



# **INVITATION TO BID**

**Nº JOF-0257-31196/2017**

**July, 2017**

## Section 1. Letter of Invitation

Brasília, 11 July 2017.

### **RAC System Components, Equipment, Tools and Consumables for the Implementation of HCFC Containment Demonstration Projects in Brazilian Supermarkets – Northeast Region**

Dear Sir(s)/Madam(s),

We hereby invite you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents:

- Section 1 – This Letter of Invitation
- Section 2 – Instructions to Bidders (including Data Sheet)
- Section 3a – Schedule of Requirements and Technical Specifications
- Section 3b – Related Services
- Section 4 – Bid Submission Form
- Section 5 – Documents Establishing the Eligibility and Qualifications of the Bidder
- Section 6 – Technical Bid Form
- Section 7 – Price Schedule Form
- Section 8 – Form for Bid Security **(Not Applicable)**
- Section 9 – Form for Performance Security **(Not Applicable)**
- Section 10 – Form for Advanced Payment Guarantee **(Not Applicable)**

Your offer, comprising of a Technical Bid and Price Schedule, together in a sealed envelope, should be submitted in accordance with this Invitation to Bid – ITB

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

**UN House Brazil**

**JOF - Joint Operations Facility**

**Ref. Bid JOF-0257-31196/2017**

Casa das Nações Unidas no Brasil

Setor de Embaixadas Norte, Quadra 802, Conjunto C, Lote 17

Complexo Sergio Vieira de Mello, Módulo I, Prédio Zilda Arns, Salas 117 a 123

CEP 70800-400 – Brasília, DF - Brasil

The letter should be received no later than **11 August 2017 at 6 p.m. (Brasília local time)**. The same letter should advise whether your company intends to submit a Bid. If that is not the case, we would appreciate your information on the reasons of non-participation, for our records.

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

**Date: 19 July 2017**

**Hour: 10:00 a.m.**

**Venue: ABRAVA - Auditório da Associação Brasileira de Refrigeração, Ar Condicionado, Ventilação e Aquecimento.**

**Address: Av. Rio Branco, 1492 – Campos Elíseos, 01206-001 – São Paulo (SP).**

We look forward to receiving your Bid and thanks you in advance for your interest in our procurement opportunities.

Cordially,  
JOF - Joint Operations Facility  
United Nations in Brazil

## Section 2: Instruction to Bidders<sup>1</sup>

### Definitions

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

---

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

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

## A. GENERAL

1. UNDP hereby solicits Bids as a response to this Invitation to Bid (ITB). Bidders must strictly adhere to all the requirements of this ITB. No changes, substitutions or other alterations to the rules and provisions stipulated in this ITB may be made or assumed unless it is instructed or approved in writing by UNDP in the form of Supplemental Information to the ITB.
2. Submission of a Bid shall be deemed as an acknowledgement by the Bidder that all obligations stipulated by this ITB will be met and, unless specified otherwise, the Bidder has read, understood and agreed to all the instructions in this ITB.
3. Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of any Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.
4. UNDP implements a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical practices, and obstruction. UNDP is committed to preventing, identifying and addressing all acts of fraud and corrupt practices against UNDP as well as third parties involved in UNDP activities. (See [http://www.undp.org/about/transparencydocs/UNDP Anti Fraud Policy English FINAL june 2011.pdf](http://www.undp.org/about/transparencydocs/UNDP_Anti_Fraud_Policy_English_FINAL_june_2011.pdf) and [http://www.undp.org/content/undp/en/home/operations/procurement/procurement\\_protest/](http://www.undp.org/content/undp/en/home/operations/procurement/procurement_protest/) for full description of the policies)
5. In responding to this ITB, UNDP requires all Bidders to conduct themselves in a professional, objective and impartial manner, and they must at all times hold UNDP’s interests paramount. Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. All Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:

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

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

6. Similarly, the following must be disclosed in the Bid:

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

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

7. The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered as an independent entity, the extent of Government ownership/share, receipt of subsidies, mandate, access to information in relation to this ITB, and others that may lead to undue advantage against other Bidders, and the eventual rejection of the Bid.
8. All Bidders must adhere to the UNDP Supplier Code of Conduct, which may be found at this link: <http://web.ng.undp.org/procurement/undp-supplier-code-of-conduct.pdf>

## **B. CONTENTS OF BID**

### **9. Sections of Bid**

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

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

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

#### 10. Clarification of Bid

- 10.1 Bidders may request clarification of any of the ITB documents no later than the number of days indicated in the **Data Sheet** (DS no. 16) prior to the Bid submission date. Any request for clarification must be sent in writing via courier or through electronic means to the UNDP address indicated in the **Data Sheet** (DS no. 17). UNDP will respond in writing, transmitted by electronic means and will transmit copies of the response (including an explanation of the query but without identifying the source of inquiry) to all Bidders who have provided confirmation of their intention to submit a Bid.
- 10.2 UNDP shall endeavor to provide such responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bid, unless UNDP deems that such an extension is justified and necessary.

#### 11. Amendment of Bid

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

### C. PREPARATION OF BID

#### 12. Cost

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

#### 13. Language

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

#### 14. Bid Submission Form

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

#### 15. Technical Bid Format and Content

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

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

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

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



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

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

- 15.4 Where the **Data Sheet** requires the submission of the Bid Security, the Bid Security shall be included along with the Technical Bid. The Bid Security may be forfeited by UNDP, and reject the Bid, in the event of any or any combination of the following conditions:

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

## 16. Price Schedule

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

## 17. Currencies

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

- 17.1 UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bid; and
- 17.2 In the event that the Bid found to be the most responsive to the ITB requirement is quoted in another currency different from the preferred currency as per **Data Sheet** (DS no. 15), then UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.

## **18. Documents Establishing the Eligibility and Qualifications of the Bidder**

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

## **19. Joint Venture, Consortium or Association**

If the Bidder is a group of legal entities that will form or have formed a joint venture, consortium or association at the time of the submission of the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the joint venture jointly and severally, and this shall be duly evidenced by a duly notarized Agreement among the legal entities, which shall be submitted along with the Bid; and

(ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all entities that comprise the joint venture.

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

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

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

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

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

Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the joint venture or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials.

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

## 20. Alternative Bid

Unless otherwise specified in the **Data Sheet** (DS nos. 5 and 6), alternative bid shall not be considered. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative bid.

## 21. Validity Period

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

## 22. Bidder's Conference

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

## D. SUBMISSION AND OPENING OF BID

### 23. Submission

23.1 The Technical Bid and the Price Schedule **must be submitted together and sealed together in one and the same envelope**, delivered either personally, by courier, or by electronic method of transmission. If submission will not be done by electronic means, the Technical Bid and Price Schedule must be sealed together in an envelope whose external side must:

- a) Bear the name of the Bidder;
- b) Be addressed to UNDP as specified in the **Data Sheet** (DS no.20); and
- c) Bear a warning not to open before the time and date for Bid opening as specified in the **Data Sheet** (DS no. 24).

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

23.2 Bidders must submit their Bid in the manner specified in the **Data Sheet** (DS nos. 22 and 23). When the Bid is expected to be in transit for more than 24 hours, the Bidder must ensure that sufficient lead time has been provided in order to comply with UNDP's deadline for submission. UNDP shall indicate for its record that the official date and time of receiving the Bid is the actual date and time when the said Bid has physically arrived at the UNDP premises indicated in the **Data Sheet** (DS no. 20).

23.3 Bidders submitting Bid by mail or by hand shall enclose the original and each copy of the Bid, in separate sealed envelopes, duly marking each of the envelopes as "Original Bid" and the others as "Copy of Bid". The two envelopes, consisting of original and copies, shall then be sealed in an outer envelope. The number of copies required shall be as specified in the **Data Sheet** (DS no. 19). In the event of any discrepancy between the contents of the "Original Bid" and the "Copy of Bid", the contents of the original shall govern. The original version of the Bid shall be signed or initialed by the Bidder or person(s) duly authorized to commit the Bidder on every page. The authorization shall be communicated through a document evidencing such authorization issued by the highest official of the firm, or a

Power of Attorney, accompanying the Bid.

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

#### **24. Deadline for Submission of Bid and Late Bids**

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

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

#### **25. Withdrawal, Substitution, and Modification of Bid**

25.1 Bidders are expected to have sole responsibility for taking steps to carefully examine in detail the full consistency of its Bid to the requirements of the ITB, keeping in mind that material deficiencies in providing information requested by UNDP, or lack clarity in the description of goods and related services to be provided, may result in the rejection of the Bid. The Bidder shall assume any responsibility regarding erroneous interpretations or conclusions made by the Bidder in the course of understanding the ITB out of the set of information furnished by UNDP.

25.2 A Bidder may withdraw, substitute or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 23, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be received by UNDP prior to the deadline for submission and submitted in accordance with ITB Clause 23 (except that withdrawal notices do not require copies). The respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," or "MODIFICATION".

25.3 Bid requested to be withdrawn shall be returned unopened to the Bidders.

25.4 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bid and the expiration of the period of Bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.

#### **26. Bid Opening**

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

The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the

number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submission, for which the Bid shall be returned unopened to the Bidder.

## **27. Confidentiality**

Information relating to the examination, evaluation, and comparison of Bid, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.

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

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

## **E. EVALUATION OF BID**

### **28. Preliminary Examination of Bid**

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

### **29. Evaluation of Bid**

29.1 UNDP shall examine the Bid to confirm that all terms and conditions under the UNDP General Terms and Conditions and Special Conditions have been accepted by the Bidder without any deviation or reservation.

29.2 The evaluation team shall review and evaluate the Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the **Data Sheet** (DS No. 25). Absolutely no changes may be made by UNDP in the criteria after all Bids have been received.

29.1 UNDP reserves the right to undertake a post-qualification exercise, aimed at determining, to its satisfaction the validity of the information provided by the Bidder. Such post-qualification shall be fully documented and, among those that may be listed in the **Data Sheet** (DS No.33), may include, but need not be limited to, all or any combination of the following :

a) Verification of accuracy, correctness and authenticity of the information provided by the

- bidder on the legal, technical and financial documents submitted;
- b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team;
  - c) Inquiry and reference checking with Government entities with jurisdiction on the bidder, or any other entity that may have done business with the bidder;
  - d) Inquiry and reference checking with other previous clients on the quality of performance on on-going or previous contracts completed;
  - e) Physical inspection of the bidder's plant, factory, branches or other places where business transpires, with or without notice to the bidder;
  - f) Testing and sampling of completed goods similar to the requirements of UNDP, where available; and
  - g) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.

### **30. Clarification of Bid**

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

UNDP's request for clarification and the Bidder's response shall be in writing. Notwithstanding the written communication, no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bid, in accordance with ITB Clause 35.

Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bid.

### **31. Responsiveness of Bid**

UNDP's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the ITB without material deviation, reservation, or omission.

If a Bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.

### **32. Nonconformities, Reparable Errors and Omissions**

32.3 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.

32.4 Provided that a Bid is substantially responsive, UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

32.5 Provided that the Bid is substantially responsive, UNDP shall request to bidders to correct arithmetical errors as follows:

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

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

## **F. AWARD OF CONTRACT**

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

33.1 UNDP reserves the right to accept or reject any Bid, to render any or all of the Bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. Furthermore, UNDP is not obligated to award the contract to the lowest price offer.

