

**GOVERNMENT OF PAKISTAN  
AVIONICS PRODUCTION FACTORY (APF) PAC KAMRA**

**OPEN TENDER**

**TERMS AND CONDITIONS**

1. Sealed tenders are invited from only those sales tax registered suppliers who are on **Active Taxpayers List (ATL) of FBR**, for purchase of the following items on "FOR" Kamra basis.
2. Technical and commercial quotations should be sealed in separate envelopes.

**NOTE: - SUBMIT SEPARATE QUOTATIONS FOR EACH PART CASE**

<b>APF/786-A/1921/13/LP/PC-17 (2023-24)</b> <b>Tender opening date and Time: 28-03-2024 (1000Hrs)</b>					
<b>Local Purchase: (LCS)</b>					
<b>S No</b>	<b>Part No</b>	<b>Noun</b>	<b>Specs/ Scope of Work</b>	<b>U/I</b>	<b>Qty</b>
(a)	FS36300	AIRCRAFT EXTERIOR GRAY LUSTURE LESS	POLYURETHANE PAINT COMPONENT A AND LUSTERLESS COMPONENT B	KT	01
(b)	9999PK0002950	SMD LED 1206(White)	SMD LED 1206(White)	EA	100
(c)	J599/20MJ35SN	128 PIN FEMALE CIRCULAR CONNECTOR	J599 SERIES, FEMALE 128 PIN CIRCULAR	EA	02
(d)	AA3.7V(RS:593-489)	LITHIUM BATTERY	OEM SPECIFIED	EA	05
(e)	5325PK0002127	STUD TURNED LOCK FASTENER	LENGTH 15.7MM, DIA 10MM MATERIAL STAINLESS STEEL	EA	50
(f)	A9V56440	4 Pole 3 Phase Earth Leakage Protection Circuit	Rated Voltage: 400VAC, 3 $\phi$ , 4 Pole Earth Leakage, Frequency 50Hz, Current 40A, 30mA	EA	01
(g)	A9F18440	4 Pole 3 Phase Circuit Breaker	Rated Voltage: 400VAC, 3 $\phi$ , 4 Pole, 50Hz, Current 40A, 30mA	EA	01
(h)	898-3-R220	ROW RESISTOR	RESISTOR ARRAY 220 OHM, 0.1W THT	EA	05
(j)	XECJLT1303-A	Transformer	OEM Specified	EA	02
(k)	KSZ9021RNI	Line receiver (Transmitter)	OEM Specified	EA	02
(m)	9999PK0003081	Refrigeration Pipe Insulation Wrapping Tape	Width 45mm, Length 12m Water Proof Non-Adhesive PVC, Color Black	RL	05
(n)	BAT54SLT1	DUAL HOT-CARRIER DETECTOR AND SWITCHING DIODE	REVERSE VOLTAGE 30V FORWARD POWER DISSIPATION 225mW FORWARD CURRENT (DC) 200mA MAX	EA	05
(p)	5131-04	BINDING POST	OEM SPECIFIED	EA	05
(q)	810-2008/K	BATTERY	3 VOLT BATTERY MINIMUM ACCEPTABLE VOLTAGE 2.97V	EA	10



(r)	ES835B	FLUX REMOVER	-	EA	02
(s)	FD3232	ANTI-PUNCTURE OIL RESISTANT ESD SHOES BEST WORK SHOES SAFETY SHOES	MATERIAL: RUBBER UPPER MATERIAL: LEATHER FEATURE: STEEL TOE OUTSOLE: RUBBER ANTI- PUNCTURE AND ANTI-OIL	PR	09
(t)	279-481	CONTACT CLEANER 400 ml	400 ml	TN	20
(u)	NC257MD	No Clean Solder Paste	149 mg KOH/g Flux Typical -18° (0° F)	JR	02
(v)	136-1813	WD40 PENETRATING LUBRICANT	400ML DIMENTION:1.8x1.8x4.9	EA	20
(w)	SMD-291AX	NO CLEAN SOLDER PASTE	63 SN / 37 PB 88% metal solder paste used for PCB Manufacturing	SR	02
(x)	CBD24D4S7S8ME-8	8G di RAM DDR4L- 2400 SODIMM 1.2V	8 GB DDR4L	EA	20
(y)	AWM20624	Flexible Flat Cable	B-type 1.0mm pitch 16 Pins 80C 60V FFC FPC Cable 200mm	EA	20
(z)	TVR10471	ZINC OXIDE VARISTOR 10Ø SERIES	Voltage : 470V Power : 0.4 Watt Capacitance: 250pf	EA	20
(aa)	531012840006	GETAC X500 KEYBOARD (MODEL V111418DS1)	BACKLIGHT KEYBOARD USED WITH GETAC X500 RUGGED LAPTOP	EA	03
(ab)	TS1GSK64W6H-I	Wide-Temp SO- DIMM DDR3L 1600 Memory - 8GB	8 GB DDR3L 1600 MHz	EA	20

