

Pakistan International Airlines
Supply Chain Management Department
Commercial Purchases Section,
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Tender No. 19011004-1047

Dated; 13-01-2020

Tender Cost: PKR 6,000

INVITATION TO TENDERS AND INSTRUCTIONS TO TENDERERS

M/S _____

Sub: Tender document for the Procurement of Walkie Talkie

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 SCM Building JIAP Karachi by **29-01-2020**. The tenders may be dropped in the tender box marked as “**Tender Box Commercial Purchases**” placed at the entrance of the PIA SCM Building latest by **10:30** hours on the specified date. You may also send your tenders through registered A/D mail addressed to General Manager Procurement SCM, which must reach before the closing date and time mentioned above. Tenders will be opened at **11:00** 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 Procurement SCM 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.

Financial Proposal having following documents.

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

Technical Proposal having following documents.

- a) Tender Fees Pay Order of RS. 6,000.00 (NON RETURNABLE)
- b) Company profile, Copy of GST & NTN certificate and technical literature.

The outer cover of envelopes should bear address of the General Manager Procurement, PIA SCM 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.

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

Manager (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.

The detailed specifications and terms for ground to ground VHF/FM Wireless Communication are following:

SNo	Description	Specifications
01	Frequency Range	146 To 174Mhz
02	RF/TX power	5 Watts @ < 5% Distortion
03	RX sensitivity	.25uV Analog 0.19uV Digital @ 12 db SINAD
04	Battery Capacity	Hi-Capacity Li-Ion, 2250mA. 16 Hrs Backup (Digital) Minimum
05	Battery Charger	AC 220 Volts Multi Unit / Single
06	Channel Capacity	Minimum 16 Channel
07	Adjacent channel selectivity	50db 12.5Khz to 80 db 25Khz
08	Channel Spacing	12.5 Khz/25 Khz
09	Frequency Stability	0.5 PPM @ 60°C
10	Spurious rejection (TIA 603D)	70db
11	Inter Modulation (TIA 603C)	70 db
12	Spurious Emission Harmonics	- 57 dbm (TIA 603D)
13	Compliance with MIL STD 810F	All specified standards
14	OEM Software	PC based Original , Analog/Digital with programming Equipment & cable
15	Technical Manual	Original(photo copied manual is not acceptable)
16	Operation Manual	Operations / Programming
17	PTT /Voice operated	VOX activated PTT
18	Radio Standards	TIA, RoHS, ETSI, DMR Tier II Complies
19	Digital Mode	DMR standards

Receiver

Selectivity (TIA603) 25 kHz / 12.5 kHz 80 dB (90 dB typical) / 75 dB (82 dB typical)

Selectivity (TIA603D) 25 kHz / 12.5 kHz 80 dB (90 dB typical) / 50 dB (60 dB typical)

Analog Sensitivity 12dB SINAD 0.30 uV (0.22 uV typical) **Digital Sensitivity** 5% BER 0.30 uV (0.20 uV typical) **Signal Displacement Bandwidth** 25 kHz / 12.5 kHz 2 kHz / 1 kHz

Inter-modulation Rejection 25 kHz and 12.5 kHz 85 dB **Spurious and Image Response**

Rejection 85 dB **Audio Response** +1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output **Audio Distortion** Less than 3% (1% typical) at 1000 Hz; 60% RSD **Line Output** 330 mV (RMS) @ 60% RSD **FM Hum and Noise** (750 μs de-emphasis) 25 kHz / 12.5 kHz 50 dB (56 dB typical) / 45 dB (52 dB typical)

RF Input Impedance: 50 Ohms.

Transmitter

Inter-modulation Attenuation: 55 dB 40 dB for 40W and 100W stations; 70 dB for 30W station **Maximum Deviation (RSD)** 25 kHz / 12.5 kHz ±5 kHz / ±2.5 kHz **Audio Sensitivity** 60% RSD @ 80 mV RMS.

Spurious and Harmonic Emissions Attenuation: 90 dB 85 dB **FM Hum and Noise** (750 μs de-emphasis) 25 kHz / 12.5 kHz 50 dB (55 dB typical) / 45 dB (52 dB typical).