33.2 UNDP shall also verify, and immediately reject their respective Bid, if the Bidders are found to appear in the UN's Consolidated List of Individuals and Entities with Association to Terrorist Organizations, in the List of Vendors Suspended or Removed from the UN Secretariat Procurement Division Vendor Roster, the UN Ineligibility List, and other such lists that as may be established or recognized by UNDP policy on Vendor Sanctions. (See [http://www.undp.org/content/undp/en/home/operations/procurement/procurement\\_protest/](http://www.undp.org/content/undp/en/home/operations/procurement/procurement_protest/))

### **34. Award Criteria**

Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price (See DS No. 32).

### **35. Right to Vary Requirements at the Time of Award**

At the time of award of Contract, UNDP reserves the right to vary the quantity of the goods and/or related services, by up to a maximum twenty five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.



### **36. Contract Signature**

Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP.

Failure of the successful Bidder to comply with the requirement of ITB Section F.3 and this provision shall constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security if any, and on which event, UNDP may award the Contract to the Bidder with the second highest rated Bid, or call for new Bid.

### **37. Performance Security**

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

### **38. Bank Guarantee for Advanced Payment**

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

### **39. Vendor Protest**

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

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

## Instructions to Bidders

### DATA SHEET<sup>2</sup>

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

DS No.	Cross Ref. to Instructions	Data	Specific Instructions / Requirements
1		Project Title:	HCFC Phase Out Management Plan (HPMP) Brazil – Better HCFC-22 Containment Projects in Brazilian Supermarkets
2		Title of Goods/Services/Work Required:	RAC System Components, Equipment, Tools and Consumables for the Implementation of HCFC Containment Demonstration Projects in Brazilian Supermarkets – Northeast Region.
3		Country:	Brazil
4	C.13	Language of the Bid:	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Others – <b>Portuguese</b>
5	C.20	Conditions for Submitting Bid for Parts or sub-parts of the Total Requirements	<input checked="" type="checkbox"/> Allowed, <b>Bids per lot are accepted</b>
6	C.20	Conditions for Submitting Alternative Bid	<input checked="" type="checkbox"/> Shall not be considered
7	C.22	A pre-Bid conference will be held on:	<b>19 July 2017 at 10 a.m.- Brasília Local Time</b> Venue: Auditoria da Associação Brasileira de

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

			Refrigeração, Ar Condicionado, Ventilação e Aquecimento (ABRAVA) Address: Av. Rio Branco, 1492 – Campos Elíseos, 01206-001 – São Paulo (SP).
8	C.21.1	Period of Bid Validity commencing on the submission date	<input checked="" type="checkbox"/> 120 days
9	B.9.5 C.15.4 b)	Bid Security	<input checked="" type="checkbox"/> Not Required
10	B.9.5	Acceptable forms of Bid Security	n/a
11	B.9.5 C.15.4 a)	Validity of Bid Security	n/a
12		Advanced Payment upon signing of contract	<input checked="" type="checkbox"/> Not allowed
13		Liquidated Damages	<input checked="" type="checkbox"/> Will be imposed under the following conditions: Percentage of contract price per day of delay:0,5% Max. no. of days of delay :10 days Next course of action : Termination of contract
14	F.37	Performance Security	<input checked="" type="checkbox"/> Not Required
15	C.17 C.17.2	Preferred Currency of Bid and Method for Currency conversion	<input checked="" type="checkbox"/> United States Dollars (US\$) <input checked="" type="checkbox"/> Local Currency - <b>Real</b>  Reference date for determining UN Operational Exchange Rate: UN Exchange Rate valid on the Bid Opening Section ( <b>August, 2016</b> ) <a href="http://treasury.un.org/operationalrates/OperationalRates.aspx">http://treasury.un.org/operationalrates/OperationalRates.aspx</a>
16	B.10.1	Deadline for submitting requests for clarifications/questions	<b>01 August 2017</b>
17	B.10.1	Contact Details for submitting clarifications/questions	<b>E-mail: <a href="mailto:licitacoes.jof@un.org.br">licitacoes.jof@un.org.br</a></b> <b>Ref: JOF-0257-31196/2017</b>

18	B.11.1	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	<input checked="" type="checkbox"/> Direct communication to prospective Bidders by email or fax, and Posting on the website <sup>3</sup> : <a href="http://www.un.org.br/licitacoes/Home/Licitacoes">http://www.un.org.br/licitacoes/Home/Licitacoes</a>
19	D.23.3	No. of copies of Bid that must be submitted	Original: 1 Copies : 1 hardcopy and one digital
20	D.23.1 b) D.23.2 D.24	Bid submission address	<b>UN House Brazil</b> <b>JOF - Joint Operations Facility</b> <b>Ref. JOF-0257-31196/2017</b> Casa das Nações Unidas no Brasil Setor de Embaixadas Norte, Quadra 802, Conjunto C, Lote 17 Complexo Sergio Vieira de Mello, Módulo I, Prédio Zilda Arns, Salas 117 a 123 CEP 70800-400 – Brasília, DF - Brasil
21	C.21.1 D.24	Deadline of Bid Submission	<b>11 August 2017 at 06:00 P.M- Brasília Local Time</b>
22	D.23.2	Manner of Submitting Bid	<input checked="" type="checkbox"/> Courier/Hand Delivery
23	D.23.2 D.26	Conditions and Procedures for electronic submission and opening, if allowed	N/A
24	D.23.1 c)	Date, time and venue for opening of Bid	Date and Time: <b>14 August 2017, 03:00 P.M- Brasília Local Time</b> Venue: <b>UN House Brazil</b> <b>Casa das Nações Unidas no Brasil</b> <b>Setor de Embaixadas Norte, Quadra 802, Conjunto C, Lote 17</b> <b>Complexo Sergio Vieira de Mello, Módulo I, Prédio Zilda Arns, Salas 117 a 123</b> <b>CEP 70800-400 – Brasília, DF - Brasil</b>
25		Evaluation method to be used in selecting the most responsive Bid	<input checked="" type="checkbox"/> Non-Discretionary “Pass/Fail” Criteria on the Technical Requirements; and <input checked="" type="checkbox"/> Lowest price offer of technically qualified/responsive Bid per lot

<sup>3</sup> Posting on the website shall be supplemented by directly transmitting the communication to the prospective offerors.

26	C.15.1	Required Documents that must be Submitted to Establish Qualification of Bidders (In “Certified True Copy” form only)	<input checked="" type="checkbox"/> Company Profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods/services being procured <input checked="" type="checkbox"/> List of Shareholders and Other Entities Financially Interested in the Firm owning 5% or more of the stocks and other interests, or its equivalent if Bidder is not a corporation <input checked="" type="checkbox"/> Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder <input checked="" type="checkbox"/> Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation <input checked="" type="checkbox"/> Trade name registration papers, if applicable <input checked="" type="checkbox"/> Local Government permit to locate and operate in the current location of office or factory <input checked="" type="checkbox"/> Official Letter of Appointment as local representative, if Bidder is submitting a Bid in behalf of an entity located outside the country <input checked="" type="checkbox"/> Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any <input checked="" type="checkbox"/> Certification or authorization to act as Agent in behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer <input checked="" type="checkbox"/> List of Bank References (Name of Bank, Location, Contact Person and Contact Details) .
27		Other documents that may be Submitted to Establish Eligibility	<p>In case of Brazilian Offerors, the legal status and registration will be verified based on the presentation of the following documents:</p> <p>a) Organizational Registration Document – Declaration of sole proprietor, By-Laws or Articles of Organization – in force, duly registered or enrolled in the proper organ, and evidencing the acting executive officers.</p> <p>b) Declaration of non-existence of nighttime work, hazardous or unhealthy conditions to minors less than eighteen years of age and, furthermore, that there are no minors less than sixteen years of age</p>

			<p>employed, except in the condition of apprentice, as from fourteen years of age.</p> <p>c) Debt Clearance Certificate in respect to Federal Taxes and Contributions issued by the Brazilian Federal Revenue Department.</p> <p>d) State or Federal District Tax and Social Contribution Debt Clearance Certificate issued by the relevant authority;</p> <p>e) Municipal Tax and Social Contribution Debt Clearance Certificates issued by the relevant authority;</p> <p>f) Debt Clearance Certificate (CND), issued by the Brazilian Federal Revenue Department.</p> <p>g) Certificate of Good Standing with Employee Severance Fund (“FGTS”), issued by Caixa Econômica Federal (CEF) [Federal Saving Bank];</p>
28	C.15	Structure of the Technical Bid and List of Documents to be Submitted	<p><b>Detailed product descriptions of each item with pictures incl. drawings, diagrams and tables, if applicable</b></p> <p><b>Inform delivery date and Incoterm DAP conditions</b></p>
29	C.15.2	Latest Expected date for commencement of Contract	Upon contract signature
30	C.15.2	Maximum Expected duration of contract	3 months
31		UNDP will award the contract to:	<input checked="" type="checkbox"/> One or more Bidders, depending on the following factors: best price offer of technically qualified offers <b>per lot will be awarded</b>
32	F.34	Criteria for the Award and Evaluation of Bid	<p><u>Award Criteria</u></p> <p><input checked="" type="checkbox"/> Non-discretionary “Pass” or “Fail” rating on the detailed contents of the Schedule of Requirements and Technical Specifications</p> <p><input checked="" type="checkbox"/> Compliance on the following qualification requirements :</p> <p><u>Bid Evaluation Criteria</u></p> <p><input checked="" type="checkbox"/> Quality Inspection and Testing Certificates for the goods to be supplied;</p> <p><input checked="" type="checkbox"/> After-sales service of at least 12 month;</p>

			<input checked="" type="checkbox"/> Warranty on parts and services for a minimum period of 12 month; <input checked="" type="checkbox"/> Acceptability of the Transportation/Delivery Schedule;
33	E.29	Post qualification Actions	<input checked="" type="checkbox"/> Verification of accuracy, correctness and authenticity of the information provided by the bidder on the legal, technical and financial documents submitted; <input checked="" type="checkbox"/> Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team;
34		Conditions for Determining Contract Effectivity	<input checked="" type="checkbox"/> Signature of contract by UNDP and the selected provider
35		Other Information Related to the ITB	Not Applicable

### Section 3a: Schedule of Requirements and Technical Specifications

#### Lot 1 Expansion, solenoid and ball valves, sight glasses and brazing adapters

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Expansion valves</b>						
1	Thermostatic Expansion Valve (TEV). Refrigerant HCFC R22.	60	Stainless steel TEV body with bimetal (stainless steel/copper) connections for brazing into a refrigeration system, PS 34 bar. Valve for interchangeable orifice assembly and external pressure equalisation.  Range: -40°C / +10°C Size: 3/8 x 1/2 (Ext. 1/4) Type: TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
2	Thermostatic Expansion Valve (TEV). Refrigerant HCFC R22.	6	Stainless steel TEV body with bimetal (stainless steel/copper) connections for brazing into a refrigeration system, PS 50 bar. Valve for interchangeable orifice assembly and internal pressure equalisation.  Range: -40°C / +10°C Size: 1/2" x 5/8" (Ext. 1/4) Type: TCAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.



