are debarred, suspended, or proposed for debarment, in the performance of the requirement of this activity.

1.11 Validity Period

Offers must remain valid for at least sixty (60) calendar days after the offer deadline.

1.12 Negotiations

Best offer quotations are requested. It is anticipated that awards will be made solely on the basis of these original quotations. However, Chemonics reserves the right to conduct negotiations and/or request clarifications prior to awarding a subcontract. Chemonics reserves the right to make multiple awards if it is in the best interests of the GHSC-PSM/Zambia program.

1.13 Basis for Award
Chemonics intends to award a subcontract resulting from this solicitation to the responsible offeror whose proposal represents the best value to the GHSC-PSM/Zambia program after evaluation of the following criteria, with the weights applied accordingly:

- **Proposed Methodology and Technical Solution 25 Points**
  The offeror shall be evaluated on the overall understanding of the scope of work. Specifically, the offeror shall be evaluated on how realistic the proposed technical solution is in completing projects on schedule and meeting delivery guidelines. This technical solution shall integrate design methodology, procurement process, assembly methods, techniques, project scheduling, and project management to deliver the required scope of work with the highest construction quality. Special consideration shall be given to the offeror’s ingenuity, creativity, and use of sound engineering principles in its proposed solutions. The offeror’s proposal shall include a draft work plan providing a step by step process for executing every phase of the work in the most efficient manner.

- **Cost 25 Points**
  The cost proposal is used to determine which proposals represent the best value and serves as a basis of negotiation before award of a subcontract. The price of the subcontract to be awarded will be an all-inclusive fixed price. No profit, fees, taxes, or additional costs can be added after award. Nevertheless, for the purpose of the proposal, Offerors must provide a detailed budget showing major line items, e.g. salaries, allowances, travel costs, other direct costs, indirect rates, etc., as well as individual line items, e.g. salaries or rates for individuals, different types of allowances, rent, utilities, insurance, etc. Offers must show unit prices, quantities, and total price. All items, services, etc. must be clearly labeled and included in the total offered price. All cost information must be expressed in USD. The cost proposal shall also include a budget narrative that explains the basis for the estimate of every cost element or line item. Supporting information must be provided in sufficient detail to allow for a complete analysis of each cost element or line item. Chemonics reserves the right to request additional cost information if the evaluation committee has concerns of the reasonableness, realism, or completeness of an offeror’s proposed cost.

Under no circumstances may cost information be included in the technical proposal. No cost information or any prices, whether for deliverables or line items, may be included in the technical proposal. Cost information must only be shown in the cost proposal.

- **Key Personnel 20 Points**
  The offeror’s key personnel shall be evaluated on the experience of the team members with similar projects. In particular, special consideration will be given to a well experienced project manager and quality assurance specialist.

- **Past Performance and Experience 20 Points**
  The offeror shall be evaluated on the experience the firm has with related projects of similar scope and size. In particular, special consideration shall be given to firms having executed such projects in Zambia or nearby countries. The references listed by the offeror shall be contacted to complete a survey.
• **Proposed Schedule of Implementation** 10 Points
  Due to the nature of this project, time is of the essence. All works described in this RFP must be complete and accepted by Chemonics by March 1, 2018. Special consideration shall be given to the Offerors with an aggressive but realistic timeline for completing each phase of the scope of work as well as the overall implementation plan that meets the desired goals stated herein. A detailed draft work plan shall be included in the offeror’s technical volume.

Once the evaluation of offers is completed based on theabove criteria, the Cost Volume will be used in conducting the best value analysis. The combined technical factors above are more important than cost or price. However, Chemonics will not select an offer for award on the basis of a superior technical proposal without considering cost. Cost will be evaluated based on cost reasonableness, allowability, and realism. A technical/cost trade-off analysis will be performed by Chemonics in order to determine the best value to the project.

1.1 **Terms and Conditions of Subcontract**

Issuance of this solicitation does not in any way obligate Chemonics to award a subcontract, nor does it commit Chemonics to pay for costs incurred in the preparation and submission of a proposal.

This solicitation is subject to the Fixed-Price Subcontract Terms and Conditions detailed in Section 3. Any resultant award will be governed by these terms and conditions. Chemonics reserves the right to make minor revisions to the content, order, and numbering of the provisions in the actual subcontract document to be executed by Chemonics and the selected awardee.

1.15 **Protests**

Please note that in submitting a response to this solicitation, the Offeror understands that USAID is not a party to this solicitation and the offeror agrees that any protest hereunder must be presented—in writing with full explanations—to Chemonics International for consideration, as USAID will not consider protests made to it under USAID-financed subcontracts. Chemonics, at its sole discretion, will make a final decision on the protest for this procurement.
SECTION 2: SCOPE OF WORK

A. OBJECTIVE

Chemonics International, implementing the USAID Global Health Supply Chain program – Procurement and Supply Management (GHSC-PSM), seeks offerors to provide warehouse material handling equipment and kitting equipment for an existing warehouse in Choma, Zambia. In addition, successful offerors shall provide design layouts and kitting plans for the materials and equipment. GHSC-PSM endeavors to provide uninterrupted supplies of health commodities in support of United States Government (USG) funded public health initiatives in Zambia as well as supporting storage infrastructure improvements for improved commodity security. As part of these efforts, GHSC-PSM is supporting the completion of the kitting for a warehouse in Choma to become fully operational.

The intent of this document is to provide interested Offerors with sufficient information to enable them to prepare and submit a proposal that answers GHSC-PSM’s need.

Offerors are alerted to the fact that the MSL warehouse in Choma is currently being constructed under a separate project managed by MSL and the United Nations Development Program (UNDP). Attachment E contains schematic design drawings and floor loadings that were part of the tender documents for the UNDP contract. The warehouses and associated civil works are being constructed on a design-build basis. Final detailed design drawings and specifications approved for construction were not available at the time of the release of this RFP. When the detailed drawings and specifications are available to Chemonics, an Addendum will be issued to Offerors that have expressed interest in this RFP. No representations are made in this RFP regarding the as-built conditions at the two warehouses, especially in regards to floor levelness, column placement and concrete strength. Offerors shall include in their pricing all necessary tests and surveys to ensure that the systems provided under this RFP do not exceed the as-built capacity of the warehouses.

The work to be performed under this subcontract shall consist of the following: providing all tools, equipment, materials, supplies, and manufactured articles; furnishing all labor, transportation, engineering, surveying, design and services, including testing, shipping, fuel, power, water, and essential communications; and performing all work or other operations required for the fulfillment of the subcontract. The work shall be complete, and all work, materials, and services not expressly indicated or called for in the Scope of Work which may be necessary for the completion of the work in good faith shall be provided by the Offeror. The Offeror shall be responsible for ensuring the procurement, shipping, customs clearance, assembly, and all associated works with the stacked pallet racking and shelving, MHE, battery bay equipment, fencing and gates and all other works and services described in this RFP in Choma town, Zambia.

A.1 SCOPE OF WORK

The works to be performed include the following:

Implementation Plan
The Offeror shall be responsible for the development of a detailed Implementation Plan for provision of all of all the items as listed in Section 2.A, Kitting List. At a minimum, the Implementation Plan shall include criteria for review of the documents, a stakeholder coordination plan, a listing of the available records reviewed, the finalized progress and work schedule, a description of the means and methods to be employed for a successful delivery, identification of the required local and central level government permits, schedule of any tests to be performed during assembly and name of the company(ies) that will perform the testing, a listing of all proposed activities with their anticipated duration and the names of responsible personnel, site staging plan, site safety plan, site security plan, quality control and assurance plan, as well as the proposed suppliers to be retained by the Offeror.

**Kick-Off Meetings**

The Offeror shall participate in kick-off meetings and site visits (2) with GHSC-PSM and MSL following the acceptance of the Implementation Plan. The purpose of the kick-off meetings is to introduce the Offeror to other partners, the beneficiaries, identify existing constraints, review the Implementation Plan and final configuration of contract works.

The Offeror shall summarize the comments generated during the meeting in a memorandum.

**Site and Prefabricated Assembly**

MSL is the owner of the site and has jurisdiction over the overall security of the site. MSL does not have security personnel or equipment in place at either the Chipata or Mpika sites at this time and does not plan to do so until works under this RFP are complete and handed over. The Offeror shall assume full responsibility for all costs, including personnel, equipment and fencing, related to the security of the Offeror’s works and equipment at the warehouse sites during the subcontract period. The Offeror shall describe its Security Plan in the Proposal and said Security Plan shall be subject to the review and approval by MSL and Chemonics. The Offeror shall secure and isolate their portion of the worksite for the protection of its workforce and the general public. The Offeror shall work closely with MSL’s security personnel to ensure maximum safety and protection of personnel, materials and equipment.