APF/786-A/1921/13/LP/PC-18 (2023-24)					
Tender opening date and Time: 28-03-2024 (1000Hrs)					
Local Purchase: (LCS)					
S No	Part No	Noun	Specs	U/I	Qty
(a)	ATTENUATIONCHIP HMC655AndHMC656	MO PLATE	OEM SPECIFIC	EA	01
(b)	AMPLIFIERHMC516	MO PLATE	OEM SPECIFIED	EA	01
(c)	SWITCHCHIPMA4A GSW2	MO PLATE	OEM SPECIFIED	EA	01
(d)	80Au20Sn	Au-Sn Alloy	OEM SPECIFIED	FT	01
(e)	RTV141A&B	BLUESIL	-	EA	01
(f)	5895PK0001450-1-0	Switch Illumination PCB	-	EA	5
(g)	PCM1690DCAR	PCM1690 24-Bit Eight-Channel Audio Digital-to- Analog Converter	Supply voltage: -0.3 to 6.5V, Ground voltage differences: - 0.1 to 0.1V, Supply voltage differences: -0.1 to 0.1V, Input current: -10 to 10mA, Ambient temperature under bias: -40 to 125°C	EA	25

(h)	STM32H743ZIT6	ANALOG INTERFACES	32-BIT ARM® CORTEX®-M7 CORE WITH DOUBLE PRECISION, 16 KBYTES OF INSTRUCTION CACHE; FREQUENCY UP TO 400 MHZ, MPU, 856 DMIPS/ 2.14 DMIPS/MHZ (DHRYSTONE 2.1), AND DSP FPU AND L1 CACHE; 16 KBYTES OF DATA	EA	10
(j)	JD38999/26WB35SN	CONNECTOR, PLUG ELECTRICAL(UCA-J1)	ROUND CONNECTOR, STRAIGHT PLUG -65°C TO +175°C	EA	01
(k)	JD38999/26WD35SN	CONNECTOR	-	EA	01
(m)	REF5025IDR	Low-Noise, Very Low Drift, Precision Voltage Reference O/P 2.5V	Input Voltage: +18V, Output Short-Circuit: 30mA, Operating Temperature Range: -55 to +125°C, Storage Temperature Range: -55 to +150°C,	EA	25
(n)	108-4002	PROTECTIVE CLOTHING, LAB COAT, ESD SAFE, WHITE, LARGE	SIZE: LARGE WASHABLE TEMP: 60° C MATERIAL: 65% POLYESTER, 33% COTTON AND 2% CONDUCTIVE FILAMENT	EA	10
(p)	OPA210IDBVR	OPS AMPLIFIER	PACKAGE:SOT-23,PINS:5,BODY SIZE:2.90mm x 1.60mm, Current:0.25mA, Gain bandwidth Product:18MHZ, Temp:-40°C to +125°C	EA	200
(q)	TPA6120A2DWP	High Fidelity Headphone Amplifier	Supply voltage:33V, Differential input voltage VID:6V, Operating junction temperature range TJ: -40°C to +150°C	EA	30
(r)	D04	TRANSPARENT SILICON RUBBER (SILICA GLUE)	-	GM	01
(s)	GD-414	Adhesive	SJ/11187-1998	GM	01
(t)	5646-ADG	TOGGLE SWITCH DPDT	SERIES 5 TERMINALS AND BUSHING SOLDER LUG TERMINALS. WITH Ø 6.35 (1/4) OR Ø 11.9 (15/32) THREADED BUSHING NUMBER OF POLES DOUBLE POLE ELECTRICAL FUNCTIONS ON-ON CONTACT MATERIALS SILVER. GOLD PLATED FINISH,MATT BLACK FINISH ON BUSHING. ACTUATOR SMD HARDWARE	EA	20
(u)	SN63CR32AG89.5	SOLDER PASTE (500 GRAMS)	1. NET WEIGHT: 500G 2. VISCOSITY: 190 3. GRAININESS: 25 TO 45µm	BT	01