3	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.  Nom. Capacity: R22 0,9 kW, Size: 1  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
4	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.  Nom. Capacity: R22 1,3 kW, Size: 2  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
5	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.  Nom. Capacity: R22 1,8 kW, Size: 3  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination,

						according to section 3b.
6	Orifice for Thermostatic Expansion Valve with stainless steel body.	9	Orifice assembly with filter and gasket.  Nom. Capacity: R22 2,6 kW Size: 4  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
7	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.  Nom. Capacity: R22 3,5 kW Size: 5  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
8	Orifice for Thermostatic Expansion Valve with stainless steel body.	12	Orifice assembly with filter and gasket.  Nom. Capacity: R22 5,3 kW Size: 6  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation

						until final destination, according to section 3b.
9	Orifice for Thermostatic Expansion Valve with stainless steel body.	9	Orifice assembly with filter and gasket.  Nom. Capacity: R22 7,0 kW Size: 7  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
10	Orifice for Thermostatic Expansion Valve with stainless steel body.	23	Orifice assembly with filter and gasket.  Nom. Capacity: R22 11,0 kW Size: 8,  Type: TUA/TUAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
11	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and

			Nom. Capacity: R22 16,0 kW Size: 9,  Type: TUA/TUAE or equivalent			insurance for transportation until final destination, according to section 3b.
12	Orifice for Thermostatic Expansion Valve with stainless steel body.	6	Orifice assembly with filter and gasket.  Nom. Capacity: R22 18,0 kW Size: 1,  Type: TCAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
13	Orifice for Thermostatic Expansion Valve with stainless steel body.	5	Orifice assembly with filter and gasket.  Nom. Capacity: R22 21,0 kW Size: 2,  Type: TCAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
	Orifice for Thermostatic Expansion Valve	5	Orifice assembly with filter and gasket.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may

14	with stainless steel body.		Nom. Capacity: R22 21,0 kW Size: 3,  Type: TCAE or equivalent			also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
15	Spare gasket	66	Orifice assembly.  Type: TUA/TUAE/TCAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
16	Spare filter	66	Orifice assembly.  Type: TUA/TUAE/TCAE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
17	Bulb Strap	60		Transport	Max. 90 days	Besides the

			<p>Sensor bulb fixation for max. 28mm tube diameter. Bulb strap with nut lock, strap and screw.</p> <p>Size: for tubes with diameter from 0,4 – max. 28 mm</p> <p>Type: TUA/TUAE/TCAE or equivalent</p>	until final destination	after signing of contract	product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
18	Bulb Strap	20	<p>Sensor bulb fixation for max. 50mm tube diameter. Bulb strap with nut lock, strap and screw.</p> <p>Size: for tubes with diameter from 0,4 – max. 50 mm</p> <p>Type: TUA/TUAE/TCAE or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
<b>Solenoid valves</b>						
19	Solenoid Valve, without Coil, with flanges for brazing connections.	10	<p>Normally closed, direct operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants, PS 42,5 bar.</p> <p>Kv value 0,270 m<sup>3</sup>/h</p> <p>Size: ¼"</p> <p>Type: EVR 3 or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination,

						according to section 3b.
20	Solenoid Valve, without Coil, with flanges for brazing connections.	45	Normally closed, direct operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants, PS 42,5 bar.  Kv value 0,270 m <sup>3</sup> /h  Size: 3/8"  Type: EVR 3 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
21	Solenoid Valve, without Coil, with flanges for brazing connections.	10	Normally closed, servo operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants, PS 42,5 bar.  Kv value 0,800 m <sup>3</sup> /h  Size: 1/2"  Type: EVR 6 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
22	Solenoid Valve, without Coil, with flanges for brazing connections.	10	Normally closed, servo operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants, PS 42,5 bar.  Kv value 0,800 m <sup>3</sup> /h  Size: 3/8"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation

			Type: EVR 6 or equivalent			until final destination, according to section 3b.
23	Coil for solenoid valve	40	Coil for clip-on fastening without tools. Leads are connected to terminal screws in the terminal box. The box is fitted with Pg. 13.5 screwed entry for 6 to 14 mm cable, coil enclosure IP 67.  10 Watt, 220-230 Volts, 60 Hz  Type: BE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
24	Service Kit for solenoid valve (Kv 0,160 - 0,270 m <sup>3</sup> /h)	25	The service kit is consisting of the O-ring, screw, armature assembly, rubber gasket, and compress spring.  Type: EVR 2&3 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
25	Service Kit for solenoid valve (Kv 0.800 m <sup>3</sup> /h)	25	The service kit is consisting of the diaphragm assembly, the O-ring for armature tube, screw T20, Screw T15, armature assembly, rubber gasket, O-ring for steal cover, support ring, compress	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and



			ring. Type: EVR 6 or equivalent			insurance for transportation until final destination, according to section 3b.
<b>Brazing adapters</b>						
26	Flare - Brazing adapter, size 1/4"/1/4"	50	Industrial manufactured flare/brazing adapter containing a copper seal which protects the flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.  Size: 1/4" / 1/4"  Type: FSA 22 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
27	Flare - Brazing adapter, size 3/8"/1/4"	30	Industrial manufactured flare/brazing adapter containing a copper seal which protects the flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.  Size: 3/8" / 1/4"  Type: FSA 32 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
28	Flare - Brazing adapter, size 3/8" / 3/8"	80	Industrial manufactured flare/brazing adapter containing a copper seal which protects the	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may

			<p>flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.</p> <p>Size: <math>\frac{3}{8}</math>" / <math>\frac{3}{8}</math>"</p> <p>Type: FSA 33 or equivalent</p>			also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
29	Flare - Brazing adapter, size $\frac{1}{2}$ " / $\frac{1}{2}$ "	30	<p>Industrial manufactured flare/brazing adapter containing a copper seal which protects the flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.</p> <p>Size: <math>\frac{1}{2}</math>" / <math>\frac{1}{2}</math>"</p> <p>Type: FSA 44 or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
30	Flare - Brazing adapter, size $\frac{5}{8}$ " / $\frac{5}{8}$ "	10	<p>Industrial manufactured flare/brazing adapter containing a copper seal which protects the flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.</p> <p>Size: <math>\frac{5}{8}</math>" / <math>\frac{5}{8}</math>"</p> <p>Type: FSA 516m or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
31	Flare - Brazing	10	Industrial manufactured	Transport	Max. 90 days	Besides the

	adapter, size $\frac{3}{4}$ " / $\frac{3}{4}$ "		flare/brazing adapter containing a copper seal which protects the flare collar against wear and fatigue. The copper seal ensures a tightness similar to that of brazed joints, PS 46 bar.  Size: $\frac{3}{4}$ " / $\frac{3}{4}$ "  Type: FSA 66 or equivalent	until final destination	after signing of contract	product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
32	Solder Adapter Copper Gasket Replacement 1/4"	1	Packaging unit of 300 pieces 1/4"  Type: B2-4 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
33	Solder Adapter Copper Gasket Replacement $\frac{3}{8}$ "	1	Packaging unit of 300 pieces $\frac{3}{8}$ "  Type: B2-6 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to

						section 3b.
34	Solder Adapter Copper Gasket Replacement ½"	1	Packaging unit of 200 pieces ½"  Type: B2-8 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
35	Solder Adapter Copper Gasket Replacement ⅝"	1	Packaging unit of 100 pieces ⅝"  Type: B2-10 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
36	Solder Adapter Copper Gasket Replacement ¾"	1	Packaging unit of 50 pieces ¾"  Type: B2-12 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

						destination, according to section 3b.
<b>Ball valves</b>						
37	Ball-Valve size $\frac{3}{8}$ " without access port for the cooling positions.	20	Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.  Size: $\frac{3}{8}$ "  Type: GBC 10 s or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
38	Ball-Valve size $\frac{3}{8}$ " without access port for the oil return line at the oil separator.	5	Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.  Size: $\frac{3}{8}$ "	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			Type: GBC 10 s or equivalent			
39	Ball-Valve size ½" without access port for the cooling positions	10	Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.  Size: ½"  Type: GBC 12 s or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
40	Ball-Valve size ⅜" without access port for the cooling positions	10	Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.  Size: ⅜"  Type: GBC 22 s or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
	Ball-Valve size 1⅜" without access port.	10	Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may

41			<p>with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.</p> <p>Size: 1<math>\frac{3}{8}</math>"</p> <p>Type: GBC 35 s or equivalent</p>			<p>also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.</p>
42	Ball-Valve size 1 $\frac{5}{8}$ " without access port.	10	<p>Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a minimum pressure loss and PS of 45 bar.</p> <p>Size: 1<math>\frac{5}{8}</math>", Type: GBC 42 s or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	<p>Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.</p>
43	Ball-Valve size 2 $\frac{1}{8}$ " without access port.	5	<p>Manual operated shut-off valve suitable for bi-directional flow of all fluorinated refrigerants and with brazing connections. Valve with one-piece wire seal cap to prevent unintentional cap removal or tampering between services, 1/4 turn for fully open to fully closed, full flow with a</p>	Transport until final destination	Max. 90 days after signing of contract	<p>Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final</p>

			<p>minimum pressure loss and PS of 45 bar.</p> <p>Size: 2½"</p> <p>Type: GBC 54s or equivalent</p>			destination, according to section 3b.
44	Ball -Valve Spare Service Kit / Multi Pack	2	<p>Valves from 1/4" to 7/8" - 21mm Multi-Pack 116 pieces</p> <p>Type: from GBC 6s to 22s or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
45	Ball -Valve Spare Service Kit / Multi Pack	1	<p>Valves from 1½" to 1¾" - 31mm Multi-Pack 120 pieces</p> <p>Type: from GBC 25s to 35s or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
46	Ball -Valve Spare Service Kit / Multi Pack	1	<p>Valves from 1¾" to 3¼" - 42mm, Multi-Pack 50 pieces</p> <p>Type: from GBC 38s to 79s or</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include



			equivalent			costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
<b>Sight glasses</b>						
47	Sight glass for HCFC R22 with brazing adapters and humidity indicator.	5	The sight glass will be used to indicate the condition of the refrigerant (including moisture content) and/or the flow in the oil return line from the oil separator. The maximum working pressure PS is 35 bar.  Size: 3/8" x 3/8" Type: SGI 10s or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
48	Sight glass for HCFC R22 with flaring connections and humidity indicator.	3	The sight glass will be used to indicate the condition of the refrigerant (including moisture content) and/or the flow in the oil return line from the oil separator. The maximum working pressure PS is 35 bar.  Size: 3/8" x 3/8" Type: SGI 10 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 2 Tubing components**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Tubing components</b>						
49	Flare Nut	100	Flare nut ¼" / 7/16" UNF  Type: DIN8912 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
50	Copper Cap (Gasket)	100	Copper Cap (Gasket) ¼" / 7/16" UNF  Type: DIN8912 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
51	Shutoff Valve with flare/solder and T-	10	Shutoff Valve with flare/solder and T-connection	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may

	connection		<p>¼" - Charging</p> <p>Type: HBLK6 or equivalent</p>			also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
52	Shutoff Valve with flare/solder and T-connection	5	<p>Shutoff Valve with flare/solder and T-connection</p> <p>⅜" - Evacuation</p> <p>Type: HBLK10 or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
53	Copper Gasket	100	Copper gasket 7/16"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
54	Copper Gasket	100	Copper gasket 5/8"	Transport	Max. 90 days	Besides the

				until final destination	after signing of contract	product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
55	Copper Seal	100	Copper seal 1/4" Type: CUD-06 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

