

**PLEASE READ CAREFULLY**

- ❖ Participating bidder is required to submit bid according to instructions mentioned in bidding documents. These bid should meet the requirements / criteria illustrated in bidding documents along with fulfillment of other terms and conditions of tenders.
  
- ❖ According to PPRA rule 31 no bidder is allowed to alter or modify his bid after the bids have been opened. Moreover, as per rule 36 (vi) no amendment in the technical proposal is permitted during technical evaluation. Therefore in the light of prevailing Govt procedures, requests for amendments in quotations and clarifications leading to change of substance of bid after opening of bids cannot be accepted and bids not conforming to tender requirements are liable to be rejected.
  
- ❖ Participating bidder is therefore requested to read the bidding documents thoroughly and submit their quotes accordingly without any condition in conformance to all tender requirements including DP, Bid validity, provisioning of original quotation from foreign principal, 10% BG confirmation etc for consideration of bid. Bids found non-conforming to tender requirements are liable to be rejected on tender opening date.



**GOVERNMENT OF PAKISTAN  
MINISTRY OF DEFENCE PRODUCTION  
PAKISTAN AERONAUTICAL COMPLEX BOARD KAMRA**

**INVITATION TO TENDER AND GENERAL INSTRUCTIONS TO BIDDERS  
[SINGLE STAGE ,TWO ENVELOPE]  
**(FOB)****

**Tender No PACB/721/130319100/0533/P-3**  
Directorate of Central Procurement  
Pakistan Aeronautical Complex Board  
Kamra Distt. Attock  
Tel: +92-051-90990-2543, 2244  
Fax: +92 (057) 9317491  
Email: adcp@pac.org.pk  
April, 2019

**PAC & PPRA Websites**

Dear Sir,

1. I invite you to tender for supply of store / services details in the attached **Schedule to Tender** (Form PACB -002A)

2. **CONDITION GOVERNING CONTRACTS.** The “Contract” made as a result of this Tender Inquiry shall mean the agreement entered into between the parties i.e. the “Purchaser” and the “Seller” on PACB Contract Form (PACB – 003) in accordance with the law of contract Act, 1872 and those contained in PAC purchase procedures and other special conditions that may be added to given contract for the supply of PAC stores specified therein.

3. **DELIVERY OF TENDER.**

(a) **Technical Offer:** It shall contain all relevant specifications along with essential literature / brochure in duplicate in a separate envelope and clearly marked “**Technical Offer without prices**”, tender number and date of opening.

(b) **Commercial Offer:** It shall indicate prices quoted in figures as well as in words and clearly marked on face of a separate envelope “**Commercial Offer with prices**”, tender number and date of opening.

(c) Both the “**Envelops**” of Technical and Commercial offers should be enclosed in one cover, properly sealed and bear the address of Directorate of Central Procurement (DCP) PACB Kamra with tender number and opening date.

**Bid Security shall be sealed in an envelope separate from technical and financial bids.**

4. **FORM PACB - 002A & PACB - 002B:** Form **PACB - 002A & PACB - 002B (Annexure D & E)** duly filled-in are to be returned with the offer duly signed by the authorized signatory person of bidding firm.
5. **SINGLE/MULTIPLE OFFERS:** Only one offer can be made in relevant currency for same item. Multiple rates, if quoted, will be rejected. Multiple quotation against the tender will also be rejected.
6. **DATE & TIME FOR RECEIPT OF TENDER:** The tender must reach DCP PACB Kamra by the date and time specified in the **Schedule to Tender** (PACB – 002A attached). Tenders received after the prescribed date and time will, NOT be entertained. The appointed time will, however fall on next working day in case of closed/forced holiday. Telegraphed / Faxed / Telexed bids will be rejected unless specifically asked for. Tender can also be sent through courier however you are required to intimate this office (DCP) regarding dispatch of quotation through courier giving details of the courier through fax so that courier service may be tracked to ensure your participation in the Tender. In case tender is despatched by courier then same should reach DCP, PAC Board at least 01 day prior to tender opening date. You or your representative may also attend the proceeding (Name / Designation of attendees' along with copy of CNIC will be required 03 days prior to tender opening date for arranging their entry).
7. **DELIVERY PERIOD:** Stores are required within minimum possible delivery period but **not later than 18 months from signing of the contract**. Offers with minimum delivery period are likely to be preferred. However delivery period is to be factual as no extension will be subsequently granted except under unavoidable circumstances beyond control of SELLER or under Force Majeure for which intimation with full justification / evidences is to be dispatched well in advance for consideration.
8. **RIGHTS RESERVED:** PAC Board Kamra reserves the right to accept or reject any tender and to annul the tendering process and reject all tenders at any time prior to contract award as per rule 33 of PPRA rules 2004 without thereby incurring any liability to the affected Bidder. Moreover, past performance of the firms may also be considered.
9. **ADDITION AND DELETION OF STORE:** The purchaser has the right to increase or decrease the quantity of any item and cancellation of the contract partially or fully without any financial repercussion on either side without assigning any reason within 30 days of signing the contract. Such information will be passed on to the supplier / seller through the fastest means e.g. telephone, telegram or fax etc.
10. **VALIDITY OF QUOTATION:** The quotation be valid till **30 June, 2019**.
11. **TECHNICAL LITERATURE, SPECIFICATIONS AND INTERCHANGEABILITY:**

Offers are to be submitted in duplicate supported by brochures and technical literature in original. Offers must conform to tender specifications. A certificate of complete interchangeability must be endorsed on the quotation for all substitute or in-lieu items, otherwise the same are likely to be rejected. A copy of relevant page of publication must be attached to prove correctness of offered / interchangeable / in-lieu item. Prices of

master, substitute and in-lieu items must be quoted separately. **Firms may contact Tel Ext 051-90990-2260, E-mail arflog@pac.org.pk or Directorate of Log, ARF PAC Karma District Attock.**

**12. DEVIATION FROM SPECIFICATIONS:** Stores received at consignee, if found not conforming to the contract specifications will be rejected and replacement in accordance with contractual specifications against rejected stores would be provided to consignee as per delivery schedule laid down in the contract. The replacement will be provided without any additional cost. In case stores are rejected after delivery schedule of the contract, replacement is to be provided at the earliest or by the date advised by Directorate of Central Procurement PAC Board.

