

Opening on 24 February, 2017
ARF/1169/PC-020/LOG DATED 08 February, 2017

Organization Name	Pakistan Aeronautical Complex
Address	AIRCRAFT REBUILD FACTORY PAC
City	Kamra
Tel No.	051-90992442
Terms & Conditions	<p>1. Quotations will be opened on 24 February, 2017 at 11:00 Hrs by the committee in the presence of the interested bidders, or their authorized representatives.</p> <p>2. Quotation must be typed. Hand written / Conditional quotation will not be accepted.</p> <p>3. Separate sealed technical quotes and Commercial quotes both in duplicate must be deposited in 2 separate envelopes. Rates should be quoted both in words and figures clearly with unit price.</p> <p>4. All quotations (Category wise) must be put in separate sealed envelope. There should be no mixing of rates and quotations (Technical quotations with Commercial quotations). More than one quotation in one envelop will be rejected.</p> <p>5. Income tax, sales tax and professional tax certificates duly attested by the concerned authority must be attached with quotations.</p> <p>6. All the rates must be valid till 30 June, 2017 otherwise quotation will not be entertained. Taxes will be imposed as per GOVT: policy and directive issued from time to time.</p> <p>7. All chemicals should be provided with COC (Certificate of Conformance), MSDS (Material Safety Data Sheet) and TDS (Technical Data Sheet) and within expiry life of minimum 02 Years.</p> <p>8. The bidder must have a branch office with valid Telephone and fax facility.</p> <p>9. Sample where applicable has to be provided by the firm for technical vetting.</p> <p>10. Category wise list is available in the office of O i/c Local Purchase and can be collected during working days from 0900-1200 hours.</p> <p>11. The quantities are estimated and may increase/decrease with respect to the requirements.</p> <p>12. The procuring agency may reject all bids/proposals or bid/proposal pertaining to a specific supplier at any time prior to tender opening. The procuring agency upon request of supplier / Vendor / Contractor will communicate the reason for rejection of quotations.</p> <p>13. Payment on delivery will be made through cheque against sales tax invoice only.</p> <p>14. Tenders are to be addressed to Director Logistics, Aircraft Rebuild Factory PAC Kamra. The quoted prices must be without GST and envelope must be marked with "TENDER FOR PROCURMENT of "Category-1, Category-2 and Category-3"". Tenders received through fax shall not be accepted.</p> <p>15. Firms not registered with PAC Board shall deposit 5% earnest money along with the quotation.</p> <p>16. Delivery must be made as per quotation after receipt of purchase order.</p>
Closing Time	10:30:00 AM
Opening Time	11:00:00 AM
Bid Validity	30/06/2017
Remarks	ARF PAC KAMRA

Opening on 24 February, 2017

**Open
Tender**

S. NO	PART NO	NOMENCLATURE	U/I	QTY
CATEGORY -01 JF-17 MRO				
1	SNZ23-3/14P-6-B	SOCKET CONECTOR	EA	06
2	SNZ23-19/27B-6-B	PLUG	EA	06
CATEGORY -02 GROUND EQUIPMENT (F-7P)				
1	5935-68-900-0446	2 PIN PLUG SOCKET 27 VOLT (OC)	EA	10
CATEGORY -03 PROVOST SQUADRON (Specification attached at below)				
1	9999-68-400-0042	FABRICATED GUARD POST	EA	01
2	6650-68-900-0019	BINOCULER	EA	04
3	8140PK0000819	SUSPECTED POSTAL BOMB CONTAINER	EA	02
4	HEDD1	EXPLOSIVE DETECTOR	EA	02
5	UVSS	UNDER VEHICLE SURVEILLANCE SYSTEM	EA	02
6	9999-68-400-0041	GUARD POST	EA	01
7	7430-68-900-0780	SPEED GUN CAMERA	EA	01
8	6230-68-900-0004	MARSHALLING TORCH	EA	02
9	3439-68-900-0168	ELECTRIC SIREN (LARGE)	EA	04
10	6710-68-900-0003	PTZ IP CAMERA 2-3 MP, DAY NIGHT IR VIEW	EA	06
11	6720-68-900-0024	FIXED IP CAMERA 2-5 MP DAY NIGHT IR VIEW	EA	19
12	6145-600-900-0160	UNDER GROUND CABLE 10 PAIR .6MM ARMOURED	MTR	3500
13	T8124	AXIS T8124 POE-60W MID SPAN	EA	02
14	6145-600-900-0162	UNDER GROUND CABLE 50 PAIR .6MM ARMOURED	MTR	3000
15	6145-600-900-0159	UNDER GROUND CABLE 20 PAIR .6MM ARMOURED	MTR	500
16	6145-600-900-0158	UNDER GROUND CABLE 30 PAIR .6MM ARMOURED	MTR	500