### Lot 3 Filter/Strainer for cooling positions

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Filter/Strainer</b>						
56	Y- Filter Strainer with flanges for brazing connections for the oil return line at the oil-separator.	1	Removal of debris from refrigerant and oil, PS = 34,5 bar and for temperatures -29°C to 93°C. The strainer assembly is made from brass with a stainless steel mesh screen. The O-ring is made from neoprene.  Area 4520 mm <sup>2</sup> Mesh 100  Size: ¾" ODS	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
57	Copper Strainer, hermetically, for brazing connections, 30 bar	10	Copper strainers are used for filtering particles and contaminants with a stainless steel screen in the filter body. Brazed-in connections at in- and outlet side.  Size: 1/4"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
58	Copper Strainer, hermetically, for	60	Copper strainers are used for filtering particles and	Transport until final	Max. 90 days after signing	Besides the product price

	brazing connections, 30 bar		contaminants with a stainless steel screen in the filter body. Brazed-in connections at in- and outlet side.  Size: 3/8"	destination	of contract	the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
59	Copper Strainer, hermetically, for brazing connections, 30 bar	20	Copper strainers are used for filtering particles and contaminants with a stainless steel screen in the filter body. Brazed-in connections at in- and outlet side.  Size: 1/2"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 4 Flexible Process Control Lines and Adapter**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Flexible Process Control Lines and Adapter</b>						
60	Flexible process line with inner	4	Flexible refrigerant transfer line for connection of pressure limiter and controller.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may

	diameter of 4 mm, colour orange.		Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C. Diffusion tight and oil resistant.  Length of 10 metre			also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
61	Pressing connector without core depressor, straight, in <u>set of ten</u> pieces.	3	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  7/16", 4mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
62	Pressing connector without core depressor, elbow 90°, in <u>set of ten</u> pieces.	3	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  7/16", 4mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
63	Pressing connector	3	Flexible refrigerant transfer	Transport until	Max. 90 days	Besides the

	without core depressor, straight, in <u>set of ten</u> pieces.		line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  5/8", 4mm	final destination	after signing of contract	product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
64	Pressing connector without core depressor, elbow 90°, in <u>set of ten</u> pieces.	3	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  5/8", 4mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
65	Pressing connector T-fitting, in <u>set of ten</u> pieces.	3	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  4mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to



						section 3b.
66	Hydraulic pressing pliers for DN 4mm pressing operation	1	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  4mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
67	Core depressor opener in set of 50 pieces	1	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
68	Tube cutter	1	Flexible refrigerant transfer line connection tool	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

						destination, according to section 3b.
69	Spare blade for tube cutter in set of two pieces	1	Flexible refrigerant transfer line accessories.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
70	Copper gaskets in set of 50 pieces	2	Flexible refrigerant transfer line accessories for connection of pressure limiter and controller. Maximum operational pressure PS is 60 bar, operation range is -45°C to 130°C.  7/16" UNF	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

### Lot 5 Refrigerant receiver and safety devices

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Refrigerant receiver and safety devices</b>						
71	Vertical liquid refrigerant receiver (for HCFC R22) with approval according to the EC pressure equipment directive 97/23/EC (or equivalent directive)	1	<p>Minimum/maximum allowable temperature -10°C to 120°C. Maximum allowable pressure PS = 33 bar. Receiver volume is 112 dm<sup>3</sup> for maximum HCFC R22 refrigerant charge of 122 kg. Receiver weight empty of 85 kg (without refrigerant charge). Receiver equipped with three sight glasses. Refrigerant inlet connection 54mm (2-1/8") and outlet connection 42mm (1-5/8") with brazing adapters and spare gasket for Rotalock valve.</p> <p>Note: Rotalock valve included.</p> <p>Size: 112 dm<sup>3</sup></p> <p>Type: FS1122 or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
72	Opto electronical liquid level monitoring device consisting of an opto-electronic unit and a prism unit. Monitoring of	4	The prism unit is mounted to a Rotalock T- joint with sideward viewing sight-glass. The Rotalock T-joint is than mounted into the receiver instead of the upper and lower sight-glass. The opto-	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

	the minimum and maximum refrigerant charge level within the refrigerant receiver.		<p>electronic unit is not in direct contact with the refrigerant. It is screwed into the prism unit and integrated into the control circuit of the plant. Maximum allowable pressure is 33 bar for temperatures -10°C to 120°C. Allowable ambient temperature -30°C to 60°C. Maximum medium temperature is 100°C.</p> <p>Supply voltage 220V AV ± 10%, supply frequency 60 Hz.</p> <p>Enclosure class IP54</p> <p>Type: OLC-D1 or equivalent</p>			transportation until final destination, according to section 3b.
73	Adapter (Rotalock T-joint) for Opto electronical liquid level monitoring device in combination with a sight glass. Device supplied with a set of spare gaskets.	4	The Rotalock T-joint is than mounted into the receiver instead of the upper and lower sight-glass.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
74	Adapter for pressure relief valve connection	2	Adapter for connection of the Counterpressure independent overflow safety valve to the refrigerant receiver.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include

			Size: G1/2 > SW 22 > 1-1/4" - 12 UNF			costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
75	Overflow Safety Valve	2	Counterpressure independent overflow safety valve to avoid emission of refrigerant to the environment. In case of activation, the refrigerant is led into the low-pressure side of the refrigeration system. Safety valve is led sealed and with acceptance test certificate (TUV / DEKRA or equivalent). Permissible temperature range is -30°C to +120°C and the valve is suitable for all halogenated refrigerants.  Set pressure 26 bar  Type: ÜSV Hansa or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
76	Overflow Safety Valve	2	Counterpressure independent overflow safety valve to avoid emission of refrigerant to the environment. In case of activation, the refrigerant is led into the low-pressure	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and

			<p>side of the refrigeration system. Safety valve is led sealed and with acceptance test certificate (TUV / DEKRA or equivalent). Permissible temperature range is -30°C to +120°C and the valve is suitable for all halogenated refrigerants.</p> <p>Set pressure 28 bar</p> <p>Type: ÜSV Hansa or equivalent</p>			<p>insurance for transportation until final destination, according to section 3b.</p>
77	Safety Valve	2	<p>Safety valve is led sealed and with acceptance test certificate (TUV / DEKRA or equivalent). Permissible temperature range is -30°C to +120°C and the valve is suitable for all halogenated refrigerants.</p> <p>Set pressure 26 bar</p> <p>Type: KSV Hansa or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	<p>Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.</p>
78	Safety Valve	2	<p>Safety valve is led sealed and with acceptance test certificate (TUV / DEKRA or equivalent). Permissible temperature range is -30°C to +120°C and the valve is suitable for all halogenated refrigerants.</p>	Transport until final destination	Max. 90 days after signing of contract	<p>Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final</p>

			Set pressure 28 bar Type: KSV Hansa or equivalent			destination, according to section 3b.
79	Overflow safety valve discharge tube, complete assembly set.	3	Assembly set consists of: Gauge, double nut, connection tube, brazing adapter Type: ÜSV Hansa or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
80	Shuttle valve (rotalock valve)	3	Shuttle valve for Counterpressure independent overflow safety valve. For save changing of ÜSV valve without empty out the receiver G 1/2 Type: WVN or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
81	Connection fitting for safety valve	3	Connection fitting for safety valve G 1/2 - 3/8" – 18 NPT	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

						transportation until final destination, according to section 3b.
82	Connection fitting for safety valve	3	Connection fitting for safety valve G 1/2 - 7/8" – 14 UNF	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
83	Connection fitting for safety valve	3	Connection fitting for safety valve G1/2 - 1 1/2"-14 NPT	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 6 Pressure switches**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
-----------------	-----------------------	----------	-------------------------------------	------------------	---------------	-------------------



84	Dual pressure switch low& high pressure, failsafe (double bellows) Low pressure autom. Reset / High pressure manual reset	4	<p>Ambient temp. range -25 - 65 °C Contact rating AC1=16 A, 400 V Contact rating AC15=10 A, 400 V Contact rating AC3=16 A, 400 V Contact rating DC13=12 W, 220 V Contact rating LR=112 A, 400 V Contact rating Terminal D: 50 VA, 400 V Diff. left side 0,70 - 4,00 bar Diff. left side 10,0 - 58,0 psi Diff. right side 4,0 bar Diff. right side 58,0 psi Electr. conn. comments Rubber cable gland, Electr. conn. Size 6-14 mm</p> <p>Type: KP-17W or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
85	High pressure switch with automatic reset		<p>Ambient temperature: -40 - +65°C (+80°C for max. 2 hours). DIN-approved units: -25 - +65°C (+80°C for max. 2 hours). Max. working pressure = 32 bar, KP 6 = 46.5 bar Max. test pressure = 35 bar, KP 6 = 46.5 bar Contact load, AC: AC1: 16 A, 400 V</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

		3	AC3: 16 A, 400 V AC15: 10 A, 400 V Diff. 1,80 - 6,00 bar Diff. 26,00 - 87,00 psi Electr. conn. comments Rubber cable gland Electr. conn. size 6-14 mm Enclosure rating IP30 Max. starting current (L.R.): 112 A, 400 V Contact load, DC: DC13: 12 W, 220 V control current  Type: KP-5 or equivalent			destination, according to section 3b.
86	Low pressure switch with automatic reset	3	Ambient temperature: -40 - +65°C (+80°C for max. 2 hours). DIN-approved units: -40 - +65°C (+80°C for max. 2 hours). Max. working pressure = 17 bar Max. test pressure = 20 bar Contact load, AC: AC1: 16 A, 400 V AC3: 16 A, 400 V AC15: 10 A, 400 V Diff. 0,70 - 4,00 bar Diff. 10,00 - 58,00 psi Electr. conn. comments Rubber cable gland Electr. conn. size	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			6-14 mm Max. starting current (L.R.): 112 A, 400 V Contact load, DC: DC13: 12 W, 220 V control current  Type: KP-1 or equivalent			
87	High pressure switch with manual reset	3	Ambient temperature: -40 - +65°C (+80°C for max. 2 hours). DIN-approved units: -25 - +65°C (+80°C for max. 2 hours). Max. working pressure = 32 bar, KP 6 = 46.5 bar Max. test pressure = 35 bar, KP 6 = 46.5 bar Contact load, AC: AC1: 16 A, 400 V AC3: 16 A, 400 V AC15: 10 A, 400 V Diff. 4,00 bar Diff. 58,00 psi Electr. conn. comments Rubber cable gland Electr. conn. size 6-14 mm Enclosure rating IP30 Max. starting current (L.R.): 112 A, 400 V Contact load, DC: DC13: 12 W, 220 V control	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			current			
			Type: KP-7B or equivalent			

### Lot 7 Components for the oil return system

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Oil separator</b>						
88	Oil separator with brazing connections for Plus Cooling to = -10°C / tc 45°C and for Bitzer compressor 4T 12.2, refrigeration capacity Qo = 19,2 kW refrigerant HCFC R22. Maximum compressor displacement 47,50 m³/h (60 Hz).	1	Separator for effectively removal of oil from discharge gas in strainer elements and return trough a high precision float valve to an oil control system. The oil separator is accessible through the flanged bottom plate for ease of maintenance. Maximum working pressure PS = 31 bar (140°C to -10°C).  Up to 205 m³/h compressor displacement  Brazing connections 42mm (1½"), volume 18,5 dm³.  Type: OS-42FY or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
89	Check Valve for oil separator return line	1	Check valve with 0,1 bar opening pressure difference. Maximum allowable working pressure PS =	Transport until final destination	Max. 90 days after	Besides the product price the quote

