

**PAKISTAN AERONAUTICAL COMPLEX, KAMRA  
AIRCRAFT MANUFACTURING FACTORY  
TENDER NOTICE**

Tender No. AMF/2901/A/LOG (PC- 25) Dated

20 October, 2020.

**TO BE OPENED ON 09 November, 2020**

**TENDER INQUIRY :- (25)**

1. Sealed tenders are invited from sales tax registered Suppliers who are on Active Taxpayers List (ATL) of FBR for the Purchase / Repair of the following items: -

<b>S No</b>	<b>Part Number</b>	<b>Noun</b>	<b>U/I</b>	<b>Req Qty</b>	<b>Remarks/ Specifications</b>
1.	6350/PK-000-1270	WALK THROUGH GATE METAL DETECTOR WITH ACCESSORIES	EA	02	

2.	NEZ-5230-IRCW4	PT2 IP CAMERA 2MP DAY AND NIGHT VIEW IR	EA	03	<p>Minimum 2 mega pixel resolution, variable frame rate minimum 25 fps streaming, minimum 30x optical zoom lens (403 mm ~ 129 mm) (F1.6 ~ F5.0), 16X digital zoom or more, min illumination 0.0 lux, more than 180 mtrs IR range, network protocol Ipv4/6-TCP/IP, UDP,HTTP,HTTPS,RTP,RTSP,DHCP,ICMP,FTP,SMTP,Iscsi,APPA,NTP,ARP,SNMPv1/v2c/v3, DDNS, UPnP, CHAP, digest access authentication, web viewer internet explorer Google chrome firefox encryption: TLS 1.0 SSL,DES, 3DES, H.264 / MPEG-4 /MJPEG/H.265 Multiple streams intelligent video analytics tampering virtual line, enter / Exit appear, face detection. Network disconnection, 360° Endless pan, Tilt/Zoom WDR, Defog, IP66, Open protocol ONVIF supported, SD Memory slot, weatherproof housing &amp; mounting kit, standard power supply, 24 VAC, POE. Compatible with Luxriot VMS. Firmware remotely programmable. Warranty:03 years replaceable. Parts availability: 05 years.</p>
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3.	1GS-1002-OPT	8 PORT POE 12 SFP NETWORK SWITCH ALONG SWP MOULES	EA	02	<p><b>SPECS:</b></p> <p><b>1: Physical Ports</b> Gigabit combo ports with with 10/100/1000base-T(X) and 100/1000 base –X SFP port with 02 SFP modules, 20 KM.</p> <p>10/100Base-T(X) ports in RJ45 Auto mdix with P.S.E, P.O.E</p> <p><b>2: Technology</b> Ethernet standards IEEE802.3 for 10Base-T. IEEE802.3u for 100Base-TX and 100Base-FX IEEE802.3z for 1000 Base-X IEEE802.3ab for 1000 Base-T IEEE802.3x for flow control IEEE802.ad for LCAP (link aggregation control protocol) IEEE802.1D for STP (Spanning Tree Protocol) IEEE802.1P for COS (Class of service) IEEE802.1Q for VLANT aging IEEE802.1w for RSTP (Rapid Spanning Tree Protocol)</p> <p>IEEE802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE802.1x for Authentication. IEEE802.1AB for LLDP (Link Layer discovery protocol) IEEE802.3af PoE Specification (upto 15.4 Watts per port for P.S.E)</p> <p><b>MACTable:</b> 8192MAC addresses.</p> <p><b>Priority Queues:</b> 04</p> <p><b>Processing:</b></p>
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Store and forwarded.

**Switch Properties:**  
Switching latency : 7 us.  
Switching bandwidth: 5.6 GB ps.  
Max number of available VLANs: 4096.  
IGMP multicast groups : 1024  
Port rate limiting : User Define.

**Security Features:**  
Enable/disable ports, MAC based port security.  
Port based network access control (802.1x)  
VLAN(802.1Q) to segregate and secure network traffic.  
Supports Q-in-QVLAN for performance & security to expand the VLAN space.  
Radius centralized password management.  
SNMP v1/v2c/v3 encrypted authentication and access security.

