

**PIA**

**Pakistan International Airlines**  
Supply Chain Management Department  
Commercial Purchases Section  
Tel: 990455379,  
E-mail: [dgmpc@piac.aero](mailto:dgmpc@piac.aero)

TENDER REF : 21012151  
Tender Cost: PKR 6,000

**INVITATION TO TENDERS AND INSTRUCTIONS TO TENDERERS**

M/S \_\_\_\_\_  
\_\_\_\_\_

**Sub: Tender document for the Procurement and VERY HIGH  
FREQUENCY (VHF) BASE SET FM  
Base Sets for Communication Deptt**

Dear Sirs,

We are pleased to invite your sealed tenders for the items listed in the attached schedule/s. In case of more than one schedule separate tender for each schedule should be furnished. The terms & conditions of the tender / supplies are given below:-

**A) SUBMISSION OF TENDER**

1. You are required to send your sealed tenders **In Single Stage Two Envelope Basis** addressed to General Manager Procurement, PIA Supply Chain Management Building JIAP Karachi by **02-02-2022**. The tenders may be dropped in the tender box marked as "**Tender Box Commercial Purchases**" placed at the entrance of the PIA Procurement & Logistics Building latest by 90:30 hours on the specified date. You may also send your tenders through registered A/D mail addressed to General Manager Procurement, which must reach before the closing date and time mentioned above. Tenders will be opened at **10:30 hours** the same day in the presence of tenderers.
2. Tenders received after stipulated date & time shall not be considered. The Corporation will not be responsible for postal delays. The decision of General Manager Commercial Purchase and Contract in this respect shall be final and binding.

**EARNEST MONEY**

The Tender should be accompanied by a **2%** (two) of the tendered value having been deposited in terms of a Pay Order payable at Karachi in lieu thereof in the name of **M/S PAKISTAN INTERNATIONAL AIRLINES** as interest free Earnest Money (Refundable) in

Financial Proposals. Earnest Money in any other shape shall not be accepted. Earnest / Security Money deposited against a running contract (s) purchase orders(s) shall not be transferable as earnest money for any other tender. All tenders without Earnest Money shall not be considered.

### **SECURITY DEPOSIT**

The successful tenderers upon award of Contract / Purchase Order will be required to furnish in the amount equivalent to 5% of total tender value as interest free Security deposit in shape of Pay Order of an equivalent amount or a Bank Guarantee for an equivalent amount countersigned by the Head Office of the Bank and to remain valid 3-months after the expiry period of the Contract. The Earnest Money already held can be converted into Security Deposit and balance amount if any shall be deposited as above.

### **PREPARATION OF TENDER**

Tender will be opened on “**Single Stage two envelopes**” basis. All bidders must submit **two sealed envelopes** “Technical proposal and Financial Proposal” on specified tender opening date/time. Technical Proposal will be opened on same date, whereas Financial Proposal will remain sealed till the evaluation of samples by PIA Management. Evaluation report uploaded on PPRA/PIA website. After 10 days the Financial Proposal of only those bidders will be opened whose sample are found acceptable.

#### **Financial Proposal having following documents.**

- a) The Schedule duly filled in, signed and sealed.
- b) Pay Order for Earnest Money 2 %( Refundable).

#### **Technical Proposal having following documents.**

- a) Tender Fees Pay Order of RS. 6,000 (NOT REFUNDABLE)
- b) Company profile, Copy of GST & NTN certificate and technical literature of the quoted brand and model If not provided , bid will be rejected On Spot.

**The outer cover of envelopes should bear address of the General Manager Procurement & Logistics, PIA Procurement & Logistics Building, JIAP Karachi - Pakistan, Tender reference number, opening date and company name.**

All information about the material proposed to be supplied must be given as required in the schedule to tender.

The tender will not be considered if complete information required is not given therein.

Particular attention must be paid to delivery time.

Authorized Signatures of individual signing the tender and other documents connected with the contract must specify whether signing as:

- a) Sole Proprietor or his attorney.
- b) A registered active partner of the firm or his attorney.
- c) For the firm per procreation.
- d) As secretary, Manager, Partner, etc., or their attorney in case of firms registered under Partnership Act.
- e) The Tenderers must indicate whether its firm / company / organization etc is registered with PIA or not. If registered then specify PIA Registration number.

**PRICES**

- a) The Prices quoted must be net as per accounting unit as shown in the Schedule to tender inclusive of all duties / taxes, packing, octroi and delivery charges for free delivery to Karachi Airport. However, if GST is applicable, same should be shown separately.
- b) The Prices mentioned in the tender will be treated as firm till the completion of Purchase Order / Contract.
- c) The Prices must be stated for each item separately both **in words and figures** in Pakistan Currency. Additional information, if any must be linked with entries on the Schedule to Tender.
- d) Offers must be valid for 120 days.
- e) Quotation must be written on PIA prescribed form otherwise Bids will not be entertained.
- f) 1% of the total amount will be kept by PIA Finance till the completion of Warranty.