The Offeror shall install the proposed kitting components as per the implementation plan and the requirements in this RFP.

The Offeror shall be responsible for the development of sketches and or additional drawings for each work item not sufficiently detailed in the final design documents. The sketches and/or drawings shall include details and technical specifications necessary to facilitate the implementation of the proposed improvements. The Offeror shall submit the sketches and/or drawings to GHSC-PSM/Zambia for review prior to installing said work item.

The Offeror shall be responsible for the disposal of all waste material generated by the Offeror’s activities during the assembly period. The Offeror shall also be responsible for all cleaning and site maintenance activities, during the installation phase and for final cleanup. The Offeror shall be responsible for cleaning up the worksite following each workday.
The Offeror shall be responsible for the provision of potable water supply for drinking and non-potable water for construction related uses such as testing. The Offeror shall be responsible for cost of electric power required during the assembly period. Both warehouses will be connected to the electric grid but the date of connection is not known.

During the implementation of the project, the Offeror shall maintain a photographic record of work on site to document daily progress along with a field journal kept by the GHSC-PSM/Zambia Resident Engineer / Construction Manager. The photographic record and field journal shall be available to GHSC-PSM/Zambia for review during site visits.

**Supply, Installation Commissioning and Training Components**

The Offeror shall be responsible for procuring and/or fabricating all required components for the stacked pallet racking and shelving system, fencing and gates as well as all necessary appurtenances for a complete assembly and commissioning and training for the MHE. Training shall include printed and electronic instructional materials and on site instruction by a qualified manufacturers' technical representative; all of which shall be described in the Implementation Plan. The Offeror shall be responsible for all permit fees, procurement, shipping, and storage, as required. Delays in procurement, fabrication, and/or shipping shall be the responsibility of the Offeror. Refer to Attachment F,G,H and I for functional and technical requirements.

During the implementation of the project, the Offeror shall maintain a photographic record of work on site to document daily progress along with a field journal kept by the GHSC-PSM/Zambia Resident Engineer / Construction Manager. The photographic record and field journal shall be available to GHSC-PSM/Zambia for review during site visits.

**Environmental Compliance**

The Offeror shall follow the guidelines for environmental compliance set in Section 1.6 of the RFP, in particular the provisions contained in the USAID-approved Environmental Mitigation & Monitoring Plan for the GHSC-PSM global project which is shown in Attachment K. The purpose is to monitor environmental impact of the potential activities and define mitigation actions to be implemented. Using the prescriptions included in the guidance, the Offeror shall dutifully follow and implement all preventive and mitigation measures during all phases of the project. The Offeror shall also maintain on file and provide to Chemonics at the end of the subcontract, the monitoring and evaluation logs associated with the various activities of the project.

**A.2 ILLUSTRATIVE DELIVERABLES**

The following are illustrative Deliverables. Exact deliverables, timelines and payments will be included in the fixed price subcontract to be executed upon award.

**Deliverable 1: Mobilization and Implementation Plan**

The Offeror shall develop and deliver a detailed Implementation Plan for review and approval by GHSC-PSM/Zambia prior to the start of work. The Implementation Plan shall include all the element identified in Section A.1 of the Scope of Work.
The Offeror shall submit the Implementation Plan in electronic (USB) and hard (3 sets – paper) format to GHSC-PSM/Zambia for review and approval. In the event that GHSC-PSM/Zambia finds deficiency with the Implementation Plan, the Offeror shall revise and resubmit until approval is obtained.

**Deliverable 2: Kick-off Meeting**

The Offeror shall participate in kick-off meetings and site visit as described in Section A.1 of the Scope of Work. The Offeror shall summarize the comments generated during the meeting in a memorandum and incorporate them to the extent possible in the implementation for the project. The Offeror shall submit the memorandum in electronic (Microsoft Word) (USB) and hard (3 sets – paper) format to GHSC-PSM/Zambia for review and approval.

**Deliverable 3: Supply, Installation, Commissioning and Training of Stacked Pallet Racking and Shelving System, MHE, Fencing and Gates**

Completion of the provision, installation, testing and commissioning of all MHE, and stacked pallet racking and shelving systems, fencing and gates, and all associated training, in accordance with the requirements of Section A.1 Scope of Works and Attachments to this RFP.

**Deliverable 4: Final Acceptance**

The Offeror shall submit a Final Report summarizing the work associated with the procurement and assembly of the kitting items. The Final Report shall include a copy of the final accepted documents, record drawings, all weekly progress reports, weekly site meetings minutes, and weekly environmental monitoring checklists, environmental compliance, quality control measures employed to ensure quality materials and workmanship, operation and maintenance manual (O&M Manual) for all the installed systems. The Final Report shall also include a certification from the Offeror that the project was implemented as per the contract documents and that the items are safe for the intended use. The Final Report shall be submitted upon the completion of installation of all MHE, and stacked pallet racking and shelving systems, fencing and gates and shall be in English and in Microsoft Word format. The submission of an acceptable Final Report and formal handover of completed works to MSL shall be conditions of Final Acceptance.

During the implementation of the project, the Offeror shall maintain a set of the Final Documents upon which all field changes shall be noted. At the conclusion of the work, the Offeror shall develop record drawings to accurately reflect ‘as-built’ conditions of the work associated with this project. The record drawings shall be prepared and submitted on electronic (compact disks) and hard (3 sets – 11”x17” paper) formats. The record drawings must be delivered to GHSC-PSM/Zambia and found to be acceptable prior to final issuance of payment.

**Deliverable 5: Environmental Compliance, Weekly Progress Reporting and Final Report**

The Offeror shall be responsible for implementing and monitoring of the environmental compliance requirements noted in section A1.6 of the RFP in order to comply with USAID requirements for the GHSC-PSM/Zambia program. The work shall include the monitoring and preparation of the evaluation reports during all phases of the project. On a weekly basis, the Offeror shall submit the Progress Report, Site Meeting Minutes, Environmental Monitoring Checklist
(Section A.1) and all associated test and inspection requests/results. Should weekly reports fail to be submitted as described above, the successful offeror shall be considered to be non-compliant in submission of deliverables. The submission of the above described weekly reports shall be a condition of every progress payment; submission of all weekly reports and final report shall be a condition of final acceptance and payment of final deliverable.
ATTACHMENT A: LETTER OF TRANSMITTAL

The following letter must be completed and submitted with any offer:

Date: _______ (insert date)__________

To:
Chemonics International Inc.
USAID/GHSC-PSM Office
Plot 2473, 1st Floor Metropolitan House off Kelvin Siwale Road, Mass Media,
Lusaka, Zambia
Attention: Luckson Sichamba

RE: Letter of Transmittal, RFP No. RFP-ZMB-MHE2017-01

(insert name of company) ______ hereby proposes the attached offer to perform all work
required
for the [INSERT TYPE OF WORK TO BE DONE]. Please find attached our detailed
Technical Volume (including past performance information and required certifications)
and Cost Volume, as called for in the RFP.

We hereby acknowledge and agree to all of the terms and conditions, special provisions,
and instructions included in the above referenced RFP. We further certify that
_______ (insert name of company) ______, as a firm—as well as the firm’s principal officers
and all commodities and services offered in response to this RFP—are eligible to
participate in this procurement under the terms and conditions of this solicitation and
under USAID regulations.

We hereby certify that the enclosed representations, certifications, and other statements
are accurate, current, and complete.

________________________________________
Company Name

________________________________________
Name and title of authorized representative

________________________________________
Signature

________________________________________
Date
ATTACHMENT B: REQUIRED CERTIFICATIONS

The following certifications must be completed and submitted in the Technical Volume of any proposal.

ATTACHMENT B-1: CERTIFICATE OF INDEPENDENT PRICE DETERMINATION, PER FAR 52.203-2 (APR 1985)

__________________ (insert name of company) (hereinafter called the "offeror")

(a) The offeror certifies that—

(1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to—
   (i) Those prices;
   (ii) The intention to submit an offer; or
   (iii) The methods or factors used to calculate the prices offered.

(2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

(b) Each signature on the offer is considered to be a certification by the signatory that the signatory—

(1) Is the person in the offeror’s organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; or

(2)
   (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to paragraphs (a)(1) through (a)(3) of this provision ____________________ (insert full name of person(s) in the offeror’s organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror’s organization);

   (ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) of this provision have not participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; and

   (iii) As an agent, has not personally participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision.

