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## **INVITATION TO BID**

### **Supply and insulation of Industrial Machines, Equipment, Tools, and Raw Material to Support the Vocational Training Center in Aleppo “VTC”**

ITB No.: UNDP-SYR-ITB-116-19

Project: DI-/1/2019

Country: Syria Arab Republic

Issued on: 2 October 2019

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## Section 1. Letter of Invitation

The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Schedule of Requirements and Technical Specifications
- Section 6: Returnable Bidding Forms
  - o Form A: Bid Submission Form
  - o Form B: Bidder Information Form
  - o Form C: Joint Venture/Consortium/Association Information Form
  - o Form D: Qualification Form
  - o Form E: Format of Technical Bid
  - o Form F: Price Schedule
  - o FORM G: Form of Bid Security

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Please acknowledge receipt of this ITB by sending an email to [syria.procurement@undp.org](mailto:syria.procurement@undp.org), indicating whether you intend to submit a Bid or otherwise. You may also utilize the "Accept Invitation" function in eTendering system:

<https://etendering.partneragencies.org>

where applicable. This will enable you to receive amendments or updates to the ITB. Should you require further clarifications, kindly communicate with the contact person/s identified in the attached Data Sheet as the focal point for queries on this ITB.

UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement opportunities.

Issued by



Name: Walid Okla  
Title: Procurement Associate  
Date: **October 2, 2019**

Approved by:



Name: Hanan Al Ali  
Title: Head of Procurement Unit  
Date: **October 2, 2019**

## Section 2. Instruction to Bidders

GENERAL PROVISIONS	
1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at <a href="https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d">https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</a></p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (<a href="http://www.ungm.org">www.ungm.org</a>). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at <a href="http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti">http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</a></p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at <a href="http://www.un.org/depts/ptd/pdf/conduct_english.pdf">http://www.un.org/depts/ptd/pdf/conduct_english.pdf</a></p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP</p>

	<p>whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>
4. Conflict of Interests	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. 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:</p> <ul style="list-style-type: none"> <li>a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process;</li> <li>b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or</li> <li>c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP.</li> </ul> <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> <li>a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and</li> <li>b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.</li> </ul> <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>4.4 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, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
<b>B. PREPARATION OF BIDS</b>	
5. General Considerations	<p>5.1 In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.</p> <p>5.2 The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify</p>

	the UNDP accordingly.
<b>6. Cost of Preparation of Bid</b>	6.1 The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.
<b>7. Language</b>	7.1 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 BDS.
<b>8. Documents Comprising the Bid</b>	8.1 The Bid shall comprise of the following documents and related forms which details are provided in the BDS: <ul style="list-style-type: none"> <li>a) Documents Establishing the Eligibility and Qualifications of the Bidder;</li> <li>b) Technical Bid;</li> <li>c) Price Schedule;</li> <li>d) Bid Security, if required by BDS;</li> <li>e) Any attachments and/or appendices to the Bid.</li> </ul>
<b>9. Documents Establishing the Eligibility and Qualifications of the Bidder</b>	9.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
<b>10. Technical Bid Format and Content</b>	10.1 The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB. 10.2 Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified. 10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS. 10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.
<b>11. Price Schedule</b>	11.1 The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB. 11.2 Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.
<b>12. Bid Security</b>	12.1 A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid.

	<p>12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.</p> <p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> <li>a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or;</li> <li>b) In the event the successful Bidder fails: <ul style="list-style-type: none"> <li>i. to sign the Contract after UNDP has issued an award; or</li> <li>ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.</li> </ul> </li> </ul>
<b>13. Currencies</b>	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <ul style="list-style-type: none"> <li>a) 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 Bids; and</li> <li>b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.</li> </ul>
<b>14. Joint Venture, Consortium or Association</b>	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for 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 JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted 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 the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or</p>



	<p>Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <ul style="list-style-type: none"> <li>a) Those that were undertaken together by the JV, Consortium or Association; and</li> <li>b) Those that were undertaken by the individual entities of the JV, Consortium or Association.</li> </ul> <p>14.6 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 JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
<b>15. Only One Bid</b>	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> <li>a) they have at least one controlling partner, director or shareholder in common; or</li> <li>b) any one of them receive or have received any direct or indirect subsidy from the other/s; or</li> <li>c) they have the same legal representative for purposes of this ITB; or</li> <li>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;</li> <li>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 some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.</li> </ul>
<b>16. Bid Validity Period</b>	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
<b>17. Extension of Bid Validity Period</b>	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any</p>

	<p>change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>
<b>18. Clarification of Bid (from the Bidders)</b>	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide 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 Bids, unless UNDP deems that such an extension is justified and necessary.</p>
<b>19. Amendment of Bids</b>	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
<b>20. Alternative Bids</b>	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. 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.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
<b>21. Pre-Bid Conference</b>	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. 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 disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>

## C. SUBMISSION AND OPENING OF BIDS

22. Submission	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
Hard copy (manual) submission	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ol style="list-style-type: none"> <li>Bear the name of the Bidder;</li> <li>Be addressed to UNDP as specified in the BDS; and</li> <li>Bear a warning not to open before the time and date for Bid opening as specified in the BDS.</li> </ol> <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
Email and eTendering submissions	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> <li>Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS;</li> <li>Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS.</li> </ol> <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link:  <a href="http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/">http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/</a></p>
23. Deadline for Submission of Bids and Late Bids	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p>

	23.2 UNDP shall not consider any Bid that is received after the deadline for the submission of Bids.
<b>24. Withdrawal, Substitution, and Modification of Bids</b>	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, 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, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
<b>25. Bid Opening</b>	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 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 submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
<b>D. EVALUATION OF BIDS</b>	
<b>26. Confidentiality</b>	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
<b>27. Evaluation of Bids</b>	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ol style="list-style-type: none"> <li>Preliminary Examination including Eligibility</li> <li>Arithmetical check and ranking of bidders who passed preliminary</li> </ol>

	<p>examination by price.</p> <ul style="list-style-type: none"> <li>c) Qualification assessment (if pre-qualification was not done)</li> <li>a) Evaluation of Technical Bids</li> <li>b) Evaluation of prices</li> </ul> <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
<b>28. Preliminary Examination</b>	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
<b>29. Evaluation of Eligibility and Qualification</b>	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> <li>a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list;</li> <li>b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments,</li> <li>c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required;</li> <li>d) They are able to comply fully with the UNDP General Terms and Conditions of Contract;</li> <li>e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and</li> <li>f) They have a record of timely and satisfactory performance with their clients.</li> </ul>
<b>30. Evaluation of Technical Bid and prices</b>	<p>30.1 The evaluation team shall review and evaluate the Technical 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 BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
<b>31. Due diligence</b>	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> <li>a) Verification of accuracy, correctness and authenticity of information provided by the Bidder;</li> <li>b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team;</li> <li>c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder;</li> </ul>

	<ul style="list-style-type: none"> <li>d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous works, as deemed necessary;</li> <li>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</li> <li>f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.</li> </ul>
<b>32. Clarification of Bids</b>	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 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 Bids.</p>
<b>33. Responsiveness of Bid</b>	<p>33.1 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, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>33.2 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.</p>
<b>34. Nonconformities, Repairable Errors and Omissions</b>	<p>34.1 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.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <ul style="list-style-type: none"> <li>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;</li> <li>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</li> <li>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</li> </ul>

	<p>arithmetic error, in which case the amount in figures shall prevail.</p> <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.</p>
<b>E. AWARD OF CONTRACT</b>	
35. Right to Accept, Reject, Any or All Bids	35.1 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. UNDP shall not be obliged to award the contract to the lowest priced offer.
36. Award Criteria	36.1 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.
37. Debriefing	37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
38. Right to Vary Requirements at the Time of Award	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or 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.
39. Contract Signature	39.1 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 to do so may 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 Second highest rated or call for new Bids.
40. Contract Type and General Terms and Conditions	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
41. Performance Security	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at <a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default</a> within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
42. Bank Guarantee for Advanced Payment	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of

	<p>the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at</p> <p><a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default</a></p>
<b>43. Liquidated Damages</b>	<p>43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.</p>
<b>44. Payment Provisions</b>	<p>44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.</p>
<b>45. Vendor Protest</b>	<p>45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a 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:</p> <p><a href="http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html">http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</a></p>
<b>46. Other Provisions</b>	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15</p> <p><a href="http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referer">http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referer</a></p>



## Section 3. Bid Data Sheet

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

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English or Arabic
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Not Allowed
3	20	Alternative Bids If multiple/alternative bids are to be considered, they must be clearly marked as "Main Bid" and "Alternative Bid"	Shall not be considered
4	21	Pre-Bid conference	Will not be conducted
5	16	Bid Validity Period	90 days
6	13	Bid Security	Required in the amount of: <b>5,500 USD</b> Acceptable Forms of Bid Security - Bank Guarantee (See Section 8 for template) - A Certified Check  This guarantee shall be valid up to 30 days after the final date of validity of bids, that equals 120 days
7	41	Advanced Payment upon signing of contract	Not Allowed

8	42	Liquidated Damages	Will be imposed as follows: Percentage of contract price per day of delay: 0.5% Max. number of days of delay 20 days, after which UNDP may terminate the contract.
9	40	Performance Security	Required in the percentage of 10% of the contract value To cover the warranty period for 12 months
10	12	Currency of Bid	United States Dollars (US\$) or Syrian Pounds (SYP)  For local supplier's submitting their bids in USD, payments will be in Syrian Pounds at the prevailing UN exchange rate at the date of the invoice
11	31	Deadline for submitting requests for clarifications/ questions	5 days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Walid Okla Address: Damascus, Mezzeh, West Villas, Ghazawi St. 8 Fax: 01153116 11 45 41 E-mail address: <a href="mailto:valid.okla@undp.org">valid.okla@undp.org</a> CC: <a href="mailto:syria.procurement@undp.org">syria.procurement@undp.org</a>
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Direct communication to prospective Proposers by email and Posting on the website:  <ul style="list-style-type: none"> <li>- <a href="http://www.ungm.org">www.ungm.org</a></li> <li>- <a href="http://www.sy.undp.org/content/syria/en/home/operations/procurement/">http://www.sy.undp.org/content/syria/en/home/operations/procurement/</a></li> <li>- <a href="http://procurement-notice.undp.org/">http://procurement-notice.undp.org/</a></li> <li>- <a href="https://www.facebook.com/UNDP.Syria">www.facebook.com/UNDP.Syria</a></li> </ul>
14	23	Deadline for Submission	<b>Thursday, October 17, 2019 and at or before 2.00 pm at Damascus time</b>
14	22	Allowable Manner of Submitting Bids	<input checked="" type="checkbox"/> e-tendering
15	22	Bid Submission Address	e-tendering system: <a href="https://etendering.partneragencies.org">https://etendering.partneragencies.org</a>

16	22	Electronic submission (email or eTendering) requirements	<p>Format: PDF files only</p> <p>file names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard.</p> <p>All files must be free of viruses and not corrupted.</p> <p>Max. File Size per transmission: 5 M</p> <p>Documents which are required in original (e.g. Bid Security) should be sent to the below address with a PDF copy submitted as part of the electronic submission:</p> <p>UNDP Syria Country Office, Procurement Unit, Mazze West Villas,Damascus,Syria or UNDP RBAS Regional Center in Jordan, attention Ms. Hanan Abu Baker, Procurement Analyst, at the following address: Abu-Baker Seraj Al-Din ST. Building # 11 – Abdoun Al Shamali P O BOX 852303- AMMAN 11185 – JORDAN</p> <p><b>Note:</b> Original bid security should be received in one of the above addresses <b>WITHIN FIVE WORKING DAYS</b> from the deadline of the bid submission. Late submission of bid security beyond 5 working days will result in disqualification of the received bid.”</p>
17	25	Date, time and venue for the opening of bid	In e-Tendering submission system, bidders will receive an automatic notification once the Bid is opened.
18	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
19		Expected date for commencement of Contract	November 15, 2019
20		Maximum expected duration of contract	90 days
21	35	UNDP will award the contract to:	One Proposer Only
22	39	Type of Contract	Contract for Goods and/or Services to UNDP <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
23	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Contracts

			<a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
24		After-sales services required	<input checked="" type="checkbox"/> Warranty on Parts of the transformer and Labor for minimum period of 12 months. <input checked="" type="checkbox"/> Technical Support with maintenance/ repair if needed
25		Other Information Related to the ITB	N/A

## Section 4. Evaluation Criteria

### Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/No basis:

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity
- Bid Security submitted as per ITB requirements with compliant validity period