**13. PACKING:** Stores must be dispatched in standard trade packing unless otherwise specified to protect them against any damage. Any loss/damage caused due to poor packing will be recovered from the Supplier. In case items are shipped through sea, packing shall be sea worthy.

**14. RESTRICTION OF EXPORT / IMPORT LICENSE:** Offer subject to restriction of Import/Export License will not be entertained.

**15. APPLICATION OF OFFICIAL SECRET ACT 1923:** All matters connected with this inquiry and subsequent actions arising thereafter fall within the scope of the Pakistan Official Secret Act 1923 which forbid providing contractual information to un-authorized / un-concerned person / organization. It is therefore, requested to ensure complete secrecy regarding documents and stores concerned with the inquiry to limit the number of employees having accesses to this information.

**16. QUOTING OF PRICES:** Prices are to be quoted as follows: -

(a) FOB price of the stores (Line Item Wise).

(b) Percentage of agent commission (on Ex-Factory price). Agent commission is to be exclusive of quoted price. Principal must indicate if agent commission is not applicable. If there is no indication of agent commission in principal's Performa invoice, agent commission will neither be given by the principal nor by the Buyer.

(c) The prices must be stated for each item separately both in figures and words. Additional information if any must be linked with entries on the Schedule to Tender (Form **PACB – 002A**)

(d) Original quotation from the foreign manufacturer / supplier / principal must be attached in support of the quoted price. Principal is to endorse following certificate on the original quotation:-

“Certified that stores offered are factory new and from latest production and prices quoted are not more than the international market prices and also not more than those being charged from other buyers “.

(e) Shelf / installation life of each item (if applicable) is to be mentioned separately.

- (f) Certificate as per attached Annex "A" duly signed by the principal and agent must be attached with quotation.

**17. PROVISION OF OEM CERTIFICATE:**

Certificate of OEM for certified vendors or Agency Agreement must be attached with quotation.

**18. DISQUALIFICATION:** Offers are liable to be rejected if:-

- (a) There is deviation from any instruction described in this invitation to tender.
- (b) Offers are found conditional or incomplete in any respect.
- (c) Multiple quotations against the tender.
- (d) Multiple rates are quoted against one item.
- (e) Manufacturer relevant brochure is not attached (in case of equipment or major assemblies of equipment).
- (f) **Annexure "A", Form PACB-002A (Annexure "D") and PACB-002B (Annexure "E")** duly filled – in and signed by the Bidders are not received with the offer.
- (g) Offer received later than appointed date and time.
- (h) Tender specification if not conforming to the offer. In case of equipment/ major assemblies manufacturer's brochures shows specifications different from those given in tender.
- (j) Offer subject to restriction of Export License.
- (k) Over writing / erasing in prices.
- (l) Change in prices by the supplier after opening of commercial offers unless asked by Directorate of Central Procurement PAC Board.
- (m) Validity of offer is not quoted as required in IT or made subject to confirmation later.
- (n) Offers not accompanied with prescribed tender / Challan fee of Rs. 200/-
- (p) Bid Security not provided.
- (q) **Performa Invoice of Principal / Principal Invoice**, in duplicate clearly indicating whether prices quoted are inclusive of the agent commission, is not enclosed.

- (r) Agency agreement of agent with Principal / OEM and link between Principal and OEM is not provided.
- (s) The validity of agency agreement has expired.
- (t) Offer without certification of OEM.
- (u) If OEM and principal name, contact details (Ph No, Fax No, Email etc) and complete address is not mentioned.
- (v) Offer with Prior sale condition.

**19. PAYMENT:** Payment of 80% may be allowed on dispatch of stores through Letter of Credit and remaining 20% on issuance of Certificate Receipt Voucher (CRVs) by Consignee. 10% Performance Bank Guarantee is to be submitted at the time of signing of contract.

**20. SEQUENCE OF QUOTATION:** Quotation must be prepared according to the item serial no sequence of Schedule to Tender (Form **PACB-002A**).

**21. WARRANTY / GUARANTEE OF STORE:** Warranty / guarantee for a period of one year / mentioned in specification of item(s) be applicable for stores commencing from acceptance of store at consignee.

**22. COUNTRY OF ORIGIN AND MODE OF SHIPMENT:** Following details must be provided in your offer / quotation and Performa invoice: -

- (a) Country of origin, place of manufacture of store and beneficiary should be mentioned.
- (b) Name of port connecting PIAC aircraft / PNSC ship where from the store will be shipped. The firm may like to ensure the availability of PIA flight or PNSC operation from the port of shipment before signing the contract.
- (c) Where PNSC or PIAC do not operate, the supplier would ship the stores through Pakistan / Foreign flag Vessel / Airline on freight pre-paid basis with prior approval of procuring agency and claim it subsequently. Freight and Insurance charges should not exceed 7.53% of FOB value of the stores.

**23. FAX QUOTATION:** Fax / Email quotations will not be accepted except when specifically called for under emergency / urgency, however, Fax / Email quotation, if received will only be considered subject to condition that original Performa invoice for each quotation is received within 7 days of Tender Inquiry opening or as advised by procurement agency. In case original quotation is not received within specified time, the offer will be excluded from the competition without any notice to bidder.