(c) If the offeror deletes or modifies paragraph (a)(2) of this provision, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

__________________ (Offeror)

BY (Signature) ___________________ TITLE ___________________
ATTACHMENT B-2: CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS, PER FAR 52.203-11 (SEP 2005)

(insert name of company) (hereinafter called the "offeror")

(a) The definitions and prohibitions contained in the clause, at FAR 52.203-12, Limitation on Payments to Influence Certain Federal Transactions, included in this solicitation, are hereby incorporated by reference in paragraph (b) of this certification.

(b) The offeror, by signing its offer, hereby certifies to the best of his or her knowledge and belief that on or after December 23, 1989—

(1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of this subcontract;

(2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Chemonics Chief of Party; and

(3) He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of $100,000 shall certify and disclose accordingly.

(c) Submission of this certification and disclosure is a prerequisite for making or entering into this subcontract imposed by section 1352, Title 31, United States Code. Any person who makes an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than $10,000, and not more than $100,000, for each such failure.

(insert name of company)

(Offeror)

BY (Signature) ___________________ TITLE _____________________

TYPED NAME ____________________ DATE _____________________

Chemonics DocNo: ENCO.FT.003, Rev.012, 6/17/2016
ATTACHMENT B-3: TAXPAYER IDENTIFICATION, PER FAR 52.204-3 (OCT 1998)

(insert name of company) (hereinafter called the "offeror")

(a) Definitions.

Common parent, as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

Taxpayer Identification Number (TIN), as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All Offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting subcontract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the subcontract.

(c) The TIN may be used by the government to collect and report on any delinquent amounts arising out of the offeror's relationship with the government (31 U.S.C. 7701(c)(3)). If the resulting subcontract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

☐ TIN:
☐ TIN has been applied for.
☐ TIN is not required because:
☐ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;
☐ Offeror is an agency or instrumentality of a foreign Government;
☐ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

☐ Sole proprietorship;
☐ Partnership;
☐ Corporate entity (not tax-exempt);
☐ Corporate entity (tax-exempt);
☐ Government entity (Federal, State, or local);
☐ Foreign Government;
☐ International organization per 26 CFR 1.6049-4;
☐ Other __________________________

(f) Common parent.

☐ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.
☐ Name and TIN of common parent:

Name ____________________________________________
TIN  ____________________________________________

(insert name of company) (Offeror)

BY (Signature) ___________________ TITLE _____________________
TYPED NAME ____________________ DATE _____________________
ATTACHMENT B-4: CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS, PER FAR 52.209-5 (DEC 2001)

(insert name of company) (hereinafter called the "offeror")

(a) (1) The Offeror certifies, to the best of its knowledge and belief, that -

   (i) The Offeror and/or any of its Principals -

      (A) are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

      (B) have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) subcontract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion or receiving stolen property; and

      (C) are not presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.

   (ii) The Offeror has not, within a 3-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

(b) The Offeror shall provide immediate written notice to the Chemonics Chief of Party if, at any time prior to subcontract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Chemonics Chief of Party may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Chemonics Chief of Party or Senior Vice President of Contracts may terminate the subcontract resulting from this solicitation for default.

(insert name of company)

(Offeror)

BY (Signature)__________________ TITLE ____________________

TYPED NAME ____________________ DATE ____________________
ATTACHMENT B-5: CERTIFICATION REGARDING KNOWLEDGE OF CHILD LABOR FOR LISTED END PRODUCTS, PER FAR 52.222-18 (FEB 2001)

Pursuant to FAR 52.222-18 (Feb 2001), federal contractors who supply products on the Current List of Products and Countries on Executive Order (EO) 13126, published by the Department of Labor must certify that they have made a good faith effort to determine whether forced or indentured child labor was used to produce the items listed. The Current List of Products and Countries on EO 13126 is included on the next page as Attachment B-5a.

_________ (insert name of company) __________ (hereinafter called the “offeror”)

(a) Definition.

Forced or indentured child labor means all work or service--

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a subcontract the enforcement of which can be accomplished by process or penalties.

(b) Listed end products. The following end product(s) being acquired under this solicitation is (are) included in the List of Products Requiring Offeror Certification as to Forced or Indentured Child Labor, identified by their country of origin. There is a reasonable basis to believe that listed end products from the listed countries of origin may have been mined, produced, or manufactured by forced or indentured child labor.

Listed End Product:

Listed Countries of Origin:

(c) Certification. Chemonics will not make award to an offeror unless the offeror, by checking the appropriate block, certifies to either paragraph (c)(1) or paragraph (c)(2) of this provision.

☐ (1) The offeror will not supply any end product listed in paragraph (b) of this provision that was mined, produced, or manufactured in a corresponding country as listed for that end product.

☐ (2) The offeror may supply an end product listed in paragraph (b) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture such end product. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

_________ (insert name of company) __________ (Offeror)

BY (Signature) _________________ TITLE _____________________

TYPED NAME ____________________ DATE _____________________

Chemonics International
Request for Proposals
RFP-ZMB-MHE2017-01
Page 22 of 63
ATTACHMENT B-5A: Current List of Products and Countries on EO 13126 List

The current list of products was published in the April 3, 2013 Federal Register and includes the following:

<table>
<thead>
<tr>
<th>Product</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bamboo</td>
<td>Burma</td>
</tr>
<tr>
<td>Beans (green, soy, yellow)</td>
<td>Burma</td>
</tr>
<tr>
<td>Brazil Nuts/Chestnuts</td>
<td>Bolivia</td>
</tr>
<tr>
<td>Bricks</td>
<td>Afghanistan, Burma, China, India, Nepal, Pakistan</td>
</tr>
<tr>
<td>Carpets</td>
<td>Nepal, Pakistan</td>
</tr>
<tr>
<td>Cassiterite</td>
<td>Democratic Republic of Congo</td>
</tr>
<tr>
<td>Coal</td>
<td>Pakistan</td>
</tr>
<tr>
<td>Coca (stimulant plant)</td>
<td>Colombia</td>
</tr>
<tr>
<td>Cocoa</td>
<td>Cote d’Ivoire, Nigeria</td>
</tr>
<tr>
<td>Coffee</td>
<td>Cote d’Ivoire</td>
</tr>
<tr>
<td>Coltan</td>
<td>Democratic Republic of Congo</td>
</tr>
<tr>
<td>Cotton</td>
<td>Benin, Burkina Faso, China, Tajikistan, Uzbekistan</td>
</tr>
<tr>
<td>Cottonseed (hybrid)</td>
<td>India</td>
</tr>
<tr>
<td>Diamonds</td>
<td>Sierra Leone</td>
</tr>
<tr>
<td>Electronics</td>
<td>China</td>
</tr>
<tr>
<td>Embroidered Textiles (zari)</td>
<td>India, Nepal</td>
</tr>
<tr>
<td>Garments</td>
<td>Argentina, India, Thailand</td>
</tr>
<tr>
<td>Gold</td>
<td>Burkina Faso</td>
</tr>
<tr>
<td>Granite</td>
<td>Nigeria</td>
</tr>
<tr>
<td>Gravel (crushed stones)</td>
<td>Nigeria</td>
</tr>
<tr>
<td>Pornography</td>
<td>Russia</td>
</tr>
<tr>
<td>Rice</td>
<td>Burma, India, Mali</td>
</tr>
<tr>
<td>Rubber</td>
<td>Burma</td>
</tr>
<tr>
<td>Shrimp</td>
<td>Thailand</td>
</tr>
<tr>
<td>Stones</td>
<td>India, Nepal</td>
</tr>
<tr>
<td>Sugarcane</td>
<td>Bolivia, Burma</td>
</tr>
<tr>
<td>Teak</td>
<td>Burma</td>
</tr>
<tr>
<td>Textiles (hand-woven)</td>
<td>Ethiopia</td>
</tr>
<tr>
<td>Tilapia (fish)</td>
<td>Ghana</td>
</tr>
<tr>
<td>Tobacco</td>
<td>Malawi</td>
</tr>
<tr>
<td>Toys</td>
<td>China</td>
</tr>
</tbody>
</table>
ATTACHMENT B-6: EVIDENCE OF RESPONSIBILITY STATEMENT

________ (insert name of company) __________ (hereinafter called the “offeror”)

The offeror hereby certifies the following:

1. Authorized Negotiators

The Company Name proposal in response to RFP No. RFP- ZMB-MHE2017-01 may be discussed with any of the following individuals. These individuals are authorized to represent Company Name in negotiation of this offer in response to RFP No. RFP-ZMB-MHE2017-01.

