# SECTION 7: BIDDING FORMS

**Form A: Bid Confirmation**

**Form B: Checklist**

**Form C: Bid Submission**

**Form D: Bidder Information**

**Form E: Joint Venture / Consortium / Association Information**

**Form F: Eligibility and Qualification**

**Form G: Technical Bid**

**Form H: Price Schedule**

**Form I: Bid Security *[scanned copy included in online submission and original submitted not later than 10 (ten) days after the submission deadline at the address indicated in Section 3 above]* *[in case Bidder applies for three (3) lots]***

## FORM A: BID CONFIRMATION

Please acknowledge receipt of this ITB by completing this form and returning it by email to the address, and by the date specified, in the Letter of Invitation.

|  |  |  |
| --- | --- | --- |
| To: | Insert name of contact person | Email: Insert contact person’s email - do not enter secure bid email address |
| From: | Insert name of bidder |  |
| Subject | ITB reference Click or tap here to enter text. |
| **Check the appropriate box** | **Description** |
|[ ]  **YES**, we intend to submit a bid. |
|[ ]  **NO**. We are unable to submit a competitive offer for the requested goods/works/services at the moment |

If you selected NO above, please state the reason(s) below:

|  |  |
| --- | --- |
| **Check applicable** | **Description** |
|[ ]  The requested goods/services are not within our range of supply |
|[ ]  We are unable to submit a competitive offer for the requested products at the moment |
|[ ]  The requested products are not available at the moment |
|[ ]  We cannot meet the requested specifications |
|[ ]  We cannot offer the requested type of packing |
|[ ]  We can only offer FCA prices |
|[ ]  The information provided for bidding purposes is insufficient |
|[ ]  Your ITB is too complicated |
|[ ]  Insufficient time is allowed to prepare a bid |
|[ ]  We cannot meet the delivery requirements |
|[ ]  We cannot adhere to your terms and conditions e.g. payment terms, request for performance security, etc.. Please provide details below. |
|[ ]  Sustainability criteria/requirements are too stringent (if applicable) |
|[ ]  We do not export |
|[ ]  We do not sell to the UN |
|[ ]  Your volume is too small and does not meet our order quantity |
|[ ]  Our production capacity is currently full |
|[ ]  We are closed during the holiday season |
|[ ]  We had to give priority to other clients’ requests |
|[ ]  We do not sell directly but through distributors  |
|[ ]  We have no after-sales service available |
|[ ]  The person handling the bids is away from the office |
|[ ]  Other (please provide reasons below):  |
| Further information: Click or tap here to enter text. |
|[ ]  We would like to receive future ITBs for this type of goods |
|[ ]  We don’t want to receive ITBs for this type of goods |

Questions to the bidder concerning the reasons for NO BID should be addressed to Click or tap here to enter text. phone Click or tap here to enter number., email Click or tap here to enter text..

## FORM B: CHECKLIST

This form serves as a checklist for preparation of your bid. Please complete the returnable bidding forms in accordance with the instructions and return them as part of your bid submission: No alteration to the format of forms shall be permitted and no substitution shall be accepted.

Before submitting your bid, please ensure compliance with the instructions in Section 2: Instructions to Bidders and Section 3: Data Sheet.

**Technical bid:**

|  |  |
| --- | --- |
| **Have you duly completed all the returnable bidding forms?**  |  |
| * Form C: Bid Submission
 | [ ]  |
| * Form D: Bidder Information
 | [ ]  |
| * Form E: Joint Venture/Consortium/Association Information
 | [ ]  |
| * Form F: Eligibility and Qualification
 | [ ]  |
| * Form G: Technical Bid/Bill of Quantities
 | [ ]  |
| * From I: Bid Security *[scanned copy included in online submission and original submitted not later than 10 (ten) days after the submission deadline at the address indicated in Section 3 above] [in case Bidder applies for three (3) lots]*
 | [ ]  |
| **Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?**  | [ ]  |
| **Have you provided the required documents in support of Form D: Bidder Information?** | [ ]  |

**Price Schedule:**

|  |  |
| --- | --- |
| * Form H: Price Schedule
 | [ ]  |

## FORM C: BID SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| Name of bidder: | Click or tap here to enter text. | Date: | Click or tap to enter a date. |
| ITB reference: | Click or tap here to enter text. |

We, the undersigned, offer to supply the goods and related services required for Click or tap here to enter text.in accordance with your Invitation to Bid No. Click or tap here to enter text.. We hereby submit our bid, which includes this Technical Bid and Price Schedule.

The total price of our bid, excluding any discounts offered below as per the total amount indicated directly in our response in the system.

The discounts offered and the methodology of their application are:

* **Discounts:** If our bid is accepted, the following discounts shall apply Specify in detail each discount offered and the specific item of the Schedule of Requirement to which it applies, including if applicable discounts for accelerated payment.
* **Methodology of application of the discounts:** The discounts shall be applied using the following method: Specify in detail the method that shall be used to apply the discounts

**Bidder Declaration:** on behalf of our firm, its affiliates, subsidiaries and employees, including any JV / Consortium / Association members or subcontractors or suppliers for any part of the contract.

| **Yes** | **No** |  |
| --- | --- | --- |
|[ ] [ ]  **Requirements and Terms and Conditions:** I/We have read and fully understand the ITB, including the ITB Information and Data Sheet, Schedule of Requirements, the General Conditions of Contract and any Special Conditions of Contract. I/we confirm that the bidder agrees to be bound by them. |
|[ ] [ ]  I/We confirm that the bidder has the necessary capacity, capability and necessary licenses to fully meet or exceed the requirements and will be available to deliver throughout the relevant contract period. |
|[ ] [ ]  **Ethics**: In submitting this bid I/we warrant that the bidder: has not entered into any improper, illegal, collusive or anti-competitive arrangements with any competitor; has not directly or indirectly approached any representative of the buyer (other than the point of contact) to lobby or solicit information in relation to the ITB; has not attempted to influence, or provide any form of personal inducement, reward or benefit to any representative of the buyer.  |
|[ ] [ ]  I/We confirm to undertake not to engage in proscribed practices, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we have read the United Nations Supplier Code of Conduct :<https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct> and acknowledge that it provides the minimum standards expected of suppliers to the UN. |
|[ ] [ ]  **Conflict of interest:** I/We warrant that the bidder has no actual, potential or perceived conflict of Interest in submitting this bid, or entering into a contract to deliver the requirements. Where a conflict of interest arises during the ITB process the bidder will report it immediately to the Procuring Organisation’s Point of Contact. |
|[ ] [ ]  **Prohibitions, Sanctions:** l/We hereby declare that our firm, ultimate beneficial owners, its affiliates or subsidiaries or employees, including any JV/Consortium members or subcontractors or suppliers for any part of the contract is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists and have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group. |
|[ ] [ ]  I/We do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15); |
|[ ] [ ]  **Bankruptcy**: l/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future. |
|[ ] [ ]  **Bid Validity Period:** I/We confirm that this bid, including the price, remains open for acceptance for the bid validity period.  |
|[ ] [ ]  I/We understand and recognize that you are not bound to accept any bid you receive and wecertify that the goods offered in our bid are new and unused. |
|[ ] [ ]  By signing this declaration, the signatory below represents, warrants and agrees that he/she has been authorised by the Organisation/s to make this declaration on its/their behalf. |

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

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

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

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

[*Stamp with official stamp of the bidder*]