### Minimum Eligibility and Qualification Criteria

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

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

Subject	Criteria	Document Submission requirement
<b>ELIGIBILITY</b>		
<b>Legal Status</b>	Vendor is a legally registered entity.	Form B: Bidder Information Form
<b>Eligibility</b>	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
<b>Conflict of Interest</b>	No conflicts of interest in accordance with ITB clause 4.	Form A: Bid Submission Form
<b>Bankruptcy</b>	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form
<b>Certificates and Licenses</b>	<ul style="list-style-type: none"><li>▪ Valid Certificate of Incorporation/ Business Registration.</li><li>▪ A proofing document confirms the offered warranty for one year against any defects after the completion of delivery.</li><li>▪ The technical offer should include; the country of origin, brand, and the production date of all industrial equipment "Machines".</li><li>▪ Catalogs and/or clear pictures with detailed explanations (this is specifically for the industrial equipment "machines").</li></ul>	Form B: Bidder Information Form

QUALIFICATION		
<b>History of Non-Performing Contracts<sup>1</sup></b>	Non-performance of a contract did not occur as a result of contractor default for the last 3 years.	Form D: Qualification Form
<b>Litigation History</b>	No consistent history of court/arbitral award decisions against the Bidder for the last 3 years.	Form D: Qualification Form
<b>Previous Experience</b>	Minimum 3 years of relevant experience.	Form D: Qualification Form
	Minimum one contracts of similar value, nature and complexity. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Financial Standing</b>	Minimum annual turnover of: <b>US\$ 500,000.</b> in any single year of the last three years. Submit Latest Audited Financial Statement (Income Statement and Balance Sheet) including Auditor's Report for the past three years [2016-2017-2018]. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Technical Evaluation</b>	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
<b>Financial Evaluation</b>	Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F. Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable) Comparison with budget/internal estimates.	Form F: Price Schedule Form

<sup>1</sup> Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

## Section 5a: Schedule of Requirements and Technical Specifications/Bill of Quantities

المواصفات الفنية لتوريد وتركيب معدات وأدوات خاصة بالتجهيزات الصناعية و الادوات الخاصة بمركز التدريب المهني (مركز المعادن) في حلب

**The Technical Specifications for the Provision and insulation of industrial tools and equipment to support the Vocational Training Center “Metal Center” in Aleppo**

### A. الآلات و المعدات الصناعية (Industrial Equipment “Machines”)

<b>1- فارزة عامودية مبرمجة (CNC Vertical Machining Center): / Quantity: 1</b>		
<b>Specifications</b>		
<b>Table</b>	Working surface (mm)	1150*560
	Max. table load (Kg)	600
	T-slots (size x number x pitch)	18*5*100
	Table hardness	50-55HRC
<b>Travel</b>	Longitudinal travel (X-axis) (mm)	1050
	Cross travel) Y-axis) (mm)	530
	Vertical travel) Z-axis) (mm)	630
<b>Spindle</b>	Spindle taper shank	BT40
	Spindle speed (Pulley)	8000 r/min
	Spindle speed (DDS)	8000r/min
<b>Feed</b>	Rapid traverse rate (X/Y/Z) mm/min	24/24/18
	feed rate mm/min	1-10000
<b>Tool</b>	Max. tool size (dia. x length(	78/300
	Max. Tool Weight (kg)	8
	Max. Distance from spindle nose to worktable	120mm
	Min. Distance from spindle nose to worktable	750mm

	Distance from spindle center to column	600mm
<b>Motor</b>	X, Y, Z axes motor (AC servo) (Kw)	3
	Motor AC servo brand	Siemens or Mitsubishi or equivalent
	Main motor power (Kw)	11
	Main motor brand	Siemens or Mitsubishi or equivalent
	Coolant pump motor (Kw)	0.75
	Air-supply pressure )Kgs/cm <sup>2</sup>	6
	Bearing brand	NSK/FAG or equivalent
<b>Ball screw</b>	Type, brand	PMI/HIWIN or equivalent
	Grade	C3
	Pitch (mm)	4012
	X axis (mm)	1619
	Y axis (mm)	1119
	Z axis (mm)	1124
<b>Accuracy</b>	X positioning precision (mm)	0.01
	Y positioning precision (mm)	0.01
	Z positioning precision (mm)	0.01
<b>Dimension</b>	Display size (inch)	10.4
	Machine size (mm)	Max Height 2400 mm
	Machine weight (Kg)	6000
<b>Energy</b>	Total capacity of power supply (KVA)	20
	Electrical equipment	Schneider or equivalent



<b>Control System</b>	Mitsubishi M70 or equivalent
<b>Warranty</b>	One year
<b>Feature</b>	Full cover
	VMC type
	Spiral chip removal
<b>Accessories</b>	Tool Box & Hand tool
	Leveling Bolts & Pads

2- مخرطة مبرمجة (CNC Lathe Machine): / Quantity: 1		
<b>WORKING CAPACITY</b>	<b>Specifications</b>	
	Max. swing diameter over bed (mm)	400
	Max. cutting diameter (mm)	400
	Swing over cross slide (mm)	245
	Max. parts length (mm)	1000
	Max. turning length (mm)	850
<b>X, Z DRIVES</b>	Bed type / Guide way	360mm
	Max. travel of X-Axis (mm)	260
	Max. travel of Z-Axis (mm)	1020
	X / Z - Axis feed rate (mm/min)	6000/ 8000
	X / Z - Axis repeatability	≤0.02
	Rapid speed (X/Z-axis) m/min	6/ 8
<b>Headstock</b>	Bar Capacity (mm)	58
	Diameter of Spindle Bore (mm)	60
	Form of spindle nose	MT6
	Chuck type, diameter (mm)	C6 φ250
	Max. Spindle Speed (rpm)	200-2500
<b>Tailstock</b>	Taper bore of tailstock	MT4

	Tailstock quill diameter (mm)	60
	Tailstock quill travel (mm)	120
Turret	Number of tools in Turret	Vertical 4
	Cross section of tool shank (mm)	20*20
Motor	Main Motor power (Kw)	5.5
	Coolant Pump	0.125
	Motors Brand	Siemens or equivalent
Machine	Total capacity of power supply (KVA)	13
	Electrical equipment	Schneider or Siemens or equivalent
	Machine Dimension (mm)	2570*1400*1700
	Machine weight (Kg)	2000
	Control system	GSK or equivalent
	Display size	7inch 16:9LCD
	Machining accuracy	IT6-IT7
Warranty	One year	
Accessories	Center & center sleeve	
	Wrenches	
	sizing blocks	
	Three jaw chuck	
	Oil gun	
	Manual tail stock	
	Manual chuck 250mm	
	Tri-color warning light	
	Automatic lubrication system	
	coolant system	
	LED lighten system	

	full enclosed safety metal cover
	Electric Power: 380V/ 50Hz/ 3 phase AC.
	Steady rest
	Following rest

3- آلة القص بالسلك (CNC Wire cutting Machine): / Quantity: 1	
Specifications	
Table size (mm)	540*760
X-axis travel (mm)	400
Y-axis travel (mm)	500
Maximum linear cutting thickness (mm)	400
Maximum load weight (Kg)	1000
U axis travel (mm)	50
V axis travel (mm)	50
Max. taper cutting	+/- 6 degrees
Number of linkage control axis	X, Y, U , and V axis
X, Y, U,V - Motor	Panasonic servo motor or equivalent
Wire type	Molybdenum wire
Wire motor	Panasonic servo motor or equivalent
Wire diameter range (mm)	0.13-0.2mm (normally 0.18)
Maximum stroke of storage drum (mm)	250
Wire feeding speed (m/s)	11.5
The fast processing speed mm/min	250
Guide	THK linear guide or equivalent
Composite machining accuracy (mm)	+/- 0.005
Best surface roughness	0.8
Electrical equipment	Siemens or Schneider or equivalent
X-Y axis screw	Double nuts, NCM or equivalent ,
Bearing brand	NSK/FAG or equivalent
measurement system	digital scale ruler

Volume of the tank (L)	85
Tank size mm	950*500*600
Control system	Auto cut
Drum drive	Step motor
Drum motion (type)	5phase 10 pats,
Maximum machining current (A)	12
Display size (inch)	15
Machine dimensions (mm)	1750*1350*1850
Machine weight (kg)	2100
Warranty	One year
<b>Features</b>	Wire tension automatic control, No need to tighten the wire manually. Constant tension and stable accuracy.
	Double sensors closed-loop control wire tension
	Battery Backup for memory, special new controller, Parameter set up automatically, strengthen spark and current, better cutting performance
	Automatic wire changer
	Leveling pads with screw and adjustor
	Job mounting clamps
	Wire tension roller
	wire feed drum handle
	Cutting path display
	CNC Controller with color monitor
	CD drive
	Part programming application software
	Working tank unit

<b>4- آلة الحفر بالشرارة (Die-Sinking EDM Machine): / Quantity: 1</b>	
<b>Model</b>	ZNC
<b>Specifications</b>	
Capacity of working tank (mm)	1150*710*450

Work table size (mm)	700*410
Longitudinal travel (X-Axis) (mm)	450
Cross travel (Y-Axis) (mm)	350
Z axis travel (Z-Axis + w-axis) (mm)	200
Distance between platen to table (mm)	260-660
Max .electrode weight (Kg)	70
Max .work piece weight (Kg)	800
Fluid tank capacity (L)	1000
Max .machining current (A)	50
Max .power input (KVA)	7
Max .machining rate (mm <sup>3</sup> /min)	550
Min .electrode wear ratio(%)	0.2
Best surface roughness	RA=0.2 μm
Min. D .R. O. resolution (mm)	0.002
Motor (Type, Brand)	Servo motor ,Sanyo or equivalent
Electrical equipment	Siemens or Schneider or equivalent
Machine dimensions (mm)	1470*1250*2050
Machine weight (Kg)	2000
Display size (inch)	15
Warranty	One year
<b>Features</b>	A smallest inside corner radius
	The mechanical alignment tolerances of each axis
	capable of producing positional tolerances
	HT250 iron resin casting machine body and structure
	Ctek ZNC System or equivalent
	Hiwin linear guide rail or equivalent
	Small, simple and durable
<b>Accessories</b>	CNC controller with color monitor
	CD drive
	Part programming application software
	Working tank unit
	Fire extinguisher

	Working lamp
	Handle control box
	Dumping oil adjuster
	Socket head wrench
	Standard tool kit
	Adjustable fixture

5- منشار آلي (Band saw machine): / Quantity: 1	
Specifications	
Cutting Range (mm)	300*300*300
Blade size (mm)	27×0.9×3505
Blade speed	27,45,69
Table height (mm)	675
Electrical equipment	Siemens or Schneider or equivalent
Machine dimensions (mm)	1860*1000*1500
Machine Weight (Kg)	950
Max .power input (Kw)	2.2
Motor power (Kw)	0.55
Warranty	One year
<b>Features</b>	- Double column structure, high stability & rigidity
	- Hydraulic control of blade vertical feed speed, variable speeds
	- Hydraulic clamp of workpiece
	- manual tension of saw blade
	- Gantry type band sawing machine is mainly used for processing large workpieces with high deficiency and accuracy.
	- Saw blade is installed between vise, can clamp & cut ultra-thin workpiece
<b>Standard Accessories</b>	four saw blades are attached with the machine ordered

6- آلة القص بالبلازما (CNC Plasma Cutting Machine): / Quantity: 1

<b>Specifications</b>	
Capacity (mild steel, stainless) (mm)	16-38mm for Mild steel , 20-25mm for stainless steel
Maximum moving speed (mm/min)	24
Maximum cutting speed (mm/min)	0-12000
Control system type	DSP control or Start control or equivalent
Working area (mm)	1500*3000
Power plasma(type)	Hypertherm or equivalent
Power plasma (A)	125A
position accuracy (mm)	0.05
Reposition accuracy (mm)	0.001
Cutting angle	90degree
Process precision (mm)	0.05mm
X, Y -axis Rail and transmission	Square rails/ rack gear
Z- axis rail and transmission	Square rails/ rack gear
Working pressure (Mpa)	0.5-0.65
Plasma power working voltage	380v/220v±10%/50Hz
Command language	English
Interface	USB
Software compatibility	Starcam ,Fastcam or equivalent
Running environment	-15-50°C
Linear square rail guide	Linear rail
Servo motors (type)	Stepper motors Lead shine or equivalent
Limit switch (type)	Omron or equivalent
Electrical equipment	Siemens or Schneider or equivalent
Display size (inch)	14
Machine dimensions (mm)	3880*2300*2000
Machine weight (Kg)	1800
Total capacity of power (KW)	8.5
Warranty	One year
Features	Double column structure
	Flame torch and equipment

	HYD XP THC – 4 Auto Plasma TCH	
	Wireless MPG	
	Lubrication system	
	Filter unit	
	Air dryer	
	Cutting table	
	Torch protection against crashing	
	Heavy duty steel frame	
	Ball screw	
	Helical racks	
	Laser point	
Accessories	Equipment with power supply Hypertherm or equivalent	

<b>7- آلة حني هيدروليكية مبرمجة (Hydraulic CNC Press Brake): / Quantity: 1</b>	
<b>Specifications</b>	
Working force (KN)	400
Length of working table (mm)	2500
Throat depth (mm)	200
Distance between columns (mm)	2050
Slide stroke (mm)	110
Opening height (mm)	210
Approach Speed for block travel (mm/s)	80
Speed for block travel (mm/s) Working	10
Speed for block travel (mm/s) Return	80
Motor power (Kw)	4
Motor (Type)	Siemens or equivalent
Hydraulic system	OMG or equivalent
Max .power input (KVA)	4.7
Machine Weight (Kg)	3300