			53 bar. 10mm - 3/8" flange, length 60mm. Type: RV-10B-0,1 or equivalent		signing of contract	may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
90	Flat gaskets (spare part) for oil separators flange	1	Flat gaskets (spare part) for oil separators flange Size: 129mm Type: FD-108/95x1,5 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
<b>Oil reservoir</b>						
91	Oil reservoir with two rota-lock valves (inlet/outlet) and with brazing connections for Plus Cooling Bitzer compressor 4T 12.2, maximum compressor displacement 47,50 m <sup>3</sup> /h (60 Hz) oil charge of 3,0 litres. Reservoir	1	In the oil reservoir, any refrigerant trapped within the oil is boiled-off and the oil is cooled and kept available. The maximum allowable operating pressure PS = 31 bar with temperature levels of 100°C to -10°C. Oil line 10mm (3/8") for brazing connection at rota-lock valves. Volume 10,5 m <sup>3</sup> /h, weight 7,8 kg.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

	equipped with two sight-glasses and float ball level indicators.		Height 439 mm, diameter 200 mm.  Type: OSA-11 or equivalent			destination, according to section 3b.
92	Oil level control device for high and low level control.	1	Electronic oil level controller to be used with the oil reservoir as maximum and minimum level indicator with alarm function. Maximal admissible ambient temperature -30°C to +85°C, maximal admissible working pressure PS 60 bar. The maximal medium temperature is 120°C. Device supplied with one set of spare gaskets for each unit.  Power Supply 220V - 60Hz ±10%  Size: ENC2-M20-1.1/8"  Type: ENC2 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
93	Pressure difference valve	1	Maintaining the required and secured oil return to the compressor crank-case. Maximum allowable operating pressure PS = 53 bar, maximal allowable operating pressure 100°C.  Range/Capacity: 1,5 bar  Connection oil reservoir 5/8" - 18 UNF, connection to suction line 10mm / 32/8" flare	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to

			Type: RV2-10B/1,5 or equivalent			section 3b.
94	Rotalock valve spare gasket	1	Oil reservoir connection Set of 10 Type: DR-19-1,6-P or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
95	Heater elements for oil reservoir	1	Heater elements for oil reservoir 55 Watt for 220V-1Ph-60Hz. Size: 190 > 270mm Type: HB-55/195 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
<b>Mechanical oil level control</b>						
96	Oil level regulator, mechanical type with 3- /4- bolt flange and for compact installation with a thread-fitting. For	3	Regulator with precision float valve controls the oil level into the compressors crankcase. Regulator complete with two sight-glasses and with all necessary mounting	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs

	the installation with Plus Cooling Bitzer compressor 4T 12.2 .		<p>accessories. Factory oil level setting is centre of sight glass. Allowable operating temperature is 100°C to -10°C, the maximum allowable working pressure PS = 40 bar.</p> <p>Recommended working pressure diff. is 1,5 bar, max. allowable working pressure diff. is 6,5 bar</p> <p>Type: ORE2-BC or equivalent</p>			with taxes and fees and insurance for transportation until final destination, according to section 3b.
97	Oil strainer for installation with oil level regulator and Minus Cooling compressor Bitzer 4T-12.2. Strainer equipped with brazing connections.	3	<p>Installation in front of the oil level regulator to strain particles larger than 0,05 mm. Allowable operation temperature 70°C to -10°C and the maximum allowable operation pressure PS is 53 bar.</p> <p>Volume 0,1 dm<sup>3</sup>. 3/8" brazing connections</p> <p>Type: F-10L or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
98	Oil strainer for installation with oil level regulator and Plus Cooling compressor Bitzer 4T 12.2. Strainer equipped with brazing connections.	3	<p>Installation in front of the oil level regulator to strain particles larger than 0,05 mm. Allowable operation temperature 70°C to -10°C and the maximum allowable operation pressure PS is 53 bar.</p> <p>Volume 0,1 dm<sup>3</sup>.</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for



			3/8" brazing connections Type: F-10L or equivalent			transportation until final destination, according to section 3b.
99	Spare gaskets for oil level regulator	3	Regulator and compressor connection Type: OR-37x1,78 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 8 Refrigeration oil**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Oil</b>						
100	Refrigeration Oil Bitzer	50	For Bitzer compressor 4T-12.2 (R22)	Transport until final destination	Max. 90 days after signing of	Besides the product price

	provided in 1 litre container				contract	the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
--	-------------------------------	--	--	--	----------	---

### Lot 9 Vibration eliminators

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Vibration eliminators</b>						
101	Vibration eliminator for installation at the compressor and between the compressor and the suction/discharge line.	3	The body of the eliminator is made of stainless steel while the brazing connectors are made of copper. The allowable operating temperature is 140°C to -50°C and the maximum admissible operating pressure PS = 45bar.  Size: 42mm / 1-5/8"  Type: VAFS-11 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
102	Vibration eliminator for	5	The body of the eliminator is made of stainless steel	Transport until final destination	Max. 90 days after signing of	Besides the product price

	installation at the compressor and between the compressor and the suction line.		while the brazing connectors are made of copper. The allowable operating temperature is 140°C to -50°C and the maximum admissible operating pressure PS = 60bar.  Size: 28mm / 1-1/8" Type: VAFS-91 or equivalent		contract	the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
103	Vibration eliminator for installation at the compressor and between the compressor and the suction/discharge line.	5	The body of the eliminator is made of stainless steel while the brazing connectors are made of copper. The allowable operating temperature is 140°C to -50°C and the maximum admissible operating pressure PS = 60bar. Size: 22mm / 7/8" Type: VAFS-81 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

### Lot 10 Suction and liquid line filters

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Suction filters</b>						

104	Caps, core block holders, gaskets and cover springs for the filter drier element.	8	Caps, core block holders, gaskets and cover springs for the filter drier element type DCR or equivalent.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
105	Solid core with gasket	5	Solid core with 30% molecular sieve and 70% activated alumina. High acid adsorption and standard water adsorption.  Type: 48-DA or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
106	Cartridge strainer for mounting in suction line	8	Cartridge strainer for mounting in suction line  For diameter tubing suction line of 1.3/8"  Type: F-48F or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

						transportation until final destination, according to section 3b.
<b>Liquid line filters</b>						
107	Solid core with gasket	8	<p>Solid core with 30% molecular sieve and 70% activated alumina. High acid adsorption and standard water adsorption.</p> <p>Liquid diameter line for 1.5/8"</p> <p>Type: 48-DM or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
108	Filter-Drier Element (housing) for one (1) replaceable solid core with top cover. Element for installation at the liquid line.	3	<p>Housing is made entirely of steel and compatible with HCFC R22 refrigerants. Housing has undergone phosphate pre-treatment and have corrosion resistant powder paint finish. Zinc-chromate steel top covers without external access connection. The maximum allowable working pressure is 46 bar.</p> <p>Type: DCR 04811sS or</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			equivalent			
--	--	--	------------	--	--	--

### Lot 11 Compressors

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Compressors</b>						
109	CIC System for BITZER Minus cooling compressor 4NCS-12.2 refrigerant HCFC R22	3	Electronically controlled refrigerant injection for single stage accessible hermetic reciprocating compressors. Control system as complete kit comprising of all functional parts and installation material.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
110	Differential oil pressure sensor for BITZER compressors with oil pump. Minus cooling	3	Electronic monitoring device to control the differential pressure of refrigeration compressors. Permitted medium temperature -30°C to 90°C, maximum operational pressure PS is 30 bar. Device supplied with one set of spare gaskets.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

111	Differential oil pressure switch for BITZER compressors with oil pump. 4T12.2	4	Differential oil pressure switch for BITZER compressors with oil pump. 4T12.2	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
112	(Plus Rack) Suction shut-off valve complete for Bitzer 4T-12.2	4	(Plus Rack) Suction shut-off valve complete for Bitzer 4T-12.2  Complete Set	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
113	(Plus Rack) Hexagon head screw M10x25,DIN 933-10.9 for Bitzer suction shut-off valve	8	(Plus Rack) Hexagon head screw M10x25,DIN 933-10.9 for Bitzer suction shut-off valve	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

						transportation until final destination, according to section 3b.
114	(Minus Rack) Suction shut-off valve complete for Bitzer 4NCS-12.2	3	(Minus Rack) Suction shut-off valve complete for Bitzer 4NCS-12.2  Complete Set	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
115	(Minus Rack) Hexagon head screw M10x25,DIN 933-10.9 for Bitzer suction shut-off valve	8	(Minus Rack) Hexagon head screw M10x25,DIN 933-10.9 for Bitzer suction shut-off valve	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
116	Protecting cap for Bitzer 4NCS suction shut off	5	Protecting cap for Bitzer 4NCS suction shut off valve	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote



	valve					may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
117	Bitzer Gasket for suction shut of valve	3	Bitzer Gasket for suction shut of valve	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
118	Protecting cap for Bitzer 4NCS hot gas shut off valve	5	Protecting cap for Bitzer 4NCS hot gas shut off valve	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination,

						according to section 3b.
119	Spare gasket for compressor 4NCS-12.2	5	Spare gasket for compressor 4NCS-12.2 Complete Set.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
120	(Plus Rack) Spare gasket for compressor 4T-12.2	4	(Plus Rack) Spare gasket for compressor 4T-12.2 Complete Set.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 12 Fixed gas detection system**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Fixed gas detection system</b>						
121	Fixed gas detection system for leakages monitoring in cooling positions and within the machinery room. 12 Channels	1	The Infrared Monitoring system is comprising of a Refrigerant Leak Detection device utilizing infrared absorption sensors to analyse air samples. The monitor has at least 12 individual sampling Channels (SAMMs), each having their own pump and filter. Each SAMM is connected to the area to be sampled by 6mm semi-rigid nylon pipework. The specific area can then be further subdivided into small regions using a manifold with up to 4 sampling pipes, known as spur kits. This multi sampling technique ensures that likely sources of refrigerant leakage can be specifically targeted. Each spur is 5 meters in length. Alarms can be generated at three different levels described as 'Alert', 'Alarm' and 'Critical', these alarms can be signalled to other devices using the 16	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			<p>configurable relays. The current alarm status is indicated on a TFT LCD display and a Traffic Light Display provides the user with an instant visual status of the system. Details of System Alarms, Events and Faults are stored within the internal PC and can be accessed using the Operators Keypad. The monitor is IP addressable and can be linked to a local area network (LAN) for remote access to alarm details if required.</p> <p>Type: GRM2-104D-112 or equivalent</p>			
122	<p>Fixed gas detection system for leakages monitoring in cooling positions and within the machinery room. 16 channels</p>	1	<p>The Infrared Monitoring system is comprising of a Refrigerant Leak Detection device utilizing infrared absorption sensors to analyse air samples. The monitor has at least 16 individual sampling Channels (SAMMs), each having their own pump and filter. Each SAMM is connected to the area to be sampled by 6mm semi-rigid nylon pipework. The specific area can then be further subdivided into small regions using a manifold with up to 4 sampling pipes, known as spur kits. This multi sampling technique ensures that likely sources of refrigerant</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			<p>leakage can be specifically targeted. Each spur is 5 meters in length. Alarms can be generated at three different levels described as 'Alert', 'Alarm' and 'Critical', these alarms can be signalled to other devices using the 16 configurable relays. The current alarm status is indicated on a TFT LCD display and a Traffic Light Display provides the user with an instant visual status of the system. Details of System Alarms, Events and Faults are stored within the internal PC and can be accessed using the Operators Keypad. The monitor is IP addressable and can be linked to a local area network (LAN) for remote access to alarm details if required.</p> <p>Type: GRM2-104D2-116 or equivalent</p>			
123	Pipe package for the fixed gas monitoring system.	1	<p>The pipe package for the fixed gas monitoring system is consisting of: Twelve channel pipe package, including all necessary freeway pipe and spur kit, sample points, user manual, pipe cutters, ties, etc.</p> <p>Type: 12 SP-PIPE or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

						destination, according to section 3b.
124	Pipe package for the fixed gas monitoring system.	1	The pipe package for the fixed gas monitoring system is consisting of: Sixteen channel pipe package, including all necessary freeway pipe and spur kit, sample points, user manual, pipe cutters, ties, etc.  Type: 16 SP-PIPE or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
125	Service kit	2	Service kit for annually planned preventive maintenance of the fixed 28 channel gas monitoring system.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
126	Red beacon for visible leakage alarm	1	The beacon will be installed within the market operators office to indicate that the gas monitoring system noticed a potential HCFC R22 leakage within a specific area.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs

						with taxes and fees and insurance for transportation until final destination, according to section 3b.
127	Red beacon and sounder for visible and acoustic leakage alarm	2	The beacon and sounder will be installed within the market machinery room to indicate that the gas monitoring system noticed a potential HCFC R22 leakage within a specific area.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