List Names of Authorized signatories

These individuals can be reached at Company Name office:

Address
Telephone/Fax
Email address

2. Adequate Financial Resources

Company Name has adequate financial resources to manage any subcontract resulting from this offer.

3. Ability to Comply

Company Name is able to comply with the proposed delivery of performance schedule having taken into consideration all existing business commitments, commercial as well as governmental.

4. Record of Performance, Integrity, and Business Ethics

Company Name’s record of integrity is outstanding. Company Name has no allegations of lack of integrity or of questionable business ethics. Our integrity can be confirmed by our references in our Past Performance References, contained in the Technical Volume.

5. Organization, Experience, Accounting and Operational Controls, and Technical Skills

(Offeror should explain which department will be managing the contract, type of accounting and control procedure they have to accommodate the subcontract type.)

6. Equipment and Facilities

(Offeror should state they have necessary facilities and equipment to carry out the subcontract.)

7. Eligibility to Receive Award

(Offeror should state that they are qualified and eligible to receive an award under applicable laws and regulation and if they have performed work of similar nature under similar mechanisms for USAID. They should provide their DUNS number here as well, if applicable.)

8. Commodity Procurement

Not applicable to this RFP.
9. Cognizant Government Audit Agency

(Offeror should provide name, address, phone of their auditors, and whether it is DCAA or independent CPA, if applicable)

10. Acceptability of Subcontract Terms and Conditions

The offeror has reviewed the solicitation document and attachments and agrees to the terms and conditions set forth therein.

11. Organization of Firm

(Offeror should explain how their firm is organized – for example regionally or by technical practice)

___________________________________

Company Name

_____________________________

Name and title of authorized representative

_____________________________

Signature

_____________________________

Date
ATTACHMENT B-7: 52.222-50 OFFEROR CERTIFICATION REGARDING
TRAFFICKING IN PERSONS COMPLIANCE PLAN (MARCH 2, 2015)

The Offeror/Offeror Certifies that:

(1) It has implemented a compliance plan to prevent any prohibited activities identified in paragraph (b) of the clause at 52.222–50, Combating Trafficking in Persons, and to monitor, detect, and terminate the contract with a Offeror engaging in prohibited activities identified at paragraph (b) of the clause at 52.222–50, Combating Trafficking in Persons;

(2) The compliance plan applicable to the qualifying subcontract meets the minimum requirements set forth in subsection (h)(3) of clause 52.222-50, including the following:
   a. An awareness program to inform Offeror employees about the Government's policy prohibiting trafficking-related activities, the activities prohibited, and the actions that will be taken against the employee for violations.
   b. A process for employees to report, without fear of retaliation, activity inconsistent with the policy prohibiting trafficking in persons, including a means to make available to all employees the hotline phone number of the Global Human Trafficking Hotline at 1-844-888-FREE and its email address at help@befree.org.
   c. A recruitment and wage plan that only permits the use of recruitment companies with trained employees, prohibits charging recruitment fees to the employee, and ensures that wages meet applicable host-country legal requirements or explains any variance.
   d. A housing plan, if the Offeror intends to provide or arrange housing that ensures that the housing meets host-country housing and safety standards.
   e. Procedures to prevent agents and Offerors at any tier and at any dollar value from engaging in trafficking in persons (including activities in paragraph (b) of this clause) and to monitor, detect, and terminate any agents, subcontracts, or Offeror employees that have engaged in such activities.

(3) The Offeror/Offeror will post the relevant contents of the compliance plan, no later than the initiation of contract performance, at the workplace (unless the work is to be performed in the field or not in a fixed location) and on the Offeror's/Offeror's Web site (if one is maintained). If posting at the workplace or on the Web site is impracticable, the Offeror/Offeror shall provide the relevant contents of the compliance plan to each worker in writing. The Offeror/Offeror agrees to inform Chemonics immediately of any credible information it receives from any source (including host country law enforcement) that alleges a contractor employee, Offeror, Offeror employee, or their agent has engaged in conduct that violates the policy.

(4) After having conducted due diligence, either—
   i. To the best of the Offeror's/Offeror's knowledge and belief, neither it nor any of its proposed agents, Offerors, or their agents is engaged in any such activities; or,
   ii. If abuses relating to any of the prohibited activities identified in 52.222–50(b) have been found, the Offeror or proposed Offeror has taken the appropriate remedial and referral actions.
PLEASE SIGN AND RETURN THIS CERTIFICATION TO CHEMONICS

Company Name________________________________________

Signature ________________________ Printed Name ________________________

Title ______________________________ Date ______________________________

NOTE: The Offeror is required to recertify annually by signing this document one year from the date signed above and resending it to the Contractor.
ATTACHMENT C: EXAMPLE BANK GUARANTEE FOR PERFORMANCE SECURITY

To:
Chemonics International Inc.
USAID/GHSC-PSM
Plot 2473, 1st Floor Metropolitan House off Kelvin Siwale Road, Mass Media,
Lusaka, Zambia

REF: Subcontract No. [subcontract number]

Whereas [name of Offeror], [address of Offeror] (hereinafter called “the Offeror”) has undertaken, in pursuance of Subcontract No. [subcontract number] dated [date of subcontract] to execute [subcontract number], for RFP-ZMB-MHE2017-01 (hereinafter called “the Subcontract”);

And whereas it has been stipulated by you in the said Subcontract that the Offeror shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Subcontract;

And whereas we have agreed to give the Offeror such a Bank Guarantee;

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

We hereby waive the necessity of your demanding the said debt from the Offeror before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Subcontract or of the Works to be performed there under or of any of the Subcontract documents which may be made between you and the Offeror shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall be valid until a date 28 days from the date of issue of the Certificate of Substantial Completion.

Signature and seal of the Guarantor ____________________________

Name of Bank ____________________________
**ATTACHMENT D: SCHEDULE OF VALUES AND KITTING LIST**

**SCHEDULE OF VALUES**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Unit Cost in USD</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*Include categories</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Mobilization &amp; Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Kick-off MTGS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Kitting List (ref Section 2.A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3a</td>
<td>Storage Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3b</td>
<td>MHE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3c</td>
<td>Battery Bay Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3d</td>
<td>Miscellaneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Final Acceptance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE 1:** ITEMS 3A-D SHALL BE TOTAL COSTS BASED ON ITEMIZED COST WORKSHEETS FOR THE CHOMA LOCATION WITH THE INFORMATION BELOW IN THE KITTING LIST

**KITTING LIST FOR CHOMA WAREHOUSE**

<table>
<thead>
<tr>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>U OF M</td>
</tr>
</tbody>
</table>

1.1 **STORAGE SYSTEMS**

<table>
<thead>
<tr>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESCRIPTION</td>
</tr>
</tbody>
</table>

| 1.1.1 | Adjustable Pallet Racking delivered and installed ( | Pallet Locations | 1602 |
| 1.1.2 | Shelving for low level picking | Bays | 20 |
| 1.1.3 | Manifesting Stations Complete with conveyor | Sets | 2 |
| 1.1.4 | Long Span Shelving for Packaging Material | bays | 2 |
| 1.1.5 | Labels for Bulk and Fine Pick Locations (Print and Applied) | sum | 3500 |
| 1.1.6 | Narcotics Store - lockable steel cabinets | sum | 3 |
| 1.1.7 | Narcotics Store - work station | sum | 1 |
| 1.1.8 | Walk in Chiller Steel Binning | Units | 9 |
| 1.1.9 | Long Span shelving | Bays | 0 |
| 1.1.10 | Upright Label Holders | uprights | 120 |
| 1.1.11 | Plastic Upright Protectors | uprights | 120 |
| 1.1.12 | Row End Barriers | units | 5 |
| 1.1.13 | Pallet Gate | ea | 0 |
| 1.1.14 | Pick Trolleys | ea | 2 |

### 1.2 MATERIALS HANDLING EQUIPMENT

| 1.2.1 | Electric Articulated Narrow Aisle Stacker (including battery & charger) | ea | 2 |
| 1.2.2 | Additional Battery | ea | 1 |

### 1.3 BATTERY BAY EQUIPMENT

| 1.3.1 | Stand On and Aisle Wash Safety Shower (excluding plumbing) | ea | 1 |
| 1.3.2 | Safety Storage Cabinet and Signage | ea | 1 |
| 1.3.3 | Spill Kit | ea | 1 |
| 1.3.4 | Reverse Osmosis Battery Water System (excluding plumbing) | Sum | 1 |

### 1.4 MISCELLANEOUS

| 1.4.2 | Fencing | sqm | 80 |
| 1.4.3 | Gates in Fencing | sqm | 3 |
| 1.4.4 | Ultrasonic Rodent Repeller System | ea | 1 |
| 1.4.5 | Insect Electrocuttor | ea | 6 |
ATTACHMENT E – CHOMA WAREHOUSE PLAN, SECTIONS AND FLOOR LOADS
FLOOR LOADING
5 BEAM LEVELS @ 3 PALLETS / BAY WEIGHING
700KG EACH.