Specifications Provost Squadron CAT-03

UVSS	
Camera	a. Working Temperature: -10 to +50 degree b. Working Voltage: 12 VDC c. Sensitive: 408DN/nJ/square cm) @ 10dB d. Scan speed: 36 KHz e. Data type: 8/12bit Gige vision f. Data Transferring: RJ485 support up to 200 M remote installation g. Protection level: IP66 h. Cooling type: Aluminum fin cooling
Lightening	a. LED type lighting; red color; protection level : IP66 b. Working temperature: -10 to +60 degree c. Cooling type: Aluminum fin cooling
I/O Control	a. Working temperature: -10 to +50 degree b. Working voltage: 12 15 VDC c. Control chip: 8 digit high performance MCU d. Input: 12 routes optoelectronic isolation NPN input, 10 mA e. Output: 8 routes optoelectronic isolation relay output, 0-220v output, Max 5A.
Sensor House	a. High heat transferring performance aluminum b. Two pieces structure easy for maintenance c. Edge max load weight: 2Ts except mirror area
EXPLOSIVE DETECTOR	
<ul style="list-style-type: none"> • Hand held device operating on X-Ray. • Detection results could be display on screen. • Can be operated through external power and rechargeable battery. 	
SUSPECTED BOMB CONTAINER	
Must be made of ballistic fiberglass tube with a gel coat finis capable to resist postal bomb having capacity to resist detonation of 250 gram of commercial explosive. The container must allow suspect parcel to be scanned in X-ray scanning machine.	
<ul style="list-style-type: none"> • Can resist upto 500g of explosives • Detachable base plate • Removable inner bag • Can be x-rayed • Should be removable for deployment at entry gate • Easy to roll or transport • Height: >800mm • Internal Diameter: >450mm • Outside Diameter: >515 mm • Wall Thickness: >17mm • Weight: < 50 Kgs 	

BINOCULARS		
S NO	Specification	
1	Magnification	15
2	Field of view degree	4
3	Eye relief mm	18
4	Eye pupil mm	3.5
5	Exit pupil mm	3.5
6	Nitrogen purged	Yes
7	Water proofness	Yes
8	Dioptor adjustment	+-5
9	Operating temperature	-45 to +55 °c or better
10	Dimension mm	220x150x75
11	Weight	1.5 Kg
12	Mounting	Tripod

GUARD POST	
S NO	Specification
1	Fiber Glass Guard Posts
2	Size 5'x5'
3	Bullet Proof
4	Outer wall Fiber Glass sheet 4 to 5 mm
5	Outer & Inner Wall Cavity 16" for sand fitting
6	Mosquito Net
7	Inner Wall MS Sheet 18 Guage
8	Electric Fan & temperature controlled (reversible AC)
9	Florescent Light
10	Electric Output points 02
11	Internal Door Lock with Keys

MARSHALLING TORCH	
Material	PVC+PP
Length	54 cm
Type	Rechargeable input 220/250v
Lamp Type	Polycarbonate
Packing	Opp bag + box + carton
Color of tube	Red fluorescent
Handle color	Black
Weight	Less then 500gm

ELECTRIC SIREN (LARGE)	
Vertical Range double mountain	300 Meter
Input Voltage	220/250v
RPM	6000
AC	50 Hz
Horizontal range	4 km