### Lot 13 Tools and consumables

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Brazing torch</b>						
128	Flexible twin-flame fork torch, size 2 with thickness of 1-2mm, inlet M15x1 RH for the use with acetylene / oxygen	4	Flexible twin-flame fork torch, size 2 with thickness of 1-2mm, inlet M15x1 RH for the use with acetylene / oxygen	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees

						and insurance for transportation until final destination, according to section 3b.
129	Shower-burner set of three. Universal use shower-burner for welding and brazing processes for the use with acetylene and oxygen.	2	Set consisting of three shower-burner  Type: Perplex Klein Rista or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
130	Welding and brazing torch set for the use with acetylene - oxygen gases, consisting of handle, insert nozzles sizes 1 to 5 / 0,5 to 9mm, nozzles cleaning needles, 10-spanner tool, steal sheet case.	2	Complete welding and brazing set  Type: Klein Rista or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Refrigerant and oil contamination detection equipment**



131	Refrigerant and compressor oil contamination detector kit consisting of a brass body, recessed viewing track, stainless steel needles and extension hose. Detection tubes designed as heavy wall Pyrex glass, packed under dry nitrogen charge.	4	RAC industries valid field test for a quick and accurate determination of contaminant levels in oil and refrigerant. Complete set with detection tubes and a set of three acid, moisture and oil test. Detector kit supplied with rugged carrying box.  Type: Checkmate RT700K or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
132	Replacement set of three Acid detector tubes	6	For refrigerant detector kit  Type: Checkmate RT750A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
133	Replacement set of three Acid detector tubes	6	For refrigerant detector kit  Type: Checkmate RT751M or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

						transportation until final destination, according to section 3b.
134	Replacement set of three Acid detector tubes	6	For refrigerant detector kit Type: Checkmate RT752C or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
135	Acid test kit for the use with Mineral and Alkyl Benzene oil	15	Test for contamination in the compressors crankcase which can be indicative of lubricant decomposition. Type: TKO or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
<b>Brazing and tubing equipment and consumables</b>						
136	Nitrogen pressure regulator for steel	1	Cylinder pressure 0-315/200 bar, 0-60/40 bar working pressure and	Transport until final destination	Max. 90 days	Besides the product price

	cylinders. Regulator from sturdy solid brass design, equipped with protective caps for gauges.		about 130 Nm <sup>3</sup> /h maximum. Connection at cylinder, hex nut male for nitrogen bottle norm UNI 4409 (W21.7x1-1/4" anti-clockwise)  Cylinder pressure 0-315/200 bar, working pressure 0-60/40 bar		after signing of contract	the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
137	Nitrogen test control unit, Nitrogen pressure regulator for steel cylinders. Set consisting of: Pressure regulator max. 220 bar primary and 5 to 50 bar secondary, Pressure control valve adjusted for 55 bar secured, marking gauge including marking indicator, charging hose 900mm with 1/4" connector SAE. Adapter piece with valve deadener 1/4" SAE x 1/2" -20 UNF	1	Nitrogen regulator for the use with pressure and tightness tests for medium and large refrigeration cycles. Washing and blowing out of refrigeration cycles. Cylinder connection UNI 4409 (W21.7x1-1/4" anti-clockwise)  Cylinder pressure 220 bar, working pressure 5 to 50 bar  Type: PRV 1000 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
138	Nitrogen hoses for pressures up to 60 bar and a length of 5m	1	Hose with textile reinforcement and temperature range from -20°C up to +50/70°C. Hoses with pressure regulator connection and at the end 1/4" SAE	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees

			Hose inner diameter 10 mm			and insurance for transportation until final destination, according to section 3b.
139	Heat Protection paste, bucket of 0,9 kg	2	Manually mouldable paste designed to divert heat and protect all heat-sensitive materials while brazing and welding with temperatures of up to 3000°C – used paste is reusable.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
140	Brazing Paste for Silver-Bearing Brazing Alloys	4	Brazing paste acc. DIN EN 1045 for silver-bearing brazing alloys – especially suited for brazing copper (Cu) to brass (Ms) and copper (Cu) to red brass. The flux residue is soluble in cold water and can be removed by rinsing – in tins.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
141	Cleaning Fleeces	20	Cleaning fleece for quick cleaning	Transport until final	Max. 90	Besides the

			of soldering spots without scratching – metal-free – 10 units per package.	destination	days after signing of contract	product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
142	Torch lighter	5	Gun-shaped gas lighter – refill pack: 12 x 5 mm replacement flints in small holder	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
143	Torch lighter	5	Set of 12 replacement flints	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation

						until final destination, according to section 3b.
144	Safety Goggles	2	Flexible flip-front safety goggles – suitable for spectacle wearers – inner lenses clear and shatter-proof – flip-up lenses protection class DIN 5 green	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
145	Universal deburrer	10	Durable universal deburrer with non-slip soft plastic handle and exchangeable blade designed for easy and quick deburring of tubes, sheet metal and edges. The case can hold up to 4 replacement blades.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
146	Spare blades for universal deburrer	50	Spare blades for universal deburrer	Transport until final destination	Max. 90 days after signing	Besides the product price the quote may also include

					of contract	costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
147	Leak detection spray	10	<p>Quick and reliable detection of leaks in refrigeration and air conditioning systems as well as gas lines using a foaming spray. Non-flammable, non-corrosive, CFC-free and non-toxic.</p> <p>Temperature range: -6°C a 97°C.</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
148	LED work light	2	Battery-operated robust work light with extremely bright light based on LED technology. With 160 installed LEDs the flash lights feature high light efficiency with low power consumption. Lighting duration: 5 h, charging duration: 5-6 h, shock-proof case with suspending hook, on/off switch on non-slip handle, rechargeable via 230 V power supply or 12 V cigarette lighter, splash-proof and	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to

			oil-resistant. Incl. power supply and car charger.			section 3b.
149	Torque key set	2	Durable torque key set designed especially for refrigeration and air conditioning systems, featuring 6 different key sizes and adjustable torque lever (10 – 75 newton meter) in sturdy plastic case.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
150	Mini telescopic mirror	2	Round pocket mirror in pen format with a diameter of 32 mm. Extendable to a length of 465 mm, the mirror is adjustable in all directions by means of a double ball-and-socket joint.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
151	Heat protection mat, 4-layer, up to 3000°C	5	High quality asbestos-free protection mat for protection against flames and heat, flexible and long-life.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees



						and insurance for transportation until final destination, according to section 3b.
152	Heat protection mat, 2-layer, up to 3000°C	5	High quality asbestos-free protection mat for protection against flames and heat, flexible and long-life.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
153	Copper Brazing Alloy With 6% Phosphorus and 15% silver According to DIN EN 1044, ISO 3677 and DIN 8513	6	Copper brazing alloy for brazing copper to copper without the use of flux – permissible for refrigeration and air-conditioning technology with pipe dimensions > 28 x 1.5 mm, flux is used for brazing copper to brass and copper to red brass – creep-resistant up to 200°C – capillary active and good, square bars in 2.0 x 500 mm lengths.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			<p>Working temperature 710°C, melting range 650°C-800°C, 2,0mm diameter</p> <p>1 kg/packing unit.</p> <p>Type: B-Cu80PAg or equivalent</p>			
154	<p>Silver Brazing Alloys, Cadmium-Free, Acc. to DIN EN 1044, ISO 3677 and DIN 8513, Flux-Coated Acc. to DIN EN 1045 FH 10, 34% silver content</p>	4	<p>Cadmium-free silver brazing alloys (bare) with 34% silver, brazing paste have to be employed with bare rods, permissible for refrigeration and air-conditioning technology down to -200°C, very good flow properties, capillary active and highly fluid creep-resistant up to 200°C – round rods, length 500 mm.</p> <p>Working temperature 710°C, melting range 630°C-730°C, 1,5mm diameter</p> <p>0,10 kg/packing unit</p> <p>Type: B-Cu36AgZnSn-630/730 or</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			equivalent			
155	Silver Brazing Alloys, Cadmium-Free, Acc. to DIN EN 1044, ISO 3677 and DIN 8513, Flux-Coated Acc. to DIN EN 1045 FH 10	2	Cadmium-free silver brazing alloys (bare) with 34% silver, brazing paste have to be employed with bare rods, permissible for refrigeration and air-conditioning technology down to -200°C, very good flow properties, capillary active and highly fluid creep- resistant up to 200°C – round rods, length 500 mm.  Working temperature 710°C, melting range 650°C-800°C, 2,0mm diameter  0,10 kg/packing unit  Type: B-Cu36AgZnSn-630/730 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
156	Tube expander set in steel storage case	1	Durable forged steel tube expander designed to expand copper, aluminium and soft metal tubes for the efficient manufacture of standardized tube fittings, complete set incl. 1 tube expander as well as 6 expander head replacements in a steel storage case.  Size: 3/8" -1/2" - 5/8" - 3/4" - 7/8" - 1"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

157	Set of expander heads	1	Durable forged steel tube expander designed to expand copper, aluminium and soft metal tubes.  Size: 1-1/8" - 1-3/8" - 1-5/8"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
158	Tube cutter	2	Spring-guided telescopic tube cutter for the precise cutting of copper, brass, aluminium and soft steel tubes. The integrated spring ensures automatic application. No manual readjustment is necessary.  Size: 4-32mm / 1/8" a 1-1/4"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
159	Tube cutter steel spare cutting wheel	2	Tube cutter steel spare cutting wheel  Size: 4-32mm / 1/8" a 1-1/4"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

						transportation until final destination, according to section 3b.
160	Flaring tool set	1	Flaring tool with eccentric cone and sliding clutch designed for the controlled manufacture of 45° flares without fractures. Suitable for copper, brass, aluminium and soft metal tubes. Size: 1/4" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4"	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
161	Lead Sealing pliers Set	1	Set consisting of one lead sealing pliers, seal wire, nylon nirosta, and lead seals. The lead sealing tool is manufactured from cast carbon steel and chrome plated for protection. The tools are supplied with round dies, plain or corrugated for effective crimping of all Acme Lead Seals, the plastic YP10 and Crimp Seals. Standard non engraved dies to be supplied. The sealing tools may also be used to mark other materials such as aluminium plate or laminated card. Including 100m seal wire, 500 lead seals 10mm diameter.	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			Set with led seals.			
162	Grip- Pliers with curved jaws	3	Pliers made from chrome-molybdenum-steel construction - sturdiness and rust prevention. Anti-Skid surface with safe grip for difficult situations.  10CR 220mm	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
163	Sealant for threaded fitting in refrigeration systems, provided in 10 ml bottle.	20	The sealant is recommended for refrigeration systems and service with strong chemicals. The sealant is used in place of special non-hardening compounds, litharge, glycerine, and sealing tape. This product is typically used in applications up to 149 °C. Typical applications include metal and fibre plants, chemical industries.  Type: Loctite 554 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