L1: (8x) x 5 LEVELS x 2 PALLETS SPACES ON PLAN
x (3 x 700 x 5 x 2) = 5250Kg + 250Kg SELF
WEIGHT = 5500Kg/55.5kN

L2: (8x) x 5 LEVELS x 1 PALLETS SPACE ON PLAN
x (3 x 700 x 5 x 1) = 2625Kg + 250Kg SELF
WEIGHT = 2875Kg/28.75kN

TYPICAL BASEPLATE SIZE = 150 x 200 x 5mm

RACK FLOOR LOADING FOR 6 PALLLET HIGH RACK
SCALE: 1:50
 ATTACHMENT F: FUNCTIONAL AND TECHNICAL SPECIFICATIONS – STORAGE SYSTEMS AND BINNING

F.1 FUNCTIONAL SPECIFICATIONS G.1.1 Overview

This Document calls for the design, manufacture, supply, installation and commissioning and performance criteria of a storage system inclusive of the following:

- Adjustable Pallet Racking (APR).
- Bolted Steel Binning
- Long Span Shelving
- Manifesting Tables
- Lock-up Steel Cabinets
- Pick Trolleys

F.1.2 Reference Drawings

This RFP to be read in conjunction with the following reference Drawings:

- Warehouse plans for Choma
- Sections drawing for Choma
- Rack floor loading plans for Choma

F.1.3 Load Units

- Pallet and load : 800mm entry x 1200mm deep x 1350mm high x 700Kg EURO PALLET.

F.1.4 STORAGE SYSTEMS

F.1.4.1 Adjustable Pallet Racking: Bulk Store (Gridline reference A-C and 1–7)

Row 1: comprises of 1-off single row of APR storage consisting of 5-off bays of triple pallet storage at ground plus 5-off beam levels in the height, 1-off tunnel bay of triple pallet storage at 4-off beam levels in the height, 6-off bays of triple pallet storage at ground plus 5-off beam levels in the height.
<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Bay centres of Triple Pallet Bay = 2800mm centers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of top beam = 8 001mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame depth = 1100mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity = 3-off pallets @ 700Kg/ Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location quantity = 210 Pallet locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9-off</td>
<td></td>
</tr>
</tbody>
</table>

**Rows 2 and 3:** comprises of 1-off back to back row of APR storage consisting of 11-off bays of triple pallet storage at ground plus 5-off beam levels in the height.

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Bay centres of Triple Pallet Bay = 2800mm centers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of top beam = 8 001mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame depth = 1100mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity = 3-off pallets @ 700Kg/ Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location quantity = 504 Pallet locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>22-off</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Bay centres of Triple Pallet Bay = 2800mm centers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of top beam = 8 001mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame depth = 1100mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity = 3-off pallets @ 700Kg/ Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location quantity = 504 Pallet locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>22-off</td>
<td></td>
</tr>
</tbody>
</table>

**Rows 4 and 5:** comprises of 1-off back to back row of APR storage consisting of 11-off bays of triple pallet storage at ground plus 5-off beam levels in the height.
Rows 6 and 7: comprises of 1-off back to back row of APR storage consisting of 11-off bays of triple pallet storage at ground plus 5-off beam levels in the height.

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Bay centers of Triple Pallet Bay = 2800mm centers</td>
<td></td>
<td>22-off</td>
</tr>
<tr>
<td>Height of top beam = 8 001mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame depth = 1100mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity = 3-off pallets @ 700Kg/ Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location quantity = 504 Pallet locations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rows 8: comprises of 1-off single row of APR storage consisting of 5-off bays of triple pallet storage at 2-off levels wire decked shelf levels plus 5-off beam levels in the height, 9-off bays of triple pallet storage at ground plus 5-off beam levels in the height.

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Bay centres of Triple Pallet Bay = 2800mm centers</td>
<td></td>
<td>14-off</td>
</tr>
<tr>
<td>Height of top beam = 8 001mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame depth = 1100mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity = 3-off pallets @ 700Kg/ Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load capacity shelving = 700Kg UDL / level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location quantity = 237 Pallet locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear meterage of shelving = 27m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
F1.4.2 **Steel Binning: Walk-in Chiller (Gridline reference A and 10)**

The Steel Binning comprises of 2-off single row

**1st Single Row:**

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Quantity 6-off bays on plan</td>
<td></td>
<td>12-off</td>
</tr>
<tr>
<td>Bay Width = 610mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bay Depth = 610mm per bay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical Levels = 5-off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Bay Height = 2210mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Side and Back Panels = Yes, perforated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Divider = Not required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F.1.4.3 **Long Span Shelving: Manifesting (Gridline reference A-C, and 2-3)**

The Long Span Shelving comprises of:

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Quantity 2-off bays on plan</td>
<td></td>
<td>2-off</td>
</tr>
<tr>
<td>№. Of Rows = 1-off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bay Width = 900mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bay Centers = 2800mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical Levels = Ground + 3 levels @ 500mm clear / level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decking = Open slatted Timber Decked, KD Certified and Heat treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loading per level = 500Kg UDL / level</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
F.1.4.4 Manifesting Tables: Manifesting (Gridline reference A and 8-9)
Each Manifesting Tables comprises of 2-off work tables and a table mounted idler conveyor spanning the length over the 2 tables.

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity 2-off sets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; Table Width = 3000mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Table Width = 2000mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Depth = 1150mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length over System = 5500mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Top Finish = Stainless Steel @ 900mm F.F.L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyor Width = 600mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyor Length = 5300mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guide Rail = Full Length 1 side only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rollers = Steel with “Sealed for life” Bearings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F.1.4.5 Lock-up Steel Cabinets: Narcotics Cage (Gridline reference 10)
3–off Standard Steel Cabinets to be supplied for the Narcotics Cage

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Cabinets</td>
<td></td>
<td>3-off</td>
</tr>
<tr>
<td>Cabinet Width = 900mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabinet Depth = 450mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabinet Height = 1800mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical Shelf Levels = 5-off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lockable = Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
F.1.4.7 Warehouse Barcode Labels

Warehouse Barcode Labels to be provided for every location plus at the rack uprights for higher locations where scanners cannot reach. Offerors to provide for the fitment only and not the supply.

Type 1 Barcode label for all Pallet Locations and Shelf Locations inside Pallet Racks: 210mm x 70mm self-adhesive Dairyfilm Label

Type 2 Barcode label for all Rack Upright Labels: 70mm x 44mm self-adhesive Dairyfilm Label

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>OFFERED</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1 Barcode Label</td>
<td></td>
<td>+ 2100-off</td>
</tr>
<tr>
<td>Type 2 Barcode Label</td>
<td></td>
<td>+ 1400 – off</td>
</tr>
</tbody>
</table>

F1.4.8 Pick Trolleys

No specific model is stated, however, Offerors are required to propose and price for a trolley to suite the following specifications;

Height – 1020-1050 mm
Width - 1000mm
Number of shelves – 2
Weight carrying capacity – 500kg
F. 2 TECHNICAL SPECIFICATION DETAIL.

F.2.1 Racking Requirements

I. The calculations for designing the racking solution must take account of racking self-weight, pallet/product live loads, transient miscellaneous forces during retrieval or put-away and any other loads that can reasonably be expected during normal operations.

II. Generally racking shall be installed to be rigid and without any discernible sway. This especially applies to single bay racking and the supplier must include for all additional supports, braces and arms etc. to ensure that this requirement is met.

III. Where single frames are present and where the base-to-height ratio of these single frames exceeds 10:1, then these single frames shall be supported to the nearest double rack by means of cross-aisle ties in accordance with the SEMA Code of Practice.