**24. LC CHARGES:** Payment will be made through irrevocable and non-transferable Letter of Credit. LC opening / advising confirmation and additional charges will be borne by the beneficiary / supplier as per prevailing Bank rates. LC charges within Pakistan will be borne by the purchaser. Charges outside Pakistan are to borne by the seller. Any additional charges incurred due to request of supplier will be borne by the supplier.

- 25. QUALITY INSPECTION:** Items supplied are liable to be inspected by the quality inspectors of to the respective factory of PAC before acceptance.
- 26. SUBMISSION OF CERTIFICATE:** The certificate as per attached Annexure "A" is to be submitted along with offer / quotation.
- 27. TENDER OPENING:** Technical offer i.e. without prices will be opened on the date and time mentioned at Annex "C" of tender in the presence of bidders" representatives who choose to attend. The bidders" representatives who are present shall sign a tender opening register / form evidencing their attendance. However time and date for opening of Commercial offers of all those firms whose technical offers are accepted will be intimated later. Commercial offers of firms, which are not technically accepted will be returned to the firms un-opened. Representative of Foreign Liaison Office will not be allowed to attend Tender Opening unless it is registered with Pakistan Aeronautical Complex Kamra. No unauthorized person will be allowed to attend the tender opening.
- 28. BID SECURITY:** The Bid Security@ 5% (not exceeding 0.150 M) will be deposited by all firms. Bid Security will be deposited in favour of CMA (DP) in the form of CDR / Pay order / Demand draft only at the time of tenders opening (with technical quotation), in a separate envelope. Bid Security will be returned to all firms except three commercially lowest bidding firms on finalization of commercial quotes. Whereas Bid Security to the 2nd and 3rd commercially lowest bidders will be returned on signing of the contract. Bid Security of the contract concluding firm will be returned on submission of bank guarantee and on receipt of performance bank guarantee acceptance certificate from CMA. Quotations once submitted cannot be withdrawn (Partially/Fully) during validity of the quotation. Firms not complying with the said instructions would be liable for disciplinary action beside forfeiture of the earnest money.
- Note: - No Quote will be accepted without Bid Security which will be as per IT clause 28. However, Bid Security must be provided in shape of CDR / Pay order / Demand draft only otherwise your quotation will be rejected.**
- 29. END USER CERTIFICATE (EUC):** EUC if required at any stage may be mentioned in the quotation.
- 30. CHECKING OF STORE:** Store will be checked at consignee in the presence of representative of Supplier if he arrives within 15 days after initiation of letter.
- 31. WITHDRAWAL OF OFFER:** If the firm withdraws its offer or backs out from providing items won by the firm within validity period at any stage of contract finalization, the Competent Authority may place such firm under Embargo for a period of six months, which may extend upto one year / forfeit the earnest money.
- 32. TREASURY CHALLAN:** Offer must be accompanied with a challan form of RS 200/- (obtainable from State Bank of Pakistan / Government Treasury) and debit able to **Major Head C02501-20, Main Head 12, Sub Head 'A' Miscellaneous (Code Head 1/845/30)**. Only one offer can be made for same item on one Challan. Multiple offer / rates, if quoted will be rejected.

**33. DOCUMENTS REQUIRED:** Following information's / copies of document must be provided with Tender: -

- (a) Photo copies of valid registration and indexation of foreign principal with PACB/DGDP applicable to the store / equipment offered.
- (b) A copy of letter showing firm's financial capability. Bank statement for last 01 year and other details to ascertain financial capability of firm.
- (c) Copies of audited accounts of the company for the last two accounting years that are prepared in accordance with the International Accounting Standards (IAS).
- (d) Photo copies of General Index number (GID), National Tax number (NTN), Sales Tax registration certificate. Foreign firms are required to provide copy of the company's valid Tax Compliance certificate issued by Revenue Authority of the domiciled country, valid as at the tender closing date.
- (e) Documentary evidence of the company's registration details / Certificate of Incorporation (Legal structure) by a recognized body in the domiciled country. Registration number issued by respective Department of Commerce or concerned department authorising to deal in subject store and export of store.
- (f) List and evidence of certification from recognized international bodies like ISO.
- (g) List of major clients and references (complete with names of contact persons, address and telephone numbers) of which the company has supplied similar items in the last 05 years. Number of years in the business or dealing in similar items may also be mentioned.
- (h) Firm/Supplier name, complete address, contact numbers, and email addresses.
- (j) Undertaking that their firm and their proprietors have not been in litigation/blacklisted by any Govt./Semi-Govt/Autonomous body.
- (k) Any other document if required during procurement proceedings according to Rule 17 of PPRA rules 2004.

**Note: Security clearance of firm is mandatory before participation in tender. Firms having applied for security clearance or those intend to apply for security clearance soon after tender date can also participate in tender after submission of following additional documents. However firm will be required to apply for security clearance immediately after tender submission.**

- (a) In case of foreign supplier photocopy of resident card, passport or equivalent identification card of person signing the tender is to be provided along with 02 passport size photographs.
- (b) Local agents / firms have to submit the copy of CNIC and 02 passport size photographs of person signing tender.



(c) Letter of authorisation from the Manufacturer confirming that the bidder is authorized to deal with the item quoted.

#### **34. FORCE MAJEURE**

“Force Majeure” means any event, act / or other circumstances not being an event, act or circumstances, under the control of the Purchaser or of the Seller. The Seller will notify the Purchaser in writing of any such event within 15 days by Fax/Telex/Telegram of its commencement, which is relied upon by the Seller for its failure to comply with its obligation. The Purchaser have the right to conduct investigations to satisfy itself about the genuineness of the “Force Majeure” event Non-availability of raw material for the manufacture of stores, or of export permit for the export of the contracted stores from the country of its origin, not constitute “Force Majeure”.