Machine dimensions (mm)	2600x1270x1980
Electrical equipment	Siemens or Schneider or equivalent
Control system	E21
Warranty	One year
<b>Features</b>	With frequency converter
	6CrW2Si blade
<b>Accessories</b>	Front supports
	Oil gun
	Fixed screws
	Manual guard

8- آلة قص هيدروليكية مبرمجة (Hydraulic CNC Shearing Machine): / Quantity: 1	
Specifications	
Max . cutting thickness (mm)	4
Max .cutting width (mm)	2500
Anti – strength of plate (N/mm <sup>2</sup> )	450
Shearing angle	1.3
Back gauge range (mm)	600
Stroke times	18
Throat depth (mm)	150
Blade length (mm)	2600
Motor power	4
Motor (Type)	Siemens or equivalent
Max .power input (KVA)	4.7
Machine Weight (Kg)	3200
Machine dimensions	3150*1650*1700
Electrical equipment	Siemens or Schneider or equivalent
Hydraulic system	OMG or equivalent
Warranty	One year
<b>Features</b>	E21 controller

	With frequency converter
<b>Accessories</b>	Front supports
	Oil gun
	Fixed screws
	Manual guard

<b>9- آلة لحام نقطي (Spot Welding Machine): / Quantity: 1</b>	
<b>Specifications</b>	
<b>Welding Capacity</b>	Sheet 3+3 mm, Rod 12+12mm
<b>System</b>	Digital
<b>Transformer</b>	25Kva
<b>Input Power Voltage</b>	380Volt (50-60Hz)
<b>Current</b>	Alternating Current
<b>Transmission</b>	Pedal
<b>Features</b>	The lower arm moves according the job type works 120 pulse per minute

<b>10- آلة لحام قوس كهربائي (Arc Welding Machine): / Quantity: 7</b>	
<b>Specifications</b>	
<b>Rated input voltage (V)</b>	380/220
<b>Rated frequency (Hz)</b>	50
<b>Pole number</b>	1
<b>No-load voltage (V)</b>	68
<b>Rated output current (A)</b>	250
<b>Current adjusting range (A)</b>	50– 250
<b>Wire diameter (mm)</b>	2.5 – 5
<b>Rated duty cycle(%)</b>	%35
<b>Rated input capacity (KVA)</b>	18.6
<b>Rank of insulation</b>	F
<b>Cooling way</b>	Forced wind – cooling
<b>Externality dimension (mm)</b>	645*405*635
<b>Weight (Kg)</b>	72

<b>Features</b>	Pure Copper Coil
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<b>11- آلة لحام ميج (MIG Welding Machine): / Quantity: 4</b>	
<b>Specifications</b>	
<b>Rated input voltage (V)</b>	Single phase 220
<b>Rated frequency (Hz)</b>	50
<b>No-load voltage (V)</b>	16.5 - 29
<b>Rated input current (A)</b>	45
<b>Rated output current (A)</b>	40– 300
<b>Rated duty cycle(%)</b>	%35
<b>Efficiency(%)</b>	85
<b>Power factor</b>	0.93
<b>Wire machine</b>	Compact
<b>Wire speed (m/min)</b>	2.5 - 13
<b>Usable electrode (mm)</b>	1.6 - 5
<b>Wire diameter (mm)</b>	0.8 - 1
<b>Protection degree</b>	IP21S
<b>Insulation class</b>	F
<b>Suitable thickness (mm)</b>	0.8above
<b>Weight (Kg)</b>	15.5Kg
<b>Dimension (mm)</b>	525*320*380
<b>Features</b>	Pure Copper Coil

<b>12- آلة لحام تيج (TIG Welding Machine): / Quantity: 3</b>	
<b>Specifications</b>	
<b>Rated input voltage (V)</b>	380
<b>Operating voltage (V)</b>	21.6
<b>Rated frequency (Hz)</b>	50
<b>Fore – blow period (S)</b>	0- 2
<b>No-load voltage (V)</b>	42

<b>Duty factor(%)</b>	20– 80
<b>Damping period (S)</b>	0- 5
<b>Tail gas period (S)</b>	2 – 10
<b>Arc striking method</b>	High frequency oscillation
<b>Rated output current (A)</b>	290
<b>Efficiency(%)</b>	85
<b>Continuous loading rate (%)</b>	35
<b>Power factor</b>	0.93
<b>Electrode diameter (mm)</b>	1.6 or 2.4
<b>Features</b>	Pure Copper Coil

<b>13- آلة لحام قوس كهربائي الكتروني محمول باليد (Arc Welding Machine): / Quantity: 3</b>	
<b>Specifications</b>	
<b>Rated input voltage (V)</b>	Single phase (220 V)
<b>Rated Output voltage (V)</b>	30
<b>Rated frequency (Hz)</b>	50
<b>No-load voltage (V)</b>	63
<b>Rated input current (A)</b>	40
<b>Current adjusting range (A)</b>	20 - 250
<b>Force adjustment arrange (A)</b>	0 - 100
<b>Electric fuse capacity (A)</b>	20
<b>Wire diameter (mm)</b>	2.5 – 5
<b>Rated duty cycle (%)</b>	60
<b>Rated input capacity (KVA)</b>	12
<b>Efficiency (%)</b>	85
<b>Power factor</b>	0.93
<b>No – load loss (w)</b>	60
<b>Input cable (sq.mm)</b>	3*2.5
<b>Output cable (sq.mm)</b>	35
<b>Grounding cable (sq.mm)</b>	10

<b>14- الابعاد طابعة ثلاثية -</b>	<b>3D printer / Quantity: 1</b>
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<b>Company</b>	Robox or equivalent
<b>Specifications</b>	
<b>Print Technology</b>	Fused Filament Fabrication
<b>Material</b>	PLA – ABS – PVA – FLEX-PC
<b>Wire Diameter Size</b>	1.75 mm
<b>Build Volume</b>	210mm*150mm*100mm
<b>Ambient Operating Temperature</b>	From 5° to 45°
<b>External Dimensions</b>	370*340*240
<b>Maximum Travel Speed</b>	200mm/sec
<b>Connectivity</b>	USB Serial & SD Card
<b>Included Tool Head</b>	Dual Extruder
<b>Extruder / Hot End</b>	Hexagon
<b>Nozzle Diameter</b>	0.4mm
<b>Nozzle Material</b>	Beryllium Copper
<b>Nozzle Temperature</b>	Up to 280° C
<b>Nozzle Heat Up Time</b>	From 27° C to 240° C in 1 minute
<b>Print Surface</b>	Heated Borosilicate Glass/PEI
<b>Maximum Print Bed Temperature</b>	Up to 150° C
<b>Print Bed Heat Up Time</b>	From 27° C to 130° C in 4 minutes
<b>Best Layer Resolution</b>	0.02mm
<b>Dimensional Accuracy</b>	0.1mm

<b>15- رافعة جسرية بجنزير (Chain Lifting Hoist): / Quantity: 1</b>	
<b>Specifications</b>	
<b>Load</b>	1.5 Ton
<b>Max Lifting Speed</b>	4 m/min
<b>Travelling Speed</b>	10 or 20 M/Min
<b>Chain Size</b>	10 mm
<b>Lifting Height</b>	> = 6 meter
<b>Lifting Motor</b>	> = 1.5 Kw
<b>Travelling Motor</b>	> = 0.5 Kw

<b>Features</b>	Dual speeds for plug and lift
	control pendants precisely interpret control commands in any situation.
	The Chain Hoist is hard.
	High-strength, with fan and separate magnet brake
	Operating limit switches (upper/lower)
	Inverse phase sequence protecting device: It is special electrical installation, which controls the circuit not to work in case of wiring error in the power supply.
	The gear made of alloy steel, through the heat treatment.

<b>16- جهاز قياس قساوة محمول (Portable Hardness Tester): / Quantity: 1</b>	
<b>Specifications</b>	
<b>Min. Reading</b>	1 HLD, 1 HV, 1 HB, 0.2 HRC, 0.1 HRB , 1 Hs , 1MPA
<b>Accuracy</b>	+/- 6 HLD (when HLD=800)
<b>Display</b>	Leeb (HLD, converted hardness, material, impact direction, test time, average value, date
<b>Output</b>	Bluetooth
<b>Applicable Workpiece</b>	Minimum weight: 5 kg, 2 kg (on solid support), 0.1Kg (coupled on plate)
	Minimum thickness: 5 mm
	Minimum radius of curved surface: 30 mm
	Maximum roughness (Ra): 1.6 µm
<b>Power supply</b>	3* AAA batteries
<b>Dimension</b>	150*84*28 mm
<b>Weight</b>	200gram
<b>Applicable Material</b>	Steel, Cast steel, Tool steel, Stainless steel ,Cast iron , Cast Aluminum alloy , Brass , Bronze , Copper

**B. مواصفات أدوات القطع (Cutting tools):**

<b>1- قسم الآلات المبرمجة CNC Section</b>			
<b>1-1- فارزة مبرمجة CNC Mill Machine</b>			
<b>Qty</b>	<b>المواصفات \ Specifications</b>	<b>المادة/Item</b>	<b>#/تسلسل</b>

5	قطر: 1 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 1mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	1
5	قطر: 1.5 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 1.5 mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	2
5	قطر: 2 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 2 mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	3
5	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 3 mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	4
5	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 4 mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	5
5	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	6

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 45 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	7
5	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 45 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 45 HRC	سكينة طرفية كربيد Carbide End Mill	8
5	قطر: 1 ملم، طول: 50 ملم قساوة: 55 روكويل Diameter: 1mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	9
5	قطر: 1.5 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 1.5 mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	10

	Diameter: 1.5 mm, Length: 50 mm Hardness: 55 HRC		
5	قطر: 2 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 2 mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	11
5	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 3 mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	12

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 4 mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	13
5	قطر: 4 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 4 mm, Length: 75 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	14
5	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	15
5	قطر: 6 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 75 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	16
5	قطر: 6 ملم، طول: 100 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 100 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	17
2	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	18

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
2	قطر: 8 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 75 mm	سكينة طرفية كربيد Carbide End Mill	19



	Hardness: 55 HRC		
2	قطر: 8 ملم، طول: 100 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 100 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	20
2	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	21
2	قطر: 10 ملم، طول: 100 ملم لمعدن بقساوة: 55 روكويل Diameter: 10 mm, Length: 100 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	22
2	قطر: 12 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 12 mm, Length: 75 mm Hardness: 55 HRC	سكينة طرفية كربيد Carbide End Mill	23
2	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 3 mm, Length: 50 mm Hardness: 65 HRC	سكينة طرفية كربيد Carbide End Mill	24

Qty	المواصفات \ Specifications	Item/المادة	#/تسلسل
2	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 4 mm, Length: 50 mm Hardness: 65 HRC	سكينة طرفية كربيد Carbide End Mill	25
2	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 65 HRC	سكينة طرفية كربيد Carbide End Mill	26
2	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 65 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 65 HRC	سكينة طرفية كربيد Carbide End Mill	27
2	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 65 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 65 HRC	سكينة طرفية كربيد Carbide End Mill	28
5	قطر: 1 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل	سكينة كروية كربيد Carbide Ball Nose	29

	Diameter: 1 mm, Length: 50 mm Hardness: 45 HRC		
5	قطر: 1.5 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 1.5 mm, Length: 50 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	30

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5	قطر: 2 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 2 mm, Length: 50 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	31
5	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 3 mm, Length: 50mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	32
5	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 4 mm , Length: 50 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	33
5	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 45 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	34
5	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 45 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	35
5	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 45 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 45 HRC	سكينة كروية كربيد Carbide Ball Nose	36

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5	قطر: 1 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 1 mm, Length: 50 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	37
5	قطر: 1.5 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 1.5 mm, Length: 50mm	سكينة كروية كربيد Carbide Ball Nose	38

	Hardness: 55 HRC		
5	قطر: 2 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 2 mm, Length: 50 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	39
5	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 3 mm, Length: 50 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	40
5	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 4 mm, Length: 50 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	41
5	قطر: 4 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 4 mm, Length: 75 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	42

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	43
5	قطر: 6 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 75 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	44
2	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	45
2	قطر: 8 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 75 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	46
2	قطر: 8 ملم، طول: 100 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 100 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	47
2	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 55 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	48