**ACCEPTANCE OF TENDER**

PIA do not pledge themselves to accept the lowest tender and reserve the right to accept or reject any or all tenders / quotations, divide business among more than one supplier or accept the tenders at rates on lowest individual items or extend the date of opening with assigning reason.

Yours truly,  
**For: Pakistan International Airlines**

**DGM (Purchases Commercial)**

Encl:

1. Tender Schedule-A
2. Terms & Conditions

Notes: 1- Prescribed Tenders form for the subject item may be directly downloaded from PIAC / PPRA website.

ITEM	Qty	Unit Price	Total
<b><u>VERY HIGH FREQUENCY (VHF) BASE SET</u></b>			
With all accessories, Specification as below:	15 EA		
<b>GST 17% (If App)</b>			
<b>Total</b>			

**Prices must be inclusive of all taxes.**

- SCM Department (PIA) will not be held responsible for any postal delay.
- **Validity of Quote:** Quote must be valid for 120 Days countable from date of opening of Technical Bid.
- **Payment Terms:** Payment terms NTD (Net Thirty Days).
- **Deduction of Tax:** Income Tax will be deducted at source.

TENDERER'S SIGNATURE \_\_\_\_\_ DESIGNATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

Cell \_\_\_\_\_ NTN. \_\_\_\_\_

Email \_\_\_\_\_ GST No. \_\_\_\_\_

NTN NO. \_\_\_\_\_ SEAL \_\_\_\_\_

Technical Specification VHF/FM	
General Specification.	
Frequency Ranges	VHF: 136-174MHz
Channel Capacity	1000
Mode of operation	Dual Modes (Analog+Digital)
Channel Spacing	Analog:25KHz ,12.5kHz, Digital:12.5kHz
Operating Voltage	13.6±15%
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Transmitter	
RF Power Output	25W
FM Modulation	11KΦF3E @ 12.5 kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz
Modulation Limiting	±2.5kHz @ 12.5 kHz ±5.0kHz @ 25 kHz

<b>FM Hum &amp; Noise</b>	40dB @ 12.5 kHz 45dB @ 25 kHz
<b>Adjacent Channel Power</b>	60dB @ 12.5 kHz
<b>Audio Response</b>	+1~-3dB
<b>Audio Distortion</b>	≤3%
<b>Digital Vocoder Type</b>	AMBE++
<b>Digital Protocol</b>	ETSI-TS102 361-1,2&3
<b>Receiver</b>	
<b>Sensitivity (Analog)</b>	0.3μV (typical 12dB SINAD)
<b>Sensitivity (Digital)</b>	Typical /BER5%
<b>Selectivity</b> TIA-603 ETSI	65dB@ 12.5kHz/75dB@ 25 kHz 60dB@ 12.5kHz/70dB@ 25 kHz
<b>Intermodulation</b> TIA-603 ETSI	75dB @ 12.5/25 kHz 70dB @ 12.5/25 kHz
<b>Spurious Response Rejection</b> TIA-603zETSI	75dB @ 12.5/25 kHz 70dB @ 12.5/25 kHz
<b>Hum and Noise</b>	40dB @ 12.5 kHz 45dB @ 25 kHz
<b>Rated Audio Power Output</b>	Internal (@ 20ohm load) : 3W External(@ 80ohm load): 7.5W
<b>Max Audio Power Output</b>	Internal (@ 20ohm load) : 8W External(@ 80ohm load): 20W
<b>Conducted Spurious Emission</b>	< -57 dBm

Mandatory Requirement VHF/FM		Date:15/12/2021
S.No	Description	Documents
1	Must fully comply all the technical specifications	Yes/No (Provide Check sheet)
2	Vendor must be OEM or OEM's /Certified Distributer or OEM's Certified Partner	Certificate Required.
3	NTN and Or SECP registration Certificate	Relevant Certificate
4	The vendor must have at least 10 to 15 years' experience in Wireless Equipment business.	Documentary proof
5	The vendor must have physical presence in Karachi, Islamabad and Lahore or atleast in two majot cities i.e. KHI & ISB	Office addresses
6	Must have at least 3 customers to whom Wireless Equipment has been supplied in last 3 years.	Customer Reference
7	Brand must be well known to at least 10 countries and parts are available in Pakistan majer cities in Karachi, Islamabad and Lahore.	Documentary proof
8	The vendor must provide three (03) years standard warranty with parts and labour on site	Documentary proof