## FORM D: BIDDER INFORMATION

|  |  |
| --- | --- |
| **ITB Reference** | Click or tap here to enter text. |
| **Legal name of bidder** | Click or tap here to enter text. |
| **Legal Address, City, Country** | Click or tap here to enter text. |
| **Website** | Click or tap here to enter text. |
| **Year of registration** | Click or tap here to enter text. |
| **Bidder’s Authorized Representative information** | Name and Title: Click or tap here to enter text.Telephone numbers: Click or tap here to enter text.Email: Click or tap here to enter text. |
| **Legal structure** | Choose an item. |
| **Organisational type** | Choose an item. |
| **Current Licenses, if any, and permits (with dates, numbers and expiration dates)** | Click or tap here to enter text. |
| **No. of full-time employees** | Click or tap here to enter number. |
| **No. of staff involved in similar supply contracts** | Click or tap here to enter number. |
| **Are you a UNGM registered vendor?** | [ ]  Yes [ ]  No If yes, insert UNGM Vendor Number |
| **Years of supplying to UN organisations** | Click or tap here to enter text. |
| **Are you a UNDP vendor?** | [ ]  Yes [ ]  No If yes, insert Vendor Number  |
| **Countries of operation** | Click or tap here to enter text. |
| **Subsidiaries in the region (please indicate names of subsidiaries and addresses, if relevant to the bid)** | Click or tap here to enter text. |
| **Commercial Representatives in the country: Name/Address/Phone (for international companies only)** | Click or tap here to enter text. |
| **Quality Assurance Certification (e.g. ISO 9000 or Equivalent)** *(If yes, provide a Copy of the valid Certificate):* | Click or tap here to enter text. |
| **Presence and characteristics of in-house quality control laboratory (if relevant to bid)** | Click or tap here to enter text. |
| **Does your Company have a corporate environmental policy or environmental management system such as ISO 14001 or ISO 14064 or equivalent?**  | Tick all that apply and **provide supporting documentation.** [ ]  Corporate Environmental Policy[ ]  ISO 14001[ ]  ISO 14064[ ]  Other, specify Click or tap here to enter text. |
| **Does your organization demonstrate significant commitment to sustainability, including the following aspects that have been identified in the UN Sustainable Procurement Framework?*** **Environmental: prevention of pollution, sustainable resources; climate change and mitigation and the protection of the environment, biodiversity.**
* **Social: human rights and labour issues, gender equality, sustainable consumption, and social health and wellbeing.**
* **Economic: whole life cycle costing, local communities and small or medium enterprises, and supply chain sustainability.**
 | Attach a formal statement that outlines your organisation’s commitment to sustainability, where possible providing evidence of tangible results that demonstrate progress such as:Tick all that are attached:[ ]  Formal statement[ ]  Sustainability report[ ]  UN Global Compact Communication on Progress[ ]  Other, specify Click or tap here to enter text. |
| **Does your company belong to a diverse supplier group including micro, small or medium sized enterprise, women or youth owned business or other?***(If yes, please provide details and documentation]* | Click or tap here to enter text. |
| **Is your company a member of the UN Global Compact**  | Choose an item. If yes, please provide a link to your Global Compact profile:Click or tap here to enter text. |
| **Bank Information** | Bank Name: Click or tap here to enter text.Bank Address: Click or tap here to enter text.IBAN: Click or tap here to enter text.SWIFT/BIC: Click or tap here to enter text.Account Currency: Click or tap here to enter text.Bank Account Number: Click or tap here to enter text. |
| **Contact person that** Click or tap here to enter text. **may contact for requests for clarifications during bid evaluation**  | Name and Title: Click or tap here to enter text.Telephone numbers: Click or tap here to enter text.Email: Click or tap here to enter text. |
| **Please attach the following documents:**  | * Bid Submission (as per Form C)
* Bidder Information (as per Form D)
* Company Profile, which should not exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods/works being procured
* Certificate of Incorporation/ Business Registration
* Certified details of the ownership of the Bidder company (including each member of a JV consortium), providing the percentage ownership, share or stockholding of each party with an interest exceeding 5% of the company ownership (or Annex 1 to Business Registration Certificate – for local companies)
* 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
* Certified Letter of Appointment and power of attorney authorizing the representative of the Bidder to sign bids committing the Bidder and his joint venture partners (if any) to engagement for the Contract
* Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country
* Joint Venture / Consortium / Association Information (as per Form E), if applicable
* Evidence of the capacities, capabilities and reputation of the JV partners/Subcontractors (if any) should meet respective requirements listed in Section 4
* Eligibility and Qualification (as per Form F)
* The latest Audited Financial Statement (Income Statement and Balance Sheet) including Auditor’s Reports (for international companies) or registered Financial Report at the Statistical Bureau (for local companies) for the past 3 (three) years for the Bidder (2019-2021)
* Details of Previous Relevant Experience within the last three (3) years, indicating the Beneficiary name and contact details, scope of contract, contract amount and period of contract execution
* Copies of signed contracts and/or any other prove of successful completion of delivery of goods/provision of services included under similar experience (as required in Section 4)
* At least 3 Clients’ statements confirming satisfactory performance by the Bidder, each JV partner/Subcontractor (if the case), on the three contracts of highest value carried out, during the past three (3) years, by each intended participant
* Technical Bid (as per Form G)
* Adequate technical documentation, certificates of conformity and/or quality, catalogue (s) and other printed material or information pertinent to the equipment according to LOT applied
* Schedule of activities/work indicating duration and key dates for each stage
* List of qualified key personnel/specialists (operation and maintenance trainer(s)), together with CVs and professional certificates (valid at the date of presentation) indicating professional qualifications, experience in the field of training and use of the delivered equipment (as required in Section 4 above)
* Evidence of the Bidder’s Environmental and Social Management capability by submitting a plan which will ensure that all identified negative biological, physical and/or socio-economic impacts are minimized, mitigated or reversed
* Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any
* Duly filled-in Price Schedule (as per Form H)
* Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder’s practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures
* Certificates of quality and origin for the offered goods, materials and accessories (where applicable), if any
* Equipment warranty certificates for at least twelve (12) months from the date of delivery
* Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney (if Supplier is not the manufacturer)
* Export Licenses, if applicable
* Bid Security (as per Form I) – submitted in original not later than 10 days after the submission deadline from tender deadline at the address indicated in Section 3 above
 |

## FORM E: JOINT VENTURE/CONSORTIUM/ASSOCIATION INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
| Name of bidder: | Click or tap here to enter text. | Date: | Click or tap to enter a date. |
| ITB reference: | Click or tap here to enter text. |

To be completed and returned with your bid if the bid is submitted as a Joint Venture/Consortium/Association.

|  |  |  |
| --- | --- | --- |
| **No** | **Name of Partner and contact information** *(address, telephone numbers, fax numbers, e-mail address)* | **Proposed proportion of responsibilities (in %) and type of goods, works and/or services to be performed**  |
| 1 | Click or tap here to enter text. | Click or tap here to enter text. |
| 2 | Click or tap here to enter text. | Click or tap here to enter text. |
| 3 | Click or tap here to enter text. | Click or tap here to enter text. |

|  |  |
| --- | --- |
| **Name of leading partner** (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution) | Click or tap here to enter text. |

We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

[ ]  Letter of intent to form a joint venture ***OR*** [ ]  JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to Click or tap here to enter text for the fulfilment of the provisions of the Contract.

|  |  |
| --- | --- |
| Name of partner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | Name of partner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |
| Name of partner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name of partner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

##

## FORM F: ELIGIBILITY AND QUALIFICATION FORM

|  |  |  |  |
| --- | --- | --- | --- |
| Name of bidder: | Click or tap here to enter text. | Date: | Click or tap to enter a date. |
| ITB reference: | Click or tap here to enter text. |

***If JV/Consortium/Association, to be completed by each partner.***

**History of Non- Performing Contracts**

|  |
| --- |
| [ ] No non-performing contracts during the last 3 years  |
| [ ]  Contract(s) not performed in the last 3 years |
| **Year** | **Non- performed portion of contract** | **Contract Identification** | **Total Contract Amount** (current value in US$) |
|   |  | Name of Client: Address of Client: Reason(s) for non-performance: |  |

**Litigation History** (including pending litigation)

|  |
| --- |
| [ ]  No litigation history for the last 3 years |
| [ ]  Litigation History as indicated below |
| **Year of dispute**  | **Amount in dispute** (state currency) | **Contract Identification** | **Total Contract Amount** (state currency) |
|   |  | Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute:Party awarded if resolved: |  |

**Previous Relevant Experience**

Please list only previous similar assignments successfully completed in the last three (3) years.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project name & Country of Assignment** | **Client & Reference Contact Details** | **Contract Value** | **Period of activity and status** | **Types of activities undertaken and role (Contractor, sub-contractor or consortium member)** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

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

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

**Financial Standing**

|  |  |  |  |
| --- | --- | --- | --- |
| **Annual Turnover for the last 3 years** | 2019 | USD | Amount |
| 2020 | USD | Amount |
| 2021 | USD | Amount |
| **Latest Credit Rating (if any), indicate the source and date.** |  |

|  |  |
| --- | --- |
| **Financial information**(state currency) | **Historic information for the last 3 years** |
|  | 2019 | 2020 | 2021 |
|  | *Information from Balance Sheet* |
| Total Assets (TA) |  |  |  |
| Total Liabilities (TL) |  |  |  |
| Current Assets (CA) |  |  |  |
| Current Liabilities (CL) |  |  |  |
|  | *Information from Income Statement* |
| Total / Gross Revenue (TR) |  |  |  |
| Profits Before Taxes (PBT) |  |  |  |
| Net Profit  |  |  |  |
| Current Ratio (current assets/current liabilities) |  |  |  |

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

* 1. Must reflect the financial situation of the bidder or party to a JV, and not sister or parent companies;
	2. Historic financial statements must be audited by a certified public accountant;
	3. Historic financial statements must correspond to accounting periods already completed and audited. No statements for partial periods shall be accepted.

## FORM G: TECHNICAL BID

|  |  |  |  |
| --- | --- | --- | --- |
| Name of bidder: | Click or tap here to enter text. | Date: | Click or tap to enter a date. |
| ITB reference: | Click or tap here to enter text. |

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

**SECTION 1: Bidder’s qualification, capacity and expertise**

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

**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 requirements/specifications. All important aspects should be addressed in sufficient detail.

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

|  |  |
| --- | --- |
| **Goods, works and/or services to be Supplied and****Technical Specifications** | **Bidder’s response** |
| **Compliance with technical specifications** | **Delivery Date***(confirm that you comply or indicate your delivery date)* | **Quality Certificate/Export Licenses, etc.** *(indicate all that apply and attach)* | **Comments** |
| **Yes, we comply** | **No, we cannot comply***(indicate discrepancies)* |
| **Equipment as per LOT 1** |  |  |  |  |  |
| **Equipment as per LOT 2** |  |  |  |  |  |
| **Equipment as per LOT 3** |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Related services and requirements** *(based on the information provided in Section 5)* | **Compliance with requirements** | **Details or comments****on the related requirements** |
| **Yes, we comply** | **No, we cannot comply***(indicate discrepancies)* |
| Delivery Terms  |  |  |  |
| Installation Requirements |  |  |  |
| Testing Requirements  |  |  |  |
| Scope of Training on Operation and Maintenance |  |  |  |
| Commissioning |  |  |  |
| Warranty Period |  |  |  |
| Local Service Support  |  |  |  |
| Technical Support Requirements |  |  |  |
| After-sale services Requirements  |  |  |  |
| Payment Terms |  |  |  |
| All documentations, including catalogues, instructions and operating manuals, shall be in this language  |  |  |  |

Additionally, the Bidder shall fill in the detailed Technical Responsiveness Table as below.