	Diameter: 10 mm, Length: 75 mm Hardness: 55 HRC		
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Qty	المواصفات \ Specifications	Item/المادة	#/تسلسل
2	قطر: 10 ملم، طول: 100 ملم لمعدن بقساوة: 55 روكويل Diameter: 10 mm, Length: 100 mm Hardness: 55 HRC	سكينة كروية كربيد Carbide Ball Nose	49
2	قطر: 3 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 3 mm, Length: 50 mm Hardness: 65 HRC	سكينة كروية كربيد Carbide Ball Nose	50
2	قطر: 4 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 4 mm, Length: 50 mm Hardness: 65 HRC	سكينة كروية كربيد Carbide Ball Nose	51
2	قطر: 6 ملم، طول: 50 ملم لمعدن بقساوة: 65 روكويل Diameter: 6 mm, Length: 50 mm Hardness: 65 HRC	سكينة كروية كربيد Carbide Ball Nose	52
2	قطر: 8 ملم، طول: 60 ملم لمعدن بقساوة: 65 روكويل Diameter: 8 mm, Length: 60 mm Hardness: 65 HRC	سكينة كروية كربيد Carbide Ball Nose	53
2	قطر: 10 ملم، طول: 75 ملم لمعدن بقساوة: 65 روكويل Diameter: 10 mm, Length: 75 mm Hardness: 65 HRC	سكينة كروية كربيد Carbide Ball Nose	54

Qty	المواصفات \ Specifications	Item/المادة	#/تسلسل
5	قطر: 4 ملم، طول: 50 ملم نصف قطر استدارة: 0.5 ملم لمعدن بقساوة: 55 روكويل Diameter: 4 mm, Length: 50 mm Tip Radius = 0.5 mm Hardness: 55 HRC	سكينة ذات استدارة كربيد Carbide Tip Radius	55
5	قطر: 6 ملم، طول: 50 ملم نصف قطر استدارة: 1 ملم لمعدن بقساوة: 55 روكويل Diameter: 6 mm, Length: 50 mm Tip Radius = 1 mm	سكينة ذات استدارة Carbide Tip Radius	56

	Hardness: 55 HRC		
3	قطر: 8 ملم، طول: 60 ملم نصف قطر استدارة: 1 ملم لمعدن بقساوة: 55 روكويل Diameter: 8 mm, Length: 60 mm Tip Radius = 1 mm Hardness: 55 HRC	سكينة ذات استدارة Carbide Tip Radius	57
3	قطر: 10 ملم، طول: 75 ملم نصف قطر استدارة: 1 ملم لمعدن بقساوة: 55 روكويل Diameter: 10 mm, Length: 75 mm Tip Radius = 1 mm Hardness: 55 HRC	سكينة ذات استدارة Carbide Tip Radius	58

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
3	قطر حامل: 16 ملم طول حامل: 100 ملم Diameter: 16mm Length: 100mm نوع اللقمة: Insert Type: APMT1135PDER	سكينة لقم Indexable Milling BAP300R-S16-100-C16-2T	59
3	قطر حامل: 16 ملم طول حامل: 150 ملم Diameter: 16mm Length: 150mm نوع اللقمة: Insert Type: APMT1135PDER	سكينة لقم Indexable Milling BAP300R-S16-150-C16-2T	60
3	قطر حامل: 20 ملم طول حامل: 100 ملم Diameter: 20 mm Length: 100mm نوع اللقمة: Insert Type: APMT1135PDER	سكينة لقم Indexable Milling BAP300R-S20-100-C20-2T	61
3	قطر حامل: 20 ملم طول حامل: 150 ملم Diameter: 20mm Length: 150mm نوع اللقمة: Insert Type: APMT1135PDER	سكينة لقم Indexable Milling BAP300R-S20-150-C20-2T	62
3	قطر حامل: 20 ملم طول حامل: 200 ملم Diameter: 20 mm	سكينة لقم	63

	Length: 200mm Insert Type: APMT1135PDER نوع اللقمة:	Indexable Milling BAP300R-S20-200-C20-2T	
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Qty	Specifications \ المواصفات	المادة/Item	#/تسلسل
2	قطر حامل: 25 ملم طول حامل: 150 ملم Diameter: 25mm, Length: 150mm نوع اللقمة: Insert Type: APMT1604	سكينة لقم Indexable Milling BAP300R-S25-150-C25-2T	64
2	قطر حامل: 25 ملم طول حامل: 200 ملم Diameter: 25 mm, Length: 200mm نوع اللقمة: Insert Type: APMT1604	سكينة لقم Indexable Milling BAP300R-S25-200-C25-2T	65
2	قطر حامل: 25 ملم طول حامل: 250 ملم Diameter: 25 mm, Length: 250mm نوع اللقمة: Insert Type: APMT1604	سكينة لقم Indexable Milling BAP300R-S25-250-C25-2T	66
1	قطر حامل: 32 ملم طول حامل: 200 ملم Diameter: 32 mm, Length: 200mm نوع اللقمة: Insert Type: APMT1604	سكينة لقم Indexable Milling BAP400R32-200-3T	67
1	قطر حامل: 40 ملم طول حامل: 200 ملم Diameter: 40mm Length: 200mm نوع اللقمة: Insert Type: APMT1604	سكينة لقم Indexable Milling BAP400R 40-200-3T	68
1	قطر حامل: 50 ملم طول حامل: 60 ملم Diameter: 50mm, Length: 60mm نوع اللقمة: Insert Type: RPMT1204MO	سكينة لقم Indexable Milling EMRW6R50-22-4T	69

Qty	Specifications \ المواصفات	المادة/Item	#/تسلسل
1	قطر حامل: 63 ملم طول حامل: 60 ملم Diameter: 63mm, Length: 60mm نوع اللقمة: Insert Type: RPMT1204MO	سكينة لقم Indexable Milling EMRW6R63-22-4T	70

20	خاصة لتشغيل الفولاذ والستانلس For Steel & Stainless Workpiece نوع اللقمة: Insert Type: APMT1135PDER	لقم كربيد Carbide Insert	71
20	خاصة لتشغيل الفولاذ والستانلس For Steel & Stainless Workpiece نوع اللقمة: Insert Type: APMT1604	لقم كربيد Carbide Insert	72
20	خاصة لتشغيل الفولاذ والستانلس For Steel & Stainless Workpiece نوع اللقمة: Insert Type: RPMT1204MO	لقم كربيد Carbide Insert	73
50	خاصة لتشغيل الالمنيوم وحديد الزهر For Aluminum & Cast-Iron Workpiece نوع اللقمة : Insert Type: APMT1135	لقم كربيد Carbide Insert	74
50	خاصة لتشغيل الالمنيوم وحديد الزهر For Aluminum & Cast-Iron Workpiece نوع اللقمة : Insert Type: APMT1604	لقم كربيد Carbide Insert	75
50	خاصة لتشغيل الالمنيوم وحديد الزهر For Aluminum & Cast-Iron Workpiece نوع اللقمة : Insert Type: RPMT1204	لقم كربيد Carbide Insert	76
1	طول : 150 ملم Length: 150 mm Type: BT40-ER32-L150	حامل بانس لسكاكين طرفية Collet Chuk	77

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
1	طول : 100 ملم Length: 100 mm Type: BT40-ER32-L100	حامل بانس لسكاكين طرفية Collet Chuk	78
1	طول : 100 ملم Length: 100 mm Type: BT40-ER16-L150	حامل بانس لسكاكين طرفية Collet Chuk	79
1	طول : 100 ملم Length: 100 mm Type: BT40-ER16-L100	حامل بانس لسكاكين طرفية Collet Chuk	80
10	Type: ER16 Size: Cap: 0.5 – 9.5 mm	بانس لسكاكين طرفية Collet	81
18	Type: ER32 Size: Cap: 2 -19.5 mm	بانس لسكاكين طرفية Collet	82
1	قطر داخلي : 16ملم	حامل سكين لقمة	83

	طول : 100 ملم Inside Diameter: 16mm Length: 100 mm Type:BT40-SLN16-100	Lock Holder	
1	قطر داخلي : 20ملم طول : 100 ملم Inside Diameter: 20mm Length: 100 mm Type:BT40-SLN20-100	حامل سكينه لقم Lock Holder	84
1	قطر داخلي : 25ملم طول : 100 ملم Inside Diameter: 25 mm Length: 100 mm Type:BT40-SLN25-100	حامل سكينه لقم Lock Holder	85
1	قطر داخلي : 32ملم طول : 100 ملم Inside Diameter: 32mm Length: 100 mm Type:BT40-SLN32-100	حامل سكينه لقم Lock Holder	86
1	قطر داخلي : 16ملم طول : 110 ملم Inside Diameter: 16mm Length: 110 mm Type:BT40-APU16-110	حامل ريش ثقب Lock Holder	87

Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
1	قطر داخلي : 12ملم طول : 120 ملم Inside Diameter: 12mm Length: 120 mm Type:ST12-L120	تطويلة سكاكين Extension Bar SDC	88
1	قطر داخلي : 12ملم طول : 150 ملم Inside Diameter: 12mm Length: 150 mm Type:ST12-L150	تطويلة سكاكين Extension Bar SDC	89
1	قطر داخلي : 16ملم طول : 120 ملم Inside Diameter: 16mm Length: 120 mm Type:ST16-L120	تطويلة سكاكين Extension Bar ER	90
1	قطر داخلي : 16ملم طول : 150 ملم Inside Diameter: 16mm Length: 150 mm Type:ST16-L150	تطويلة سكاكين Extension Bar ER	91



2	قطر داخلي : 22ملم طول : 150 ملم Inside Diameter: 22mm Length: 150 mm Type:BT40-FMB22-150	حامل سكينه تخشين Face Mill Arbor	92
20	Type:BT40-PULL STUD	اوتاد تثبيت حامل Holder Pull Stud	93

1- قسم الآلات المبرمجة CNC Section			
2-1- مخرطة مبرمجة CNC Lathe Machine			
Qty	المادة/Item	#/تسلسل	
2	قلم خارجي تخشين زاوية 95 درجة External Turning Tool (95°) قياس : 20 * 20 ملم، طول : 125 ملم Type: SCLC, Size: 20*20 mm, Length :125 mm	1	
2	قلم خارجي تخشين زاوية 50 درجة External Turning Tool (50°) قياس : 20 * 20 ملم، طول : 125 ملم Type: SCNC, Size: 20*20 mm, Length :125 mm	2	
30	لقمة قلم خارجي 50 ، 95 درجة ، كربيد External Turning Insert Type: CC..1204, Carbide	3	
2	قلم خارجي تنعيم زاوية 93 درجة External Turning Tool (93°) قياس : 20 * 20 ملم، طول : 125 ملم Type: SVJB, Size: 20*20 mm, Length :125 mm	4	
2	قلم خارجي تنعيم زاوية 72.5 درجة External Turning Tool (72.5°) قياس : 20 * 20 ملم، طول : 125 ملم Type: SVVB, Size: 20*20 mm, Length :125 mm	5	
20	لقمة قلم خارجي تنعيم 72.5 - 93 درجة ، كربيد External Turning Insert Type: VC.1103, Carbide	6	
2	حامل قلم قص Parting Tool قياس : 20 * 20 ملم، طول : 125 ملم Type: IKGM, Size: 20*20 mm, Length :125 mm	7	
Qty	المادة/Item	#/تسلسل	
20	لقمة قلم قص Parting Tool Insert	8	

	Type: GMM 2020-RG	
2	<p>قلم داخلي زاوية 60 درجة</p> <p>Internal Turning Tool (60°)</p> <p>طول : 200 ملم ، قطر : 20 ملم ، ارتفاع : 18ملم ، ثقب تبريد</p> <p>Type: STWC, Steel Shank</p> <p>Length: 200 mm, Diameter: 20 mm</p> <p>Height :18 mm, Coolant Hole</p>	9
10	<p>لقمة قلم داخلي زاوية 60 درجة ، كربيد</p> <p>Internal Turning Insert</p> <p>Type: TC.1102, Carbide</p>	10
2	<p>قلم داخلي زاوية 95 درجة</p> <p>Internal Turning Tool (95°)</p> <p>Type: SCLC, Steel Shank</p> <p>طول : 200 ملم ، قطر : 20 ملم ، ارتفاع : 18ملم ، ثقب تبريد</p> <p>Length: 200 mm, Diameter: 20 mm</p> <p>Height :18 mm, Coolant Hole</p>	11
10	<p>لقمة قلم داخلي 95 درجة ، كربيد</p> <p>Internal Turning Insert</p> <p>Type: CC..09T3, Carbide</p>	12
2	<p>قلم داخلي زاوية 62.5 درجة</p> <p>Internal Turning Tool (62.5°)</p> <p>Type: SDNC, Steel Shank</p> <p>طول : 200 ملم ، قطر : 20 ملم ، ارتفاع : 18ملم ، ثقب تبريد</p> <p>Length: 200 mm, Diameter: 20 mm</p> <p>Height :18 mm, Coolant Hole</p>	13

Qty	المادة/Item	#/تسلسل
10	<p>لقمة قلم داخلي زاوية 62.5 درجة، كربيد</p> <p>Internal Turning Insert</p> <p>Type: DC.11T3, Carbide</p>	14
2	<p>قلم شرار خارجي</p> <p>External Thread Turning Tool</p> <p>قياس : 20*20 ملم ، طول 125 ملم</p> <p>Size: 20*20mm, Length: 125mm</p>	15
1	<p>طقم لقمة قلم شرار خارجي ، كربيد</p> <p>Internal Turning Insert Set</p> <p>Material: Carbide</p>	16
2	<p>قلم شرار داخلي</p> <p>Internal Thread Turning</p> <p>قياس : 20*20 ملم ، طول 125 ملم</p> <p>Size: 20*20 mm, Length:125 mm</p>	17