**Lot 14 Thermal insulation**

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
<b>Insulation material</b>						
164	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self-sealed tube in length of 2 metre each. Thickness 19-26 mm, for copper tube outer <b>diameter up to 54mm</b>	10	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: AF-23X054-M or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
165	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and	10	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

	<p>excellent thermal properties. Self-sealed tube in length of 2 metre each. Thickness 19-26 mm, for copper tube outer diameter <b>up to 18mm</b></p>		<p>barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.</p> <p>Type: AF-19X018-M or equivalent</p>			<p>transportation until final destination, according to section 3b.</p>
166	<p>Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self-sealed tube in length of 2 metre each. Thickness 19-26, for copper tube outer diameter <b>up to 22mm</b></p>	40	<p>Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.</p> <p>Type: AF-20X022-M or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	<p>Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.</p>



167	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self-sealed tube in length of 2 metre each. Thickness 19-26, for copper tube outer diameter <b>up to 28mm</b>	10	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: AF-21X028-M or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
168	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self-sealed tube in length of 2 metre each. Thickness 19-	20	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: AF-21,5X035-M or	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

	16mm, for copper tube outer diameter <b>up to 35 mm</b>		equivalent			
169	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self sealed tube in length of 2 metre each. Thickness 32-45mm, for copper tube outer diameter <b>up to 22mm</b>	16	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: AF-32X022-T or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
170	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties.	16	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination,

	Self sealed tube in length of 2 metre each. Thickness 32-45m, for copper tube outer diameter <b>up to 35mm</b>		bridging, long term stability of thermal values.  Type: AF-35X035-T or equivalent			according to section 3b.
171	Insulation tube Closed cell, elastomeric, nitrile rubber insulation material with a Class O fire rating and excellent thermal properties. Self sealed tube in length of 2 metre each. Thickness 32-45m, for copper tube outer diameter <b>up to 110mm</b>	6	Insulation used on cold lines must effectively prevent condensation. Typically in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following: An effective water vapor barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: AF-42,5X0110-T or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
172	Insulation Sheet endless, Closed cell, elastomeric, nitrile rubber insulation material with a	4	Insulation used on cold lines must effectively prevent condensation. Typically, in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following:	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and

	Class O fire rating and excellent thermal properties. Sheet in length of 3 metre each. Thickness 32mm		An effective water vapor barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.  Type: XG-32-99/E or equivalent.			insurance for transportation until final destination, according to section 3b.
173	One - Component adhesive for insulation.	6	Adhesive provided in 0.5 Litre cans  Type: ADH-HT625/0,5 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
174	Protective coat for insulation material colour silver grey	2	Protective coat provided in 2,5 Litre bucket  Type: FINISH/GY-2,5 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to

						section 3b.
175	Special cleaner for one-component adhesive	2	Cleaner provided in 1 Litre bucket  Type: CLEANER/1,0 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
176	Toolbox	2	The lockable aluminium case includes all tools required for a high quality insulation installation, such as:  -dividers  -various length wooden handle knives and a -ceramic knife  -copper tube sections for cutting holes  -sharpening tools  -brushes & glue master adhesive pump  -folding rule	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			<p>-marker pens</p> <p>-cutting template &amp; application guide</p> <p>Type: Armaflex Toolbox or equivalent</p>			
177	Brushes for the application of one-component adhesive	1	<p>Brush diameter 25mm</p> <p>Type: GLUEM-BRUSH25MM or equivalent</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
178	Tape for insulation (roll) each 15m length with thickness of 3mm. Colour black.	10	<p>Insulation used on cold lines must effectively prevent condensation. Typically in order to achieve this an insulation material should, in addition to excellent technical values, exhibit the following:</p> <p>An effective water vapour barrier, a closed cell structure not prone to “wicking”, no obvious potential for thermal bridging, long term stability of thermal values.</p>	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

			Type: AF-Tape-MC or equivalent			
179	Support for pipes isolation	30	Support for pipes isolation, thickness of isolation 19-26mm. The heat transfer property of $<0,034 \text{ W}/(\text{m.K})$ at $0^\circ\text{C}$  Type: FX-4(3)-22-25 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
180	Support for pipes isolation	20	Support for pipes isolation, thickness of isolation 19-26mm. The heat transfer property of $<0,034 \text{ W}/(\text{m.K})$ at $0^\circ\text{C}$  Type: FX-4(3)-28-30 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
181	Support for pipes isolation	20	Support for pipes isolation, thickness of isolation 19-26mm. The heat transfer property of $<0,034 \text{ W}/(\text{m.K})$ at $0^\circ\text{C}$	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs

			Type: FX-4(3)-35-38 or equivalent			with taxes and fees and insurance for transportation until final destination, according to section 3b.
182	Support for pipes isolation	20	Support for pipes isolation, thickness of isolation 32-45mm. The heat transfer property of $<0,034 \text{ W}/(\text{m.K})$ at $0^\circ\text{C}$  Type: FX-6-22-25 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
183	Support for pipes isolation	20	Support for pipes isolation, thickness of isolation 32-45mm. The heat transfer property of $<0,034 \text{ W}/(\text{m.K})$ at $0^\circ\text{C}$  Type: FX-6-28-30 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.



184	Support for pipes isolation	20	Support for pipes isolation, thickness of isolation 32-45mm. The heat transfer property of <0,034 W/(m.K)a 0°C  Type: FX-6-35-38 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
185	Support for pipes isolation	10	Support for pipes isolation, thickness of isolation 32-45mm. The heat transfer property of <0,034 W/(m.K)a 0°C  Type: FX-6-102-108 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

### Lot 15 Pipe support and fixation

Position Number	Item/s to be Supplied	Quantity	Description/Specifications of Goods	Related Services	Delivery Date	Other Information
-----------------	-----------------------	----------	-------------------------------------	------------------	---------------	-------------------

Pipe support and fixation						
186	Pipe rings, galvanized, with EPDM rubber insulation and for clamping screw MS and for connection thread M8/M10	50	Clamping range area 8 to 11 mm  Type: MPN-RC 8/11 A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
187	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	75	Clamping range area 1/4"  Temperature range -40°C to 110°C  Type: MPN-RC 1/4" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
188	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection	50	Clamping range area 3/8"  Temperature range: -40°C to 110°C  Type: MPN-RC 3/8" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and

	thread M8/M10					insurance for transportation until final destination, according to section 3b.
189	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	50	Clamping range area 1/2" Temperature range: -40°C to 110°C Type: MPN-RC 1/2" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
190	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	50	Clamping range area 3/4" Temperature range: -40°C to 110°C Type: MPN-RC 3/4" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
191	Pipe rings, galvanized, with	50	Clamping range area 29 to 32 mm	Transport until final destination	Max. 90 days after signing	Besides the product price

	EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10		Temperature range: -40°C to 110°C  Type: MPN-RC 29/32 A or equivalent		of contract	the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
192	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	50	Clamping range area 1-1/4"  Temperature range: -40°C a 110°C  Type: MPN-RC 1 1/4" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
193	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	25	Clamping range area 60-66mm  Temperature range -40°C to 110°C  Type: MPN-RC 60/66 A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final

						destination, according to section 3b.
194	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	20	Clamping range area 2-1/2" Temperature range: -40°C to 110°C Type: MPN-RC 2 1/2" A or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
195	Pipe rings, galvanized, with EPDM rubber insulation and with clamping screw M6 and for connection thread M8/M10	30	Clamping range area 8-12mm Temperature range: -40°C a 110°C Type: MP-LHI or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
196	Pipe rings, galvanized, with SILICON rubber insulation and with clamping	25	Clamping range area 25 to 30 mm Temperature range -60°C to 200°C			Besides the product price the quote may also include costs

	screw M6 and for connection thread M10/M12		Type: MP-MIS or equivalent			with taxes and fees and insurance for transportation until final destination, according to section 3b.
197	Pipe rings, galvanized, with SILICON rubber insulation and with clamping screw M6 and for connection thread M10/M12	25	Clamping range area 32 to 38 mm Temperature range -60°C to 200°C Type: MP-MIS or equivalent			Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
198	Pipe rings, galvanized, with SILICON rubber insulation and with clamping screw M6 and for connection thread M10/M12	25	Clamping range area 40 to 45 mm Temperature range -60°C to 200°C Type: MP-MIS or equivalent			Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.

199	Pipe rings, galvanized, with SILICON rubber insulation and with clamping screw M6 and for connection thread M10/M12	25	Clamping range area 48 to 54 mm Temperature range -60°C to 200°C Type: MP-MIS or equivalent			Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
200	Pipe retaining clips in accordance with DIN 3016. Clamping range 1/4" (6mm)	200	Pipe retaining clip for all suitable kinds of retaining applications such as cables, cable protection pipes, hoses and other lines. Clip with 15mm band width, M6 bolt, rubber band (polychloropren) and steel galvanised adjustable band. Temperature range -35°C to 100°C. Type: RSGU 1.6/15 W1 or equivalent	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for transportation until final destination, according to section 3b.
201	Pipe retaining clips in accordance with DIN 3016. Clamping range 3/8" (10mm)	200	Pipe retaining clip for all suitable kinds of retaining applications such as cables, cable protection pipes, hoses and other lines. Clip with 15mm band width, M6 bolt, rubber band (polychloropren) and steel galvanised	Transport until final destination	Max. 90 days after signing of contract	Besides the product price the quote may also include costs with taxes and fees and insurance for

			adjustable band. Temperature range -35°C to 100°C. Resistant against oil, alcohol, acids and fat.  Type: RSGU 1.10/15 W1 or equivalent			transportation until final destination, according to section 3b.
--	--	--	---	--	--	--

---



## Section 3b: Related Services

---

Further to the Schedule of Requirements in the preceding Table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements:

<p>Delivery Term [INCOTERMS 2010] <i>(Pls. link this to price schedule)</i></p>	<p><input checked="" type="checkbox"/> DAP</p>
<p>Additional information about the Delivery Term</p>	<p>In regard of payments and tax collection the enterprise shall follow the national legislation, and to circulate in national territory must possess the proper documentation, being all of this activities responsibility of the enterprise. The following indications are guidelines, emphasizing the necessity of observing the national legislation in force for goods circulation in the Brazilian territory:</p> <ul style="list-style-type: none"> <li>• The process foresee the Delivery Term (INCOTERM 2010) DAP (Delivery at Place) for different locations in Brazil. Therefore, the supplier enterprise shall provide for any and all costs related to the delivery/circulation of the goods to their final destination, including taxes;</li> <li>• The current legislation of the ICMS (Tax in the Circulation Goods and Services) Regulation Law No 5.930/1989 is applicable for this purchasing process, as well as all and any legislation that regulates the sell/delivery/circulation in the national territory;</li> <li>• Once UNDP is not a taxpayer of ICMS in regard of its legal nature, it is recommended that the enterprise supplying the goods collect the tax that can be made by means of a tax substitute, through the National State Tax Collection Guide in favor of the state of final destination of the merchandise by the company that is making the sale;</li> <li>• Two Invoices may be issued, one being a simple invoice in the name of UNDP for the payment of the invoice, and another one of Remittance in name of the recipient for the delivery of the good;</li> <li>• The payment mention of the taxes shall be on the documentation, having as base the respective orientation in the Accounting Area of the supplier enterprise informing how the process should be performed. This measure aim to avoid any kind of fine in the goods transportation to its final destination.</li> </ul>