Technical Responsiveness Table

Bidders shall provide all the applicable data of the equipment offered, failing to do so may result in the bid being rejected. Corresponding documentation shall form part of the bidder’s offer.

**LOT 1 - Tools and electrical equipment for training**

| **Item No** | **Name of equipment**  | **Category of Equipment** | **Minimum Technical Requirements** | **Beneficiary institution** | **√****YES** | **√****NO** | **Technical Compliance****Please provide details /description of offered feature)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **Drill drivers with battery** | tool | Accumulator: 2x2.0AhBattery type: Li-IonComplete set: 2 batteries + suitcaseIdling speed:1300 min-1Power type: AccumulatorMax. diameter drilling steel: 10 mmMax. diameter wood drilling: 20 mm | Technological College from Chisinau |  |  |  |
| 2 | **Transformer electronic** | electrical equipment | Power (W): 150 WVoltage (V): 230 VOutput voltage (V): 12 V | Technological College from Chisinau |  |  |  |
| 3 | **Transformer for LED strip** | electrical equipment | Power (W): 360 WVoltage (V): 220 - 240 VCurrent (A): 30 AOutput voltage (V): DC 12V | Technological College from Chisinau |  |  |  |
| 4 | **RGB LED amplifier** | electrical equipment | Power (W): 288 WVoltage (V): 12 VCurrent (A): 24 A Degree of protection (IP): IP20 | Technological College from Chisinau |  |  |  |
| 5 | **RGB controller with remote** | electrical equipment | Power (W): 72 WVoltage (V): 12 VCurrent (A): 2 ADegree of protection (IP): IP20Options: MultifunctionalCompletion: AC adapter | Technological College from Chisinau |  |  |  |
| 6 | **Freon charging station**  | tool | Charging Station Complete R134aSteel frame construction with Vacuum pump: RL-4 Vacuum gauge: 19800-SV Bellow gauges: oil-filled, Ø 60Valves for connection of refrigeration systems and refrigerant-supply line | Technological College from Chisinau |  |  |  |
| 7 | **Manifold (2-way manifold with Bourdon Type)** | tool | Number of Ways: 2-wayType: Bourdon-typeAccuracy Class: 1.6Nominal Size: 68Oil-filled: NoZero Point Adjustment: YesPressure Scale: bar | psiRefrigerant(s): R134a | R404A | R507Ball Valve: NoScope of Supply: 3 Charging hosesPackaging: Sturdy plastic case | Technological College from Chisinau |  |  |  |
| 8 | **Pipe rolling device** | tool | Tube Material - Copper; Aluminum; Plastics | Technological College from Chisinau |  |  |  |
| 9 | **Refrigeration socket set inch sizes** | tool | Number of Pieces: 21Scope of Supply: RatchetIntermediate piece 1/4" / 1/4"Extension 15.5 mmSpecial nutCross handleCardan jointTransition piece outsideTransition piece insideVarious insertsPackaging: Sturdy plastic caseMaterial: Stainless steel | LDPE | Technological College from Chisinau |  |  |  |
| 10 | **Refrigeration socket set**  | tool | Number of Pieces: 20Packaging: Sturdy plastic caseMaterial: Stainless steel | LDPE | Technological College from Chisinau |  |  |  |
| 11 | **Torque wrench set in a handy case** | tool | Torque adjustable from 10 to 75 NmKey widths: 17, 19, 22, 24, 26, 27, 29 mm | Technological College from Chisinau |  |  |  |
| 12 | **Screwdriver set** | tool | 10-piece screwdriver set made of chrome vanadium steel with non-slip handle | Technological College from Chisinau |  |  |  |
| 13 | **LED projector with solar battery** | electrical equipment | Power (W): 60 WColor temperature (K): 6400 KLuminous flux (lm): 1040 lmProtection (IP): IP65 | Polytechnic College Balti |  |  |  |
| 14 | **LED street lighting body with solar panel** | electrical equipment | Power (W): 60 WColor temperature (K): 6500 KVoltage (V): 6V/10WLuminous flux (lm): 6000 lmProtection (IP): IP65 | Polytechnic College Balti |  |  |  |
| 15 | **Sensor day/night** | electrical equipment | Power (W): 1200 WVoltage (V): 220 - 240 VProtection (IP): IP44 Form type: Indoor Type: Radar Lighting level (lux): 50 | Polytechnic College Balti |  |  |  |
| 16 | **Motion sensor** | electrical equipment | Power (W): 1000 WVoltage (V): 220 - 240 VForm type: OutsideProtection (IP): IP20Type: InfraredAmbient temperature during operation: up to 24°COptions: 2 adjustable buttons (Time, luxury)Angle (degrees): 360°Distance (m): 8 mLighting level (lux): 2000Actuation duration (time): From 5 sec to 8/12 min | Polytechnic College Balti |  |  |  |
| 17 | **Digital timer socket** | electrical equipment | Power (W): 3680 WVoltage (V): 230 VCurrent (A): 16 AProtection (IP): IP20Type: programmable | Polytechnic College Balti |  |  |  |
| 18 | **LED projector** | electrical equipment | Power (W): 50 WColor temperature (K): 6500 KVoltage (V): 220 - 240 VProtection (IP): IP65 | Polytechnic College Balti |  |  |  |
| 19 | **Analog programmable switch** | electrical equipment | Power supply: 230 V ~ - 50/60 HzFront panel 3-position "ON-AUTO-OFF" boost switchManual switch to summer / winter time1 output 16 A - 250 V ~ - μ cos = 1Daily schedule1 segment = 15 minutesAccuracy: ± 5 minutesVertical keyboardWith a power reserve of 100 hoursNumber of modules: 1 | Polytechnic College Balti |  |  |  |
| 20 | **Electronic socket timer** | electrical equipment | Operating temperature range, °C: 0 ... + 40 Rated operating voltage Ue, V: 230 Rated frequency, Hz: 50 Rated current In, A: 8A (AC1) Characteristic: Maximum number of V / O cycles per day / week: 140; The minimum step of setting the operating time: 1 min; Battery life: at least 150 hours | Polytechnic College Balti |  |  |  |
| 21 | **Mechanical time relay (programmable 24h analogue socket)** | electrical equipment | Power supply: 230V AC / 50HzNominal load: 3500 W / 16 AMode: 24 hours | Polytechnic College Balti |  |  |  |
| 22 | **Wi-fi smart socket** | electrical equipment | Current (A): 16 AVoltage (V):250 VFrequency (Hz): 50...50 HzEarthing: YesNumber of sockets - 1With On/Off switch - YesProtection (IP) - IP20  | Polytechnic College Balti |  |  |  |
| 23 | **Smart switch** | electrical equipment | Size: 80mm\*80mm\*40mm Maximum voltage: 250 V Total nominal load: 2000 W Maximum current: 5 A Own consumption: less than 0.1mW Type: Wall Light Dimmer Switch, with light dimmer - changes the intensity of the light | Polytechnic College Balti |  |  |  |
| 24 | **Unitary socket outdoor** | electrical equipment | Current intensity: 16AVoltage (V): 220VSocket with child protection: YesMounting Type: ApparentDegree of protection (IP): IP44Grounded: Yes | Polytechnic College Balti |  |  |  |
| 25 | **External unitary switch** | electrical equipment | Destination: OutsideVoltage (V): 230 VCurrent (A): 10 AProtection (IP): IP44Frequency: 50 Hz | Polytechnic College Balti |  |  |  |
| 26 | **External double switch** | electrical equipment | Voltage (V): 250 VCurrent (A): 10ADegree of protection (IP): IP44Type: HermeticFrequency: 50 Hz | Polytechnic College Balti |  |  |  |
| 24 | **UZO automatic switch** | electrical equipment | Model: VD1-63Current intensity: 25ANumber of poles: 2Ambient temperature during operation: from -40°С to +50°СNominal leakage current: 30mA . Degree of protection (IP): IP20 | Polytechnic College Balti |  |  |  |
| 28 | **Automatic switch** | electrical equipment | Voltage (V): 230 - 400VCurrent (A): 16 ANo. Poles: 1PCar. electromagnetic release: C | Polytechnic College Balti |  |  |  |
| 29 | **Low voltage arrester** | electrical equipment | Voltage (V): 400 VCurrent (A): 20 kANo. Poles: 2PCar. electromagnetic release: C | Polytechnic College Balti |  |  |  |
| 30 | **Photorele** | electrical equipment | Power (W): 1100 WVoltage (V): 220 - 240 VForm type: IndoorDegree of protection (IP): IP44Type: RadarAmbient temperature during operation: from -25°С to +40°СOptions: 1 adjustable button (lux)Fixing method: Fixing supportLighting level (lux): 50 | Polytechnic College Balti |  |  |  |
| 31 | **Contactor**  | electrical equipment | Voltage (V): 220 VCurrent (A): 9 AProtection (IP): IP20Frequency: 50 Hz | Polytechnic College Balti |  |  |  |
| 32 | **Electric motor** | electrical equipment | Power (W): 1.1 kWVoltage (V): 220/380 VDegree of protection (IP): IP54Type: AsynchronousFrequency: 50 HzIdling speed: 1000 rpmAttachment method: SoleMode: S1Basket φ: 0.71Number of phases: Three-phase | Polytechnic College Balti |  |  |  |
| 33 | **Contactor** | electrical equipment | Voltage (V): 380 VCurrent (A): 65 ADegree of protection (IP): IP20Type: 1NO+1NCNo. Poles: 3PFrequency: 50/60 Hz | Polytechnic College Balti |  |  |  |
| 34 | **Distribution box** | electrical equipment | Dimensions (L x W x H x Ø) - 100 x 100 x 45 mmMaterial type - Plastic | Polytechnic College Balti |  |  |  |
| 35 | **Outdoor automotive box** | electrical equipment | The quantity of automatic switches: 1-16 piecesInstallation mode: ExternalDegree of protection: IP20 | Polytechnic College Balti |  |  |  |