1	Internal Turning Insert Set Material: Carbide	18
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2- قسم الخراطة والتسوية Turning & Milling Section		
Qty	المادة/Item	#/تسلسل
10	حامل أقلام خراطة Turning Tool Holder قياس : 32*32 ملم Size: 32*32 mm	1
50	أقلام خراطة خارجية 16\5 External Turning Tool (5/16) نوع المعدن : فولاذ سرعات عالية Material: HSS	2
50	أقلام خراطة خارجية 16\5 Carbide Tipped External Turning (5/16) لقمة كربيد ملحومة With Carbide Insert	3
50	أقلام خراطة 8\3 External Turning Tool (3/8) نوع المعدن : فولاذ سرعات عالية Material: HSS	4
50	أقلام خراطة خارجية 8\3 Carbide Tipped External Turning (3/8) لقمة كربيد ملحومة With Carbide Insert	5
50	أقلام خراطة داخلية Carbide Tipped Internal Turning لقمة كربيد ملحومة، قياس : 8 ملم Size: 8 mm, With Carbide Insert	6
25	أقلام خراطة داخلية Carbide Tipped Internal Turning لقمة كربيد ملحومة ، قياس : 12 ملم Size: 12 mm, With Carbide Insert	7

Qty	المادة/Item	#/تسلسل
25	أقلام خراطة داخلية Carbide Tipped Internal Turning لقمة كربيد ملحومة، قياس : 16 ملم Size: 16 mm, With Carbide Insert	8
	أقلام خراطة داخلية	

15	Carbide Tipped Internal Turning لقمة كربيد ملحومة، قياس : 20 ملم Size: 20 mm, With Carbide Insert	9
10	Carbide Tipped Internal Turning Holder حامل أقلام لقم كربيد قياس : 32*32 ملم Size: 32*32 mm	10
50	Carbide Insert of Turning Tool لقم أقلام خراطة	11
10	Cut-Off Turning Tool Holder حامل أقلام فصل قياس : 32*32 ملم Size: 32*32 mm	12
15	Cut-Off Turning Tool (7/8) نوع المعدن : فولاذ سرعات عالية ، قياس : 22 ملم Size: 22 mm, Material: HSS	13
25	Carbide Tipped Cut-Off Turning Tool (5/8) لقمة كربيد ملحومة، قياس : 16 ملم Size: 16 mm, With Carbide Insert	14
<b>Qty</b>	<b>المادة /Item</b>	<b>تسلسل /#</b>
50	أقلام خراطة فتح شرار Carbide Tipped Threading Turning Tool قياس : 10 ملم Size: 10 mm	15
50	أقلام خراطة فتح شرار Carbide Tipped Threading Turning Tool قياس : 12 ملم Size: 12 mm	16
25	أقلام خراطة فتح شرار Carbide Tipped Threading Turning Tool قياس : 16 ملم Size: 16 mm	17
15	أقلام خراطة فتح شرار Carbide Tipped Threading Turning Tool قياس : 20 ملم Size: 20 mm	18
25	أقلام خراطة جانبية يميني	19

	Carbide Tipped Facing Turning Tool (R) قياس : 12 ملم Size: 12 mm	
25	أقلام خراطة جانبية يميني Carbide Tipped Facing Turning Tool (R) Size : 16 mm قياس : 16 ملم ،	20
15	أقلام خراطة جانبية يميني Carbide Tipped Facing Turning Tool (R) Size : 20 mm قياس : 20 ملم ،	21

Qty	المادة/Item	#/تسلسل
15	Center Drill Tool ريش سنترية معدن : كربيد ، قطر: 3.15 ملم ، طول : 63ملم Diameter: 3.15 mm, Length: 63mm, Material: Carbide	22
15	Center Drill Tool ريش سنترية معدن : كربيد، قطر: 4 ملم ، طول : 66ملم Diameter: 4 mm, Length: 66mm, Material: Carbide	23
15	Center Drill Tool ريش سنترية معدن : كربيد، قطر: 5 ملم ، طول : 73ملم Diameter: 5 mm, Length: 73mm ,Material : Carbide	24
90	Twist Drill Tool ريش ثقب معدن : كربيد، قطر: 1ملم، طول:34ملم - قطر: 1.5ملم، طول:40ملم قطر: 2ملم، طول:49ملم - قطر: 2.5ملم، طول:57ملم قطر: 3ملم، طول:61ملم - قطر: 3.5ملم، طول:70ملم قطر: 4ملم، طول:75ملم - قطر: 4.5ملم، طول:80ملم قطر: 5ملم، طول:86ملم عدد من كل قياس 10 Material: Carbide Diameter :1mm, Length:34 mm, Diameter :1.5 mm, Length:40 mm Diameter :2mm, Length:49 mm Diameter :2.5mm, Length:57 mm Diameter :3mm, Length:61 mm Diameter :3.5mm, Length:70 mm Diameter :4mm, Length:75 mm Diameter :4.5mm, Length:80 mm Diameter :5mm, Length:86 mm 10 Pieces of each size	25

Qty	المادة/Item	#/تسلسل
	Twist Drill Tool ريش ثقب	

50	<p>معدن : كربيد  قطر: 5.5 ملم، طول: 93 ملم - قطر: 6 ملم، طول: 93 ملم  قطر: 6.5 ملم، طول: 101 ملم - قطر: 7 ملم، طول: 109 ملم  قطر: 7.5 ملم، طول: 109 ملم - قطر: 8 ملم، طول: 117 ملم  قطر: 8.5 ملم، طول: 117 ملم - قطر: 9 ملم، طول: 125 ملم  قطر: 9.5 ملم، طول: 125 ملم - قطر: 10 ملم، طول: 133 ملم عدد 5 من كل قياس  Material: Carbide  Diameter :5.5 mm, Length:93 mm,  Diameter :6 mm, Length:93 mm  Diameter :6.5mm, Length:101 mm  Diameter :7mm, Length:109 mm  Diameter :7.5mm, Length:109 mm  Diameter :8mm, Length:117 mm  Diameter :8.5mm, Length:117 mm  Diameter :9mm, Length:125 mm  Diameter :9.5mm, Length:125 mm  Diameter :10mm, Length:133 mm  5 Pieces of each size</p>	26
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Qty	المادة/Item	#/تسلسل
16	<p>ریش ثقب  معدن : كربيد  قطر: 10.5 ملم، طول: 133 ملم - قطر: 11 ملم، طول: 142 ملم  قطر: 11.5 ملم، طول: 142 ملم - قطر: 12 ملم، طول: 151 ملم  قطر: 12.5 ملم، طول: 124 ملم - قطر: 13 ملم، طول: 124 ملم  قطر: 13.5 ملم، طول: 124 ملم - قطر: 14 ملم، طول: 124 ملم  عدد 2 من كل قياس  Material: Carbide  Diameter :10.5 mm, Length:133 mm,  Diameter :11 mm, Length:142 mm  Diameter :11.5mm, Length:142 mm  Diameter :12mm, Length:151 mm  Diameter :12.5mm, Length:124 mm  Diameter :13mm, Length:124 mm  Diameter :13.5mm, Length:124 mm  Diameter :14mm, Length:124 mm  2 Pieces of each size</p>	27

Qty	المادة/Item	#/تسلسل
	ریش ثقب Twist Drill Tool	

6	<p>معدن: كربيد، جلبة مورس  قطر: 15 ملم، طول: 133 ملم - قطر: 16 ملم، طول: 133 ملم  قطر: 17 ملم، طول: 143 ملم - قطر: 18 ملم، طول: 143 ملم  قطر: 19 ملم، طول: 153 ملم - قطر: 20 ملم، طول: 153 ملم  عدد 1 من كل قياس</p> <p>Material: Carbide, Type: Morse Taper  Diameter :15 mm, Length:133 mm  Diameter :16mm, Length:133 mm  Diameter :17mm, Length:143 mm  Diameter :18mm, Length:143 mm  Diameter :19mm, Length:153 mm  Diameter :20mm, Length:153 mm  1 Pieces of each size</p>	28
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### C- جداول الكميات والمواصفات الفنية للأدوات الصناعية:

#### C. Specifications and Quantities of industrial tools

1- أدوات ومواد مشتركة لكافة الأقسام Tools for all sections		
عدد/Quantity	المادة/Item	#/تسلسل
100	Gloves Elasticated cuff Providing optimal protection Against cuts Optimal long-lasting grip	1 كفوف جلد
25	Safety Helmet (CE EN397) Polypropylene Shell	2 قبعة حماية
15	Ear Shield Protection SNR value: 26 dB Light weight POM headband	3 سماعات حماية اذن كاتم
50	Ear Plug Protection NRR value: 27 dB	4 سدادة حماية اذن داخلية
80	Safety Glasses Soft PVC frame Lens high impact clear Polycarbonate	5 نظارات حماية
15	Tape Measure ABC case with UV layer	6 متر (5 m)
	Bolts	براغي

8 كغ	Size: M6 - M8 M10 - M12 HRC: 30 ملاحظة: من كل قياس 2 كغ 2 Kg each size	7
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عدد/Quantity	المادة/Item	#/تسلسل
4 كغ	Nuts Size: M6 - M8 - M10 - M12 HRC: 30 ملاحظة : من كل قياس 1 كغ 1Kg each size	8
4 كغ	Washer Size: M6 - M8 - M10 - M12 shim steel ملاحظة : من كل قياس 1 كغ 1Kg each size	9
5	Grease Gun 1.28 grams of grease per pump Develops up to 10,000 psi pressure	10
5	Lubricating Tool Capacity: 0.5 liter	11
5	Screwdriver Phillips Set المقبض من المطاط معادن : كروم فاناديوم، قساوة 50 روكويل Size: (Ø3*75), (Ø 5*100), (Ø6*38), (Ø6*150), (Ø8*150) Chrome –Vanadium, HRC 50 Rubber Handle	12
5	Screwdriver Slotted Set المقبض من المطاط معادن : كروم فاناديوم، قساوة 50 روكويل Size: (Ø3*0.5*75), (Ø4*0.8*80), (Ø5.5*1*125), (Ø6.5*1.2*150), (Ø8*1.2*150) Chrome –Vanadium, HRC 50 Rubber Handle	13

عدد/Quantity	المادة/Item	#/تسلسل
2	Ring Wrench Set 12 قطعه، قياس (32-6ملم)	14



	معدن : كروم فاناديوم 12 Pieces, Size (6-32mm) Chrome Vanadium	
1	طقم مفتاح فنجان Metric Socket Wrench 108 قطعة، قياس (10 ملم – 32 ملم) معدن : كروم فاناديوم 108 Pieces, Chrome Vanadium Steel	15
3	طقم مفاتيح شق Wrench Set 12 قطعة، قياس (6-32ملم) معدن : كروم فاناديوم 12 Pieces, Size (6-32mm) Chrome Vanadium Steel	16
3	مفتاح شق متحرك Adjustable Wrench قياس 10 انش Forged alloy steel with heat treatment Polished head and chrome plated	17
2	طقم مفاتيح مسدس قبضة T-Bar Set 9 قطع، قياس (1.5،2،2.5،3،4،5،6،8،10)ملم المقبض من المطاط 9 Pieces Size: 1.5, 2, 2.5 ,3 ,4, 5, 6, 8, 10 mm Rubber Handle Diamond Head, Material: S2 Steel	18
عدد/Quantity	المادة/Item	تسلسل/#
3	مفاتيح مسدس L-Type Key Set 9 قطع قياس : 1.5،2،2.5،3،4،5،6،8،10 ملم 9 Pieces Size: 1.5 ,2 ,2.5 ,3 ,4 ,5 ,6 ,8 ,10 mm Diamond Head Material: S2 Steel	19
5	بانسة عادية Combination Cutting Pliers معدن : كروم فاناديوم ، طول : 180 ملم Handle Material: TPR Chrome Vanadium Length: 180 mm	20
5	بانسة اتوماتيك Locking Plier Straight jaw Range in length from 140mm to 250mm	21
	بانسة أنف طويل	

3	Long Nose Plier معدن : كروم فاناديوم ، طول : 200 ملم Handle Material: TPR Chrome Vanadium Length: 200 mm	22
5	Diagonal Cutting Plier بانسة قطاعة معدن : كروم فاناديوم ، طول : 200 ملم Handle Material: TPR Chrome Vanadium Length: 200 mm	23