Fixed IP and PTZ IP Cameras:-

<p>Fixed IP camera 2-5 MP,Day and Night view, IR</p>	<p>2.12 Mega Pixel (1920 x 1080), Full HD(1080p) resolution adjustable frame rate,98 feet IR visual distance in Pitch Dark, Video authentication: MD5/SHA-1/ SHA-256, Automatic Varifocal 2.7 to 12 mm, DC Iris F1.4 – 360, GOP Structure: IP, IR corrected, H.264 & MJPEG dual codec, Motion/Audio Detection,UPnP (Auto Port Forwarding),Dynamic range: 76dB, Defog, DC-Iris, DIS support , Day & Night 0 Lux (IR On),Network Protocol IPv4/6 - TCP/IP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP, FTP, SMTP, iSCSI, APIPA, NTP, ARP, SNMPv1/v2c/v3, DDNS, UPnP, CHAP, digest authentication, Web Viewer: Internet Explorer, Google Chrome, Firefox, Encryption: TLS 1.0, SSL, DES, 3DES, RJ-45, Audio In / Out, Alarm In / Out, Audio In / Out, Motion detection: Support Event Notification : Relay Out, Email, FTP, Totally Weatherproof IP-66,Impact protection: IK08, POE, 24V AC, 12V DC supports,Outdoor Housing and Bracket Included or Equivalent / lastest specification available in the market</p>
<p>PTZ IP camera 2-3 MP,Day and Night view, IR</p>	<p>2.48 Megapixel Full HD (1920 x 1080) resolution,Full HD(1080p) image 30fps streaming, 30x optical zoom lens (4.3 mm - 129 mm (F 1.6 - F 5.0),16x Digital Zoom, Min illumination 0Lux , 180 Meters IR Range, Network Protocol IPv4/6 - TCP/IP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP, FTP, SMTP, iSCSI, APIPA, NTP, ARP, SNMPv1/v2c/v3, DDNS, UPnP, CHAP, digest authentication, Web Viewer: Internet Explorer, Google Chrome, Firefox, Encryption: TLS 1.0, SSL, DES, 3DES, H.264 / MPEG-4 / MJPEG Multiple Streams, Intelligent Video Analytics: Tampering, Virtual Line,Enter /Exit, (Dis)Appear, Face Detection Network,Disconnection, 360° Endless Pan, Tilt/ Zoom, WDR, UPnP supports, Defog, IP66, Open Protocol ONVIF Supported, SD Memory Slot, Weatherproof Housing & Mounting Bracket or Equivalent / lastest specification available in the market</p>

NIGHT VISION GOGGLES:-

Structure	Type	Binocular (M Bridge) with Double Image Intensifier Tube
	Holding & Mount	Hand Held, Head & Held Mount
Optics	Magnification	1 X
	Field of view	40°
	Detection Range	300-500m
Display	Ops readiness time	4 to 8 seconds from switch on
	Color	Green, Gray Scale & Red
	Low battery indicator	Yes
Operating Environment	Operating temperature range	-40° C to +60° C
	Weight with battery	700 to 900 gram
	Water Proofing & Construction	Military Standard
Power Option	Battery & Adaptor	Info Lithium, 220 V AC & 12 V DC Adaptor (Preferable)
		AA size with charging adaptor
	Operation time on Battery	8 to 20 hours of night vision operation