APF/786-A/1921/13/LP/PC-19 (2023-24)					
Tender opening date and Time: 28-03-2024 (1000Hrs)					
Local Purchase: (P&T)					
S No	Part No	Noun	Specs/ Scope of Work	U/I	Qty
(a)	521	THINNER	-	LR	08
(b)	792660	ADHESIVE SEALANT RTV 3145	-	EA	03
(c)	1B31	CONFORMAL COATING PAINT	DENSITY=1.91+-0.02G/CM3 SOLID CONTENT % BY WEIGHT=35%+-3% VOC=592GRAMS/LTR DRYING TIME TO HANDLE=10MINUTS RECON COATING THICKNESS=25-75 THERMAL SHOCK=-65 TO +125C DIELECTRIC BREAKDOWN=>1500V	GL	02
(d)	24-6337-0001	SOLDER ALLOY WIRE SN/PB 63/37 (0.25MM 454 GM)	SOLDER WIRE, 0.25MM DIAMETER, 454 GM	RL	02
(e)	24-6337-8806	KESTER SOLDER (TIN 63% / LEAD 37%, DIA 0.4 mm, 454 gm)	TIN 63% / LEAD 37%, DIA 0.4 mm, 454 gm	RL	06
(f)	3UG4512-1BR20	Phase Monitoring Relay	6KV 3x160-690VAC,50-70Hz, Change over, Phase Sequence Recognition and Phase Failure Detection	EA	01
(g)	A9R52440	4 Pole 3 Phase RCCB with Earth Leakage Protection	Rated Voltage: 400VAC, 3 $\phi$ , 4 Pole, 50Hz, Current 40A, 30mA	EA	01
(h)	EP256KESTER	NO CLEAN SOLDER PASTE	TIN OF 500 G	TN	19
(j)	EX14996	P2 CONNECTOR	P2 CONNECTORS FOR RTA BOARD	EA	01
(k)	FSP460-60PFG	460W SWITCHING POWER SUPPLY FOR INDUSTRIAL COMPUTER	Ac Input:100-240V~8-4A, 60-50Hz. Max.output Power:460W (+3.3V & +5V=150W Max.Number of SATA port:4, Plug Type:EU plug, Interface type 24 Pin, D-type Bus Number:5,Rating Power:401-500W, Advantech switching Power Supply	EA	01
(m)	INA163UA	INSTRUMENTATION AMPLIFIER (IC)	MONOLITHIC INSTRUMENTATION AMPLIFIER SINGLE $\pm$ 18V, 14 PIN, SOIC TUBE, -40 TO +85C°	EA	12

(n)	J30J-15TJP	METAL SHELL 15 PINS PLUG	15 PINS DIELECTRIC STRENGTH VOLT 800V, RATED CURRENT 3 AMP	EA	03
(p)	MFM-20-12	AC/DC POWER SUPPLY 20W	I/P Voltage 80~264VAC, 50Hz O/P Voltage 12VDC O/P Peak Power 21.6W Rated Current 1.8A Peak Current 1.98A Peak Load (10sec) 23.8W with Overload/Over Voltage/Over Temperature Protection Dimension (LxWxH) 49x23.8x23mm	EA	01
(q)	MQ31205116141WZ	PLUG (MALE CONNECTOR) 51 PIN 3 ROW	-	EA	01
(r)	OPA209AIDBVR	OPERATIONAL AMPLIFIER 05 PIN SOT-23	OPA209 SERIES PACKAGE SOT-23 OP TEMP (°C) -40°C TO +125°C. PINS 05 2.5mA	EA	96
(s)	SN63/PB37	Solder Ball 0.2mm ~ 0.76mm	Solder Ball 0.2mm~0.76mm	SE	01
(t)	TL071MJG	LOW NOISE JFET- OPERATIONAL AMPLIFIRE	LOW NOISE JFET-INPUT GENERAL PURPOSE OPERATIONAL AMPLIFIRE -55 TO 125C° 8 PIN	EA	50
<b>Local Repair: (P&amp;T)</b>					
(u)	APC-30KVA	APC Galaxy TM 300 3:3 30KVA WITH BATTERIES	<b>Fault:</b> Bypass function of UPS is not working	EA	01

### 3. Delivery of Tender

#### (a) Technical Offer:

Technical offer should be without prices and containing all the relevant / essential specifications along with the literature / brochure. Tender / Part Case number, date of opening and the words **"Technical Offer"** should be clearly marked on the face of the envelope.