عدد/Quantity	المادة/Item	#/تسلسل
20	Ruler مسطرة قياس طول 30 سم ، حفر اسيد Stainless Steel, Length: 30 cm Acid-etched, engraved	24
5	Ruler مسطرة قياس طول 50 سم ، حفر اسيد Stainless Steel, Length: 50 cm Acid-etched, engraved	25
25	Caliper بياكوليس طول : 15 سم ، دقة قياس 0.02 ملم Length: 15 cm Scale Accuracy: 0.02 mm	26
2	Caliper بياكوليس طول : 20 سم ، دقة قياس 0.02 ملم Length: 20 cm Scale Accuracy: 0.02 mm	27
5	Digital Caliper بياكوليس رقمي طول : 15 سم ، دقة قياس 0.01 ملم Length: 15 cm Scale Accuracy: 0.01 mm	28
2	Dial Caliper بياكوليس ساعة طول : 15 سم ، دقة قياس : 0.02 ملم Length: 15 cm Scale Accuracy: 0.02 mm	29

عدد/Quantity	المادة/Item	#/تسلسل
2	Depth Caliper بياكوليس أعماق اقصى عمق : 15 سم ، دقة قياس 0.02 ملم	30

	Max depth: 15 cm Scale Accuracy: 0.02 mm	
2	Height Caliper      بياكوليس ارتفاع أقصى ارتفاع: 20 سم، دقة قياس 0.02 ملم Max height: 30 cm Scale Accuracy: 0.02 mm	31
3	Outside Micrometer      ميكرومتر اقطار خارجية مجال : 0 – 25 ملم، دقة قياس 0.01 ملم Range: 0-25mm Scale Accuracy: 0.01 mm	32
3	Outside Micrometer      ميكرومتر اقطار خارجية مجال : 25 – 50 ملم، دقة قياس 0.01 ملم Range: 25-50mm Scale Accuracy: 0.01 mm	33
1	Outside Micrometer      ميكرومتر اقطار خارجية مجال : 50 – 75 ملم دقة قياس : 0.01 ملم Range: 50-75mm Scale Accuracy: 0.01 mm	34

عدد/Quantity	المادة/Item	#/تسلسل
1	Outside Micrometer      ميكرومتر اقطار خارجية مجال : 75 – 100 ملم دقة قياس 0.01 ملم Range: 75-100 mm Scale Accuracy: 0.01 mm	35
1	Inside Micrometer      ميكرومتر اقطار داخلية مجال : 5 – 30 ملم دقة قياس 0.01 ملم Range: 5-30 mm Scale Accuracy: 0.01 mm	36
1	Inside Micrometer      ميكرومتر اقطار داخلية مجال : 25 – 50 ملم دقة قياس : 0.01 ملم	37

	Range: 25-50mm Scale Accuracy: 0.01 mm	
1	<p>ساعة عيار استواء سطوح</p> <p>Dial Indicator</p> <p>مجال : 0.01 – 10 ملم</p> <p>دقة قياس : 0.01 ملم</p> <p>Range: 0.01-10mm Scale Accuracy: 0.01 mm</p>	38

عدد/Quantity	المادة/Item	#/تسلسل
2	<p>قاعدة مغناطيسية مع ذراع</p> <p>Magnetic Base with Arm</p> <p>اقصى ارتفاع للأذرع: 250 ملم</p> <p>قاعدة 150*150</p> <p>Max Height of Arm: 250 mm Base: 150*150</p>	39
15	<p>حجر جليخ</p> <p>Grinding Stone Wheel</p> <p>قطر : 20 سم</p> <p>خاص لشحذ أدوات الكريبيد – لون أخضر</p> <p>Diameter: 20 cm Use for Carbide Tool, Green Color</p>	40
15	<p>حجر جليخ</p> <p>Grinding Stone Wheel</p> <p>قطر : 20 سم</p> <p>خاص لشحذ الحديد – لون فضي</p> <p>Diameter: 20 cm Use for Iron, Gray Color</p>	41
5	<p>مجمع رائش مع ذراع مرن</p> <p>Chip Collector with Flexible Arm</p> <p>Length: 533 mm Capacity: 0.5 kg</p>	42
2	<p>أداة استواء افقية</p> <p>Horizontal Leveling Instrument</p> <p>دقة : 0.02 ملم \ متر</p> <p>Accuracy: 0.02 mm/meter</p>	43
1	<p>ملزمة هيدروليكية</p> <p>Hydraulic Vice</p> <p>Jam proof system, Accuracy: 0.02 mm Capacity: 0-100, 100-200, 200-300</p>	44
عدد/Quantity	المادة/Item	#/تسلسل

2	Industrial Digital Weight Measuring Operates on rechargeable batteries or AC adapter, Auto zero tracking. Capacity: 60 Kg, Accuracy: 10 grams	ميزان 60 كغ رقمي صناعي 45
2	Small Digital Weight Measuring Including batteries, Capacity: 100g Accuracy: 1 gram	ميزان رقمي 100 غرام مخبري 46
2	Powerful motor: 500W Forward/reverse rotation	مقرب كهربائي محمول 47
3	Angle Grinder, Size: 4.5 inch Rated power input: 670 W No-load speed: 11,000 no-load rpm	صاروخ جليخ محمول 4.5 انش 48
1	Angle Grinder, Size: 9 inch Rated power input: 2000 W No-load speed: 11,000 rpm	صاروخ جليخ محمول 9 انش 49
2	Grinding Rotary Tool Power: 150 w, speed : 25000 rpm	فكسل تنعيم 50
2 جالون/bottle	Coolant oil Bottle: 20 لتر 20 Type: Cutting Oil	زيت سائل التبريد 51

2- قسم الخراطة والتسوية Turning & Milling Section		
عدد/Quantity	المادة/Item	#/تسلسل
5	Metric Thread Tap Size: M3 –M5- M6 - M7 –M8- M9- M10 –M11- M12 HSS , فولاذ سرعات عالية	1 طقم قلاووظ فتح شرار داخلي
5	Thread Tap Wrench Size: M3 Up to M 12	2 ماسك أداة فتح شرار داخلي
2	Thread Cutting Die Set Size: M3 –M5- M6 - M7 –M8- M9- M10 –M11- M12 HSS فولاذ سرعات عالية،	3 طقم حداية فتح شرار خارجي

3	أداة تثبيت حداية شرار خارجي Die Wrench Size: M12 Up to M3	4
15	محددات قياس شرار خارجي Screw Ring Gauge 24 قطعة، خطوة : 0.25 ملم – 6ملم 24 pieces, step: 0.25 mm – 6 mm Stainless Steel	5
1	محددات تقوب Go No go Plug Gauge 12 قطعة ، قطر : 2 ملم – 20ملم 12 pieces, diagram: 2 mm – 20 mm Stainless Steel	6
15	محددة قياس أقواس Radius Gauge مجال : 1 - 7 ملم Range: 1 – 7 mm Stainless Steel	7
15	محددة قياس أقواس Radius Gauge مجال : 7.5 - 15 ملم Range: 15 – 7.5 mm Stainless Steel	8
15	محددة قياس أقواس Radius Gauge مجال : 15.5 - 25 ملم Range: 15.5 - 25 mm Stainless Steel	9
2	محددات قياس سماكة Feeler Gauge metric 32 قطعة، مجال: 0.03 – 1 ملم، 32 pieces, Range: 0.03 – 1 mm Stainless Steel	10
3	بانسة سكران Round Nose Plier Size: 150 mm, Material: Carbon Steel. Hardened & Tempered Jaws. Custom two-tone rubber grip for easy handling. Finish: Polished / Chrome Plated.	11
3	بانسة سكران معكوفه Split Ring Plier Size: 150 mm Material: Carbon Steel. Hardened & Tempered Jaws. Two-tone rubber grip for easy handling. Finish: Polished / Chrome Plated.	12
15	جسم منشار يدوي مع نصله Hacksaw HSS tooth, Blade Length = 300 mm	13

	over temperature range -20 °C to +70 °C Plastic Handle	
3	Number Punch Material: Carbon Steel Punches size 8mm, 9 Pieces	ترقيم كبس 14
2	Letter Punches Material: Carbon Steel Punches size 8mm, 27 Pieces	احرف كبس 15

3- قسم الآلات المبرمجة CNC Section		
عدد/Quantity	المادة/Item	#/تسلسل
1	جهاز شحذ سكاكين تفريز Capacity End Mill Dia: 4 – 13 mm Motor: 300-Watt, Speed:4300rpm Power: 220- 50Hz Axial – Angle: End mill flat slot angle 30o Second radial angle 20o Cutting angle 6o	1
1	جهاز سن ريش الثقب Universal Cutter Grinder For grinding HSS & carbide engraving cutter Max. Collet capacity 18mm Max. Grinding dia: 25 mm Taper angle: 0 -180o Relief angle: 0 – 45o Negative angle: 0 – 26o Grinding spindle: 3600 rpm Cup grinding Wheel:100*50*20mm Motor 0.3 Hp	2
1	ساعة تصفير الأداة Z Axis Zero Pre-Setter Tool For setting length of tool on CNC Mill machine Material: Stainless steel Setting height :50 +/- 0.005mm	3
5	بكرة سلك موليبدنيوم Molybdenum wire Type: GMX101 Length: 1500 M – Diagram: 0.18 mm بكره: 1500 متر ، قطر : 0,18 ملم	4

عدد/Quantity	المادة/Item	#/تسلسل
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2	<p>مطرقة برأس نحاس</p> <p>Copper Head Hammer Weight: 1070g Face diameter: 38mm Wood handle Faces are designed to wear and can be replaced</p>	5
1	<p>طقم مقامط قوالب مع ملحقاته</p> <p>Steel Clamping Kit Table Slot: 18 mm Stud size: M16 -2P Heat treated steel black oxide finish 52 pieces 25 pcs Stud, 6 pcs T Nuts ,4 pcs Coupling Nuts, 6 pcs Flange Nuts, 6 pcs Step Clamps , 6 pcs Step Blocks</p>	6
1	<p>مثبت مغناطيسي للرافعة</p> <p>Permanent Magnetic Lifter Capacity: 1000 Kg Safety coefficient 3.5 times ON/off switch</p>	7

4- قسم اللحام (Welding section)		
عدد/Quantity	المادة/Item	#/تسلسل
3	<p>منظم لاسطوانة غاز الارغون</p> <p>Argon Gas Regulator Application: Tig welding Output pressure: 0.15MPa Input pressure range: 0-25MPa Nominal gas flow: 0-25L/min</p>	1
10	<p>ملقط حدادة</p> <p>Blacksmiths Tool Metalworking Jaw Length: 2 inches Reins Length: 14 inches</p>	2
15	<p>مطرقة تنظيف خبث اللحام</p> <p>Chipping Hammer Hammer Material: CK45 Hammer Type: Claw Hammer Hammer weight: 500g or 600g Hammer Type: Masons hammer</p>	3
50 كغ	<p>إلكترود لحام غازي 2 ملم</p> <p>Oxy-Acetylene Welding Rod Application: weld Iron</p>	4



5 كغ	<p>إلكتروود لحام غازي 2 ملم</p> <p>Oxy-Acetylene Welding Rod</p> <p>خاص بالنحاس</p> <p>Operating Temperature: 900-960</p> <p>Application: copper/steel/hard alloy</p>	5
60 كغ	<p>إلكتروود لحام قوس كهربائي 2.5 ملم</p> <p>Arc Welding Electrode</p> <p>Carbon Steel</p> <p>Type: MT-12</p> <p>Welding Current: 50-250A</p>	6

عدد/Quantity	المادة/Item	#/تسلسل
60 كغ	<p>إلكتروود لحام قوس كهربائي 3.25 ملم</p> <p>Arc Welding Electrode</p> <p>Carbon Steel</p> <p>Type: MT-12</p> <p>Welding Current: 50-250A</p>	7
50	<p>ابر لحام تيج 1.6 ملم طول 175 ملم</p> <p>Tig Welding Electrode</p> <p>Dia : 1.6 mm , Length : 175mm</p> <p>Material: Tungsten, tungsten alloy powder</p> <p>Welding Current: 50-250A</p>	8
25	<p>ابر لحام تيج 2.4 ملم طول 175 ملم</p> <p>Tig Welding Electrode</p> <p>Dia: 2.4 mm , Length : 175mm</p> <p>Material: Tungsten, tungsten alloy powder</p> <p>Welding Current: 50-250A</p>	9
2	<p>برميل حجر كربيد</p> <p>Carbide Stone Barrel</p> <p>For Oxy-Acetylene Welding</p> <p>Size: 25-50mm, 50-80mm</p> <p>Other Name: Calcium Carbide</p>	10
3	<p>مشعل لحام غازي موديل فرنسي مع فالة</p> <p>Gas Welding Blowpipe Torch</p> <p>France Style</p> <p>Welding Capacity: 0.5 -3.0mm</p>	11
25	<p>فالة مشعل لحام غازي</p> <p>Welding torch Gas nozzle</p> <p>Material: copper</p>	12

