

REGISTERED/ IMMEDIATE
Heavy Industries Taxila
Project Dte ARDIC
Taxila Cantt
Tel: 051-9315450
Fax: 051-9315151
5646/ IT- 18/Proc/AR
07 Feb 2019

To: M/s _____

Subject: **Tender Inquiry of Electronic Assemblies for Image Tracking**

Dear Sir,

1. You are requested to please forward your offer for the following:-

Ser #	Nomenclature	A/U	Qty	Remarks
1.	<p>Jetson AGX Xavier Developer Kit</p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> a. GPU : 512-core Volta GPU with Tensor Cores b. CPU : 8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3 c. Memory: 16GB,256-Bit LPDDR4x 137GB/s d. Storage : 32GB eMMC 5.1 e. DL Accelerator : (2x) NVDLA Engines f. Vision Accelerator: 7-way VLIW Vision Processor g. Encoder/Decoder: (2x) 4Kp60 HEVC/(2x) 4Kp60 12-Bit Support h. Size 105 mm x 105 mm j. Deployment Module: (Jetson AGX Xavier) k. Developer Kit I/Os : Jetson AGX Xavier Module Interface l. PCIe X16: x8 PCIe Gen4/x8 SLVS-EC m. RJ45: Gigabit Ethernet n. USB-C: 2x USB 3.1, DP (Optional), PD (Optional) Close-System Debug and Flashing Support on 1 Port o. Camera Connector: (16X) CSI-2 Lanes p. M.2 Key: M NVMe q. M.2 Key: EPCIe x1 + USB 2.0 + UART (for Wi-Fi/LTE) / I2S / PCM r. 40-Pin Header: UART + SPI + 	Nos	01	

	<p>CAN + I2C + I2S + DMIC + GPIOs</p> <p>s. HD Audio Header: High-Definition Audio</p> <p>t. eSATAp + USB3.0: Type A SATA Through PCIe x1 Bridge (PD + Data for 2.5-inch SATA) + USB 3.0</p> <p>u. HDMI Type: A/eDP/DP HDMI 2.0, eDP 1.2a, DP 1.4</p> <p>v. USD/UFS Card Socket: SD/UFS</p> <p>x. Operating Temperature : - 20°C - +60°C</p>			
2.	<p>High-end Computing Platform for Image Tracking in lab environment</p> <p>Specification:</p> <p>a. Gigabyte Z370XP SLI Motherboard</p> <p>b. Intel i7 8th generation CPU</p> <p>c. 32GB DDR4 RAM</p> <p>d. 512GB SSD (Kingston / Samsung / Western digital or equivalent)</p> <p>e. 600Watt power supply</p> <p>f. Casing Cooler Master with available space for two GPU Processor Fan</p> <p>g. Other accessories (Power cord etc.)</p> <p>h. NVIDIA TITAN XP(2017) GRAPHICS CARD or equivalent</p> <p>j. GPU Engine Specs</p> <p>i. NVIDIA CUDA Cores 3840</p> <p>ii. Boost Clock(MHz) 1582</p> <p>k. Memory Specs</p> <p>i. Memory Speed 11.4 Gbps</p> <p>Standard Memory Config 12 GB GDDR5X</p> <p>ii. Memory Interface Width 384 bit</p> <p>iii. Memory Bandwidth (GB/sec) 547.7GB/s</p> <p>l. Technology Support</p> <p>i. NVIDIA GPU Boost 3.0</p> <p>ii. OS Certification Windows 7-10, Linux</p> <p>m. Display Support</p> <p>i. Maximum Digital Resolution</p>	Nos	01	

	7680x4320 ii. Standard display Connectors DP 1.4, HDMI 2.0b n. Operating Temperature : - 20°C - +60°C			
3.	Electrical Slip-Rings For 360 Degree Rotating Turret Specification: a) Supports modern data communication technologies (RS422, RS232, ETHERNET, USB 3.0) b) Ports required (2x GigabitEthernet, 2x USB3.0, 2x Serial Port,, 1xVGA, 1xHDMI, 4xPower cables60 amp, 4xPower cable 30Amp) c) Full environmental sealing capabilities d) EMI shielding available e) Gold-on-gold contacts for signal and data integrity f) Meets military shock and vibration requirements(MIL SPECIFICATION 810E AND 810F) g) High frequency coax channels available h) Through-bore design(3 INCHES) j) Vertical integration with resolvers, fiber optics, Ethernet motors, electroptic(ip day camera, ip TI, Laser range finder) k) High speed data capabilities l) Operating Temperature : - 20°C - +60°C	Nos	01	

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(Items Three Only)

2. Rates will be quoted on **FOR Taxila Cantt** basis. Offer maximum discount while submitting your quotation.
3. Over writing and cutting of any nature in the quotation will not be accepted.
4. Please forward your quotation not later than **22 Feb 2019** at 10:30 hours. The address on the envelope will be indicated as under:-