Additional information about the Delivery Term - Continuation	<p>It is important to highlight that UNDP, for any effects is considered as a NON TAXPAYER OF ICMS, and nor subject to registration in the Taxpayers Registry with the Federal District State Treasury Department, consequently, exempted from tax obligations, it does not carry out goods circulation operations at this CNPJ (Corporate Taxpayer Registration Number) and is not obliged to issue any of the tax invoices provided for in Regulation ICMS/DF, or to fulfill the ancillary obligations established for taxpayers in general.</p> <p>The above information do not dispense the hired supplier enterprise from fulfilling the responsibilities of its Accounting Area, including the correct tax procedure to be applied in each contracted operation, nor do they alter any of the contractual clauses.</p>	
Exact Address of Delivery/Installation Location	<p><b>SUPERMERCADO NORDESTÃO LTDA.,</b>  <b>A/C Domingos Medeiros</b>  <b>Rodovia BR 304, km 0, s/nº,</b>  <b>Zona de Expansão de Parnamirim</b>  <b>Parnamirim/RN – Brazil</b>  <b>CEP: 59.146-750</b>  <b>CNPJ 08.030.363/0001-81</b></p>	
Mode of Transport Preferred	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> LAND
	<input checked="" type="checkbox"/> SEA	
UNDP Preferred Freight Forwarder, if any	N/A	
Distribution of shipping documents ( <i>if using freight forwarder</i> )	N/A	
Delivery Date	Maximum of 90 days after the signing of the contract	
Customs, if needed, clearing shall be done by:	<input checked="" type="checkbox"/> UNDP (EQUIPELOG – Assessoria Aduaneira, Logística e Seguros) Tel: 55 13 3877-8090 Nextel: 55 13 7820-5003 – ID 55*41*2759 Rua Amador Bueno, 333 – Cj. 704 – Ed. Tribuna Square – Centro Santos/SP – CEP 11013-153 ricardo@equipelog.com.br	
Technical Support Requirements	<input checked="" type="checkbox"/> Technical Support and assistance required	
Payment Terms	<input checked="" type="checkbox"/> 100% within 30 days upon UNDP’s acceptance of the goods delivered as specified and receipt of invoice	
Conditions for Release of Payment	<input checked="" type="checkbox"/> Inspection upon arrival at destination. <input checked="" type="checkbox"/> UNDP shall have a reasonable time after delivery of the goods to inspect them and to reject and refuse acceptance of goods not conforming to this Purchase Order. Payment for goods pursuant to this Purchase Order shall not be deemed an acceptance of the goods.	

	<input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
After-sale services required	<input checked="" type="checkbox"/> Warranty on Parts and Labor for minimum period of 12 months <input checked="" type="checkbox"/> Technical Support and Assistance
All documentations, including catalogs, instructions and operating manuals, shall be in this language	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Others <b>Portuguese</b>

## Section 4: Bid Submission Form<sup>4</sup>

---

Insert: Location

Insert: Date

To

JOF - Joint Operations Facility

Ref. **JOF-0257-31196/2017**

Casa das Nações Unidas no Brasil

Setor de Embaixadas Norte, Quadra 802, Conjunto C, Lote 17

Complexo Sergio Vieira de Mello, Módulo I, Prédio Zilda Arns, Salas 117 a 123

CEP 70800-400 – Brasília, DF - Brasil

Dear Sir(s)/Madam(s),

We, the undersigned, hereby offer to supply the goods and related services required for *[insert: title of goods and services required as per ITB]* in accordance with your Invitation to Bid dated *[insert date]*. We are hereby submitting our Bid, which includes the Technical Bid and Price Schedule.

We hereby declare that:

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

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

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

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

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

---

<sup>4</sup> No deletion or modification may be made in this form. Any such deletion or modification may lead to the rejection of the Bid.

Yours sincerely,

Authorized Signature [*In full and initials*]: \_\_\_\_\_  
Name and Title of Signatory: \_\_\_\_\_  
Name of Firm: \_\_\_\_\_  
Contact Details: \_\_\_\_\_

---

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

---

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

### Bidder Information Form<sup>5</sup>

Date: *[insert date (as day, month and year) of Bid Submission]*

ITB No.: *[insert number of bidding process]*

Page \_\_\_\_\_ of \_\_\_\_\_ pages

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

<sup>5</sup> The Bidder shall fill in this Form in accordance with the instructions. Apart from providing additional information, no alterations to its format shall be permitted and no substitutions shall be accepted.

# Joint Venture Partner Information Form (if Registered)<sup>6</sup>

Date: *[insert date (as day, month and year) of Bid Submission]*

ITB No.: *[insert number of bidding process]*

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Bidder's Legal Name: <i>[insert Bidder's legal name]</i>		
2. JV's Party legal name: <i>[insert JV's Party legal name]</i>		
3. JV's Party Country of Registration: <i>[insert JV's Party country of registration]</i>		
4. Year of Registration: <i>[insert Party's year of registration]</i>		
5. Countries of Operation	6. No. of staff in each Country	7. Years of Operation in each Country
8. Legal Address/es in Country/ies of Registration/Operation: <i>[insert Party's legal address in country of registration]</i>		
9. Value and Description of Top three (3) Biggest Contract for the past five (5) years		
10. Latest Credit Rating (if any): <a href="#">Click here to enter text.</a>		
1. Brief description of litigation history (disputes, arbitration, claims, etc.), indicating current status and outcomes, if already resolved. <a href="#">Click here to enter text.</a>		
13. JV's Party Authorized Representative Information Name: <i>[insert name of JV's Party authorized representative]</i> Address: <i>[insert address of JV's Party authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Party authorized representative]</i> Email Address: <i>[insert email address of JV's Party authorized representative]</i>		
14. Attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i>		
<input type="checkbox"/> All eligibility document requirements listed in the Data Sheet <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 2. <input type="checkbox"/> In case of government owned entity, documents establishing legal and financial autonomy and compliance with commercial law.		

<sup>6</sup> The Bidder shall fill in this Form in accordance with the instructions. Apart from providing additional information, No alterations to its format shall be permitted and no substitutions shall be accepted.

## Section 6: Technical Bid Form<sup>7</sup>

<b>JOF-0257-31196/20107</b>	
<b>Name of Bidding Organization / Firm:</b>	
<b>Country of Registration:</b>	
<b>Name of Contact Person for this Bid:</b>	
<b>Address:</b>	
<b>Phone / Fax:</b>	
<b>Email:</b>	

<b>SECTION 1: EXPERTISE OF FIRM/ ORGANISATION</b>						
<i>This section should fully explain the Bidder's resources in terms of personnel and facilities necessary for the performance of this requirement.</i>						
<p><b>1.1 Brief Description of Bidder as an Entity:</b> Provide a brief description of the organization / firm submitting the Bid, its legal mandates/authorized business activities, the year and country of incorporation, and approximate annual budget, etc. Include reference to reputation, or any history of litigation and arbitration in which the organisation / firm has been involved that could adversely affect or impact the delivery of goods and/or performance of related services, indicating the status/result of such litigation/arbitration.</p> <p><b>1.2. Financial Capacity:</b> Based on the latest Audited Financial Statement (Income Statement and Balance Sheet) describe the financial capacity (liquidity, stand-by credit lines, etc.) of the bidder to engage into the contract. Include any indication of credit rating, industry rating, etc.</p> <p><b>1.3. Track Record and Experiences:</b> Provide the following information regarding corporate experience within at least the last five (5) years which are related or relevant to those required for this Contract.</p>						
<b>Name of project</b>	<b>Client</b>	<b>Contract Value</b>	<b>Period of activity</b>	<b>Types of activities undertaken</b>	<b>Status or Date Completed</b>	<b>References Contact Details (Name, Phone, Email)</b>

<sup>7</sup> Technical Bids not submitted in this format may be rejected.



**SECTION 2 - SCOPE OF SUPPLY, TECHNICAL SPECIFICATIONS, AND RELATED SERVICES**

*This section should demonstrate the Bidder’s responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the specifications.*

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

<b>Item No.</b>	<b>Description/ Specification of Goods</b>	<b>Source/ Manufacturer</b>	<b>Country of Origin</b>	<b>Qty</b>	<b>Quality Certificate/ Export Licences, etc. (indicate all that applies and if attached)</b>

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

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

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

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

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

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

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

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

**2.9 Statement of Full Disclosure:** This is intended to disclose any potential conflict in accordance with the definition of “conflict” under Section 4 of this document, if any.

**2.10 Other:** Any other comments or information regarding the bid and its implementation.

**SECTION 3: PERSONNEL**

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

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

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

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

## Section 7: Price Schedule Form

---

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

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

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

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

### A. Cost Breakdown per Lot

#### Lot 01

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

#### Lot 02

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

#### Lot 03

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)

	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 04**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 05**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 06**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 07**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>

	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 08**

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 09**

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 10**

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 11**

Item No.	Description/Specification of Goods	Quantity	Latest Delivery Deadline	Unit Price (DAP incoterms)	Total Price per Item (DAP incoterms)
	<b>Total Prices of Goods per lot</b>				

	<b>Total Final and All-Inclusive Price Quotation</b>	
--	--	--

**Lot 12**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 13**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 14**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>
	<b>Total Prices of Goods per lot</b>				
	<b>Total Final and All-Inclusive Price Quotation</b>				

**Lot 15**

<b>Item No.</b>	<b>Description/Specification of Goods</b>	<b>Quantity</b>	<b>Latest Delivery Deadline</b>	<b>Unit Price (DAP incoterms)</b>	<b>Total Price per Item (DAP incoterms)</b>

	<b>Total Prices of Goods per lot</b>	
	<b>Total Final and All-Inclusive Price Quotation</b>	

**TABLE 2 : Offer to Comply with Other Conditions and Related Requirements**

Other Information pertaining to our Quotation are as follows:	Responses		
	Yes, we will comply	No, we cannot comply	If you cannot comply, pls. indicate counter proposal
Delivery Lead Time -90 days			
Estimated weight/volume/dimension of the Consignment			
Country/ies Of Origin			
Warranty and After-Sales Requirements			
a) Minimum one (1) year warranty on both parts and labor			
b) Good to be Provided when the Purchased Good is Under Repair/ Maintenance			
c) Brand new replacement if Purchased Good is beyond repair			
d) Others( to be specified)			
Validity of Quotation 120 days			
All Provisions of the UNDP General Terms and Conditions			

**Section 8: FORM FOR BID SECURITY**

*(Not Applicable)*



## Section 9: FORM FOR PERFORMANCE SECURITY

*(Not Applicable)*

---

## Section 10: Form for Advanced Payment Guarantee

*(Not Applicable)*

---