PAKISTAN AERONAUTICAL COMPLEX, KAMRA AIRCRAFT MANUFACTURING FACTORY TENDER NOTICE

Tender No AMF/2803/306/LOG dated 11 May, 2024

1. Sealed tenders are invited from sales tax registered Suppliers who are on Active Taxpayers List (ATL) of FBR for procurement of following item:-

S NO	PART NO	DESCRIPTION	U/I	QTY
01	AMF-002	Bullet Proof Helmet (As per attached specifications and special Notes)	EA	50
02	LEVEL-III-7.62MM	Bullet Proof Jacket (As per attached specifications and special Notes)	EA	25
03	DS-2TD6267-100C4L/W	HIKVISION THERMAL CAMERA (As per attached specifications and special Notes)	EA	01

2. Delivery of Tender

- (a) <u>Technical Offer</u>: It should be without price and contain all relevant essential specification along with literatures / brochures. Tender number, date of opening and word "Technical offer" should be clearly marked on the face of envelope.
- (b) <u>Commercial Offer</u>: It should indicate price of quoted item and confirmation to the terms and conditions of our tender inquiry. The words "Commercial offer" be marked on its envelope.
- (c) <u>Bid Money / Earnest Money</u>: The registered / unregistered firm with PAC Board will provide 5% or Rs 150,000.00 (whichever is less) as earnest money of the quoted value through bank draft in favor of MD AMF PAC Kamra.

Quotations must be submitted in two copies for required stores i.e one copy with technical details without price and one copy as NOTE commercial offer in separate envelop. Moreover, in case witnessing of Technical / Commercial opening, detail of participant is required 02 days in advance for security clearance.

Both the envelopes of **Technical and Commercial** offers should be enclosed in one cover properly sealed and bear the following address of this office.

Deputy Director Procurement,
Aircraft Manufacturing Factory,
Pakistan Aeronautical Complex, Kamra
Distt Attock
Phone: 051-90995283

Opening of Tender

The quotations must be in original and are to reach at this factory till 27-05-2024 (1000 Hrs). No quotation will be accepted in photocopy, through Fax

and after due date and time. Tender will be opened at 1100 Hrs on the same day. We reserve the right to cancel or rejected all bids/ proposals at any time prior to acceptance as per PPRA Rules.

4. Pattern of Quoted Prices

- (a) The quoted Prices are to be exclusive of all taxes levied by the Government and these should be in accordance with the current Local market prices.
- (b) GST and all other taxes must be mentioned separately.

Validity of offer

The quotation should be valid for 180 days from technical opening date.

6. **Delivery Period**

Delivery is required after 04 weeks after signing of contract. However, the delivery period should be factual as no extension will be subsequently granted except under extreme / un-avoidable circumstances.

7. Release of Payment

DBA AMF will release 100% amount of contract including 18% GST on production of following documents:-

(i)	Invoice/ Bill		03 copies
(ii)	CRV		01 copy
(iii)	Professional Tax Certificate	:	01 copy
(iv)	General Sales Tax Certificate		01 copy
(iv)	Active Tax Payer LIST (ATL)	:	01 copy
(v)	BG acceptance		01 Copy
(vi)	Delivery Challan	•	01 Copy

8. <u>Disqualification</u>

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) Multiple rates are quoted against one item or overwriting / erasing in prices.
- (d) Bid money / Earnest money.

NOTE:-THIS TENDER ADVERTISEMENT IS ALSO AVAILABLE ON www.pac.org.pk

TERMS AND CONDITIONS

- (1) PAC / AMF, its customers and regulatory authorities reserve the right of access to all facilities of supplier firms coupled with sub-tier suppliers in applicable production of stores provided to PAC/ AMF under contracts concluded by PAC Board:-.
 - (a) Stores (**Security Equipment**) is required on FOR Kamra basis. (Quotes should be in PKR only)

(b) Store should be factory new and from latest production.