**Software Features:**  
STP/RSTP/MSTP (IEEE802.1d/W/S)  
Redundant Ring (Sys-Ring) with recovery time less than 10ms over 250 units.  
TOS/Diff serv supported  
Quality of service (802.1Q) with VLAN tagging and GVRP supported.  
IGMP Snooping for multi cast filtering.  
Port configuration, status, statistics, monitoring, security.  
SNTP for synchronizing of clocks over network.  
Support PTP Client (precision time protocol) clock

					<p>synchronization.  DHCP Server / client support.  Port trunk support.  MVR (Multicast VLAN Registration) support  Modbus TCP.  <b>Warnig / Monitorig</b>  Relay output for fault event alarming.  <b>System:</b>  Syslogserver/client  Included SMTP for event warning notification via email.  Event selection support.  Warranty:03 years  replaceable warrany.j  90</p>
4.	OFC/SPLICING/AMF	OFC SPLICING MACHINE WITH COMPLETE ACCY AND TOOL	EA	01	<p>Specs:  Fusion splicer  Applicable fibers  Single mode (G.652 &amp; G.657), Multimode (G.65.1), DS (653), CS (G.654, NZDS(G.655 &amp; G.656) and erbium-doped fiber.  1: <b>Cladding diameter</b>  80 -150µm  2: <b>Coating Diameter</b>  100µm to 3000 µm  3: <b>Fiber Cleave Length</b>  5 to 16mm  4: <b>Typical Average Splice Loss</b>  0.02 DB WITH sm,  0.01 DB with MM,  0.04 DB WITH DS,0.04DB with NZDS, measured by cut-back method relevant to ITU-T standards.  5: <b>Splicing Time</b>  ULTRA FAST mode-6 seconds; SM FAST mode-7 seconds; SM AUTO mode-10 seconds; AUTO mode-15 seconds with SM fiber.  6: <b>ARC Calibration Method</b></p>

					<p>Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available.</p> <p><b>7: Splicing Modes</b> 100 Preset and user programmable modes.</p> <p><b>8: Splice Loss Estimate</b> Based upon dual camera core axis alignment data.</p> <p><b>9: Storage Of Splice Result</b> Last 2000 results stored in the internal memory.</p> <p><b>10: Fiber Display</b> X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation.</p> <p><b>11: Magnification</b> 320X for single X or Y view, or 200X for X and Y view.</p> <p><b>12: Viewing Method</b> Dual cameras with 4.7 inch TFT color LCD monitor.</p> <p><b>13: Operating Condition</b> 0 to 5000 m above sea level, 0 to 95 RH and -10 to 50°C respectively.</p> <p><b>14: Mechanical Proof Test</b> 1.96 to 2.25N</p> <p><b>15: Tube Heater</b> Built-in tube heater with 30 heating modes; auto-start function.</p> <p><b>16: Tube Heating Time</b> Typical 13 seconds with FP-03sleeve, 17 seconds with FP3 (40), 5-16 seconds with Fujikura micro sleeves.</p> <p><b>17: Protection</b></p>
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					<p><b>Sleeve Length</b> 60 mm, 40 mm, micro.</p> <p><b>18: Splice/Heat Cycles With Battery</b> Typical 200 cycles with power save functions activated.</p> <p><b>19: Electrode Life</b> 5000 Arc Discharges</p> <p><b>20: Power Supply</b> Auto voltage selection from 100 to 240 V AC or 10 to 15 V DC with ADC-18, 14.8 V DC with BTR-09 battery.</p> <p><b>21: Terminals</b> USB 101(USB-B type) for PC communication. Mini-DIN (6-pin) for HJS-02/03.</p> <p><b>22: Wind Protection</b> Maximum Wind velocity of 15 m/s.(34 mph).</p> <p><b>23: Dimensions</b> 146 W x 159 D x 150 H (mm) / 5075 W x 6.25 D x 5.9 H (inches)</p> <p><b>24: Weight</b> 2.5 kg (5.5 lbs) with AC adapter ADC-18; 2.7 kg (5.95 lbs) with BTR-09 battery.</p>
5.	CD2367	FIRST AID BOX	EA	05	
6.	10G/AMF-129	REPEATOR	EA	02	<p><b>Scope Of Work</b></p> <p>Intermittent operatio during transmission / receipt ion.</p> <p><b>REPAIR</b></p>
7.	NEZ-5230-IRCW4	PT2 IP CAMERA 2MP DAY AND NIGHT VIEW IR	EA	02	<p><b>Scope of work</b></p> <p>Both ptz cameras display intermittent and move automatically without command.</p> <p><b>REPAIR</b></p>
8.	BP/G/AMF-001	SECURITY PROTECTIVE SHEET (2X3 FEET) WITH FRAME	EA	04	