#### **35. ARBITRATION**

All matters of dispute or difference, except regarding rejection of stores / Services by the Project Management Office (PMO) / Quality inspector or cancellation of the contract by the Purchaser arising out of this contract between the parties hereto, the same shall be settled by mutual agreement, failing which they shall refer for Arbitration to a final settlement by an Arbitration Tribunal, in Pakistan comprising three arbitrators. One arbitrator shall be appointed by each party and the third arbitrator being appointed by the two arbitrators already appointed or in the event that the two Arbitrators do not agree upon the third arbitrator, a judge of superior court of Pakistan shall appoint the third Arbitrator. The arbitration proceedings will be held at PAC Kamra District Attock Pakistan. The arbitration award shall be un-spoken.

#### **36. LITIGATION**

In case of any dispute only Court of Jurisdiction at Attock Pakistan will have the Jurisdiction to decide the matter.

#### **37. RISK PURCHASE**

In the event of failure on the part of the Seller to comply with the contractual obligations, the contract is liable to be cancelled at his risk and expense in accordance with General Condition Governing Contracts.

#### **38. TERMINATION OF CONTRACT.**

(a) If at any time during the currency of the contract the Purchaser decides to terminate the contract for any reason whatsoever (other than for reasons of Non-Delivery) he shall have right to do so by giving the Supplier a registered notice to that effect. In that event the Purchaser will accept delivery at the contract price and terms of such stores/goods/services which are in the actual process of manufacture that is completed and ready for delivery within thirty days after receipt by the Supplier of such notice.

(b) In the case of remainder of the undelivered stores/goods/services the Purchaser may elect either:

(i) To have any part thereof completed and take the delivery thereof at the contract price or.

(ii) To cancel the remaining quantity / services and pay to the Supplier for the articles or sub-components or raw materials purchased by the Supplier and are in the actual process of manufacture at the price to be determined by the Purchaser. In such a case materials in the process of manufacture shall be delivered by the Supplier to the Purchaser.

(iii) No payment shall however be made for any materials not yet in the actual process of manufacture on the date notice of cancellation is received.

(c) Should the Supplier fail to deliver goods/services in time as per quality terms of contract or fail to render Bank Guarantee within the stipulated time period or any breach of the contract the Purchaser reserves the right to terminate/cancel the contract fully or any part thereof at the risk and expense (RE) of the Supplier.

### **39. SECURITY DEPOSIT / BANK GUARANTEE:**

To ensure timely and correct supply of stores / services, the firm shall furnish an unconditional bank guarantee (BG) from a scheduled bank of Pakistan for an amount up to 10% of the contract value on a judicial stamp paper of the value of (Rs 100.00) as per prescribed format in the currency same as of contract. The bank guarantee shall be endorsed in favour of CMA (DP) who is the accounts officer specified in the contract. CMA (DP) have the like power of seeking encashment at site of the bank guarantee as if the same has been demanded by the purchaser himself. The bank guarantee shall be submitted by the supplier at the time of Contract signing and will remain valid for up to 60 days after completion of warranty period and remain in force till one year ahead of the date given in the contract. If period of contract is extended, the supplier shall arrange the extension of bank guarantee within 30 days after the original period to keep its validity always one year ahead of the extended period.

### **40. LATE DELIVERY**

If the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may take following actions:-

(a) Cancel the contract, and/or.

(b) To purchase from elsewhere stores not delivered, at the risk and expense of the Supplier and without notice to him, or

(c) To recover liquidated damages when the Competent Purchase Officer is satisfied that the failure to supply the stores / services within the scheduled delivery period has been for reasons within the control of the Supplier, and/or if the Government has suffered loss for reasons of belated delivery. These liquidated damages, if imposed, will be recovered at the rate of up to 2% but not less than 1% (depending on the merit of the case as decided by Competent Purchase Officer) of the value of stores / service supplied late per month or a part of a month for the period exceeding the original delivery period, subject to the provision that the total

liquidated damages thus imposed will not exceed 10% of the total value of the stores / services delivered late.

(d) The purchaser's decision under this clause shall NOT be subjected to arbitration.

**41. AUTHORITY TO SIGN DOCUMENTS:** Tender must be accompanied by Letter of Authorization to sign the Tender on behalf of the Bidder. Bidder must prove that the person who signs this Tender is fully authorized to bind his establishment / company. Such proof shall be in the form of clear official documents fully legalized by designated authorities in respective countries.

**42. PRIOR INTIMATION REGARDING SUBMISSION OF QUOTATION:** To avoid misplacement of the quotations, all firms are required to intimate this office regarding dispatch of their quotation through courier giving details of the courier through telephone / fax, so that courier service may be tracked to ensure your participation in the competition.

**43. BIDDING CLARIFICATIONS TO TENDER:** In case any clarification is required regarding tender, firm may contact on following address however, queries in regards to the tender shall only be entertained till one week prior to the deadline for submission of tenders.