| 36 | **Electrician tools set** | tool | Professional electrician tool set of 68 specially selected tools. The straps and screwdrivers in the kit are insulated up to 1000V | Polytechnic College Balti |  |  |  |
| 37 | **Assembly table** | laboratory table | Leg height 22300mmMetal shelf 1330x3000mmPerforated wall 1330x3000mm | Polytechnic College Balti |  |  |  |
| 38 | **LED street lighting body with solar panel**  | electrical equipment | Power (W): 90 WColor temperature (K): 6500 KVoltage (V) : 6V/14WLuminous flux (lm): 9000 lmDegree of protection (IP) - IP65 | IP Agricultural Technical College from Soroca |  |  |  |
| 39 | **LED street lighting body with solar panel**  | electrical equipment | Power (W): 50 WAverage lifetime (h): 12-15 hColor temperature (K): 6400 KLuminous flux (lm): 950 lmDegree of protection (IP): IP65 | IP Agricultural Technical College from Soroca |  |  |  |
| 40 | **Support for street lighting body** | electrical equipment | Dimensions (L x W x H x Ø) - 300 x 40 mmMaterial type: Metal | IP Agricultural Technical College from Soroca |  |  |  |
| 41 | **Single-phase electric meter** | electrical equipment | Voltage (V): 220 VCurrent (A): 40 AType: DigitalNumber of phases: Single phase | IP Agricultural Technical College from Soroca |  |  |  |
| 42 | **Three-phase electric meter** | electrical equipment | Voltage (V): 230 - 400VCurrent (A): 5 - 100 ADegree of protection (IP): IP20Type: DigitalNumber of phases: Three-phase | IP Agricultural Technical College from Soroca |  |  |  |
| 43 | **Electric cable** | electrical equipment | Color: BlackMaterial type: CopperNumber of threads: 3 Type: PVSSection: 1.5 mm² | IP Agricultural Technical College from Soroca |  |  |  |
| 44 | **Electric cable** | electrical equipment | Model: PVSWhite: colorMaterial type: CopperNumber of threads: 3 Section: 1.5 mm² | IP Agricultural Technical College from Soroca |  |  |  |
| 45 | **Electric cable** | electrical equipment | Color: BlackMaterial type: CopperNumber of threads: 3 Type: PVSSection: 2.5 mm² | IP Agricultural Technical College from Soroca |  |  |  |
| 46 | **Voltage stabilizer** | electrical equipment | Power (W): 1200 WVoltage (V): 140 - 275 V | IP Agricultural Technical College from Soroca |  |  |  |
| 47 | **Voltage stabilizer** | electrical equipment | Power (W): 4 kWVoltage (V): 220/230 V | IP Agricultural Technical College from Soroca |  |  |  |
| 48 | **Single-phase inverter** | electrical equipment | Power (W): 1.5 kWVoltage (V): 220 - 240 VDegree of protection (IP): IP20Number of phases: Single phase | IP Agricultural Technical College from Soroca |  |  |  |
| 49 | **Inverter 220 V** | electrical equipment | Power (W): 2000 WVoltage (V): 12 VOutput voltage (V): 220 V | IP Agricultural Technical College from Soroca |  |  |  |
| 50 | **Three-phase electric motor** | electrical equipment | Power (W): 0.37 kWVoltage (V): 220/380 VDegree of protection (IP): IP55Frequency: 50 HzIdling speed: 1000 rpmGrip method: SoleShaft size (Ø x L): 14 x 30 mmMode: S1Basket φ: 0.70Number of phases: Three-phase | IP Agricultural Technical College from Soroca |  |  |  |
| 51 | **Three-phase electric motor** | electrical equipment | Power (W): 750 WVoltage (V): 380 VDegree of protection (IP): IP55Type: AsynchronousFrequency: 50 HzIdling speed: 3000 rpmGrip method: SoleShaft size (Ø x L): 19 x 40 mmRegime: MSBasket φ: 0.83Number of phases: Three-phase | IP Agricultural Technical College from Soroca |  |  |  |
| 52 | **Three-phase electric motor** | electrical equipment | Power (W): 1.1 kWVoltage (V): 220/380 VDegree of protection (IP): IP55Type: AsynchronousFrequency: 50 HzIdling speed: 1500 rpmGrip method: SoleShaft size (Ø x L): 24 x 50 mmMode: S1Number of phases: Three-phase | IP Agricultural Technical College from Soroca |  |  |  |
| 53 | **Electrician tools set** | tool | Professional electrician tool set of 68 specially selected tools. The straps and screwdrivers in the kit are insulated up to 1000V | IP Agricultural Technical College from Soroca |  |  |  |
| 54 | **Tool set** | tool | Material type - Chrome vanadiumPieces in set - 94 | IP Agricultural Technical College from Soroca |  |  |  |
| 55 | **Photovoltaic plant for laboratory**  | electrical equipment | 4 x 275W panels1 x Inverter 1100WAluminum fastenersPower cable 4-6mmConnectionsfitting | IP Agricultural Technical College from Soroca |  |  |  |
| 56 | **Assembly table** | laboratory table | Leg height 22300mmMetal shelf 1330x3000mmPerforated wall 1330x3000mm | IP Agricultural Technical College from Soroca |  |  |  |
| 57 | **LED projector with the solar battery** | electrical equipment | Power (W): 60 WColor temperature (K): 6400 KLuminous flux (lm): 1040 lmProtection (IP): IP65 | IP Agricultural Technical College from Soroca |  |  |  |
| 58 | **Sensor day/night** | electrical equipment | Power (W): 1200 WVoltage (V): 220 - 240 VProtection (IP): IP44 Form type: Indoor Type: Radar Lighting level (lux): 50 | IP Agricultural Technical College from Soroca |  |  |  |
| 59 | **Motion sensor** | electrical equipment | Power (W): 1000 WVoltage (V): 220 - 240 VForm type: OutsideProtection (IP): IP20Type: InfraredAmbient temperature during operation: up to 24°COptions: 2 adjustable buttons (Time, luxury)Angle (degrees): 360°Distance (m): 8 mLighting level (lux): 2000Actuation duration (time): From 5 sec to 8/12 min | IP Agricultural Technical College from Soroca |  |  |  |
| 60 | **Digital timer socket** | electrical equipment | Power (W): 3680 WVoltage (V): 230 VCurrent (A): 16 AProtection (IP): IP20Type: programmable | IP Agricultural Technical College from Soroca |  |  |  |
| 61 | **Analog programmable switch** | electrical equipment | Power supply: 230 V ~ - 50/60 HzFront panel 3-position "ON-AUTO-OFF" boost switchManual switch to summer / winter time1 output 16 A - 250 V ~ - μ cos = 1Daily schedule1 segment = 15 minutesAccuracy: ± 5 minutesVertical keyboardWith a power reserve of 100 hoursNumber of modules: 1 | IP Agricultural Technical College from Soroca |  |  |  |
| 62 | **Electronic socket timer** | electrical equipment | Operating temperature range, °C: 0 ... + 40 Rated operating voltage Ue, V: 230 Rated frequency, Hz: 50 Rated current In, A: 8A (AC1) Characteristic: Maximum number of V / O cycles per day / week: 140; The minimum step of setting the operating time: 1 min; Battery life: at least 150 hours. | IP Agricultural Technical College from Soroca |  |  |  |
| 63 | **Mechanical time relay (programmable 24h analogue socket)** | electrical equipment | power supply: 230V AC / 50Hznominal load: 3500 W / 16 Amode: 24 hours | IP Agricultural Technical College from Soroca |  |  |  |
| 64 | **Wi-fi smart socket** | electrical equipment | Current (A): 16 AVoltage (V):250 VFrequency (Hz): 50...50 HzEarthing: YesNumber of sockets - 1With On/Off switch - YesProtection (IP) - IP20  | IP Agricultural Technical College from Soroca |  |  |  |
| 65 | **Unitary socket outdoor** | electrical equipment | Current intensity: 16AVoltage (V): 220VSocket with child protection: YesMounting Type: ApparentDegree of protection (IP): IP44Grounded: Yes | IP Agricultural Technical College from Soroca |  |  |  |
| 66 | **External unitary switch** | electrical equipment | Destination: OutsideVoltage (V): 230 VCurrent (A): 10 AProtection (IP): IP44Frequency: 50 Hz | IP Agricultural Technical College from Soroca |  |  |  |
| 67 | **External double switch** | electrical equipment | Voltage (V): 250 VCurrent (A): 10ADegree of protection (IP): IP44Type: HermeticFrequency: 50 Hz | IP Agricultural Technical College from Soroca |  |  |  |
| 68 | **UZO automatic switch** | electrical equipment | Current intensity: 25ANumber of poles: 2Ambient temperature during operation: from -40°С to +50°СNominal leakage current: 30mADegree of protection (IP): IP20 | IP Agricultural Technical College from Soroca |  |  |  |
| 69 | **Automatic switch** | electrical equipment | Voltage (V): 230 - 400VCurrent (A): 16 ANo. Poles: 1PCar. electromagnetic release: C | IP Agricultural Technical College from Soroca |  |  |  |
| 70 | **Photorele** | electrical equipment | Power (W): 1100 WVoltage (V): 220 - 240 VForm type: IndoorDegree of protection (IP): IP44Type: RadarAmbient temperature during operation: from -25°С to +40°СOptions: 1 adjustable button (lux)Fixing method: Fixing supportLighting level (lux): 50 | IP Agricultural Technical College from Soroca |  |  |  |
| 71 | **Distribution box** | electrical equipment | Dimensions (L x W x H x Ø) - 100 x 100 x 45 mmMaterial type - Plastic | IP Agricultural Technical College from Soroca |  |  |  |
| 72 | **Generator gasoline 3 kW 220 V** | electrical equipment | Output voltage (V) 220 V frequency 50 Hz Fuel type Benzine Rated power (W) 3kW | IP Agricultural Technical College from Soroca |  |  |  |