عدد/Quantity	المادة/Item	#/تسلسل
	ساعة عيار ضغط أسطوانة غاز الاستلين	

3	Pressure Regulator Suitable gas: acetylene Cylinder For Oxy-Acetylene Welding	13
3	ساعة عيار ضغط أسطوانة غاز الأكسجين Pressure Regulator Suitable gas: Oxygen Cylinder Suitable gas: acetylene Cylinder For Oxy-Acetylene Welding	14
3	تعبئة جرة غاز الأرجون Fill Argon Gas Cylinder	15
3	تعبئة جرة غاز ثاني أكسيد الكربون Fill Co2 Gas Cylinder	16
7 بكرة	بكرة سلك لحام ميج ، بكرة : 1 كغ MIG Welding Wire Mild Steel, Dia : 0.8 mm 1kg/spool Shield gas: Co2/Ar+Co2 Copper Coated	17
1 بكرة	بكرة سلك لحام ألومنيوم ميج ، بكرة : 8 كغ MIG Welding Wire Aluminum, Dia : 0.8 mm 8kg/spool Shielding Gas: Argon	18
5	مطرقة برأس 1.5 كغ Club Hammer (weight of Head 1.5kg) Handle Material: Fiberglass Head Material: Carbon Steel	19

عدد/Quantity	المادة/Item	#/تسلسل
100 متر	خرطوم غاز Rubber Hose Flexible, Durable, High Pressure Applicable Size: 5mm-12mm, Blue/Red Working Pressure: 20 bar For Oxy-Acetylene Welding	20
15	كفوف لحام Welding gloves Liner Material: Cotton Material: Cow Split Leather Size: 14 inch Weight: 300g/pair Welded fingers and protects seams from sparks	21
15	قناع حماية لحام Welding Light Helmets	22

	Substantial view size: 91*41mm Bright mode: Din4 Dark mode: Din9-13	
15	نظارات لحام welding Protective Glasses Safety Lens size: Round lens Diameter: 50mm Material: PVC	23
15	صدرية لحام جلد Welders Dual Leather Heat Insulation Protective Safety Welding Apron Material: Split cowhide Color: Yellow Length: 110 cm	24
15	فرشاة تيل Handle Wire Welding Brush Wire diameter: 0.1- 0.35mm Steel Wire, Wooden Handle	25

5- قسم التشكيل Metal Forming		
عدد/Quantity	المادة/Item	#/تسلسل
5	مقص صاج يدوي Snips Cut up to 1.2mm rolled steel or 0.7mm stainless steel مقبض بلاستيك ، شفرة فولاذ كربوني Handle Material: Plastic Blade Material: Carbon Steel Cutter: Left, Straight, Right	1
3	بانسة برشيم Rivet Plier مناسبة لبرشيم 4 ملم ، 5 ملم ، معدن ذراع كروم فاناديوم Capacity: Aluminum rivets up to Ø 5.0 mm Capacity: Stainless steel rivets up to Ø 4.0 mm Lever arm: Chrome vanadium	2
5 علب/Box	برشيم Rivet Material: Aluminum – Diagram: 4 mm علبة : 1000 برشيم -قطر: 4 ملم Each Box: 1000 Rivet	3

#### D- المواد الأولية (Raw Materials):

1- تمارين قسم التشكيل Metal Forming Training		
عدد/Quantity	المادة/Item	#/تسلسل
5	صفحة حديد سماكة 0,4 ملم ( 1 متر * 2 متر ) ، وزن : 6.3 كغ Iron Sheet, Thickness: 0.4 mm Size: 1 meter * 2-meter, Weight: 6.3 kg	1

5	صفیحة حديد سماكة 0,6 ملم ( 1 متر * 2 متر )، وزن : 9,5 كغ Iron Sheet, Thickness: 0.6 mm Size: 1 meter * 2-meter, Weight: 9.5 kg	2
5	صفیحة حديد سماكة 0,8 ملم ( 1 متر * 2 متر )، وزن : 12,7 كغ Iron Sheet, Thickness: 0.8 mm Size: 1 meter * 2-meter, Weight: 12.7 kg	3
5	صفیحة حديد سماكة 1 ملم ( 1 متر * 2 متر )، وزن : 15,9 كغ Iron Sheet, Thickness: 1 mm Size: 1 meter * 2-meter, Weight: 15.9 kg	4
10	حديد مقطع مستطیل عرض 1.5 سم، سماكة 5 ملم ، طول 6 متر، وزن : 3.5 كغ Rectangle Iron Bar, Width: 1.5 cm, Thickness: 5 mm, Length: 6-meter, Weight: 3.5Kg	5
10	حديد مقطع مستطیل عرض 2 سم، سماكة 5 ملم، طول 6 متر، وزن : 4,8 كغ Rectangle Iron Bar, Width: 2 cm, Thickness: 5 mm, Length: 6-meter, Weight: 4.8Kg	6
5	زاوية حديد 3 ملم * 3 ملم ، طول 6 متر سماكة 4ملم، وزن : 10.6 كغ Iron Angle Bar Size: 3mm * 3mm, Thickness: 4 mm, Length: 6-meter, Weight: 10.6 Kg	7

2- تمارین قسم الخراطة والتسوية Turning & Milling Training		
عدد/Quantity	المادة/Item	#/تسلسل
10	حديد مقطع دائري قابل للخراطة، قطر 25 ملم طول 6 متر، وزن : 23.3 كغ ، ( تمارین خراطة ) Iron Rod for Turning Diameter: 25 mm, Length: 6 meter, Weight: 23.3 mm Turning Training	1
8	حديد مقطع دائري قابل للخراطة قطر 40 ملم طول 3 متر، وزن: 29.8 كغ، ( تمارین خراطة ) Iron Rod for Turning Diameter: 40 mm, Length: 3 meters Weight: 29.8 mm Turning Training	2
4	حديد مقطع دائري قابل للخراطة قطر 60 ملم طول 3 متر ، وزن : 67.1 كغ، ( تمارین خراطة ) Iron Rod for Turning Diameter: 60 mm, Length: 3-meter, Weight: 67.1 mm Turning Training	3
	حديد مقطع مربع	

10	قياس : 10 ملم * 10 ملم ، طول 6 متر ، وزن : 4.8 كغ ( تمارين خراطة ) Square Iron Bar Size: 10 mm *10 mm, Length: 6-meter, Weight: 4.8Kg Turning Training	4
4	حديد مقطع مربع قياس : 40 ملم*40 ملم، طول 1 متر، وزن : 12,7 كغ ، ( تمارين تسوية ) Square Iron Bar Size: 40 mm *40 mm, Length: 1 meter, Weight: 12.7 Kg Milling Training	5

عدد/Quantity	المادة/Item	#/تسلسل
2	حديد مقطع مربع 60 ملم *60 ملم، طول 1 متر، وزن : 28.5 كغ ، ( تمارين تسوية ) Square Iron Bar Size: 60 mm *60 mm, Length :1-meter, Weight :28.5 Kg Milling Training	6
2	حديد مقطع مربع 80 ملم *80 ملم، طول 1 متر، وزن : 50.7 كغ ، ( تمارين تسوية ) Square Iron Bar Size: 80 mm *80 mm, Length :1-meter, Weight: 50.7 Kg Milling Training	7

3- تمارين قسم اللحام Welding Turning		
عدد/Quantity	المادة/Item	#/تسلسل
5	صفیحة حديد سماكة 2 ملم ( 1 متر * 2 متر ) ، وزن : 31.7 كغ Iron Sheet Thickness: 2 mm, Size: 1 meter * 2 meter, Weight: 31.7 kg	1
1	صفیحة حديد سماكة 4 ملم ( 1 متر * 2 متر ) ، وزن : 63.3 كغ Iron Sheet Thickness: 4 mm Size: 1 meter * 2-meter, Weight: 63.3 kg	2
2	حديد مقطع مستطیل عرض 10 سم، سماكة 8 ملم، طول 6 متر، وزن : 38 كغ Rectangle Iron Bar Width: 10 cm, Thickness: 8 mm, Length: 6-meter, Weight: 38 Kg	3
5 كغ - Kg	أنبوب نحاس قياس : 15.88 * 0.56 ملم	4

	Copper Tube Size: 15.88mm * 0.56 mm	
25 Kg - كغ	أنبوب حديد قياس : 3 انش ، سماكة : 3 ملم Iron Pipe, Size: 3 inch, Thickness: 3 mm	5
10 Kg	كوع حديد قياس : 3 انش Iron Elbow, Size: 3 inch	6

4- تمارين قسم الآلات المبرمجة CNC Training		
عدد/Quantity	المادة/Item	#/تسلسل
20	كتلة ألومنيوم سكب قياس : 15 سم * 20 سم * 5 سم وزن : 4 كغ ( تمارين قسم الآلات المبرمجة ) Aluminum Block, Size: 15cm*20cm*5cm Weight: 4 Kg, (CNC Training)	1
20	كتلة حديد 15 سم * 20 سم * 5 سم، وزن : 11.9 كغ ( تمارين قسم الآلات المبرمجة ) Iron Block, Size: 15cm*20cm*5cm Weight: 11.9 Kg, (CNC Training)	2
2	كتلة فولاذ CK60 25 سم * 25 سم * 5 سم وزن : 24.4 كغ Steel Block (CK60), Size: 15cm*20cm*5cm Weight: 24.4 Kg, (CNC Training)	3

5- تمارين مخبر الآلات المبرمجة CNC Laboratory Training			
Qty	المواصفات \ Specifications	المادة/Item	#/تسلسل
5 Kg	قطر سلك 1.75 ملم وزن بكرة : 1 كيلو غرام لون : احمر – اصفر – اخضر Wire Diameter: 1.75 mm Coil Weight: 1 Kg Type: PLA, Color: Red, Yellow, Green	مواد طباعة ثلاثية الابعاد PLA 3D Printing Material	1
1 Kg	قطر سلك 1.75 ملم وزن بكرة : 1 كيلو غرام لون : خشبي Wire Diameter: 1.75 mm Coil Weight: 1 Kg Type: LA, Color: Wood	مواد طباعة ثلاثية الابعاد PLA-Wood 3D Printing Material	2
	قطر سلك 1.75 ملم		

1 كغ Kg	وزن بكرة : 1 كيلو غرام لون : احمر – اصفر Wire Diameter: 1.75 mm Coil Weight: 1 Kg Type: ABS, Color: Red, Yellow	مواد طباعة ثلاثية الابعاد ABS 3D Printing Material	3
2 كغ Kg	قطر سلك 1.75 ملم وزن بكرة : 1 كيلو غرام Wire Diameter: 1.75 mm Coil Weight: 1 Kg, Type: PC	مواد طباعة ثلاثية الابعاد PC 3D Printing Material	4
1 كغ Kg	قطر سلك 1.75 ملم وزن بكرة : 1 كيلو غرام Wire Diameter: 1.75 mm Coil Weight: 1 Kg, Type: PVA	مواد طباعة ثلاثية الابعاد PVA 3D Printing Material	5
1 كغ Kg	قطر سلك 1.75 ملم وزن بكرة : 1 كيلو غرام لون : ابيض Wire Diameter: 1.75 mm Coil Weight: 1 Kg Type: FLEX, Color: White	مواد طباعة ثلاثية الابعاد FLEX 3D Printing Material	6

6- قسم المعالجة الحرارية (Metal heating treatment)		
Qty	المادة/Item	#/تسلسل
1	فولاذ كربوني C25 حسب المواصفة الأمريكية AISI C25 as per American standard AISI CK25 حسب المواصفة الألمانية DIN CK25 as per German standard DIN مقطع دائري قطر 30 ملم طول: 3 متر ، وزن : 16.5 كغ Carbon Steel (C25), Rod Diameter: 30 mm, Length: 3-meter, Weight: 16.5 kg	1
1	فولاذ كربوني C45 حسب المواصفة الأمريكية AISI C45 as per American standard AISI CK45 حسب المواصفة الألمانية DIN CK45 as per American standard DIN مقطع دائري قطر 30 ملم طول: 3 متر، وزن : 16.5 كغ Carbon Steel (C45), Rod Diameter: 30 mm, Length: 3-meter, Weight: 16.5 kg	2
1	فولاذ كربوني C60 حسب المواصفة الأمريكية AISI C60 as per American standard AISI CK60 حسب المواصفة الألمانية DIN CK60 as per German standard DIN	3

	مقطع دائري قطر 30 ملم طول: 3 متر، وزن : 16.5 كغ Carbon Steel (C60), Rod Diameter: 30 mm, Length: 3-meter, Weight: 16.5 kg	
1	فولاذ كربوني C80 حسب المواصفة الأمريكية AISI C80 as per American standard AISI CK80 حسب المواصفة الألمانية DIN CK80 as per American standard DIN مقطع دائري قطر 30 ملم طول: 3 متر ، وزن : 16.5 كغ Carbon Steel (C80), Rod Diameter: 30 mm, Length: 3-meter, Weight: 16.5 kg	4