Frequency Stability: (for temperature and aging variation) 1.5 PPM/External Ref (optional) **Audio Response** +1, -3 dB from 6 dB per octave pre-emphasis; 300-3000 Hz referenced to 1000 Hz at line output.

Audio Distortion: Less than 3% (1% typical) at 1000 Hz; 60% RSD **Emission Designators FM Modulation:** 12.5 kHz: 11K0F3E; 25 kHz: 16K0F3E **4FSK Modulation:** 12.5 kHz - Data Only: 7K60FXD; 12.5 kHz - Data & Voice: 7K60FXE.

Emission Designators: 11K0F3E, 16K0F3E, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60F7W.

Must be Comprise of following feature:

- Supports two simultaneous voice paths in digital 12.5 kHz TDMA 6.25e compliant FM & 4FSK Frequency Generation Synthesized Channel Spacing Analog / Digital 12.5 kHz, 25 kHz / 12.5 kHz (6.25e compliant) Mode of Operation Simplex / Semi-Duplex / Duplex.
- VHF/FM DMR.
- Divides existing channel into two timeslots, delivering twice the capacity through a single repeater.
 - Analog and digital conventions are all standard in one base station without the cost of additional software or hardware
 - RoHS (Restriction of Hazardous Substances) compliant
 - Operates in analog or digital mode with LED indicating mode of operation.
 - Fully-featured portables Radio unrivalled voice and data communication.
 - Temperature Range -30°C to +60°C
 - Background Noise Suppression.
- VHF 146 to 174 MHz.

Terms of Reference

1. *Equipment should be 100% compatible with all features of DMR Standards*
2. *Supplier must send the technical team for initial installation of software and equipment as per requirement*
3. *Clearance certificate for the final payment will be issued after completion and satisfactory installation of the system.*
4. *The evaluating committee from PIA will be evaluate the acceptance of equipment.*
5. *All PIA procurement policies, PPRA, and Government procedure will be followed.*
6. *Equipment should be latest model*
7. *Two years replacement warranty of equipment and battery will be preferred.*
8. *Spares parts should be available for the next 10 years after the expiry of warranty period.*
9. *Supplier guarantees that the delivered equipment will remain in production for at least next three years after it is purchased.*
10. *Type of approval for equipment Model from PTA Islamabad is compulsory.*
11. *Vendor would be asked to provide two units for demonstration purpose free of charge.*
12. *Certificate of Import / Bill of Entry should be provided by the supplier.*
13. *The Vendor should be Manufacturer / authorized distributor for particular equipment in Pakistan.*
14. *Training of software and hardware for at least three staff members at Bidder's expense for newly introduced models.*

Tender No.19011004-1047

TENDER SCHEDULE-A

<u>S. No</u>	<u>Devices</u>	<u>Qty</u>	<u>Unit Price</u>	<u>GST</u> (If Applicable)	<u>Total Price</u>
01	<u>WALKIE TALKIE</u> Specifications are given Above	18 EA			

General Conditions

1. Participant must be registered with Sales Tax authorities GST & must attach copy of GST Certificate
2. The Vendor should be Manufacturer / authorized distributor for particular equipment in Pakistan.
3. Guarantee & Warrantee must be provided.
4. Income Tax will be deducted at source.
5. All participants are required to mention all taxes in unit rate & GST separately.
6. Payment term net thirty days.
7. Blacklisted / Defaulted parties by PIAC, are not required to participate.
8. All participants must quote one rate and best delivery period.
9. Quotation must be valid for 120 days.
10. Please note that quoted rates must be firmed and final in all respect.
11. Delivery must be made at PIA Supply Chain Management Building, Karachi Airport.
12. Qty 15% may increase or Decrease.
13. Successful bidders shall also be required to submit professional tax. / NOC
14. Supplier can quote for all items. Bid will be awarded on lowest rate basis.
15. PIA may reserve the right to increase or Decrease or cancel the requirement of any or Complete tender with assigning proper reason.

Thanking you,

Tenderer's Signature _____

Designation _____

Address _____

Tel No. _____ Fax No. _____ Email _____

GST No. _____ NTN NO. _____

Seal _____