9.	1.5N3000/1300INCON EL	N-TYPE THERMOCOUPLE	EA	10	CENTRAL LAB
10.	EU-2K	THERMOCOUPLE WIRE K-TYPE	MTR	500	CENTRAL LAB

## 2. Pattern of Quotations

The quotation shall comprise a single package containing 02 separate envelopes. Tender reference along with due date of opening must be clearly marked. Each envelope shall contain separately, the financial proposal and the Technical proposal respectively. Each bid (financial / technical) shall be on separate leaf against single line item, envelope cover must be marked with "Item name", addressed to Managing Director AMF, PAC Kamra as per terms given below:-

(a) **Technical Offer:** It should be without prices and contain all relevant essential specifications along with literature / brochures. Tender number, date of opening and word (**Technical offer**) should be clearly marked. The tendered Part No. should be mentioned against quoted item / offer. Any details of equivalent / variables being quoted should be clearly mentioned against Part No. being tendered. **NSN / OEM Part no.** should be mentioned on both technical and commercial quotations. All quoted products must have traceable local / foreign OEM. **Country / place of manufacture / OEM** of stores is to be provided along with Technical / Commercial offer. **CERTIFICATE OF CONFORMANCE (CoC), TECHNICAL DATA SHEETS (TDS) and MATERIAL SAFETY DATA SHEETS (MSDS) along with any other relevant literature by OEM** are must for all AVIATION ITEMS, MATERIALS AND EQUIPMENTS.

All precision measuring equipment must be quoted with provisioning of fresh **calibration certificate**. Spectrometric analysis report against raw material / hard ware items may be required to establish conformity of delivered product. All Chemicals, lubricants and any item of shelf life range must be quoted with provisioning of MSDS along with fresh **laboratory test reports** against corresponding LOT no., Batch no., Date of Production, Date of Expiry of delivered stores.

[**PART CATALOGUES, IPBs (illustrated part books), USER GUIDES, OPERATING / maintenance MANUALS, BROCHURES, PRICES**] which ever available / applicable would be provided free of cost along with delivered stores. In case of **Unit of issue** being Quoted other than which has been tendered, conversion formula is to be mentioned, AMF will conclude all transaction formalities (vetting, approval, placement of order, receipt of stores and subsequent payment) as per tendered / published Unit of Issue.

All cyber range products must be of **branded origin and without vPro technology, ivy / sandy bridge processors**. Confirmation to this effect is to be furnished by written certificate along with quotation. License keys, activation / access passwords and source codes are to be provided along with all software whether purchased individually or as a part of any system/equipment or machinery.

(b) **Financial Offer:** It should indicate price of quoted item (**to be delivered at AMF, KAMRA premises with all liabilities on Suppliers**) and confirmation to the terms and condition of AMF tender inquiry. The words "**Financial offer**" should be clearly marked. The Quoted prices are to be exclusive of GST levied by the Government and these should be in accordance with the current Local market prices. GST must be mentioned separately.

All other charges must be incorporated in offered price. Rates must be mentioned in both "words" and "figures". Following documents must accompany financial offer:-

- (1) **Proof of being on ACTIVE TAXPAYERS LIST**
- (2) **Sales tax registration certificate**



(3) **NTN certificate**

(4) **Professional Tax certificate of the province where the contract is being concluded as per MAG letter No 54/AT/S/1687-Vol-XXVII/P-29 dated 22 April, 2013 and Taxation department Punjab letter No SO (TAX) 1-33/77(P-IV) date 28 August, 2003.**

(5) **Any specific SRO / Tax exemptions if applicable must be notified along with commercial offer.**

(c) **Bid Money / Earnest Money:** The registered / unregistered firm with PACB (Pakistan Aeronautical Complex Board, Kamra) will have to furnish **earnest money @ 5%** of the quoted value through **crossed Cheque / bank draft** in favor of **PUBLIC FUND ACCOUNT AMF PAC Kamra**. The earnest money instrument should indicate Tender reference and firm/company name. In case where the exact Quantity has not been mentioned the earnest money should be calculated against MOQ / market available standard OEM packaging. The exact bid money in this scenario will have to be furnished within 01 week of intimation of being technically accepted, lowest financial bidder. The confirm purchase order will be furnished upon receipt of earnest money. Earnest money of bidders backing out of submitted quote or failing to provide in time delivery will be forfeited along with initiation of disciplinary actions.