**LOT II.** **Measurement and verification equipment for training**

| **Item No** | **Name of equipment**  | **Category of Equipment** | **Minimum Technical Requirements** | **Beneficiary institution** | **√****YES** | **√****NO** | **Technical Compliance****Please provide details /description of offered feature)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **Combustion Analyzer for Commercial and Industrial Applications** | M&V | Operating temperature: 23° to 122 °F / -5 to +50 °CHousing: TPE PCProtection class: IP40Connectable probes: 1 x flue gas probe; 1 x temperature probe; 1 x differential pressureDisplay type: graphic DisplayUser defined fuels: 10 user-defined fuels incl. test gas as fuelPump flow: 0.6 l/min (regulated)Hose length: max. 7.8 m (corresponds to two probe hose extensions)Max. pos. press./flue gas: 0.725 psi / 50 mbarMax. neg. press./flue gas: -2.901 psi / -200 mbarMaximum: 100 foldersStorage per folder: Max. 10 sitesStorage per site: Max. 200 logsMiscellaneous: The max. number of logs is determined by the number of folders or sitesInterface: Bluetooth®; USB; IR/IRDA interface; gas outlet; Mains connection; probe input/ probe inputs; Differential PressureStorage temperature: -4° to 122 °F / -20 to +50 °C | Center of Excellence in Construction |  |  |  |
| 2 | **Infrared thermometer with laser marking** | M&V | Measuring range: -22.0° to 752.0 °F / -30 to +400 °CAccuracy: ±2.7 °F or 1.5 % of mv (32.2° to 752.0 °F) / ±1.5 °C or ±1.5 % of mv (+0.1 to +400 °C)±3.6 °F or ±2 % of mv (-22.0° to 32.0 °F) (the higher value applies) / ±2 °C or ±2 % of mv (-30 to 0 °C) (the higher value applies)Measuring rate: 0.5 secInfrared resolution: 0.1 °F / 0.1 °C | Center of Excellence in Construction |  |  |  |
| 3 | **Pressure and flow velocity measuring instrument** | M&V | Measuring range: 0 to +800 InH₂O / 0 to +2000 hPaAccuracy: 0.5 % FsResolution: 1 InH₂O / 1 hPaOverload: ±1600 InH₂O / ±4000 hPa Operating temperature: 32° to 140 °F / 0 to +60 °CMeasuring medium: All non-corrosive gases  | Center of Excellence in Construction |  |  |  |
| 4 | **Light meter** | M&V | Measuring range: 0 to 99999 LuxAccuracy: ±3 Lux or ±3 % (compared to reference instrument at 90° light irradiation)Resolution: 1 Lux (0 to 19999 Lux) 10 Lux (Remaining Range) Measuring rate: 0.5 sec | Center of Excellence in Construction |  |  |  |
| 5 | **Digital temperature meter** | M&V | Measuring range: -58.0° to 1832.0 °F / -50 to +1000 °CAccuracy: ±(0.9 °F + 0.3 % of mv) (-40.0° to 1652.0 ) / ±(0.5 °C + 0.3 % of mv) (-40 to +900 °C) ±(1.3 °F + 0.5 % of mv) (Remaining Range) / ±(0.7 °C + 0.5 % of mv) (Remaining Range)Resolution: 0.1 °F (-58° to 391.8 °F) / 0.1 °C (-50 to +199.9 °C)1.0 °F (Remaining Range) / 1 °C (Remaining Range) Operating temperature: -4.0° to 122.0 °F / -20 to +50 °CHousing: ABSNumber of channels: 2-channel | Center of Excellence in Construction |  |  |  |
| 6 | **Thermal camera** | M&V | IR Resolution: 320 x 240 pixels (with testo Super Resolution technology 640 × 480 pixels)Thermal Sensitivity/NETD: <0.04 °CAccuracy: ±2 °C, ±2 % of m.v.; (greater value applies)Digital Camera: 5 MPDisplay type: 8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)Storage device: Internal Memory min. 2.8 GBCase included: yes | Center of Excellence in Construction |  |  |  |
| 7 | **The portable Flowmeter for Gases in hazardous areas** | M&V | • Measurement uncertainty at the measuring point ±1…3 % of reading • Repeatability 0.15 % of reading • Flow velocity range 0.03 to 115 ft/s, depending on pipe diameter• Ex zone transmitter FM Class I /Div 2• Power supply Li-ION, Operat. time >25h• Available transducers Shear wave/Lamb wave for Ex zones FM Class I /Div 2 • for pipe sizes range 0.28 inch to 63 inch• for temperature range -40°F to +392°F | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 8 | **Termal camera** | M&V | • IR Resolution 320 × 240 pixels• Thermal Sensitivity/NETD <40 mK at 30°C • Accuracy ±2°C or ±2% of the reading• Digital Camera 5 MP, with built-in LED photo/video lamp• Display 4", 640 × 480 pixel touchscreen LCD• Storage Media Removable SD card • Accuracy ±2°C or ±2% of the reading• Object Temperature Range -20 to 120°C; 0 to 650°C | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 9 | **Ultrasonic Leak Detector of Gas, Compressed Air, Bearing monitoring, Machinery Lubrication** | M&V | • Function Multifunction detector• Display Graphic LCD with backlighting (128 x 64)• Keyboard 12 function keys• Built-in sensors: Ultrasonic sensor; Pyrometer (according to the version).• External sensors: Through specific connector (Lemo 7 pin connector)• Data Logger - 100 Measurement Nodes (measurement points) - Total 4000 easurements (measurements data)• Communication: USB interface• Operating temperature -15 °C to +60 °C • Noise isolating, NRR 25 dB (tested in an accredited NVLAP laboratory) | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 10 | **Analysis box for exhaust gas analysis systems** | M&V | Analysis unit equipped with an O2 sensor. Additional gas sensors can be selected from CO, NO, NO2, SO2, H2S, CxHy or CO2. Measuring range: -20 to +50 °CAccuracy: ±0.2 °C (-10 to +50 °C)Resolution : 0.1 °C (-20 to +50 °C)Ambient temperature samplesType K (NiCr-Ni)Measuring range: -200 to +1370 °CAccuracy: ±0.4 °C (-100 to +200 °C) ±1 °C (-200 to -100.1 °C) ±1 °C (200.1 to +1370 °C)Resolution: 0.1 °C (-200 to +1370 °C)Type S (Pt10Rh-Pt)Measuring range: 0 to +1760 °CAccuracy: ±1 °C (0 to +1760 °C)Resolution: 0.1 °C (0 to +1760 °C)Differential pressure - piezoresistiveMeasurement range: -40 to +40 hPa -200 to +200 hPaAccuracy: ±1.5% of measured value (-40 to -3 hPa) ±1.5 % of the measured value (+3 to +40 hPa) ±0.03 hPa (-2.99 to +2.99 hPa) ±1.5% of measured value (-200 to -50 hPa) ±1.5 % of the measured value (+50 to +200 hPa) ±0.5 hPa (-49.9 to +49.9 hPa)Resolution: 0.01 hPa (-40 to +40 hPa) 0.1 hPa (-200 to +200 hPa)Absolute pressureMeasuring range: 600 to +1150 hPaAccuracy: ±10 hPaResolution: 1 hPa | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 11 | **Multilyzer NG** | M&V | • Flue gas temperature/temperature difference 0°C/+1,000°C• External wall/air temperature -20°C/+200°C• Draft, nominal +/- 70 hPa• Draft, maximum +/- 130 hPa• O2 0/21% volume• CO2 determination, indication range 0/CO2 max.