#### (b) Commercial Offer:

Commercial offer should contain the unit price, GST, and the total price of the quoted items and the confirmation to the terms and conditions of our tender inquiry. Tender / Part Case number and the words **"Commercial Offer"** should be clearly marked on the face of the envelope.

#### (c) Bid Money / Earnest Money:

The participating firms will must provide **5% earnest money** of the total price of quoted items **(along with the commercial offer)** through **bank draft** in favor of MD APF PAC Kamra. No quotation will be entertained without **Earnest money**. Cheque will be not be accepted.

**Note: Earnest Money should be sealed in a separate envelope.**



(d) **Sealed Envelopes / Address:**

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

**Managing Director,**  
Avionics Production Factory,  
Pakistan Aeronautical Complex,  
Kamra - Distt. Attock.  
**Tel:** 051-90996598  
**Fax:** 057-9317476  
**Email:** ddlogjf17apf@pac.org.pk

4. **Opening of Tender**

The quotations must be in original and are to reach at this factory on **0930 hrs.** on **28 March, 2024**. All quotations are to be dropped in the Scanning Room of this factory. No quotation will be accepted in photocopy, through fax and after due date and time. Tender will be opened on **28 March, 2024** at **1000 hrs.** in the presence of available representatives. We reserve the right to cancel or reject all bids / proposals at any time prior to acceptance as per PPRA rules.

5. **Pattern of Quoted Prices**

The quoted Prices are to be inclusive of all taxes levied by the Government and these should be in accordance with the current Local market / International prices as per the following format: -

Tender S No	Part No	Noun	U/I	Qty	Unit Price			Total Price with GST
					Without GST	GST	Price with GST	

6. **Validity of offer**

The quotation should be valid for 120 days from the date of tender-opening.

7. **Delivery Period**

Store is to be delivered 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.

8. **Country of Manufacturer**

Country / place of manufacture of store is and **COC** are to be provided along with the quotation.

9. **Release of Payment**

Payment will be released by Accounts department APF on submission of proper bill / sales Tax invoice, copies of GST registration / Professional Tax certificates of Punjab province, proof of Active Taxpayers List (ATL) of FBR and Sales Tax Return.

10. **Acceptance of Stores**

The ordered store will be accepted as per attached terms and conditions. The store if rejected or found defective within one year from the day of delivery / commissioning will be replaced by the supplier free of charge.

11. **Disqualification of Bid**

Offers are liable to be rejected if: -

- (a) There is a deviation from any instruction of the tender.
- (b) Offers are found conditional or incomplete in any respect.
- (c) Multiple rates are quoted against one item or overwriting/ erasing in prices.
- (d) Non-provisioning of **earnest money** with commercial offer, and confirmation to this effect be mentioned in Technical offer without mentioning the amount of the CDR.

Yours Faithfully,

**Sdxxx**  
**(M. FURQAN AZIZ)**  
Flight Lieutenant  
for Managing Director  
APF PAC, Kamra  
Tel No: 051-90996598

Dated: 15 March, 2024

**APF/LG-07**

**TERMS AND CONDITIONS FOR  
TENDER INQUIRY NO APF/786-A/1921/13/LP/PC-17, 18 & 19 (2023-24)**

- a. Store is to be delivered at this factory (APF) on "FOR" Kamra basis.
- b. Supplier will be made responsible for warranty / guarantee of the store.
- c. Prices and catalogue is to be provided free of charge.
- d. Store should be factory new and from the current year's production.
- e. Store will be inspected by concerned user / quality control.
- f. All technical publication (wherever applicable) is to be provided free of charge.
- g. Indented store must have 01 year complete warranty. Original Warranty Card from OEM must be available inside the packing.
- h. Store will only be acceptable exactly against the part number against as per the purchase order. No in lieu part number will be acceptable on delivery without prior technical acceptance of the user.
- j. Installation / commissioning for store (if required) will be carried out by the supplier.