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## INVITATION AND INSTRUCTIONS TO TENDERERS

**Ref: MPT ( C ) 084C/31/09**

**Date: JUNE 25, 2009**

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

**SUBJECT: SOLID STATE GPU QTY 05**

Dear Sir,

We are pleased to invite your sealed tenders for the requirements 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 tenders enclosed in a Single Package but must contain two envelopes duly marked as "Technical Proposal" and "Financial Proposal" addressed to General Manager Procurement , PIA Procurement Logistics & Food Services Building, latest by **JULY 27, 2009**. The tenders may be dropped in the tender box marked "Tender Box Commercial Purchase" placed at the entrance of the PIA Procurement & Logistics Building latest by **10:30 hours** on the specified date. You may also send your tenders through reputable courier service addressed to General Manager Procurement Technical, which must reach before the closing date and time mentioned above. Technical Bids will be opened at **11:00 hours** on 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 Technical in this respect shall be final and binding.

### **B). SINGLE STAGE – TWO ENVELOP BIDDING PROCEDURE WILL BE FOLLOWED, WHICH IS AS UNDER: -**

- The Bid submitted shall comprise of a Single Package containing two envelopes each envelope shall be marked and will contain 'FINANCIAL' & 'TECHNICAL' Proposal.
- On the given tender opening date only "Technical Proposal" will be opened in the presence of tenderers available.

- ❑ The 'Financial Proposal' shall be shown to the parties but will be retained with PIA without being opened.
- ❑ After Technical Evaluation of the received 'Technical Proposals', Financial Proposals will be opened publicly at a date, time and venue to be announced and will be communicated to the bidders in advance.
- ❑ PIA will open the "Financial Proposal" publicly of the parties whose "Technical Proposal" have been found acceptable.
- ❑ Financial Proposals of the technically non-responsive bids shall be returned unopened to the respective bidders.

**C). EARNEST MONEY (FOREIGN SUPPLIERS ARE EXEMPTED)**

Each Financial Proposal must have 2.0 % Interest free Earnest money ( in shape of Pay Order in the name of M/S.PAKISTAN INTERNATIONAL AIRLINES ) of the total Bid value. This amount is refundable after finalization of subject Tender. The information regarding Earnest Money ( without mentioning the amount ) should be available with Technical Proposal. All tenders without Earnest Money shall not be considered.

**D). SECURITY DEPOSIT**

The successful tenderers upon award of Contract / Work Order, will be required to furnish a cash deposit in the amount equivalent to 5% of total tender value as interest free Security Deposit in the shape of a CR (Cash Receipt) from Accounts Officer Logistics or a Pay Order of an equivalent amount. The Earnest Money already held can be converted into Security Deposit and balance amount if any shall be deposited as above.

**E). PREPARATION OF TENDER – FINANCIAL PROPOSAL – SCHEDULE – 'A'**

- ❑ All information about the material proposed to be supplied must be given as required in the schedule to tender.
- ❑ These tender forms are non-transferable i.e. only those parties who purchased the tender documents will be allowed to participate.
- ❑ 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 procurator.
  - d) As secretary, Manager, Partner, etc., or their attorney in case of firms registered under Partnership Act.
  - e) The Tenderer must indicate whether its firm / company / organization etc is registered with PIA or not. If registered then specify PIA Registration number.

**F). PRICES**

- a) The Prices quoted must be either CIF Karachi Pakistan or FOB JFK/DXB/LHR/CDG/FRA/BJK. 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) Offers must be valid for at least 90 days.

**G). TECHNICAL PROPOSAL:**

PIA's requirement with Technical Specifications are given in schedule 'B'.

Please give all the required technical details of the services / items offered by you, supported with technical literature, brochures, drawings, pictures, clients list etc.

For PAKISTAN INTERNATIONAL AIRLINES

**GENERAL MANAGER (PROCUREMENT)**

Note : Prescribed Tenders form for the subject item can be either obtained on payment of Rs. 1000/= (non-refundable) in shape of **PAY ORDER** from Accounts Officer 2<sup>nd</sup> floor, PIAC Procurement & Logistics building, Karachi Airport, Karachi. OR may be directly downloaded from PIAC website and Tender fee be submitted along with bid in shape of non-refundable **PAY ORDER** of Rs.1000/=