IV. The installation will be according to the SEMA Guideline No. 2 (Guide to Erection Tolerances for Static Racking), Grade 1 – Low Tolerance.

F.2.2 Frames

I. For 2 pallet high APR installation, frames shall be designed to allow a bottom floor supported pallet position and to support extension to two levels of maximum weight pallets above. In essence the system is expandable to store 3 high with the two levels above ground floor as short heavy pallets.

II. Frames shall be of bolted or welded construction.

F.2.3 Beams

I. Beams shall be closed section and locked to end frames using an approved locking system. The height of each beam above floor level shall be easily adjustable without the use of tools and independent of any adjacent beam.

II. Beam pairs are to be adequately designed to support the pallet loads described earlier in this tender.

III. Offerors must take cognizance of the beam levels required in the LGSWC design. If any differences in beam levels due to rack /slot pitch and hook connector configuration are found, the Offeror will be required to alter the beam and connector design by means of down-welding in order to achieve the required beam levels. The structural integrity and safety aspects of the beams must not be affected and where such alterations are required, these are to be brought to the attention of the Project Manager prior to commencement of manufacturing. Typical back to back connectors shall be installed between frames approx. 250mm spacing.
F.2. 4 Back to Back Connectors

I. Where building columns occur, the back to back are to be constructed accordingly to ensure that the operational aisles remain integral to functioning of the system and may not be changed without prior consultation to the Project Manager.

II. Offerors must refer to the relevant drawings to determine the back to back connector lengths and quantities to suit the SEMA requirements. The position of the back to back connector must be installed according to the SEMA Code of Practice.

F.2.5 Baseplates and Point Loads

I. A recommended base-plate size required: 140mm x 110mm x 6mm.

II. Base plates may consist of bolted base spigot or can be welded to the frame uprights. The base plates shall have four fixing holes but, in the first instance, be fixed to the floor slab using only one bolt per base plate as according to the SEMA Code of Practice. These floor fixings shall be sized to ensure that the base plates are not turned by impact from pallets, products or MHE equipment. Using only one the four available holes allows maximum opportunity to avoid bolt position coinciding with floor joint.

III. Offerors are to provide details and their dimensions for the proposed base plate and confirm the maximum rack leg point loads (KN.) The final size of the baseplate will be subject to acceptance by the projects Structural Engineer.

IV. Offerors are to include for all shims to ensure correct levelling of all frames to ensure that racking elevations and alignments comply with the requirements of the SEMA Codes of Practice. The shim plate must be the full size of the baseplates area.

V. Where racks are joined by a back to back connector, only those uprights which are adjacent to aisles and gangways require floor fixing in accordance with SEMA Codes of Practice. Should a pair of uprights fall on or over a building sawcut floor joint, the floor fixing may be omitted on that particular upright only in order to permit floor expansion and shrinkage. The successful Offeror is to identify such conflicts and present the same to the Project Manager before commencement of the installation.

VI. Supply and fix load notices (not less than 200mm x150mm) to the racking installation stating maximum beam and bay loadings, first beam level and beam pitch.

F.2. 6 Load notices

These notices shall be placed in a prominent location (typically at rack ends) and shall be sized and colored in accordance with the requirements of SEMA Code of Practice.
F.2. 7 Row Identification Signage

I. The Offeror is to provide plaques measuring not less than 200mm (High) x 300mm (Wide) on which the row number will be indicated.

II. Chemonics will inform the supplier with the details of the row numbers during manufacturing.

F.2. 8 Rack Labelling

The Offeror is to cost for the installation of the rack labels only and not for the supply of barcode labels. Each location and pick face is to be labelled according to instruction issued before commencement of installation.

F.2. 9 Upright Protection

Offerors are to provide protection to all ‘aisle facing’ (APR) racking uprights. The adjustable pallet racking is to be supplied with an upright protector with a height of not less than 400 mm and must be positioned on every rack upright, providing protection to the three ‘accessible’ sides of the upright.

I. The upright protector must be designed for energy absorption of at least 400 Nm in any direction at any height between 0.10 m and 0.40 m, alternatively, reference may be made to FEM user’s guide 10.2.03.

II. Two options for upright protection are to be considered by the Offeror:

a) The upright protector could be made of alternative / composite / plastic material that is of suitable strength and is designed as per above.

b) Steel upright protection that is mounted separately to the fixing of the rack column and does not use the same anchor fixing. These protection barriers shall be bolted to the floor independently of the frame base plate and positioned to afford maximum protection to the uprights from contact by MHE and other equipment.

c) In the instance of a pre-existing (brown built) project, the location of floor joints may exclude the anchoring of steel protectors.

III. Provide clear details of the proposed racking upright protection.

Note: Both types of upright protectors are to be indicated separately and as optional for the client's decision.
F.2. 10 Row End Protection

a) Row End Protection barriers shall be manufactured and installed at both ends of each racking structure. These shall be fixed to the floor independently of the racking frame assembly and shall protect the end frames from damage by MHE, trolleys and other equipment.

b) A suitable barrier is indicated on the drawings but an alternative may be proposed. For the purposes of the tender provide costs based on the drawing supplied and indicate the difference in cost for the proposed alternative.

c) The rack end barriers shall be primed, undercoated and finished with two full coats of gloss paint. The color will be yellow from the manufacturer’s standard range.

F.2. 11 Standard Specification for Steel Binning

a. All components shall be free from sharp edges and protrusions and shall be galvanized or epoxy coated whichever is deemed best for Fridge and Coldroom environments.

b. Indicate the finish of all components in the tender submission.

c. The tenderer must furnish load capabilities and limitations of their equipment.

d. The bottom of all uprights shall be provided with base-plates. Shelving shall be anchored to the floor by fixings capable of resisting the horizontal shear forces caused by horizontal and vertical loads on the binning.

e. Where binning is subjected only to gravity loads plus incidental horizontal forces from loading and off-loading of shelves, each upright on the perimeter of a run shall be fixed to the floor through its base plate by a bolt, stud or other such fixing capable of safely resisting a horizontal shear load of not less than 3kN and a tensile force of not less than 2kN.

f. The factor against overturning of the entire binning run shall not be less than 1.4. Stabilizing forces provided by the floor fixings shall not be considered in checking overturning, unless these are especially designed and installed to resist the uplift forces.

g. The binning shall be installed with a maximum deviation from the vertical of 1 in 500 of height.
F.3 GENERAL SYSTEM REQUIREMENTS

F.3.1 Finishes
a. All components shall be free from sharp edges and protrusions and shall be galvanized or epoxy coated.
b. Indicate the finish of all components in the tender submission.
c. All Offerors must supply a list of available color finishes.
d. The finishing process shall ensure that all edges are properly covered and sealed. Any components not completely finished in this manner will be rejected and a replacement installed.
e. All Offerors must specify the proposed preparation and finish techniques to be employed.
f. All minimum dry film paint thickness must be specified in the instance of epoxy finish.
g. All paint finish may be subject to inspection of paint adhesion and surface preparation test by Client and an independent paint inspector.

F.3.2 Requirements on the Materials Steel Structure Type: Hot or cold – rolled profiles.

a. Steel grade: To be specified by offeror
b. Bolts and nuts: Steel grade 8.8 electro galvanized
c. Anchors for floor fixing shall be chemical anchor type.
d. The bidder must be able to prove the quality and origin of the materials by certification; this will be subject to an approval by Client

F.3.3 Requirements on Manufacturing

a. All welding shall be performed by certified welders.
b. On the request of the Client, the copies of welder certifications must be made available.
c. The ends of all tubular components must be sealed with plastic end caps
d. Length of all bolts should generally be chosen to avoid excess protrusion beyond the fixing nut, typically by 2 to 3 threads.

F.3.4 Requirements on Installation

a. Packaging & shipping, storage and installation of the storage system shall be with due care to minimize any damage.
b. Damaged parts are to be repaired and paint touch-ups effected as required.
c. Welding on site is not allowed without prior authorization and required occupational health and safety regulations followed. A suitable screened area shall be set up by the installer.
d. During installation, the offeror takes care of bracing the storage structure where necessary.
e. The successful offeror carries full responsibility for familiarizing themselves with the site in respect of the way storage structures can be brought in, located and installed.
F.3.5 Standardization

a. To minimize the number of spare parts that need to be stored and to simplify the racking installation as much as possible, the use of standard components is encouraged i.e. a common slot profile and hook connector.

b. Offerors are to confirm to what extent, and how, this has been achieved.
ATTACHMENT G - FUNCTIONAL AND TECHNICAL SPECIFICATIONS – MATERIALS HANDLING EQUIPMENT

G.1 FUNCTIONAL SPECIFICATIONS

G.1.1 OVERVIEW

This section calls for the supply, delivery, installation, commissioning and driver training of:

- Electric Articulated Narrow Aisle Stacker

Articulated Narrow Aisle Stackers will be fitted with RF data communication equipment all of which will be supplied free issue by others.