**Technical Clarification:** Directorate of Log ARF PAC Kamra Tel No 051-90990-2260 (Email: arflog@pac.org.pk)

**Bidding / Contracting Procedure:** Directorate of Central Procurement PAC Board Kamra Tel No 051-90990-2543 (Email: adcp@pac.org.pk)

Yours sincerely,

**(IMRAN BIN IRFAN)**  
Squadron Leader  
Dy Dir Central Proc  
PAC Board Kamra  
Tel: 051-90990-2576

**Enclosure: -**

- |   |                                     |
|---|-------------------------------------|
| (i) Certificate (Annex "A")                 | (ii) Questionnaire (Annex "B")      |
| (iii) Schedule of Stores (Annex "C")        | (iv) Form (PACB – 002A) (Annex "D") |
| (v) Form (PACB – 002B) (Annex "E")          | (vi) Form (PACB – 002C) (Annex "F") |
| (vii) Details of Bank Guarantee (Annex "G") |                                     |

**CERTIFICATE**

**TENDER / CONTRACT No PACB/721/130319100/0533/P-3**

It is certified that no person, firm, cooperation, subsidiary or entity in Pakistan or elsewhere shall directly receive any rebate, bonus commission, gift or favour in cash or kind other than commission allowed to M/S ( FULL NAME TITLE OF THE COMPANY WITH ADDRESS) against contract No \_\_\_\_\_ dated\_\_\_\_\_. In case if it is discovered that contents of this certificate have been infringed / violated by the supplier the purchaser will have the right to cancel the contract and / or impose a penalty equal to 25% of the contract value.

**AGENT**

\_\_\_\_\_  
\_\_\_\_\_

Seal & Signature

**PRINCIPAL**

\_\_\_\_\_  
\_\_\_\_\_

Seal & Signature

**COUNTERSIGNATURE**

\_\_\_\_\_  
\_\_\_\_\_

Director Central Procurement

Seal & Signature

**QUESTIONNAIRE TO BE FILLED IN BY BIDDER**

Firm is required to provide confirmation of following points and in case of any change, same is to be highlighted in remarks column.

S No	Description	Yes / No	Remarks
	Whether stores offered conform to the specification and confirmation to this effect has been made in the quotation given in Form <b>PACB – 002A</b> .		
2.	Whether deviation from the demanded specification is attached with <b>Form PACB – 002A</b> .		
3.	Whether complete quotation has been submitted in duplicate.		
4.	Whether the prices are exclusive of taxes/duties if so whether taxes/duties have been shown separately.		
5.	Whether <b>Form PACB–002A &amp; 002B</b> duly filled in and signed by the Bidder have been returned in herewith.		
6.	Whether original invoice Performa from principal has been enclosed herewith.		
7.	Whether copy of valid registration / business authorization of firm have been enclosed herewith.		
8.	Whether tender fee challan amounting to Rs 200/- has been enclosed herewith.		
9.	Whether details of financial capability (Bank Statement etc.) and financial load of contracts outstanding against your firm have been provided.		
10.	It is confirmed that no Taxes / Duties & Dues payable to Pakistan Govt are outstanding at the part of vendor / firm.		
11.	Copy of NTN <b>OR</b> Equivalent Tax compliance Certificate (for foreign firms) has been attached.		
12.	It is confirmed that firm and their proprietors have not been in litigation / blacklisted by any Govt./Semi-Govt / Autonomous body		
13.	Valid, original agency agreement has been attached with quotation.		
14.	Unit Price has been provided against same unit of issue as mentioned in IT. In case of change in unit of issue, price has been converted as per ITs unit of issue in a separate column along with conversion formula		
15.	Specimen of End User Certificate has been attached (If required)		
16.	Country of origin and port of shipment have been mentioned.		
17.	All requisite documents as per <b>Para 33</b> of Invitation to tender have been attached.		
18.	10% PBG will be provided at the time of signing of contract		
19.	Warranty / Guarantee will be provided for required period		
20.	Letter of Authorization to sign Tender Documents on behalf of firm has been attached.		
21.	Incoterm is as per IT .i.e. FCA / FOB		
22.	Offer is without any condition		

**Dated:** \_\_\_\_\_

**(Signature of Bidder & Stamp)**

**SCHEDULE OF STORES**Tender Inquiry No: - **PACB/721/130319100/0533/P-3**

TENDER SUBMISSION TIME: - Before 1030 Hrs on opening date

TIME & DATE OF OPENING **1100 Hrs on 06-05-2019**

**(Note:** Firms are requested to read carefully all the paras of IT. Moreover, unit price against same unit of issue as mentioned in IT is to be provided. However, if any change may be required in unit of issue the price must be converted as per IT's unit of issue in separate column. Furthermore, conversion of unit of issue and unit price must be mentioned in commercial quote.)

**PROCUREMENT OF EQUIPMENT FOR AEROSPACE MATERIAL CHARACTERIZATION CENTRE**

<b>Item</b>	<b>Qty</b>
<b>Scanning Electron Microscope(SEM)</b>	<b>01 Ea</b>
<b>Spectrometer</b>	<b>01 Ea</b>

**SPECIFICATIONS OF OPTICAL EMISSION SPECTROMETER**

<b>S. No</b>	<b>Feature</b>	<b>Specifications / Range</b>
1.	System	Hybrid System including Photomultiplier Tubes (PMT) detectors and Digital Charge Coupled Device (CCD) sensors
2.	Type	Optical Emission type
3.	Spectral Field/ Wavelength	120-780 nm
4.	Optic System	<ul style="list-style-type: none"> <li>• Holographic Gratings: 3600, 2924 and 2400 grooves/mm</li> <li>• Rowland circle with 750 mm focal length</li> <li>• Stabilized against temperature fluctuations</li> <li>• Effective wavelength range: 120-780 nm</li> <li>• Gas filled UV optic for wavelengths &lt; 200 nm</li> <li>• Self-regulating purification system</li> <li>• Argon flushed light path</li> </ul>
5.	Excitation System	<ul style="list-style-type: none"> <li>• Sampling rate: 400 in 200 <math>\mu</math>s-discharge</li> <li>• Energy resolution: 125 mW</li> <li>• Spark duration: 4000 <math>\mu</math>s</li> <li>• Spark power: 4 KW</li> </ul>
6.	Spark Stand	<ul style="list-style-type: none"> <li>• Open spark stand for high sample throughput</li> <li>• Analysis of samples with various kinds of geometries</li> <li>• Optimized Argon flow</li> <li>• Temperature absorbent design, No water cooling</li> </ul>

