**Tender Submission Form**

**Tender for the components of the Arc-Sputter Combined PVD Equipment**

**(Ref: ITF-ESS-001)**

***Closing Date: 28th February 2018 at 12:00 noon***

To: Genearl Manager

Techmart Industrial Ltd

Unit B, 6th Floor

Howard Factory Building

66 Tsun Yip Street

Kwun Tong, Kowloon.

I/We, the undersigned, acknowledge for myself/ourselves and the firm and partners therein/Limited Company hereunder mentioned the Techmart Industrial Limited TERMS OF TENDERS, GENERAL CONDITIONS OF CONTRACT and do hereby agree to supply all or any portion of the articles and services mentioned in the Schedule, which may be ordered by Techmart, at the prices quoted in the said Schedule, for delivery on or before the date mentioned in the said Schedule free of all other charges subject to and in accordance with the TERMS OF TENDERS and the GENERAL CONDITIONS OF CONTRACT and (if any) the Special Conditions of Contract on the appendix attached hereto.

I/We certify that we have not (a) communicated to a person other than the person calling for these tenders the amount or approximate amount of the proposed tender, except where the disclosure, in confidence, of the approximate amount of the tender was necessary to obtain insurance premium quotations required for the preparation of the tender; (b) entered into any agreement or arrangement with any other person that he shall refrain from tendering or as to the amount of any tender to be submitted; (c) offered or paid or given or agreed to pay or give any sum of money or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to any other tender or proposed tender for the said work any act or thing of the sort described above.

I/We, the undersigned, for myself/ourselves and the firm and partners therein/Limited Company hereunder mentioned hereby warrant that the sale and/or supply of the Scheduled goods/services or any of them by me/us/the said firm/Limited Company will not infringe any patent in respect thereof registered under the Patents Ordinance (Chapter 514) and that My/Our Business Registration and Workmen's Compensation Policy are currently in force.

This tender is submitted with the authority and on behalf of:- **Company Chop**

|  |  |
| --- | --- |
| Company Full Name |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Business Registration No.  ***(attach BR copy)*** |  | | |
| Registered Address |  | | |
| Contact Telephone No. |  | Fax No. |  |
| E-mail Address |  | | |
| Signature of Tenderer |  | | |
| Name of Tenderer  (in Block Letter) |  | | |

Name of Partner(s) and Residential Address(es)\*

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\*Applicable to unincorporated company only.

1. **Compliance of Mandatory Requirements**

**Detailed Specifications of the Novel Arc-Sputter Combined PVD Equipment   
to be developed by Techmart Industrial Limited under the ESS project**

1. Chamber Shape: rectangular
2. Inside Dimensions: approx. >= 580mm X 580mm X 600 mm
3. Vacuum Flanges: 6 for the coating sources
4. Vacuum System: 1 turbo pump and 1 vacuum pump system
5. Substrate Rotation Facility: rotary table of dia 380 mm x height 450mm
6. Coating Sources: >= 6 (3arcs and 3suptters or 4arcs and 2 suptters)
7. Electrical Heater System: temperature > 700°C
8. Pressure Range (vacuum): ranging from 5E-5 mbar to 1bar
9. Temperature Range (coating chamber): ranging from room temperature to 500 degree Celsius
10. Power Range: ranging from 0 to 30 Kw
11. Mechanism of Switching Sources: the switching will be controlled by the power suppliers of the   
    sources, and the power supplies will be controlled by programmable logic controller (PLC) with PC interface. The PC must in window base with SDRAM 256G or above and have internet connection.
12. The machine should work with the materials by elemental range as targets for sputter and arc: target for sputter includes: chromium, aluminum, molybdenum, silicon; target for arc includes: aluminum silicon (88:12), aluminum chromium (70:30), titanium boron (96:4), aluminum chromium boron (58:32:10), aluminum chromium silicon (52:40:8), aluminum chromium tungsten (65:30:5), aluminum titanium silicon (48:47:5), titanium chromium (50:50). Please list the price separtley and we will purchase the targets in separate order.
13. Accessible gases to the equipment and the range of volume flow: accessible gases to the   
    equipment are argon, nitrogen and C2H2 the volume flow is ranging from 0 ~500 standard conditions cubic meter (sccm).
14. Throughput and sample loads: i.e. maximum number and weight of substrates to be coated in   
    each batch: for Diameter 6mm with length 50mm end mill 200 pieces of cutting tools can be coated in the equipment chamber in a single batch;
15. Average range of 2D/3D coating thickness per area per time: the growing rate of the coating is   
    estimated to be 2 micrometers per hour; the thickness of the coating is ranging from 1 to 3   
    micrometer

Prepared by Accepted by

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*(Sign & Chop) (Sign & Chop)*

1. **Information to be Provided by the Supplier. A total score of 100 will be assigned in this Section. The passing mark is 60. Only tender(s) getting at least 60 marks will be considered further.**
2. Supplier profile供應商履歷 (35 marks) (35分)

1. Client profile / past reference (40 marks) 客戶履歷/過往參考資料 (40分)
2. Project Management (25 marks)

項目管理 (25分)

1. **Tender Evaluation**
   1. A total score of 100 is assigned to “Section 3 Information to be provided by the Supplier”. Tender with scores less than 60 or failing in any attribute may be regarded as unsuccessful and may not be considered further.
   2. The technical to fee assessment weight will be 40% and 60% respectively.

Example of the calculating method is as follows:

Scores obtained in Technical Proposal: 80

Fee offered in Fee Proposal: HK$1,200,000 (which is the 2nd lowest; the lowest is HK$1,000,000)

Technical Proposal 80 scores x 40% = 32

Fee Proposal HK$1,000,000/HK$1,200,000 x 60 = 50

Total scores obtained: 32 + 50 = 82

* 1. In principle, Techmart may select one tender with the highest total scores from technical proposal and fee proposal. However, Techmart reserves the right to accept the whole or part of the tender and is not bound to accept the highest scores or any tender.

1. **Tentative Schedule**

### It is a tentative schedule of the tender process. However, Techmart reserves the right to change the schedule to suit its operation need.

| Items | Tentative Schedule |
| --- | --- |
| Tender Closing | 12:00 noon 28Feb 2018 |
| Tender Evaluation | Early Mar 2018 |
| Tender Award / Issue Purchase Order | Mid Mar 2018 |
| Delivery Time | Late Jun 2018 |

1. **All documents / materials submitted to Techmart will not be returned.**