FABRICATED GUARD POST:-

SNo	Specification	
1	Ballistic Protection	5-sides of the guard cabin are bullet resistant with protection level B6 or B7. Roof: Confirming to B6 or B7 level Wall panels: Confirming to EN1063 B6 level against 7.62 x 51 ammunition /B7 level against 7.62x54 AP ammunition.
2.	Roof & Base Floor	Exterior: EN 1063 B6 or B& level bullet resistant galvanized steel, cover with heat insulating & wearing-keeping GRC material interior ceiling: coated veer with smooth flat surface. Base Floor will be constructed on galvanized steel framed comprised of aluminum treat plate finished floor
3	Wall Panels (Front, back, left & right)	Exterior: EN1063 B6 or B7 level bullet resistant galvanized steel Interior Finish, Coated veneer with smooth flat surface.
4	Frame Construction	Mechanical tube framing as supports, with all joints welded
5	Ballistic Glass	Windows: Upper side of front, left & right wall panels, Bullet resistance: EN1063 B65 or B7 level. Glass framed using steel / Aluminum framing system
6	Door	Opening / closing door on the right wall panel, EN 1063 B6 level bullet resistance. Switches of lights & exhaust fan on the side door
7	Electrical	220V electrical cabinet installed on the bottom of back panel, 2 Electrical outlets on the middle bottom of front panel.
8.	Ventilation	2 Air in-take: on the lower part of front panel with shutter.1 Exhaust fan: close to the inside of front panel
9	Accessories & Lighting	Telephone Line: connected and besides the electrical outlet, working counter; close to the inside of front panel 2x 220v *28 W lighting on the ceiling
10	Air conditioner (2500W-cooling capacity; 4000W-heating capacity) Gun ports on the 4-sides of the booth. Monitor & spotlight on the top of booth : by request	

LASER SPEED GUN CAMERA

General Specifications

Display:

4.3" Bigger Touch-Screen

Outer Shell Material:

High Strong Composite Polycarbonate and Rubber

Inner Structure:

Aluminum

Color:

Blue black, grey, silver or any decent color

Packaging & Delivery

Packaging Details:

Hard Cover material carrying Bag;

Laser speed gun with video for light car and reflect back to calculate the speed of the car. The size of the "cone" of light that the gun emits small beam, even at a range like 1000 feet, only 2.3 feet in diameter. This beam must allow the gun to target a specific vehicle and so accurate that it must be good to calculate speed with error of only +-1mph;

Technical Speciation

Maximum Measurement Distance	distance only mode	1200 m
	speed mode	600-700 m
Minimum Measurement Distance	for all mode	5 m
Optimum Focus Distance	70 meters	230 feet
Lens Operating Range	Hand-held	15 - 80 meters (50 - 262 feet)
	Tripod mounted	15 - 90 meters (50 - 295 feet)
Speed Accuracy	± 2 km/h	± 1 mph
Speed Range	0 km/h to 320 km/h	0 mph to 200 mph
Distance Accuracy	±30 cm absolute accuracy	± 12 inches absolute accuracy
Display Resolution	Speed	1 km/h : 1 mph
	Distance	1 meter : 1 foot
Measurement Time		0.33 - 0.67 second
Units of Measure	Speed	kilometers per hour
		miles per hour
	Distance	meters
		feet
Laser Wavelength	905 nanometers nominal	
Beam Divergence	2.5 milliradians nominal	
Eye Safety	FDA Class 1 (CFR 21)	IEC 60825-1
Body	Inner Structure: Aluminium	outer shell: composite polycarbonate
Weight		1.5-1.7kg
Size		7.7"*4.8"*12.5"
Environment	IP65-IP67	Water and Dust Resistant
Temperature Range	Operating	-10°C to +60° C (14°F to 140°F)
	Charging	0°C to +45°C (32°F to +113°F)

	Storage	-20° C to +60°C (-4°F to 140°F)
Capture Data Storage	Removable SD Card	4 GB and greater
Operation system		Linux based
Display	4.3 inch (10.9 cm), 480x272 pixel, color, 18 bits per pixel (bpp), touch sensitive	
Camera Sensor	2.0 MPixel (1600x1200)	
Camera Lens	75 mm, manual focus and iris	
Battery Pack	7.4 v dc, Lithium-ion Polymer rechargeable battery pack, short circuit and overcharge protected, providing up to 8 hours of cordless operation	
Video Size	Standard Format	320x240 pixels
	Extended Format	640x480 pixels
Video Modes	Selectable video capture frame rate before the measurement and based on motion clip:640*480/13FPS	
Still Image Sizes	1600x1200 pixels	
Measure Mode:	Continuous,Locking,Automatic,VideoTracking,Single Distance Measure,Gate Mode	
Languages:	English	
Warranty:	2 year	