S. No	Feature	Specifications / Range
7.	Power Requirement	220 VAC $\pm$ 15%, 50/60 Hz
8.	Computer System	<ul style="list-style-type: none"> <li>• External, state-of the-art computer system</li> <li>• Windows Operating System</li> <li>• Keyboard and mouse</li> <li>• LED / TFT Screen</li> <li>• Printer</li> </ul>
9.	Software	<p>Calibration Module Software</p> <ul style="list-style-type: none"> <li>• User-friendly operator interface</li> <li>• Integrated SQL database for processing, reporting and archiving of measurement results</li> <li>• Visual diagnostic and maintenance system</li> <li>• Safety Test of Usefulness for the recognition of bad sample surfaces during the pre-spark</li> <li>• Self Regulated Pre-Spark for the optimization of the pre-spark time</li> <li>• Security Test for Measurement for the recognition of bad samples during the integration time</li> </ul>
10.	Accessories	<p>The seller shall provide:-</p> <ul style="list-style-type: none"> <li>(a) Wire Adapter Set</li> <li>(b) Outer Dia Tube Adapter Set</li> <li>(c) Metallographic Polisher</li> <li>(d) Diamond Dust / Paste (Qty 10 Bottles)</li> <li>(e) Calibration samples</li> <li>(f) Spectrometer Sample Cutting Equipment <ul style="list-style-type: none"> <li>(i) Small Lathe Machine</li> <li>(ii) Small Milling Machine</li> </ul> </li> <li>(g) Spare Parts and Consumables Kit</li> <li>(h) 1000X Inverted Metallurgical Microscope</li> </ul>
11.	Analytical Scope	<p>Capable of analyzing Ten standard matrices ( Fe, Al, Cu, Ni, Co, Mg, Ti, Sn, Pb and Zn)</p> <p>Capable of quantitative chemical analysis of:-</p> <ul style="list-style-type: none"> <li>• Copper Alloys:- Bronze, Pb-Bronze, Al-Bronze, Brass, High alloyed Brass, Copper, Cu-Ni, Cu-Be-Co</li> <li>• Ferrous Alloys:- Cr steel, Stainless Steel, Tool Steel, Free Cutting Steel, Manganese Steel, Ferrous, Carbon &amp; Low alloy Steel</li> <li>• Aluminium Alloys:- Al-Si, Al-Si-Cu, AL-Cu, Al-Mg, Al-Zn, Aluminium, Low Alloy Aluminium</li> <li>• Nickel Alloys</li> <li>• Zinc Alloys</li> <li>• Titanium Alloys</li> <li>• Magnesium Alloys</li> <li>• Cobalt Alloys</li> <li>• Tin Alloys</li> <li>• Lead Alloys</li> </ul> <p>Can measure wires / wire like specimens</p>