3. **Quantity can be increased / decreased at the time of order as per AMF requirement without change of financial quotations. Bids once submitted will not be allowed to be changed and will be binding on suppliers for delivery of stores if purchase order is furnished, however, clarifications may be sought.**

4. **Validity of offer**

The quotation should be valid for minimum **90 days, extendable on request.**

5. **Delivery Period**

**Items are to be delivered at AMF, PAC KAMRA premises with all liabilities on Suppliers.** Stores are required within minimum possible delivery period. Offer with minimum delivery period are likely to be preferred. However, the delivery period should be factual as no subsequent extension will be granted except under extreme / un-avoidable circumstances. **Delivery period will invariably start from furnishing of written (provisional / firm) purchase order whichever is earlier.** Delivered stores must be in **standard packing** (free of any separate cost).

Delivery of items shall be strictly made as per timeline mentioned in purchase order. In case of failure AMF reserves the right to cancel any PO.

6. **Acceptance of Stores / General Terms & Conditions**

(a) **CERTIFICATE OF CONFORMANCE, TDS and MSDS BY OEM IS MUST FOR ALL AVIATION ITEMS, MATERIALS AND EQUIPMENTS.**

(b) All precision measuring equipment must accompany fresh **CALIBRATION CERTIFICATE either from OEM or any certified credible facility..**

(c) All Chemicals, lubricants and any item of shelf life range must accompany **MSDS** along with fresh **laboratory test reports against corresponding LOT no., Batch no., date of production, date of expiry of delivered stores.**

(d) In case of lified items the remaining shelf life must be atleast 75 % at the time of delivery.

(e) Stores will be accepted after inspection by concerned user / Quality Control Directorate as per QMS of AMF.

(f) Supplier will be made responsible for **warranty / guarantee** of purchased items if required. In case of rejection of item on receipt or any defect / anomaly found within warranty period whether before use or while in use, the supplier will provide free of cost replacement at AMF Kamra premises bearing all liabilities,.

(g) All repair works / services will **INVARIABLY** be under at least **06 months warranty**, unless contracted otherwise.

(h) **[PART CATALOGUES, IPBs (illustrated part books), USER GUIDES, OPERATING/ MAINTENANCE MANUALS, BROCHURES, PRICES]** which ever

available / applicable would invariably be provided **free of cost** along with delivered stores.

(h) Items should be current year's production.

(j) Supplier will retain record of all products delivered to AMF karma, for atleast 03 years.

(j) AMF reserves the right to visit / inspect any premises of supply chain against required / offered products.

(k) The supplier will be responsible for in time payment of all applicable taxes and duties to relevant agencies as per in vogue GOP regulations. The supplier must be able to furnish / produce such record as and when demanded by AMF.

(m) Any item being tendered if obsolete / discontinued by OEM may please be communicated along with said certification by OEM. Suitable replacements / substitutes / interchangeable may also be communicated along with complete technical / operational details.

(n) All quotations/ bids, correspondence and clarifications / queries must be on company letter head duly signed by authorized signatory authority. Active contact / correspondence details (phone no. mobile no. email & postal address must be mentioned).

(o) All quotations, bids, clarifications, queries, correspondence and product will be kept strictly confidential.

## 7. Release of Payment

Payment will be released by Dte of Budget and Accounts, AMF PAC, Kamra on submission of Sales Tax invoice along with copies of GST registration, NTN certificate and Professional Tax certificate. Sales Tax Return against previous transactions (if any) during current financial year and copy of relevant SRO (if applicable) will also be required. All payments are to be received after successful acceptance of delivered stores by user and upon furnishing of requisite documentation.

**No financial liability of any sort will be carried forward to next financial years.** After receipt of payment, supplier is to furnish monthly sales tax return declaration along with Annexure "C" (DOMESTIC SALES INVOICE DETAIL) duly depicting invoice number against which payment has been received from AMF, Kamra.

Specified amount of GST and Income tax will be withheld/ deducted at source as per GOP instructions in vogue. Any exemption in this regard will only be entertained upon furnishing of FBR issued EXEMPTION certificate in name of Firm / Company against specified item.