• COH2 0/4,000 ppm• CO high (solid fuel) 0/20,000 ppm• NO 0/2,000 ppm• NO2 0/200 ppm• SO2 0/2,000 ppm• Table (device) approx. 750 g• LCD display• 7 mm draft/pressure connection• 8 mm gas connection• Data saving of a maximum of 100 measurements• USB, infrared, Bluetooth interfaces. | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 12 | **Laser telemeter** | M&V | • Operating range: 150 m• Accuracy: +/- 1 mm• Laser class: II• Measurement time: 0.5-4 s | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 13 | **Electrical clamps wattmeter** | M&V | • Type of meter: power clamp meter• Max. diameter of measured cable: 42mm• Kind of display used: LCD 4 digits (9999)• Sampling: 1x/6s (kW, kVA, kVAR), 2,5x/s• DC current measuring range: 10nA...99.99µA/999.9µA• AC current measuring range (1) indirect measurement) 10mA...99.99A/999.9A• DC current measuring accuracy: ±(1% + 20 digits)• Bandwidth for AC current measurements: 40...400Hz• AC current measuring accuracy: ±(2% + 20 digits)• DC voltage measuring range: 0.1...999.9mV/ 9999mV/99.9V/600V• DC voltage measuring accuracy: ±(1% + 20 digits)• AC voltage measuring range: 0.1...999.9mV/9999mV/99.99V/600V• AC voltage measuring accuracy: ±(1% + 20 digits)• True RMS AC+DC• Bandwidth for AC voltage measurements 40...400Hz• Resistance measuring range: 9.999kΩ/99.99kΩ/999.9kΩ/9.999MΩ/99.99MΩ• Capacitance measuring range: 1nF...10µF/100µF/1000µF/7000µF• Capacitance measuring accuracy: ±(1,5% + 5 digits) | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 14 | **Energy analyzer** | M&V | • AC+DC TRMS voltage up to 1,000 V• TRMS current AC+DC: 5 mA up to 10 kA depending on the sensors• Harmonics from 0 to the 50th order, phase• Transients: up to 210• Inrush with waveforms for a period > 10 min• TrueInrush function• Recording a selection of parameters at the maximum sampling rate in a period from a few days to a few weeks• Peak detection• Vector representation• IP53/IK08• IEC 61000-4-30 Class B | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 15 | **Digital multimeter** | M&V | Type: 6 in1Ambient temperature during operation: from -10°С to +60°СSound level: 35 - 100 dBMeasuring range: 33%...99%RH | Technological College from Chisinau |  |  |  |
| 16 | **Digital clamp meter for measuring voltage and resistance** | M&V | AC voltage: 600 VAC: 1000 AResistance: 20mOmDiode test: da | Technological College from Chisinau |  |  |  |
| 17 | **Ammeter** | M&V | Current (A): 0 - 50 A | Technological College from Chisinau |  |  |  |
| 18 | **Voltmeter** | M&V | Voltage (V): 0 - 20 VWorking voltage: 0 - 20 V | Technological College from Chisinau |  |  |  |
| 19 | **Oscilloscope** | M&V | Type of oscilloscope: digitalKind of oscilloscope: DSODisplay: colourNumber of channels: 2Sampling: 1GspsMax. input voltage: 300VInput coupling: AC, DC, GNDIn. imp.: 1MΩ/20pFTime base: 2n...1ks/divInterface: USB | Technological College from Chisinau |  |  |  |
| 20 | **Laboratory power supply**  | M&V | Digital display: voltage, currentCoarse and fine adjustment (voltage and current (current limit))Stepless voltage adjustmentShort-circuit protectionTwo ranges of current display: mA / AOutput voltage: 0-30 VOutput current: 0-5 ACurrent limitation: 0-5 AAccuracy: 0.1 VVoltage stability: <0.01% +/-2 mVTemperature coefficient: <200PPM/°CThe power supply features high stability, reliability and low noise | Technological College from Chisinau |  |  |  |
| 21 | **Electronic scale** | M&V | Capacity: 130 kgResolution: 10gAccuracy: +/–0.1% | Technological College from Chisinau |  |  |  |
| 22 | **Digital thermometer** | M&V | Measured Variable: TemperatureTemperature measuring range: -40 - +150 °CAccuracy: +/- 1 °CTemperature Resolution: +/- 0.1 °CTemperature Units: °C Scope of Supply: BatteriesRoHS Conformity: Yes | Technological College from Chisinau |  |  |  |
| 23 | **Digital multimeter** | M&V | DC Voltage: 0.1 mV–1000 VAC TRMSVoltage: 0.1 mV–750 VDC Current: 0.1 μA–10 AAC TRMS Current: 0.1 μA–10 AResistance: 0.1 1–40 M1Frequency: 1 Hz–400 MHzCapacitance: 0.001 nF–40 mFTemperature: –40 °F to 1382 °F –40 °C to 800 °C | Technological College from Chisinau |  |  |  |
| 24 | **Luxmeter** | M&V | Illuminance measurement (LUX): 0~199,900LuxIlluminance measurement (FC): 0~18,500FcAccuracy: 0~9999Lux/0~999Fc: ±(4%+8)≥10000Lux/≥1000Fc: ±(5%+10)≥100000Lux/≥9999Fc: ±(5%+10)Resolution: 1Lux (0~9999Lux)10Lux (≥10,000Lux)100Lux (≥100,000Lux)1Fc (0~9999Fc); FC=Lux/10.7610Fc (≥10,000Fc); FC=Lux/10.76Sampling time: 0.5s | Polytechnic College Balti |  |  |  |
| 25 | **Voltmeter and digital ammeter** | M&V | Voltage (V): 220 - 240 VCurrent (A): 5 A | IP Agricultural Technical College from Soroca |  |  |  |
| 26 | **Digital voltmeter** | M&V | Voltage (V): 220 VAccuracy: 1%Working voltage: 0 - 600 VConsumption: <3VA | IP Agricultural Technical College from Soroca |  |  |  |
| 27 | **Digital ammeter** | M&V | Current (A): 5A | IP Agricultural Technical College from Soroca |  |  |  |
| 28 | **Digital cable detector** | M&V | Steel detection depth: 100 mmCopper detection depth: 80 mmDetection depth of live conductors: 50 mmDetectable materials: ferrous, non-ferrous metals, electrical conductors | IP Agricultural Technical College from Soroca |  |  |  |
| 29 | **Digital clamp** | M&V | Voltage (V): 0-600 VType - AC/DC | IP Agricultural Technical College from Soroca |  |  |  |
| 30 | **Digital multimeter** | M&V | Voltage (V): 0.1m...200m/2V/20V/200V/1000VWeight: 375 gCurrent (A): 0.1µ...200µ/20µ/20m/200m/2A/20AType: AC/DCFrequency: 40 - 200 Hz | IP Agricultural Technical College from Soroca |  |  |  |
| 31 | **Electric cable detector in the walls** | M&V | Frequency: 0-60 HzAmbient temperature during operation: from 0°С to +40°С | IP Agricultural Technical College from Soroca |  |  |  |
| 32 | **Compact mini anemometer** | M&V | Ambient temperature during operation: from 0°С to +50°СMeasuring range: 1.1-30 m/s | IP Agricultural Technical College from Soroca |  |  |  |
| 33 | **Luxmeter** | M&V | Illuminance measurement (LUX): 0~199,900LuxIlluminance measurement (FC): 0~18,500FcAccuracy: 0~9999Lux/0~999Fc: ±(4%+8)≥10000Lux/≥1000Fc: ±(5%+10)≥100000Lux/≥9999Fc: ±(5%+10)Resolution: 1Lux (0~9999Lux)10Lux (≥10,000Lux)100Lux (≥100,000Lux)1Fc (0~9999Fc); FC=Lux/10.7610Fc (≥10,000Fc); FC=Lux/10.76Sampling time: 0.5s | IP Agricultural Technical College from Soroca |  |  |  |