The Offeror must allow for the installation of the RF equipment mounting brackets. The brackets will be supplied to the appointed supplier for functional electrical and mechanical fitment prior to the fork-truck’s delivery on site.

G.1.2 Reference Drawings:

- Warehouse Plan for Chipata and Mpika
- Sections for Chipata and Mpika

G.1.3 APPLICATION PARAMETERS

G.1.3.1 LOAD UNITS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Pallet + Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4-Way Entry, Perimeter Based Euro Pallet</td>
</tr>
<tr>
<td>Entry / Width</td>
<td>800mm</td>
</tr>
<tr>
<td>Depth</td>
<td>1,200mm</td>
</tr>
<tr>
<td>Height</td>
<td>1350mm (pallet plus load)</td>
</tr>
<tr>
<td>Mass</td>
<td>800kg</td>
</tr>
</tbody>
</table>

G.1.3.2 PERFORMANCE SPECIFICATIONS AND DUTY

All equipment must be continuously rated and capable of operating 8 hours per day on an ongoing basis. For maintenance and spare parts consideration, an 8-hour, five-day week should be considered.
G.2 MHE REQUIREMENTS

G.2.1 GENERAL RFP REQUIREMENTS FOR MHE EQUIPMENT

Full details must be submitted for the following:

- Detailed tender price breakdown.
- Capital cost per truck including battery and battery station for charging the two specified articulated lift trucks simultaneously.
- All routine service, including all labor and parts and call outs for period of 2 years following final acceptance.
- Maintenance schedule.
- Driver training.
- Warranties – 2 year.
- Delivery and installation schedule.

G.2.2 ARTICULATED NARROW AISLE LIFT TRUCK (2-off required)

The ergonomic design of the Articulated Narrow Aisle Lift Truck is to be capable of regular pallet storage and retrieval to ensure sufficient safety and ease of operation. All Offerors are requested to submit a detailed specification for the following:

- Lift height to top of beam 8000mm.
- Minimum operating aisle (pallet face-to-pallet face) 2400mm based on the load parameters in item 4.2.1
- Specify lowered height of machine.
- Minimum Load Capacity: 800kg lift capacity at all levels.
- 1150mm Fork length.
- Load Centre: 600mm.
- Specify the truck unladen weight including battery.
- Machines to be fitted with strobe light.
- Floor tolerance required, generally following the recommendations for free roaming forks lift trucks (FM2) within the guideline of the Concrete Society T34 Document.
- Static and dynamic wheel loads of the machines with/without loads. Wheel type and dimensions must be indicated.
• Battery charger specifications, power requirements and connections (8-hour automatic chargers required). The battery station should be able to charge two articulated trucks simultaneously.

• **One battery require** per Articulated Narrow Aisle Lift truck. An **additional battery** (1-off) is to be offered to ensure operational redundancy. The battery specifications to include maximum capacity rating, including a detail indication of sizes and methods of exchange.

• Width of transfer aisle 4000mm.

• Specify minimum end aisle clearance required.

• Details of fixture and power supply capability for RF data communication equipment.
H.1 FUNCTIONAL AND TECHNICAL SPECIFICATIONS

H.1.1 OVERVIEW

This section calls for the supply, delivery and installation, of:

- Stand On and Aisle Wash Safety Shower
- Safety Storage Cabinet
- Spill Kit
- Reverse Osmosis Battery Water System
- Signage

H.1.2 Reference Drawings:

- Warehouse Plan for Chipata and Mpika
- Sections for Chipata and Mpika

H.1.3 STAND ON AND AISLE WASH SAFETY SHOWER

H.1.3.1 Features

The wash safety shower should be an emergency stainless steel combination shower with hand/foot operated eyewash. The shower unit should be:

- Freestanding for stand-alone operation
- Stainless steel pipe work and stay-open ball valve
- Stainless steel 200 mm (8”) shower head assembly
- Stainless steel pull rod activated shower with high visibility yellow epoxy coating
- Push or foot activated eyewash with soft aerated flow and integral auto-open dust covers

The schematic diagrams below are an indication only of the unit required. Offerors are free to offer alternative whose specifications are equal to or higher than those indicated herein.
## H.1.3.2 Technical Information

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Minimum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Inlet connection</td>
<td>25mm (1&quot;)</td>
</tr>
<tr>
<td>2</td>
<td>Waste water outlet</td>
<td>38mm (1 1/4&quot;)</td>
</tr>
<tr>
<td>3</td>
<td>Mounting base plate</td>
<td>150x150mm with 4 bolt holes</td>
</tr>
<tr>
<td>4</td>
<td>Min flow requirements - Shower</td>
<td>76 lpm</td>
</tr>
<tr>
<td>5</td>
<td>Min flow requirements – Eye wash</td>
<td>17 lpm</td>
</tr>
</tbody>
</table>
H.1.4 SAFETY STORAGE CABINET

The safety storage cabinet will primarily be used for the storage of the spill kit items and any items considered for the safety of the battery room. The following is the general specification for the recommended cabinet:

- Size of cabinet: 250 Litres
- Dimensions: 191 x 110 x 51 cm
  - Forklift-friendly
  - Self-closing, two point lockable doors
  - Integral vents with flash arrestors
  - Strong adjustable shelving that allows free air movement
  - Earth grounding point
  - Durable powder-coat finish
  - Preferably Yellow colour

The schematic diagrams below are an indication only of the unit required. Offerors are free to offer alternative whose specifications are equal to or higher than those indicated herein.
H.1.5 SPILL KIT

Spill Kits are to be complete with the components required to contain and absorb battery acid spills. The following components should be included in the Spill Kit to be provided by the Bidder:

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Safety Sorbent</td>
<td>bag</td>
<td>11kg</td>
</tr>
<tr>
<td>2</td>
<td>Resealable Plastic Drum</td>
<td>208l</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Universal Chemical Socks</td>
<td>1201mm</td>
<td>24</td>
</tr>
<tr>
<td>4</td>
<td>Acid Resistant Aprons</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Broom and Dustpan Set</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Disposal Bags with ties</td>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>Acid Neutralizer</td>
<td>Cartons</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>Face Shields</td>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Disposable Overboots</td>
<td>Pair</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Nitrile Gloves</td>
<td>Pair</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Safety Goggles</td>
<td>Pair</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>Universal Chemical Pads</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>Universal Chemical Pillows</td>
<td>No</td>
<td>6</td>
</tr>
</tbody>
</table>

The picture below gives a visual description of the required Spill Kit.
H.1.6 REVERSE OSMOSIS BATTERY WATER SYSTEM

The system is intended for use on distilled water supplies for forklift batteries. And other uses requiring pure water.

Specifications for the reverse osmosis battery water system

Stage 1 Sediment Filter
Stage 2 Activated Carbon Block Filter
Stage 3 Reverse Osmosis Membrane
Stage 4 Activated Carbon Polishing Filter
Storage Tank - Plastic Tank - 3.8 Gallons
Faucet - Chrome – Standard

Performance Data

Average Reduction**** % 85% minimum
Typical System Flow Sequence Sediment Filter ♦ Activated Carbon Prefilter ♦ Reverse Osmosis Membrane ♦ Storage Tank ♦ Activated Carbon Postfilter ♦ Dispensing - Faucet
Sediment Filter (Stage 1) . . . . . 5 Micron
Activated Carbon Prefilter (Stage 2) - Granular Activated Carbon
Reverse Osmosis Membrane (Stage 3) - Thin Film Composite (75 GPD)
Polishing Filter (Stage 4) - Granular Activated Carbon or Carbon Block
Ratio of Product to Flush Flow2 - Standard Applications 1:0.001
Storage Capacity Plastic - Capacity 3.8 Gallons (14.36 Liters) - Average

An illustrative picture of the type of fencing required is given below
**H.1.7 SIGNAGE**

In order to improve safety in the warehouses, Offerors are required to supply and install (where directed) a signage posting kit consisting of nine signs for display in the Battery Room at each warehouse.