S. No	Feature	Specifications / Range																																																																																																																																																																																																																																
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12.		<p>Matrix:-</p> <ul style="list-style-type: none"> <li>Ferrous, Aluminum, Copper, Nickel, Zinc, Titanium, Magnesium, Cobalt, Tin and Lead</li> </ul> <table border="1"> <thead> <tr> <th colspan="2">Cu</th> <th colspan="2">Fe</th> <th colspan="2">Al</th> <th colspan="2">Mg</th> <th colspan="2">Ni</th> <th colspan="2">Ti</th> <th colspan="2">Zn</th> </tr> </thead> <tbody> <tr> <td>Ag</td> <td>0.01-0.2</td> <td>Al</td> <td>0.01-1.5</td> <td>Al</td> <td>REF</td> <td>Al</td> <td>1-10</td> <td>C</td> <td>0.05-1.5</td> <td>Al</td> <td>1-10</td> <td>Al</td> <td>0.5-10</td> </tr> <tr> <td>Al</td> <td>0.01-12.0</td> <td>C</td> <td>0.01-4.1</td> <td>Be</td> <td>0.01-0.1</td> <td>Mn</td> <td>0.05-5</td> <td>Mn</td> <td>0.02-2</td> <td>Sn</td> <td>1-10</td> <td>Cu</td> <td>0.03-4</td> </tr> <tr> <td>Be</td> <td>0.05-2.5</td> <td>Co</td> <td>0.01-10.0</td> <td>Co</td> <td>0.05-0.4</td> <td>Zn</td> <td>0.01-8</td> <td>Si</td> <td>0.05-2</td> <td>Mo</td> <td>1-34</td> <td>Mg</td> <td>0.03-0.5</td> </tr> <tr> <td>Co</td> <td>0.01-3.0</td> <td>Cr</td> <td>0.01-30</td> <td>Cr</td> <td>0.01-0.5</td> <td>Ze</td> <td>0.05-0.5</td> <td>Cr</td> <td>5-30</td> <td>V</td> <td>1-12</td> <td>Pb</td> <td>0.0003-0.5</td> </tr> <tr> <td>Cr</td> <td>0.008-0.05</td> <td>Cu</td> <td>0.01-4.0</td> <td>Cu</td> <td>0.01-8.0</td> <td>Zr</td> <td>0.05-1.5</td> <td>Co</td> <td>2-25</td> <td>Cr</td> <td>1-10</td> <td>Fe</td> <td>0.0003-0.5</td> </tr> <tr> <td>Cu</td> <td>REF</td> <td>Fe</td> <td>REF</td> <td>Fe</td> <td>0.01-1.3</td> <td>Mg</td> <td>Ref</td> <td>W</td> <td>0.05-25</td> <td>Fe</td> <td>0.05-4</td> <td>Ni</td> <td>0.0003-0.5</td> </tr> <tr> <td>Fe</td> <td>0.01-6.0</td> <td>Mn</td> <td>0.01-18</td> <td>Mg</td> <td>0.01-10</td> <td>Cu</td> <td>0.01-0.2</td> <td>Mo</td> <td>0.05-10</td> <td>Mn</td> <td>0.05-3</td> <td>Sn</td> <td>0.0003-0.5</td> </tr> <tr> <td>Mn</td> <td>0.01-5.0</td> <td>Mo</td> <td>0.01-7.0</td> <td>Mn</td> <td>0.01-1.3</td> <td>Ni</td> <td>0.001-0.2</td> <td>Al</td> <td>0.05-8</td> <td>Zn</td> <td>0.05-3</td> <td>Zn</td> <td>Ref</td> </tr> <tr> <td>Ni</td> <td>0.01-30.0</td> <td>Nb</td> <td>0.01-1.5</td> <td>Ni</td> <td>0.05-2.5</td> <td>Si</td> <td>0.05-0.3</td> <td>Ti</td> <td>0.05-5</td> <td>Pd</td> <td>0.05-0.5</td> <td>-</td> <td>-</td> </tr> <tr> <td>Pb</td> <td>0.01-20</td> <td>Ni</td> <td>0.01-30</td> <td>Si</td> <td>0.01-20.0</td> <td>Be</td> <td>0.01-0.05</td> <td>Nb</td> <td>0.05-6</td> <td>Ni</td> <td>0.05-1.0</td> <td>-</td> <td>-</td> </tr> <tr> <td>Si</td> <td>0.01-5.0</td> <td>Pb</td> <td>0.01-0.1</td> <td>Sn</td> <td>0.05-0.3</td> <td>Fe</td> <td>0.01-0.1</td> <td>Ta</td> <td>0.05-5</td> <td>Cu</td> <td>0.05-1.0</td> <td>-</td> <td>-</td> </tr> <tr> <td>Sn</td> <td>0.01-15.0</td> <td>Si</td> <td>0.01-3.5</td> <td>Ti</td> <td>0.01-0.5</td> <td>Others</td> <td>0.01-0.3</td> <td>Fe</td> <td>0.05-20</td> <td>Si</td> <td>0.05-0.5</td> <td>-</td> <td>-</td> </tr> <tr> <td>Zn</td> <td>0.01-40.0</td> <td>Ti</td> <td>0.01-0.5</td> <td>V</td> <td>0.01-0.2</td> <td>-</td> <td>-</td> <td>Ni</td> <td>Ref</td> <td>Nb</td> <td>0.05-3</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>V</td> <td>0.005-3.5</td> <td>Zn</td> <td>0.01-8.0</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Ti</td> <td>Ref</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>W</td> <td>0.01-15</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Cu		Fe		Al		Mg		Ni		Ti		Zn		Ag	0.01-0.2	Al	0.01-1.5	Al	REF	Al	1-10	C	0.05-1.5	Al	1-10	Al	0.5-10	Al	0.01-12.0	C	0.01-4.1	Be	0.01-0.1	Mn	0.05-5	Mn	0.02-2	Sn	1-10	Cu	0.03-4	Be	0.05-2.5	Co	0.01-10.0	Co	0.05-0.4	Zn	0.01-8	Si	0.05-2	Mo	1-34	Mg	0.03-0.5	Co	0.01-3.0	Cr	0.01-30	Cr	0.01-0.5	Ze	0.05-0.5	Cr	5-30	V	1-12	Pb	0.0003-0.5	Cr	0.008-0.05	Cu	0.01-4.0	Cu	0.01-8.0	Zr	0.05-1.5	Co	2-25	Cr	1-10	Fe	0.0003-0.5	Cu	REF	Fe	REF	Fe	0.01-1.3	Mg	Ref	W	0.05-25	Fe	0.05-4	Ni	0.0003-0.5	Fe	0.01-6.0	Mn	0.01-18	Mg	0.01-10	Cu	0.01-0.2	Mo	0.05-10	Mn	0.05-3	Sn	0.0003-0.5	Mn	0.01-5.0	Mo	0.01-7.0	Mn	0.01-1.3	Ni	0.001-0.2	Al	0.05-8	Zn	0.05-3	Zn	Ref	Ni	0.01-30.0	Nb	0.01-1.5	Ni	0.05-2.5	Si	0.05-0.3	Ti	0.05-5	Pd	0.05-0.5	-	-	Pb	0.01-20	Ni	0.01-30	Si	0.01-20.0	Be	0.01-0.05	Nb	0.05-6	Ni	0.05-1.0	-	-	Si	0.01-5.0	Pb	0.01-0.1	Sn	0.05-0.3	Fe	0.01-0.1	Ta	0.05-5	Cu	0.05-1.0	-	-	Sn	0.01-15.0	Si	0.01-3.5	Ti	0.01-0.5	Others	0.01-0.3	Fe	0.05-20	Si	0.05-0.5	-	-	Zn	0.01-40.0	Ti	0.01-0.5	V	0.01-0.2	-	-	Ni	Ref	Nb	0.05-3	-	-	-	-	V	0.005-3.5	Zn	0.01-8.0	-	-	-	-	Ti	Ref	-	-	-	-	W	0.01-15	-	-	-	-	-	-	-	-	-	-
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15.	Spare Support	05 Years																																																																																																																																																																																																																																



S. No	Feature	Specifications / Range
16.	Warranty	01 Year
17.	Operation Training at OEM Premises	01 Week Free of cost Operation Training for equipment at OEM premises for 02 persons of Aircraft Rebuild Factory
18.	Installation, Commissioning and Training at ARF	Free of cost installation and commissioning by OEM expert / engineer will be carried out at Aircraft Rebuild Factory. The seller's OEM expert / engineer will carry out all tests as applicable and demonstrate the complete capability of equipment on appropriate test samples. All capabilities of the equipment shall be demonstrated to be working in accordance with the stated specifications.