**8. THE TERMS AND CONDITIONS MENTIONED IN THIS DOCUMENT WILL BE INTEGRAL PART OF any PURCHASE ORDER furnished against this tender, WHETHER OR NOT MENTIONED AGAIN.**

## 9. Clarifications of Queries

**Queries if any may be cleared by contacting 051-9099-5276**

## 10. Rejection

Offers are liable to be rejected if: -

(a) There is a deviation from any instruction.

(b) Offers are found conditional or incomplete in any respect.

(c) Overwriting / erasing in prices.

(d) Firm being BLACKLISTED / UNDER IMBARGO / DE LISTED by any Government Organization.

**(e) ANY TERMS AND CONDITIONS NOT IN CONFORMITY WITH TENDERED TERMS AND CONDITIONS.**

## 11. Delivery of Tender

**Each quotation (financial / technical) shall be on separate leaf against single line item.** Both the envelopes of **Technical and Commercial** offers should be enclosed in one cover properly sealed, **envelope cover must be marked with "Item name"** and bear the following address of Local Purchase office, AMF with **tender Inquiry number and opening date.**

**Dy Director Local Purchase**  
Aircraft Manufacturing Factory,  
Pakistan Aeronautical Complex,  
Kamra Distt Attock

**12. Opening of Tender**

The quotations must be in original and are to reach at this factory by **1100 Hrs** on **09 November, 2020**. All quotations are to be dropped in the tender box placed at the Local Purchase Section, AMF. No quotation will be accepted in photocopy, through Fax and after due date and time. Tender will be opened on **same day at 1130 Hrs** in the presence of witnessing officers and available representatives of the firms in DD LP office. AMF reserve the right to cancel or reject any or all bids / proposals against complete tender or any part thereof, at any time without any liability. In case of official holiday the Tender will be opened on next working day.

**Yours Faithfully,**

**(FAISAL HAMEED)**  
Squadron Leader  
for Managing Director  
AMF PAC, Kamra  
Tele No. 051-90995281

**NOTE: - THIS TENDER ADVERTISEMENT IS ALSO AVAILABLE ON  
[www.pac.org.pk](http://www.pac.org.pk).**

## AMF QUALITY SYSTEM REQUIREMENTS

Following are the requirements to be satisfied by the Supplier (External Provider) / Sub-Contractor (Local Vendor) of AMF:

1. The processes, products, and services to be provided including the identification of relevant technical data (e.g., specifications, drawings, process requirements, work instructions);
2. The approval of products and services, methods, processes, equipment, and the release of products and services;
3. Provide inspection and testing criteria for acceptance by AMF.
4. Notify AMF about non-conformance product or material supplied.
5. Obtain approval from AMF of changes in product / process.
6. Access by AMF, its customers and regulatory authorities be ensured to applicable areas of all facilities involved in the order and to all applicable records at any level of the supply chain;
7. Provide Objective evidence of the quality of product.
8. To ensure product conformance to specified requirements.
9. To provide manufacturing date and Lot number.
10. To provide shelf life and expiry date as applicable
11. Competence, including any required qualification of persons;
12. The external providers' interactions with the organization;
13. Control and monitoring of the external providers' performance to be applied by the organization;
14. Verification or validation activities that the organization, or its customer, intends to perform at the external providers' premises;
15. Supplier (External providers) apply appropriate controls to their direct and sub-tier Suppliers (external providers), to ensure that requirements are met.
16. Design and development control;
17. Special requirements, critical items, or key characteristics;
18. Test, inspection, and verification (including production process verification);
19. The use of statistical techniques for product acceptance and related instructions for acceptance by the organization;
20. To provide Material / Metallurgical test reports along with raw material for traceability through Lot / Batch No. External Provider will also provide date of manufacture of provided Lot / Batch No of raw material.
21. The need to:
  - (a) Implement a Quality Management System;
  - (b) Use customer-designated or approved external providers, including process sources (e.g., special processes);
  - (c) Notify the organization of nonconforming processes, products, or services and obtain approval for their disposition;
  - (d) Prevent the use of counterfeit parts;
  - (e) Notify the organization of changes to processes, products, or services, including changes of their external providers or location of manufacture, and obtain the organization's approval;
  - (f) Flow down to external providers applicable requirements including customer requirements;

(g) Provide test specimens for design approval, inspection/verification, investigation, or auditing;

(h) Retain records (documented information), including retention periods and disposition requirements;

22. ensuring that persons are aware of:

(a) Their contribution to product or service conformity;

(b) Their contribution to product safety;

(c) The importance of ethical behavior.