- (c). Inspection / acceptance will be carried out as per PAC Board and AMF Quality Control procedure, on the parameters of specifications mentioned in the tender.
- (d) Price should be firm and final.
- (e) Delivery is required after 04 weeks after signing of contract with at least 3/4 of its shelf life remaining.
- (f) In case of official holiday the Tender will be open on next working day.
- (g) Technical details and brochure be provided with quotation for technical evaluation (whenever applicable)
- (h) OEM packing worthy of transportation by road / air be carried out.
- (2) The supplier will provide following documents with supplied stores at a time of delivery:-
 - (a) Quality certificate.
 - (b) OEM Certificate of conformance.
 - (c) Warranty documents & certificate (if applicable).
 - (d) Preservation Record / Certificate (if applicable)
 - (e) OEM standard Warranty of 03 Years is required

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.
- Provide inspection and testing criteria for acceptance by AMF.
- 4. Notify AMF about non-conformance product or material supplied.
- 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.
- 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.
- 22. Retain records (documented information), including retention periods and disposition requirements.

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.

Yours Faithfully,

for

(ASIF AYAZ) Squadron Leader Managing Director

AMF PAC Kamra

Tele No. 05 1-90995292

SPECIFICATION OF SECURITY EQUIPMENT

BULLET PROOF JACKET

Composition	Front aIntegraRemovPouche(As specification)	cified by Dte of	nour Plates (0 ion. ction. mmunition Security during	2 HAPs). and g finalization of	communication of advance samp	(6-8) e).
Protection Level	 HAPs (APs (without Hin conjunction wi	th SAPs)	Level I	Level PK III	
Weight	 Weight of SAPs : Max 2.5 Kg Weight of HAP (each plate) : Max 1.8 Kg Total Weight of complete Bullet Proof Jacket including Outer Cover, pouches, SAPs & HAPs Max 7.5 Kg 					
				Size		
- MA - CA	S No	Description	Chest	Waist	Length	
Size of Jacket	(a)	Medium	42-44	36-38	21-22	
	(b)	Large	45-47	39-41	20-21	opo politikoja i aleka.
Design	buckle shoulde Strap fo Additio pouch. Hand C	noulder strap sho (in addition to the er can be fully dis- or Hand Held Tound nal utility strap so Grip at back side rmour Panels (See with integrates)	e Velcro) can sconnected. In the should be hould be proved Bullet Processes. In neck and great and great states.	provided in conided at amm f Jacket. SAPs shall coning protection	o pouches and homply with following	aso that ler
Material	 02 SAPs with integrated neck and groin protection inserts. Made with adequate layers of spectra or spider silk or nano-based armour of gold flex or Dyneema or Kevlar or equivalent. Packing cloth / material of SAPs shall be fire resistant and Water proof. All soft body armour made of Dyneema shall be immune to water humidity exposure. SAPs shall have minimum shelf life of at least 05 years. Hard Armour Plates (HAPs). HAPs shall comply with following:- Single or double curve with swimmer cut. Size should be 9.5 x 12.5 Inches (±0.5 Inches) Multi hit capability. Made of Composite or Polyethylene or Ceramic (Aluminum Oxide. Boror Carbide or Silicon Carbide), backed by light weight spectra or spider silk or nano-based armour or gold flax of Dyneema of Kevlar or equivalent. Outer Cover. Carrier shall comply with following:- Made of high quality 1000 denier polyester. Flame retardant. Water proof. Camouflage color and pattern (However, final colour scheme will be provided by Dte of security at time of finalization of advance sample). 					