**LOT 3. Laboratory stands for training**

| **Item No** | **Name of equipment**  | **Category of Equipment** | **Minimum Technical Requirements** | **Beneficiary institution** | **√****YES** | **√****NO** | **Technical Compliance****Please provide details /description of offered feature)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **Calorimeters**  | laboratory installation | • Measuring range max.40000 J• Touchscreen: yes• Working temperature: 22 - 30 °C• Temperature measurement resolution: 0.0001 K• Cooling medium temperature: 12 - 27 °C• Cooling medium permissible operating pressure 1.5 bar• Cooling medium tap water• Type of cooling flow• Chiller RC 2 basic• Flow rate: 60 - 70 l/h• Rec. flow rate at 18°C: 60 l/h• Oxygen operating pressure max. : 40 bar• Interface scale: RS232• Interface printer USB• Interface PC: RS232 | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 2 | **Drying oven** | laboratory installation | • Heat output: 2400 W• Working temperature: room temp. +5 – 250 °C• Adjustment and display resolution: 0.1 K• Temperature constancy in medium: 0.3 ±K• Temperature display: yes• Timer display: 7 segment LED• Time setting range: 1 – 144000 min• Number of trays max.: 6• Load for one tray max.: 30 kg• Operating area inner chamber: 550 x 525 x 450 mm• Total volume inner chamber: 125 l• Permissible ambient temperature: 5 – 40 °C• Permissible relative humidity: 80% | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 3 | **Laboratory stand ,,Heat pump"** | laboratory installation | • heating capacity: approx. 2,3 kW at 5/65°C• Heating and source circuit pumps• max. flow rate: 3m3/h• max. head: 4mHeating controller• inputs: up to 16• outputs: up to 16• interfaces: DL bus, CAN, LANRefrigerant• R410AMeasuring ranges• temperature:• 4x -50…180°C• 3x 0…120°C• 1x -20…60°C• flow rate: 2x 20…2500L/h (water)• pressure:• 1x -1…15bar• 1x -1…49bar• 2x 0…6bar• 2x 0…50bar• 1x 0…18bar• 2x 0…10bar400V, 50Hz, 3 phases; 400V, 60Hz, 3 phases230V, 60Hz, 3 phases; UL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 4 | **Laboratory stand ,,Underfloor heating / geothermal energy absorber"** | laboratory installation | Pipeslengths: 10m, 20m, 30mmaterial: polyethylenewall thickness: 2mmouter diameter: 16mmoperating pressure: max. 3barTankvolume: 200LMeasuring rangestemperature: 3x -50…180°Cflow rate: 20…2500L/h230V, 50Hz, 1 phaseUL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 5 | **Laboratory stand ,,Fan heater / air heat exchanger"** | laboratory installation | Fanspeed: 900/1400min-1flow rate: 683/1155m3h-1Heat exchangernominal cooling capacity: 2kWmax. operating pressure: 10barMeasuring rangestemperature:3x -50°C…180°Cflow rate: 20…2500L/h230V, 50Hz, 1 phase | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 6 | **Laboratory stand ,,Steam generator, electrical"** | laboratory installation | Steam boiler• volume: 24L• max. pressure: 7bar• heating power: 6kW• max. steam output: 8,1kg/hFeed water tank: 45LSuperheater• power: 750W• max. temperature: 250°CCondensate pump• max. flow rate: 0,6L/minSubmersible pump• max. flow rate: 10L/minStorage tank: 15LMeasuring ranges• temperature: 6x 0…400°C• pressure: 0…1,6bar abs. (condenser),0…16 bar abs. (live steam)• flow rate: 0…720L/h (cooling water)Steam supply unit230V, 60Hz, 3 phases, 400V, 60Hz, 3 phases400V, 50Hz, 3 phasesSteam processing230V, 60Hz, 1 phase, 230V, 50Hz, 1 phase120V, 60Hz, 1 phase, UL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 7 | **Laboratory stand ,,Comparison of various heat exchangers"** | laboratory installation | Plate heat exchanger, (water-water)• number of plates: 10• heat transfer area: approx. 0,26m2• output: 15kWTubular heat exchanger (water-water)• heat transfer area: 0,1m2Shell & tube heat exchanger (water-water)• output: 13kWFinned tube heat exchanger (water-air)• heat transfer area: approx. 2,8m2• fan max. flow rate: 780m3/h• fan max. pressure difference: 430PaStirred tank with double jacket and coiled tube (water-water)• double jacket heat transfer area: 0,16m2• coiled tube heat transfer area: 0,17m2Measuring ranges• differential pressure:• 1x 0…10mbar (air)• 1x 0…1000mbar (water)• flow rate: 2x 0…3m3/h• temperature: 10x 0…100°C230V, 50Hz, 1 phaseUL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 8 | **Laboratory stand ,,Gas turbine with power turbine"** | laboratory installation | Gas generator (compressor and high-pressure turbine)• speed range: 60000…125000min-1• max. pressure ratio: 1:2,0• max. mass flow rate (air): 0,115kg/sec• max. fuel consumption: 120g/minPower turbine• speed range: 10000…40000min-1• mechanical power: 0…1,5kW• electrical power: 0…1kW• sound level at 1m distance: max. 80dB(A)• temperature exhaust gas: 700°CMeasuring ranges• temperature: 4x 0…200°C / 3x 0…1200°C• speed: 0…199999min-1• electric power: 0…1999W• velocity: 0…28m/s (air inlet)• flow rate: 1,5…10,5kg/h (fuel)• supply pressure: 0…25bar (fuel)• nozzle pressure: 0…4bar (fuel)• combustion chamber pressure loss: 0…20mbar• pressure (inlet):power turbine 0…2,5bar (power turbine)• pressure (inlet): 0…250mbar (power turbine)230V, 50Hz, 1 phaseUL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 9 | **Laboratory stand ,,Axial steam turbine"** | laboratory installation | Single-stage axial impulse turbine• rotor inner diameter: 54mm• max. speed: 40000min-1• max. inlet pressure: 9bar abs.• max. outlet pressure: 1bar abs.• nominal power output: 50WMeasuring ranges• pressure:• 0…16bar (steam)• 0…1,6bar (condenser)• differential pressure: 0…50mbar• flow rate: 0…720L/h (cooling water)• speed: 0…50000min-1• torque: 0…70Nmm• temperature: 0…400°C230V, 50Hz, 1 phaseUL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 10 | **Laboratory stand ,,Parabolic trough collector with solar tracking"** | laboratory installation | PLC: Eaton XV-303Collector• parabolic mirror• trough length: 1,4m• aperture width: 1,1m• mirror surface: 1,5m2• focal length: 0,3m• absorber• selectively coated absorber tubes with U-tube line for heat transfer fluid• double-walled glass shell to reduce heat loss• solar circuit station• solar pump: adjustableHot water circuit• plate heat exchanger: 3kW, 10 plates• buffer tank: 70LMeasuring ranges• flow rate: 20…320L/h• temperature: 4x 0…160°C• pressure: 0…6bar230V, 50Hz, 1 phase, UL/CSA optional | The Continuous Training Center in the field of energy efficiency of public buildings |  |  |  |
| 11 | **Laboratory stand "Electrical networks and installations"** | laboratory installation | Power supply: 1~220 V, 50 HzPower consumption, kW, max - 0,3Overall dimensions, max: width, mm 1310 height, mm 1470 depth, mm 610Weight, kg, max 70 | IP Agricultural Technical College from Soroca |  |  |  |
| 12 | **Laboratory stand "Installation and adjustment of electrical installations"** | laboratory installation | Power supply 3~380/220V, 50HzPower consumption, Watt, max 500Stand overall dimensions, max: Width, mm 1310 Height, mm 1470 Depth, mm 600Weight, kg, max 60Desktop version overall dimensions, max: Width, mm 1310 Height, mm 680 Depth, mm 600Weight, kg, max 45 | IP Agricultural Technical College from Soroca |  |  |  |
| 13 | **Laboratory stand "DC motor excited in series with MPSU"** | laboratory installation | Power supply ~50Hz 220V / 3~50Hz 220V 3P+PE+N (at power supply from step-down transformer 380/220 V)Power consumption, kW, max 0,3/1Overall dimensions, max: width, mm 1025 height, mm 1455 depth, mm 600Weight, kg, max 120 | IP Agricultural Technical College from Soroca |  |  |  |

**SECTION 3: Management Structure and Key Personnel**

* 1. Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of the project describing the relationship of key positions and designations. Provide a spreadsheet to show the activities of each personnel and the time allocated for his/her involvement.
	2. Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

**Format for CV of Proposed Key Personnel**

|  |  |
| --- | --- |
| **Name of Personnel** | [Insert] |
| **Position for this assignment** | [Insert] |
| **Nationality** | [Insert] |
| **Language proficiency**  | [Insert] |
| **Education/ Qualifications** | *[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]* |
| [Insert] |
| **Professional certifications** | *[Provide details of professional certifications relevant to the scope of goods and/or services]* |
| * Name of institution: [Insert]
* Date of certification: [Insert]
 |
| **Employment Record/ Experience** | *[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]* |
| [Insert] |
| **References** | *[Provide names, addresses, phone and email contact information for two (2) references]* |
| Reference 1: [Insert]Reference 2:[Insert] |

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Personnel Date (Day/Month/Year)

## FORM H: PRICE SCHEDULE

|  |  |  |  |
| --- | --- | --- | --- |
| Name of bidder: | Click or tap here to enter text. | Date: | Click or tap to enter a date. |
| ITB reference: | Click or tap here to enter text. |

Bidders shall fill in these Price Schedule Forms in accordance with the instructions indicated. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided. Separate figures must be provided for each functional grouping or category, if any.