Qty	المادة/Item	#/تسلسل
1	فولاذ خلاطتي بوهرلر D3 حسب المواصفة الأمريكية AISI D3 as per American standard AISI K100 حسب المواصفة الألمانية DIN K100 as per German standard DIN مقطع مربع 30 ملم * 30 ملم طول: 0.5 متر، وزن : 3.5 كغ Alloy Steel (Bohler), Bar Size: 30 mm* 30 mm, Length: 0.5-meter, Weight: 3.5 kg	5
1	سبيكة الألمنيوم 2024 حسب المواصفة الأمريكية AISI 2024 as per American standard AISI مقطع مربع 30 ملم * 30 ملم طول 1 متر، وزن : 2.4 كغ Aluminum Square Iron Bar Size: 30 mm* 30 mm, Length: 1 meter , Weight : 2.4 Kg	6
1	سبيكة الألمنيوم سيلكون مغنيزيوم AlSiMg حسب المواصفة الأمريكية AISI AlSiMg as per American standard AISI مقطع مربع 30 ملم * 30 ملم طول 1 متر، وزن : 2.4 كغ AlSiMg Square Iron Bar Size: 30 mm* 30 mm, Length: 1 meter, Weight : 2.4 Kg	7



**The bidder is required to comply with the following terms and conditions:**

**- يشترط على العارض الالتزام بما يلي " شروط التقديم ":**

1. Must have a commercial register and a bank account and must submit a document in proof of aforementioned from the concerned authorities and departments.	1. أن يكون لديه سجل تجاري وحساب مصرفي، وعلى العارض تقديم وثيقة تثبت ذلك من الجهات والدوائر المعنية.
2. The bidder must have at least 3 years' experience with the submission of one similar project for the required work.	2. يجب أن يكون لديه خبرة لا تقل عن 3 سنوات مع تقديم مشروع مشابه للأعمال المطلوبة.
3. The technical offer should include; the country of origin, brand, and the production date of all industrial equipment "Machines".	3. على العارض بيان بلد المنشأ والماركة وسنة الصنع لجميع الآلات الصناعية ضمن عرضه.
4. All industrial equipment "Machines" should be at least 2018 production.	4. جميع الآلات الصناعية يجب أن تكون إنتاج 2018 كحد أدنى.
5. The bidder should mention all relevant accessories for each machine under the industrial equipment "machines".	5. يجب تحديد الملحقات المرفقة مع كل آلة بالنسبة للآلات الصناعية.
6. Technical offers that not includes catalogs and/or clear pictures with detailed explanations will be disqualified (this is specifically for the industrial equipment "machines").	6. العروض الفنية التي لا تشمل الكاتالوجات و/أو الصور التوضيحية مع الشرح المفصل للآلات الصناعية ستكون محل إستبعاد.
7. The bidder should source the targeted vocational training center with all catalogs, documents, and operation manuals for the industrial equipment "machines" upon delivery.	7. على العارض تزويد مركز التدريب المهني المستهدف بكافة الكاتالوجات والمخططات ودليل التشغيل للآلات عند التوريد و التركيب.
8. Spare parts should be available for the industrial equipment "machines".	8. قطع الغيار يجب ان تكون متوفرة للآلات الصناعية.
9. The bidder shall bear the responsibility for all the costs, risks and approvals necessary to enter and deliver the inputs.	9. على العارض تحمل مسؤولية كافة التكاليف والمخاطر والموافقات اللازمة حتى إدخال و تسليم المدخلات.
10. Warranty period is one year for all industrial equipment "machines".	10. مدة الضمان عام واحد لكافة الآلات الصناعية.
11. Execution period: 90 days starting from the date of signing or issuing the purchase order by the United Nations Development Programme in Syria.	11. مدة التنفيذ 90 يوم تبدأ من تاريخ توقيع أو إصدار أمر الشراء من قبل برنامج الأمم المتحدة الإنمائي في سورية.
12. Inputs are delivered within the city of Aleppo – Vocational training center Maysalon.	12. يتم تسليم وتركيب وتشغيل المدخلات ضمن مدينة حلب – مركز التدريب المهني في ميسلون.
13. The minutes of conformity of the specifications of the materials received shall be organized by the project team and a technical committee comprised of technicians and representatives of the concerned authorities in accordance with the above specifications. In the event of any violation of	13. يتم تنظيم محضر مطابقة المواصفات للمواد المستلمة من كادر المشروع ولجنة فنية يتم تشكيلها من الفنيين وممثلي الجهات المعنية وفق المواصفات المذكورة أعلاه وفي حال وجود أي مخالفة للمواصفات لا يتم الاستلام، كما أن التسليم سيتم ضمن أوقات الدوام الرسمي، واللجنة المحلية تعد مشرفة على عمليات الاستلام والتوزيع.

<p>the specifications, the inputs will not be received. Delivery is exclusively done within the official working hours and the local committee shall supervise the receipt and distribution process.</p> <p>14. 0.5% of the contract value shall be deducted per each day of delay provided that the delay shall not exceed 15 days.</p> <p>15. The value of the item shall not be disbursed if any content is violated.</p> <p>16. Payment shall be made in one lump sum upon receipt of the machines, tools, and materials and according to the quantities specified in the book of conditions.</p> <p>17. The project is entitled to return the inputs that do not conform to the specifications within 48 hours from the date of receipt and the bidder must change them and add them to the subsequent payment.</p> <p>18. All contracting procedures shall be in accordance with the regulations of the United Nations Development Programme in Syria.</p>	<p>14. يتم خصم 0.5% عن كل يوم تأخير من قيمة العقد على أن لا تتجاوز مدة التأخير أكثر من 15 يوم.</p> <p>15. لا يتم صرف قيمة البند في حال مخالفة أي محتوى فيه.</p> <p>16. يتم الصرف على دفعة واحدة عند استلام الآلات والمعدات والمواد وحسب الكميات المحددة في دفتر الشروط.</p> <p>17. يحق للمشروع إعادة المدخلات التي لا تطابق المواصفات خلال 48 ساعة من تاريخ الاستلام وعلى العارض تبديلها ووضافتها للدفعة اللاحقة.</p> <p>18. جميع إجراءات التعاقد ستتم وفق أنظمة برنامج الأمم المتحدة الإنمائي في سورية.</p>
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## Section 5b: Other Related Requirements

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

Delivery Term [INCOTERMS 2010] (Pls. link this to price schedule)	DAP
Exact Address of Delivery/Installation Location	Vocational Training Center in Maysalon- Aleppo City
Mode of Transport Preferred	N/A
UNDP Preferred Freight Forwarder, if any <sup>2</sup>	N/A
Distribution of shipping documents (if using freight forwarder)	N/A
Customs, if required, clearing shall be done by:	N/A
Ex-factory / Pre-shipment inspection	N/A
Inspection upon delivery	According to the technical specifications
Installation Requirements	According to the technical specifications
Testing Requirements	According to the technical specifications
Scope of Training on Operation and Maintenance	According to the technical specifications
Commissioning	According to the technical specifications
Warranty Period	12 months
Local Service Support	According to the technical specifications
Technical Support Requirements	According to the technical specifications
After-sale services Requirements	According to the technical specifications
Payment Terms (max. advanced payment is 20% as per UNDP policy)	<input checked="" type="checkbox"/> Payment shall be made in one instalment: within 30 days from the date of completion of supply and installation and acceptance of the items.
Conditions for Release of Payment	<input checked="" type="checkbox"/> Written Acceptance of Works based on full compliance with ITB requirements
All documentations, including catalogues, instructions and operating manuals, shall be in this language	English. Official Papers are accepted in Arabic

<sup>2</sup>A factor of the Incoterms stipulated in the ITB. The use of a UNDP preferred freight forwarder may be considered for purposes of ensuring forwarder's familiarity with procedures and processing of documentary requirements applicable to UNDP when clearing with customs authority of the country of destination.

## Section 6: Returnable Bidding Forms / Checklist

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

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

### Technical Bid:

<b>Have you duly completed all the Returnable Bidding Forms?</b>	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
▪ Form G: Form of Bid Security	
▪ [Add other forms as necessary]	<input type="checkbox"/>
<b>Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?</b>	<input type="checkbox"/>

### Price Schedule:

▪ Form F: Price Schedule Form	<input type="checkbox"/>
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## Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP-SYR-ITB-116-19		

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

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

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

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

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

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

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

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

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

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

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

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

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

*[Stamp with official stamp of the Bidder]*

## Form B: Bidder Information Form

<b>Legal name of Bidder</b>	[Complete]
<b>Legal address</b>	[Complete]
<b>Year of registration</b>	[Complete]
<b>Bidder's Authorized Representative Information</b>	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Are you a UNGM registered vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, [insert UGNM vendor number]
<b>Are you a UNDP vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, [insert UNDP vendor number]
<b>Countries of operation</b>	[Complete]
<b>No. of full-time employees</b>	[Complete]
<b>Quality Assurance Certification (e.g. ISO 9000 or Equivalent)</b> <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
<b>Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment?</b> <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
<b>Does your Company have a written Statement of its Environmental Policy?</b> <i>(If yes, provide a Copy)</i>	[Complete]
<b>Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues</b>	[Complete]
<b>Is your company a member of the UN Global Compact</b>	[Complete]

<b>Contact person that UNDP may contact for requests for clarifications during Bid evaluation</b>	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Please attach the following documents:</b>	<ul style="list-style-type: none"> <li>▪ Company Profile, which should not exceed fifteen (15) pages, including.</li> <li>▪ Printed brochures and product catalogues or clear pictures relevant to the machines and equipment being procured, with detailed technical specifications with specifying the manufacturer's name, the country of origin (manufacture), and the brand, and the production date of all industrial equipment "Machines" to be supplied and installed.</li> <li>▪ Valid Certificate of Incorporation/ Business Registration.</li> <li>▪ Documented timetable for delivery of the items of the contract meets the required execution period.</li> <li>▪ A proofing letter confirms the offering of the warranty period for 12 months from the date of completion of delivery and final receipt.</li> <li>▪ List and value of projects performed with similar in value, nature and complexity (at least one projects), plus client's contact details who may be contacted for further information on those contracts.</li> <li>▪ Latest Audited Financial Statements (Income Statement and Balance Sheet) including Auditor's Report for the past (3 years).</li> </ul>

## Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP-SYR-ITB-116-19		

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 <i>(address, telephone numbers, fax numbers, e-mail address)</i>	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

<b>Name of leading partner</b> (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
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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 UNDP for the fulfillment 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 D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP-SYR-ITB-116-19		

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

### History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last			
<input type="checkbox"/> 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)

<input type="checkbox"/> No litigation history for the last 3 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		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 5 years.

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

Project name & Country of Assignment	Client & Reference Contact Details	Contract Value	Period of activity and status	Types of activities undertaken

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	Year	USD
	Year	USD
	Year	USD
Latest Credit Rating (if any), indicate the source		

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

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

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

## Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP-SYR-ITB-116-19		

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

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

- 1.1 General organizational capability which is likely to affect implementation: management structure, financial stability and project financing capacity, project management controls, extent to which any work would be subcontracted (if so, provide details).
- 1.2 Relevance of specialized knowledge and experience on similar engagements done in the region/country. At least two debris/solid waste removal projects. The Bidder should submit a detailed description of the projects executed (quantities, value, beneficiary, and a performance assessment by the beneficiary including the latter's contact details)
- 1.3 Bank account, and a commercial registration certificate, and a document of authentication from the concerned authorities.
- 1.6 Document confirming the ownership of the vehicles or renting them.

### 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.

- 2.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 2.2 Explain whether any work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 2.3 Implementation plan including a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.

Goods and services to be Supplied and Technical Specifications	Your response				
	Compliance with technical specifications		Delivery Date <i>(confirm that you comply or indicate your delivery date)</i>	Quality Certificate /Export Licenses, etc. <i>(indicate all that apply and attach)</i>	Type no. & Country of Origin
	Yes, we comply	No, we cannot comply <i>(indicate discrepanc ies)</i>			
Required Works الأعمال المطلوبة	Offered Works الأعمال المقدمة				

**Pleas fill out the attached Format of technical bid  
In Annex. 1**

### SECTION 3: Management Structure and Key Personnel

- 3.1 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.
- 3.2 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

<b>Name of Personnel</b>	[Insert]
<b>Position for this assignment</b>	[Insert]
<b>Nationality</b>	[Insert]
<b>Language proficiency</b>	[Insert]
<b>Education/ Qualifications</b>	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i> [Insert]
<b>Professional certifications</b>	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i> <ul style="list-style-type: none"><li>▪ Name of institution: [Insert]</li><li>▪ Date of certification: [Insert]</li></ul>
<b>Employment Record/ Experience</b>	<i>[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.]</i> [Insert]
<b>References</b>	<i>[Provide names, addresses, phone and email contact information for two (2) references]</i> 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 F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP-SYR-ITB-116-19		

The Bidder is required to prepare the Price Schedule following the below format. 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.

**Pleas fill out the attached Format of Price Schedule  
In Annex. 2**

## FORM G: Form of Bid Security

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

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To: UNDP  
*[Insert contact information as provided in Data Sheet]*

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

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

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

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

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

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

### SIGNATURE AND SEAL OF THE GUARANTOR BANK

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

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

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

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

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

Address \_\_\_\_\_

*[Stamp with official stamp]*