TECHNICAL SPECIFICATION OF THERMAL CAMERA

	CAL SPECIFICATION OF THERMAL CAMERA THERMAL CAMERA
Image senor	VO x UFPA
Effective pixels	640(H)x512(V) or more
Pixel size	17um
Thermal sensitivity (NETO)	<40mk@f/1.0
Spectral range	8~14um
Image setting	Brightness/sharpness/ROI/AGC/FFC/3D DNR
Color Palettes	14 (white hot/black hot/iron row/ice fire/Fusion/Rainbow/Glow etc)
	THERMAL LENS
Lens type	Motorized
Focus Control	Auto / Manual
Focal Length	30 mm ~ 150 mm or more
Angle of view	H:20.6° ~ 4.2° v: 15.5° ~ 3.1°
Effective distance Man	Detection : 4500m or more
(1.8m * 0.5m)	Recognition: 1150m or more
(1.6///	Identification: 570m or more
Effective distance Vehicle	Detection: 13200 m
(2.3m*2.3m)	Recognition: 3500 m
(2.5(11 2.5111)	Identification: 1800 m
IR (Optical Defog)	500 mtr or more
FPS	50 Fps or more
rrs	VISIBLE CAMERA
Image Sensor	1/1.9" CMOS
Effective Pixels	1944(H)x1092(V) or more
Electronic shutter speed	1.1 ~ 1/30,000s
Minimum illumination	0.0005 Lux@F1.5 (colour), 0.0001 Lux@F1.5 (B/W)
S/N Ratio	More than 55dB
	VISIBLE LENS
Focal Length	12.5~775 mm or more
Max Aperture	F3.8
Angle of view	IH:28.8° ~ 0.5°
Optical zoom	62x
Focus control	Auto / Manual
Close Focus Distance	100mm ~ 1000mm (0.33ft ~ 3.28 ft) or more
Close Focus Distance	PTZ
Pan / Tilt Range	Pan: 0 ~ 360° endless Tilt: -45° ~ 60° (-60° ~ 60° optional)
Manual Control speed	Pan: 0.01° ~ 12° /s. Tilt -0.01° ~ 9° /s
Preset speed	Pan: 0.01° ~ 12° /s, Tilt -0.01° ~ 9° /s
Preset	300
PTZ Mode	5 Auto scan, 8 Tour, 5 Pattern, Auto Pan
A DESCRIPTION OF THE PROPERTY	Human-oriented focal length / speed adaptation
Speed Setup	Auto restore to PTZ and lens status after power failure
Power up action Idle Motion	Activate Preset/Scan/Tour/Pattern if there is no command in the specified
	Period)
Protocol	DH-SD, Pelco-PD (Auto Recognition)

SPECIFICATIONS OF ALLIED ACCESSORIES OF THERMAL CAMERA

SPECIFIC	ATIONS OF ALLIED ACCESSORIES OF THERMAL CAMERA
	64 IP Camera Input of more
NVR	384 Mbps Incoming Bandwidth or more 12MP Resolution for Preview and Playback or more
	Supports RAID 0/1/5/6/10
	Smart Tracking and Intelligent Video
HDD	Surveillance Grade 6 TB HDD or higher
	Triangle Pole for PTZ Camera with Guy wire as per requirement complete in all
	aspects.
os worksteen w	Foundation Specifications:
Thermal PTZ Tower /	Earth Pit 18"x18"
Brackets 40~50 ft	Concrete Base 36"x36"x48"
	Iron Base Plate 20"x20"
	Note: 10 feet each section of PTZ Tower which can extended as per the requirement
	TO feet each section of PTZ Tower which can extended as por the requirement
40" Full HD LED	Support Full HD 1080p live view, Support HDMI, AV, VGA & network connections
TO FULL TO CED	sync output (branded new)
	Network Keyboard for controlling PTZ camera and central management server
	4D Joystick control of PTZ functions
2001 10 10 1 <u>0 100</u> 1 1001 10	Support RS-232, RS485 & Network Connections
Network Control	Support Full HD 1080p live view, Support HDMI & VGA sync output
Keyboard for PTZ	Support snapshot and recording to U-disk
Camera	Support Video-Wall Display
	Support bidirectional talk Present Position, Auto Scan, Auto Pan, Auto Tour & Pattern Control Auxiliary
	Present Position, Auto Scan, Auto Pan, Auto Todi & Pattern Control
	Functions, OSD and operation guides Control
	Configuration of access control supported
	Advance E-map feature supported Support IPC, PTZ, NVR, EVS, HCVR, NKB, VDP, Access Control and etc.
	Support 4K cameras
	Support H.265 steams
	Support IPv6 devices
	Support Windows 7,8,9,10
	Support smart track
	Support multiple tours tasks
	One channel can be split in to different windows
	Auto fin/import/export supported
Smart Professional	Easy to manage up to 256 devices or 2000 channels
Surveillance System	36 Channels synchronous play back or more
(Software Lifetime	Time bar and events play modes available Support joystick to control PTZ Cameras
Licensed)	Support Fish eyes cameras virtual PTZ operation by mouse
	Support E Map, clearly view and manage all devices locations.
	Alarm can be triggered via different events including IVS
	PC/NVR enable local storage recording
	TV wall configuration and Control Support VDP monitoring, talking, announcement and configuration.
	Account Manage Supported and different users share different privileges
	Account Manage Supported and different deers share different privileges
	Log for Event and User Activities
	Friendly GUI for any easy operation
	Support P2P devices Support Fish Eye image correction in both live viewing and playback
u	4 Port Managed POE switch +2SFP GB ports, Support ring network, layer-2
POE Switch	managed, Support private fast ring network, Recovery Time 5 ms, Support IEEE802.
(4 Port+ 2SFP)	af, IEEE802.3at, Hi-Poe standard, Industrial wide temperature design, POE
for Ring Typology	
	I DIEDOGOTIVOTI
	Management Decided UDS with 1.5 house maintenance free hatteries for power backup
1.5KVA Online UPS Cabling	Branded UPS with 1.5 hours maintenance free batteries for power backup UTP Cable, Power Cable, Fiber Accessories for connectivity (included)