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

**Currency of the Bid:** US Dollars

**Price Schedule Lot 1**

| **Item #** | **Description** | **UOM** | **Quantity** | **Unit Price, USD**  | **Total Price, USD**  |
| --- | --- | --- | --- | --- | --- |
|  | Drill drivers with battery | piece | 1 |  |  |
|  | Transformer electronic | piece | 6 |  |  |
|  | Transformer for LED strip | piece | 1 |  |  |
|  | RGB LED amplifier | piece | 6 |  |  |
|  | RGB controller with remote | piece | 6 |  |  |
|  | Freon charging station  | piece | 1 |  |  |
|  | Manifold (2-way manifold with Bourdon Type) | piece | 2 |  |  |
|  | Pipe rolling device | piece | 2 |  |  |
|  | Refrigeration socket set inch sizes | piece | 2 |  |  |
|  | Refrigeration socket set  | piece | 2 |  |  |
|  | Torque wrench set in a handy case | piece | 1 |  |  |
|  | Screwdriver set | piece | 2 |  |  |
|  | LED projector with solar battery | piece | 30 |  |  |
|  | LED street lighting body with solar panel | piece | 20 |  |  |
|  | Sensor day/night | piece | 20 |  |  |
|  | Motion sensor | piece | 30 |  |  |
|  | Digital timer socket | piece | 20 |  |  |
|  | LED projector | piece | 30 |  |  |
|  | Analog programmable switch | piece | 30 |  |  |
|  | Electronic socket timer | piece | 20 |  |  |
|  | Mechanical time relay (programmable 24h analogue socket) | piece | 20 |  |  |
|  | Wi-fi smart socket | piece | 20 |  |  |
|  | Smart switch | piece | 30 |  |  |
|  | Unitary socket outdoor | piece | 50 |  |  |
|  | External unitary switch | piece | 20 |  |  |
|  | External double switch | piece | 20 |  |  |
|  | UZO automatic switch | piece | 10 |  |  |
|  | Automatic switch | piece | 50 |  |  |
|  | Low voltage arrester | piece | 10 |  |  |
|  | Photorele | piece | 20 |  |  |
|  | Contactor  | piece | 10 |  |  |
|  | Electric motor | piece | 3 |  |  |
|  | Contactor | piece | 20 |  |  |
|  | Distribution box | piece | 40 |  |  |
|  | Outdoor automotive box | piece | 10 |  |  |
|  | Electrician tools set | piece | 10 |  |  |
|  | Assembly table | piece | 10 |  |  |
|  | LED street lighting body with solar panel  | piece | 4 |  |  |
|  | LED street lighting body with solar panel  | piece | 4 |  |  |
|  | Support for street lighting body | piece | 8 |  |  |
|  | Single-phase electric meter | piece | 4 |  |  |
|  | Three-phase electric meter | piece | 2 |  |  |
|  | Electric cable | piece | 100 m |  |  |
|  | Electric cable | piece | 100 m |  |  |
|  | Electric cable | piece | 100 m |  |  |
|  | Voltage stabilizer | piece | 1 |  |  |
|  | Voltage stabilizer | piece | 1 |  |  |
|  | Single-phase inverter | piece | 1 |  |  |
|  | Inverter 220 V | piece | 1 |  |  |
|  | Three-phase electric motor | piece | 2 |  |  |
|  | Three-phase electric motor | piece | 1 |  |  |
|  | Three-phase electric motor | piece | 1 |  |  |
|  | Electrician tools set | piece | 2 |  |  |
|  | Tool set | piece | 1 |  |  |
|  | Photovoltaic plant for laboratory  | piece | 1 |  |  |
|  | Assembly table | piece | 5 |  |  |
|  | LED projector with the solar battery | piece | 2 |  |  |
|  | Sensor day/night | piece | 8 |  |  |
|  | Motion sensor | piece | 5 |  |  |
|  | Digital timer socket | piece | 10 |  |  |
|  | Analog programmable switch | piece | 5 |  |  |
|  | Electronic socket timer | piece | 5 |  |  |
|  | Mechanical time relay (programmable 24h analogue socket) | piece | 5 |  |  |
|  | Wi-fi smart socket | piece | 5 |  |  |
|  | Unitary socket outdoor | piece | 5 |  |  |
|  | External unitary switch | piece | 20 |  |  |
|  | External double switch | piece | 20 |  |  |
|  | UZO automatic switch | piece | 5 |  |  |
|  | Automatic switch | piece | 10 |  |  |
|  | Photorele | piece | 5 |  |  |
|  | Distribution box | piece | 10 |  |  |
|  | Generator gasoline 3 kW 220 V | piece | 1 |  |  |
| Incoterms charges, including transportation/delivery costs |  |
| Installation, testing and commissioning |  |
| Training |  |
| After sales services and technical support |  |
| **GRAND TOTAL LOT 1** |  |

**Price Schedule LOT 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item #** | **Description** | **UOM** | **Quantity** | **Unit Price, USD**  | **Total Price, USD**  |
|  | Combustion Analyzer for Commercial and Industrial Applications | piece | 1 |  |  |
|  | Infrared thermometer with laser marking | piece | 1 |  |  |
|  | Pressure and flow velocity measuring instrument | piece | 1 |  |  |
|  | Light meter | piece | 1 |  |  |
|  | Digital temperature meter | piece | 1 |  |  |
|  | Thermal camera | piece | 1 |  |  |
|  | The portable Flowmeter for Gases in hazardous areas | piece | 1 |  |  |
|  | Termal camera | piece | 1 |  |  |
|  | Ultrasonic Leak Detector of Gas, Compressed Air, Bearing monitoring, Machinery Lubrication | piece | 1 |  |  |
|  | Analysis box for exhaust gas analysis systems | piece | 1 |  |  |
|  | Multilyzer NG | piece | 1 |  |  |
|  | Laser telemeter | piece | 1 |  |  |
|  | Electrical clamps wattmeter | piece | 1 |  |  |
|  | Energy analyzer | piece | 1 |  |  |
|  | Digital multimeter | piece | 4 |  |  |
|  | Digital clamp meter for measuring voltage and resistance | piece | 4 |  |  |
|  | Ammeter | piece | 6 |  |  |
|  | Voltmeter | piece | 6 |  |  |
|  | Oscilloscope | piece | 1 |  |  |
|  | Laboratory power supply  | piece | 4 |  |  |
|  | Electronic scale | piece | 1 |  |  |
|  | Digital thermometer | piece | 2 |  |  |
|  | Digital multimeter | piece | 2 |  |  |
|  | Luxmeter | piece | 10 |  |  |
|  | Voltmeter and digital ammeter | piece | 4 |  |  |
|  | Digital voltmeter | piece | 3 |  |  |
|  | Digital ammeter | piece | 3 |  |  |
|  | Digital cable detector | piece | 2 |  |  |
|  | Digital clamp | piece | 3 |  |  |
|  | Digital multimeter | piece | 1 |  |  |
|  | Electric cable detector in the walls | piece | 1 |  |  |
|  | Compact mini anemometer | piece | 1 |  |  |
|  | Luxmeter | piece | 3 |  |  |
| Incoterms charges, including transportation/delivery costs |  |
| Installation, testing and commissioning |  |
| Training |  |
| After sales services and technical support |  |
| **GRAND TOTAL LOT 2** |  |

**Price Schedule LOT 3**

| **Item #** | **Description** | **UOM** | **Quantity** | **Unit Price, USD**  | **Total Price, USD**  |
| --- | --- | --- | --- | --- | --- |
|  | Calorimeters  | piece | 1 |  |  |
|  | Drying oven | piece | 1 |  |  |
|  | Laboratory stand “Heat pump" | piece | 1 |  |  |
|  | Laboratory stand “Underfloor heating / geothermal energy absorber" | piece | 1 |  |  |
|  | Laboratory stand “Fan heater / air heat exchanger" | piece | 1 |  |  |
|  | Laboratory stand “Steam generator, electrical" | piece | 1 |  |  |
|  | Laboratory stand “Comparison of various heat exchangers" | piece | 1 |  |  |
|  | Laboratory stand “Gas turbine with power turbine" | piece | 1 |  |  |
|  | Laboratory stand “Axial steam turbine" | piece | 1 |  |  |
|  | Laboratory stand “Parabolic trough collector with solar tracking" | piece | 1 |  |  |
|  | Laboratory stand "Electrical networks and installations" | piece | 1 |  |  |
|  | Laboratory stand "Installation and adjustment of electrical installations" | piece | 2 |  |  |
|  | Laboratory stand "DC motor excited in series with MPSU" | piece | 1 |  |  |
| Incoterms charges, including transportation/delivery costs |  |
| Installation, testing and commissioning |  |
| Training |  |
| After sales services and technical support |  |
| **GRAND TOTAL LOT 3** |  |

*\*In case the related services and other costs are included in the value of delivered goods and cannot be reflected as a separate line of expenses, please specify 0 (zero) value in the relevant line in the table above.*

I, the undersigned, certify that I am duly authorized by Click or tap here to enter text. to sign this bid and bind Click or tap here to enter text.should Click or tap here to enter text.accept this bid:

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

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

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

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

## FORM I: BID SECURITY

Bid Security must be issued using the official letterhead of the Issuing Bank.

Except for indicated fields, no changes may be made on this template.

Beneficiary: Insert contact information for procuring organisation as provided in Section 3: Data Sheet.

ITB Reference: Click or tap here to enter text.

WHEREAS Click or tap here to enter text. (hereinafter called “the bidder”) has submitted a bid to Click or tap here to enter text. dated Click or tap to enter a date. to execute goods and/or services Click or tap here to enter text. (hereinafter called “the bid”):

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

1. Fails to sign the Contract after Click or tap here to enter text. has awarded it;
2. Withdraws its bid after the date of the opening of the bids;
3. Fails to comply with Click or tap here to enter text.’s variation of requirement, as per ITB instructions; or
4. Fails to furnish Performance Security, insurances, or other documents that Click or tap here to enter text. may require as a condition to rendering the contract effective.

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

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

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

**SIGNATURE AND SEAL OF THE GUARANTOR BANK**

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

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

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

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

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

Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*[Stamp with official stamp of the Bank]*