QUOTATION

TENDER INQUIRY NO. **5646/IT-18 /Proc/ARDIC dated 07 Feb 2019**

TO BE OPENED ON. **22 Feb 2019**

To: PROCUREMENT OFFICER
ARDIC HIT TAXILA CANTT

FROM M/S _____
IT FOR _____

5. Part-I and Part-II quotations will be enclosed in separate sealed envelopes for each tender inquiry. For identification purpose, the words "**TECHNICAL QUOTATION PART-I WITHOUT PRICE**" and **COMMERCIAL**

QUOTATION (PART-II) WITH PRICE shall be written in BLOCK CAPITAL LETTERS on the respective sealed envelopes which will be placed in a large envelope.

6. **Delivery of Tender:** The tender/quotation will be enclosed in sealed cover which will invariably be marked with quotation against tender inquiry no. **5646/IT- 18 /Proc/ARDIC dt 7 Feb 2019** and complete address. The tender if brought by hand, will be handed over to security staff on duty at

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ARDIC Gate for placing the same in quotation box (available at gate). The quotation will not be brought by hand by any firm while visiting the office of Proc officer (ARDIC).

7. If required endorsements are not made on the envelope, quotation is liable to be disqualified. The quotation will be opened on **22 Feb 2019** at 1100 hours in the presence of the available representative of the firms in ARDIC HIT Taxila Cantt. **No quotation will be entertained / considered after 1030 hours**, on the aforementioned date.

8. The stores/repair, services work are required to be delivered at Taxila Cantt within **15** days or as indicated in order from the date of issuance of order.

9. Please indicate full details (specification, manufacturers etc) of the stores offered in your quotation. If required details are found missing, the quotation will automatically stand disqualified and rejected.

10. The stores/services should conform to prescribed specification/sample as provided by this office.

11. The store will be packed in standard grade worthy of transportation by the means adopted.

12. This inquiry may not be taken as an indication of subsequent supply order and does not in any way commit HIT to purchase the items offered.

13. In case of failure to supply the stores within stipulated period, liquidated damages at the rate of 2% but not less than 1% of amount involved per month or a part there-of will be levied.

14. In case of any dispute regarding the terms and conditions and the quality of stores, the decision of the Chairman HIT will be considered as final binding on the suppliers/ firms.

15. In case your firm fails to execute the order within the stipulated time and does not materialize the supply of ordered stores, the supply order/contract will be canceled at firm's risk and expense. Expense/expenditure incurred on the repurchase of offered stores will be recovered from your firm under existing procedures.

16. Indenter/purchaser reserves the right to increase/decrease the quantity of items, placed on the tender without any reference to the firm.

17. Payment will be made by the CMA HIT Taxila Cantt against Pre receipted bill (duly affixed with revenue stamp) along with Professional Tax Certificate/copy of Active Taxpayer List showing name of the firm downloaded from FBR website (attested copies) after delivery and acceptance of stores.

18. All clauses/terms mentioned in this inquiry will be considered accepted by the firm in case no reference to them is given in the offer.

19. Offers must remain open valid for 100 days from the date of opening of the tender.

20. THE PRICES QUOTED MUST BE FIRM AND FINAL AND INCLUSIVE OF ALL TAXES, PACKING, HANDLING CHARGES ETC AND DELIVERY AT HIT TAXILA CANTT.

21. Part payment against partial delivery is not allowed.

22. **Postal order for Rs. 200/- (Rupees Two Hundred) as a tender fee, in favor of MD (ARDIC)** HIT Taxila Cantt will invariably be enclosed with the quotation, failing which, the quotation will be ignored.

23. Firms are instructed NOT to send Telex and Fax quotations. Such quotation/offers will NOT be accepted.

24. On demand, the bidder will invariably provide advance sample of the item offered by them within the limit specified by the purchaser. In case advance samples are not provided by due date, their offer will be set-aside/ignored.

25. 5% security deposit (of contract value) will be provided by the firm on receipt of the contract. The same will be released after one year from the date of delivery and acceptance of stores/repair work.

26. Inspection of the store/repair work will be carried out at HIT Taxila Cantt.

27. Please confirm 12 x months Warranty Period for the offered items from the date of materialization of supply.

28. Th firm will be responsible for all Taxes/duties/NOCs, transportation and port handling charges upto Taxila.

29. **All Registered / Unregistered firms with HIT, can participate in the tender inquiry by depositing of 5% Bid/earnest money of the total value of indent/contract. In case of non provision of 5% Bid/earnest money the firm's offer will be rejected. IT document can be downloaded from PPRA and HIT website www.hit.gov.pk.**

30. Only those registered suppliers, who are on Active Taxpayers List (ALT) of FBR are eligible to quote and supply goods/services to Govt department.

SA
Proc Officer
(Muhammad Aleem Ahsan)