**H.1.6.1 Features of Signage**

- Laminated surfaces
- Intermediate vinyl mounted on 020 thin PVC
- Double sided tape affixed to back of signs
- Hole for screw mounting onto walls

![Signage Images](images)
### H.1.6.2 Technical Information

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST 1008</td>
<td>Battery spill response kit</td>
<td>300 x 700 mm (12”X 28”)</td>
</tr>
<tr>
<td>PST1009</td>
<td>Personal protective kit</td>
<td>300 x 560 mm (12”X22”)</td>
</tr>
<tr>
<td>PST 1010</td>
<td>Watch for forklifts</td>
<td>300 x 380mm (12”x 15”)</td>
</tr>
<tr>
<td>PST 1011</td>
<td>Battery changing area</td>
<td>300 x 380mm (12”x 15”)</td>
</tr>
<tr>
<td>PST 1012</td>
<td>Broken- do not use needs repair</td>
<td>200 x 225 mm (8”X9”)</td>
</tr>
<tr>
<td>PST1013</td>
<td>No smoking</td>
<td>300 x 380mm (12”x 15”)</td>
</tr>
<tr>
<td>PST 1014</td>
<td>Electrical hazard</td>
<td>300 x 380mm (12”x 15”)</td>
</tr>
<tr>
<td>PST 1015</td>
<td>Room contains energized batteries and corrosive liquids</td>
<td>300 x 900mm (12”x 36”)</td>
</tr>
<tr>
<td>PST 1016</td>
<td>Emergency eye wash</td>
<td>300 x 450mm (12”x 18”)</td>
</tr>
</tbody>
</table>
ATTACHMENT I - FUNCTIONAL AND TECHNICAL SPECIFICATIONS – MISCELLANEOUS

I.1 FENCING AND GATES

I.1.1 FUNCTIONAL AND TECHNICAL SPECIFICATIONS

I.1.1.1 OVERVIEW

This section calls for the supply, delivery and installation, of:

- Fencing with double sliding gates between grid line 8-10 and C-B
- Fencing and gate with roof for Narcotics cage
- Ultrasonic Rodent Repellent System and Insect Executors

I.1.1.2 Reference Drawings:-

- Warehouse Plan for Chipata and Mpika
- Sections for Chipata and Mpika

I.1.2 FENCING WITH DOUBLE SLIDING GATE – GRIDS 8-10, C-B AREA

I.1.2.1 Fencing

The area indicated between the grid lines 8-10 and C-B in the warehouse (refer to plan) is to be partitioned off using wire mesh supported on free standing steel tubular posts centered at equal spacing along its length and breadth with a double sliding steel tubular gate along grid line 8 at the far end. The bidder is required to design the fencing partition and determine the spacing of posts required to ensure both strength and stability of the partition. An illustrative picture of the type of fencing required is given below.
Specifications for Partition Fence

Mesh Material – Steel wire

Mesh Size – 50mm x 50mm x 2.5mm dia Weld Mesh hung in the vertical & attached to the structure and 2 No x 3.15mm dia straining wires secured with 2mm dia binding wire.

Frame Material – Structural angle steel

Stiffening profile- 12mm diameter reinforcement rod

Post Height – 3000mm (10feet)

Post Material – Hollow Structural Tubing

Size of tubing – Minimum 50x50mm (2”x2”)

Base plate sizes for posts – 150 x 150 x 6mm (6”x6”x ¼”)

Finish coat – Powder coated

Color for Posts – Grey

Color for wire mesh- Factory finish (galvanized)

Sliding Gates

Along grid line 8 as indicated in the layout plan for the warehouse, there is a requirement to fabricate, supply and install a Bi - Parting sliding gate with specifications as those indicate for the fencing above. Additional information for the sliding gates are as follows;

Height – 3000mm (10feet)

Width – 2400mm (8feet)

Upper tracks – Galvanized tracks and hangers (see example below)

Lower tracks- Castor roller wheels with floor guides

Door stop- to be attached to the right door

Locking Mechanism – Latch and key ( see example below)

An illustrative picture of the type of gate required is given below
EXAMPLE:
Typical 10W x 9H bi-parting tunnel gate shown here. Reinforcement tube is included on all bi-parting tunnel gates for extra support and rigidity. Panel configuration and quantity will vary based on gate dimensions.

Track #2: Galvanized track welded to 2" x 2" reinforcement tube.
I. 1.3.1 FENCING AND GATE WITH ROOF FOR NARCOTICS CAGE

I.1.3.1.1 Fencing

The area indicated as Narcotics Cage (refer to plan) is to be partitioned off using wire mesh supported on free standing steel tubular posts centered at equal spacing along its length, breadth and roof with a steel tubular single swing gate at the entrance to this area. The bidder is required to design the fencing partition and determine the spacing of posts required to ensure both strength and stability of the cage partition. An illustrative picture of the type of cage required is given below.

![Illustrative picture of a cage](image-url)

**Specifications for Partition Cage**

- **Mesh Material** – Steel wire
- **Mesh Size** – 25mm x 25mm x 2mm welded mesh
- **Frame Material** – Structural angle steel
- **Stiffening profile** – 12mm diameter reinforcement rod
- **Post Height** – 3000mm (10feet)
Post Material – Hollow Structural Tubing

Size of tubing – Minimum 50x50mm (2”x2”)

Base plate sizes for posts – 150 x 150 x 6mm (6”x6”x ¼”)

Finish coat – Powder coated

Color for Posts – Grey

Color for wire mesh- Factory finish (galvanized)

**Single Swing Gate**

At the entrance to the Narcotics Cage as indicated in the layout plan for the warehouse, there is a requirement to fabricate, supply and install a single swing gate with specifications as those indicate for the fencing above. Additional information for the swing gate are as follows;

Height – 3000mm (10 feet)

Width – 1200mm (4 feet)

Locking Mechanism – Panic bar (see example below)

An illustrative picture of the type of gate required is given below
The swing gate should be hinged at the left, opening out

Locking mechanism

**I.1. Rodent Repellent Systems and Insect Killing Lights**

Offerors are required to Supply and Install an Ultrasonic Rodent Repelling System and Insect Executors in the warehouses generally covering all the spaces open and enclosed.

The following are guidelines for the requirements of rodent repellent system and insect executors:

**I.1.1 Ultrasonic Rodent Repelling System Controller**
The controller should have the following features;
- Able to cover an area of up to 1000m²
- Can support up to 20 transducers
- Dedicated Driver for each transducer.
- Inbuilt USB Port (Optional) for report generation.
- 8 Wave Speeds, 7 Wave Densities and 5 Frequency Bands of Operation
- Transducer Sound Output Verification and Analysis

<table>
<thead>
<tr>
<th>Operating Frequency</th>
<th>Above 20 KHz (variable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>40 W approximately</td>
</tr>
<tr>
<td>Power Output</td>
<td>250 mW per transducer</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230 V AC 50 Hz</td>
</tr>
<tr>
<td>Sound Output</td>
<td>80 dB to 110 dB (at 1m)</td>
</tr>
</tbody>
</table>

**Transducers:**
- Each transducer protects an open space of 30m².
- It is monopolar in nature and does not have any sparking risk.
- The transducers do not need a power connection.
- They can be tested on an audible range using self-testing unit.

**Cables:**
- 2 core flexible (14/40) SWG, specially coated CT cables for connecting the transducers with the Controller.

**Mounting:**
- Stand and bracket accessories that helps in mounting the controller. These should be powder coated.

### I.1.2 Insect Electrocuter

The insect electrocutor shall be of the commercial ultraviolet light type.

The unit should have the following features;
- 80 watts of bug-drawing UV light that radiates out from 360 degrees
- Ultraviolet Light Insect Electrocuter should be hung from the ceiling at strategically located place so as not to interfere with the operations of forklifts and other equipment in the warehouse
- The electrocutor should be able to protect up to 700m²
- The electrocutor should have a removable drawer, for collection and removal of dead insects:
ATTACHMENT J – ENVIRONMENTAL MITIGATION & MONITORING PLAN

Per section 1.6 of this RFP, the environmental mitigation & monitoring plan (EMMP) for GHSC-PSM can be found on the following link on the Chemonics website:

https://www.dropbox.com/home?preview=GHSC_PSM_EMMP.pdf

Based on the requirement of the EMMP (linked above), all offerors will be required to complete an Environmental Risk and Occupational Health and Safety Compliance Plan (EHSCP) in the provided template. The template for this plan can be found at the following link:

https://www.dropbox.com/sh/87y58xxymi1mvq/AAC4x0Ln7As06SXoqkffT7-Ra?dl=0