Pouches	 Qty 6 to 8 pouches are required as per following specifications. Made of 1000 denier cloth. Flame retardant. Water proof. Camouflage colour. Four (04) Magazine pouches to accommodate SMG / G-3 or compatible magazines. Two double Magazine pouch to accommodate 9mm Pistol (Removable). One (01) Pouch for Hand Held Radio Set. Ammo pouches should be cover with the cloth to secure the Magazine. Pouches cover should have Velcro and button for the sack of tie.
Soft Carrying Case	 A soft carrying case of water proof material should be provided with each Bullet Proof Jacket.
Notes:	 Each Supplier shall fill in the column "Specs Offered by Supplier" in respect of each of its offered Bullet Proof Jacket. No row / column shall be left blank. The pouches can all be fixed or removable or a combination of the two.

BULLET PROOF HELMET

Protection Level	 Bullet Resistance as per NIJ-IIIA Standard 0106.01. Fragmentation as per Stanag 2920 V50 @ 600m/s @ 17 Grain Steel fragment
Weight	Weight (Maximum) : 1.400 Kg weight
Sizes & Qty	 Medium Qty-800 (head sizes 53 – 59 cm) Large Oty-430 (head sizes 59 – 64 cm)
Design Features	 Ultra comfortable webbing / harness which provide balance and stress fatigue. Laser cut edges with rubber coated finishing strip. Water, Oil and fire resistant. Multi-hot protection tested on all sides. It should not restrict the eye sight and hearing. It should allow easy use of communication equipment, goggles and binoculars. It should not interfere with weapons sight, gas mask, hearing protection devices and it should ensure convenient movement of head. Internal surface should not cause any skin reaction. Helmet should be robust and paint should not peel off for 03 years.
Harness Features	 Mesh suspension system with leather crown support. Air gap between harness and shell provides sufficient ventilation and improved sweat management. Chin strap and neck strap (4-Point with neck pad) should be provided which avoid extra movement of helmet when wear by troops. Harness should be shock absorption. Mass distribution should reduce lag during head movement. Multiple point adjustable harness. Quick release buckle.
Colour	 Colour of helmet will be subject to purchaser's choice.

Note:

Equivalent / latest specification available in the market

TERM & CONDITION FOR PROCUREMENT OF THERMAL CAMERA ALONG WITH ALLIED ACCESSORIES & SECURITY EQUIPMENT

- 1. The technical terms & condition are as per approved & provided specification.
- 2. Installation, testing, commissioning, configuration charges are must be include in contract.
- On sight training including operational and maintenance must be included.
- 4. The newly (under process of Thermal Camera) must be compatible with existing CCTV system.
- Assurance of after sale service / parts and maintenance.
- 6. Store must be as per approved / provided specification.
- 7. Store must be as per approved standard of PACB, Kamra.
- Store must be factory new and from current lot / production.
- Store must be in OEM packing.
- 10. Delivery period should be 04 weeks after signing the contract.
- 11. OEM warranty is required for at least 03 years.