**Enclosed:**

- a) **Technical Specifications.**
- b) **General Terms & Conditions.**

**SPECIFICATION**  
**SOLID STATE CONVERTOR TYPE GPU**  
**AC V 115/200 & 28.5 V DC**  
**(TRAILER MOUNTED)**

S.No.	PARTICULAR	DETAIL
1	In-put	<p>Solid state GPU suitable for simultaneous use, to be used on ATR 42/72 simultaneously 115 / 200 VAC &amp; 28.5 VDC shall convert rated output form given input ranges</p> <p>Voltage 3 x 220 VAC <math>\bar{\pm}</math> 15%</p> <p>Frequency - 50 Hz <math>\bar{\pm}</math> 5%</p> <p>Supply will be made available as per requirement. Please mention current requirement.</p>
2	Out-put	<p><b>a. Power : 30 KVA</b> Voltage : 115 / 200 VAC Phase : Three (03) Frequency: 400 Hz</p> <p><b>b. Voltage : 28.5 VDC</b> Current requirement 600 Ams continuous 900 Ams 30 Sec. 1275 Ams 05 Sec.</p>
3	Power Factor	0.7 Lagging to .95 leading upto 30% un balanced load.
4	Voltage Regulation	<ul style="list-style-type: none"> <li>- Voltage @ aircraft connector <math>\bar{115 \pm 3}</math></li> <li>- Over voltage limits : <math>130 \bar{V} \pm 1 V</math> within 5 sec.</li> <li>- Under voltage limits : <math>100 \bar{V} \pm 1 \bar{V} - 3 \pm 1 S</math></li> <li>- Voltage transit recovery: 30% load change &lt; 0-2 S within voltage limits.</li> <li>- Adjustable voltage range: 115 - 125 V</li> </ul>
5	Frequency regulation	<ul style="list-style-type: none"> <li>- Normal frequency : 400 Hz.</li> <li>- Frequency tolerance : <math>\pm 4</math> Hz max</li> <li>- Over frequency limitation : <math>420 \bar{Hz} - 3 \pm 1 S</math>.</li> <li>- Under frequency limitation : <math>380 \bar{Hz} - 3 \pm 1 S</math>.</li> <li>- Frequency transient recovery: 30% <math>\pm 15</math> Hz 2 S load change</li> </ul>

6	<b>Out-put Cable</b>	One each 30 ft long for AC and DC power supply with sockets suitable for commercial aircraft.
7	<b>Operating conditions</b>	Must be suitable for continuous operation in tropical climate where temperature can exceed 52 C & humidity is high. Noise Emission : 65 dB @ 1 M
8	<b>Protection</b>	<p>a. The protection system shall be so designed to sense and react to isolate the supply and aircraft system in the event of abnormal condition.</p> <p>b. The protective system shall provide indication of faults such as UV, OV, UF, OF PS. There shall be some means for self-test of the protective and indication system</p> <p>c. - Rectified temperature too high. - Over and under voltage trips in case ;     &lt; 20 VDC for more then 4 sec.     &gt; 32 VDC for more then 4 sec.     &gt; 40 VDC for more then 01 sec. <b>Ripple</b> : Less then 01% at full load</p> <p>d. Fault indicating panel be provided.</p>
9	<b>Standard items</b>	As per Annex - A.

**ANNEXER - A****STANDARD ITEMS**

The following items to be provided with the equipment : -

1. Spare wheel front and rear. If identical, only one wheel is required.
2. Standard tool kit (102 pieces).
3. Apron Beacon Light.
4. Recommended Spares Parts List for 2 years with Vender name and address.
5. Wheel Spanner.
6. Fire Extinguisher, as per standard.
7. Master switch to disconnect the batteries in emergency. (Lever type).
8. Flame Trap as per IATA standard.
9. Recommended list of spare parts required for 800-hrs, 1500-hrs & 2000-hrs operation.
10. Guarantee to supply spare parts and accessories for a minimum period of 10 years.
11. In case of failure to response our spare parts, requirement / inquiry. PIA reserve the  
Right to procure the same from else where at the risk & cost of manufacturer.
12. Publications (per unit).
  - a. Operating Manual - 02 copies
  - b. Maintenance Manual - 02 copies
  - c. Illustrated parts list - 02 copies
  - d. Workshop Overhaul Manual - 02 copiesComplete withal technical data
13. Basic primer and white color with anti-corrosion treatment for sea shipment.
14. Training – 05 days at Manufacturer’s premises for 04 persons. Training should include Free boarding lodging for this period

**General Terms & Conditions.**

1. For Local Supplier
  - a. Participant must be an authorized dealer and must annex the copy of authorization from the principal.
  - b. Participant must be registered with Sales Tax authorities & GST No. must be quoted.
  - C. Income tax will be deducted at source.
  - d. Successful bidders shall also be required to submit professional tax. / NOC
2. Guarantee & Warrantee (If any) must be provided.
3. All participants are required to mention all taxes separately.
4. Payment terms are net thirty days.
5. Quotation must be valid for at least 90 days.
6. PIA can accept or reject any or all bids as per PPRA rules.

Tenderer's Signature: \_\_\_\_\_

Designation \_\_\_\_\_

Address: \_\_\_\_\_

Seal \_\_\_\_\_

\_\_\_\_\_