### **SPECIFICATIONS OF SCANNING ELECTRON MICROSCOPE (SEM)**

S. No	Feature	Specifications / Range
1.	Type	Tungsten Filament SEM
2.	Resolution (Backscattered Electron Image)	3.0 nm
3.	Magnification	10X to 1,000,000X
4.	Electron Gun Type	Tungsten Filament
5.	Acceleration Voltage	0.5~30 keV
6.	Specimen Stage	PC-Controlled (5 Axis, Fully Motorized) X: 0~130 mm Y: 0~130 mm Z: 0~100 mm R: 0~360° T: -30° to +90°
7.	Rotation	0-360 °
8.	Tilt	-30° to +90°

S. No	Feature	Specifications / Range
9.	Chamber	Multi Specimen Holder
10.	Detectors	<ul style="list-style-type: none"> <li>• Secondary Electron (SE) Detector</li> <li>• Energy Dispersive X-ray (EDS) Detector</li> <li>• BSE Detector</li> <li>• EBSD Detector</li> </ul>
11.	Vacuum Control Type	Fully Automated with safety system
12.	Vacuum Control Type	Rotary Pump / Diffusion pump / turbo Pump
13.	Image Processing Software Capability	<ul style="list-style-type: none"> <li>• Measurement (angle, Area, Horizontal, Vertical, Width, Cross, Box)</li> <li>• Simple Measuring Function</li> <li>• Dimensional Profiler: (Topographic image)</li> <li>• Multi Focus (Top &amp; Bottom)</li> <li>• Auto Brightness / Contrast</li> <li>• Auto Focus / Auto Stigmator</li> <li>• Histogram</li> <li>• Color Transformation (Pseudo color display)</li> <li>• Image compression</li> <li>• Data Including Magnification , Working Distance, KV &amp; Mark Bar</li> </ul>
14.	Accessories	<ul style="list-style-type: none"> <li>• Water Chiller</li> <li>• UPS &amp; AVR</li> <li>• Air Compressor</li> <li>• EDS Energy Dispersive Spectroscope</li> <li>• Sputter Ion Coater</li> <li>• CCD Camera</li> <li>• Tungsten Filament</li> <li>• Tools for filament replacement and sample preparation</li> <li>• Aperture</li> <li>• Multi Sample Holder</li> </ul>
15.	Calibration	Equipment is to be calibrated and calibration certificate is required
16.	Calibration Standards	Standard samples for checking system calibration should be provided.
17.	Origin (OEM) of Equipment	The Country of Origin (OEM) of Equipment must be European origin i.e. UK, Germany, France, Italy, Sweden, Switzerland etc and USA, Canada.
18.	Spare Support	At least 05 Years
19.	Warranty	01 Year
20.	Operation Training at OEM	Two weeks Free of cost Operation Training for equipment at

<b>S. No</b>	<b>Feature</b>	<b>Specifications / Range</b>
	Premises	OEM premises for 03 persons of Aircraft Rebuild Factory
21.	Installation, Commissioning and Training at ARF	Free of cost installation and commissioning by OEM expert / engineer will be carried out at Aircraft Rebuild Factory. The seller's OEM expert / engineer will carry out all tests as applicable and demonstrate the complete capability of equipment on appropriate test samples. All capabilities of the equipment shall be demonstrated to be working in accordance with the stated specifications.

**PAKISTAN AERONAUTICAL COMPLEX BOARD  
KAMRA**

**SCHEDULE TO TENDER**

1. **TENDER INQUIRY NO: PACB/721/130319100/0533/P-3**
2. Time and Date of opening Tender at 1100 Hrs on **06-05-2019**.

(1)	(2)	(3)	(4)	(5)	(6)
Item No	Part No. Description of stores with specifications	Unit of issue	Qty	Unit price	Total price

**Grand Total**

Signature of Bidder  
(Capacity in which signing)

**UNDER TAKING**  
(Fill in and Return)

To,

**Member Commercial  
Pakistan Aeronautical Complex Board  
Kamra Distt Attock**

Dear Sir,

I/We hereby offer to supply to PAC Board the stores detailed in the Schedule to Tender or such portion thereof as you may specify in the contract at the prices given in Form **PACB – 002A** and further agree that this offer will remain valid up to \_\_\_\_\_ and will not be withdrawn or altered in terms of rates quoted and the condition stated therein on or before this date. I/We shall be bound by your communication of acceptance to be dispatched within the prescribed time.

I/We understood the instructions to Tenders and condition of contract as laid down in Form **PACB-10** titled "**General Conditions Governing Contract**" and thoroughly examine specification / drawing and / or patterns quoted in the Schedule to Tender and am/are fully aware to the nature of the stores required and my/our offer is to supply stores strictly in accordance with the requirements.

**Witness's Signature:**

Name:

N.I.C No.

Address:

Date:

**Signature of Bidder:**

Name:

N.I.C No.

Capacity in which Signing:

Address:

Date:

Tel: Telex/Fax

**SPECIAL INSTRUCTIONS**

Under mentioned information must be provided along with quotation else your quotation will be rejected: -

<b>S.No</b>	<b>Description / Requirement</b>	<b>Remarks / Attached</b>
1.	Delivery Period	
2.	Quotation Validity (Must be 30-06-19)	
3.	Country Of Origin	
4.	Port of Shipment	
5.	Terms of Payment (As per Para 19 of IT)	
6.	BG% (Confirmation to provide 10% BG)	
7.	Warranty / Guarantee period offered by Firm	
8.	Beneficiary Details (Completed address along with contact No)	
9.	Complete Bank address and Account Details For Payment / Letter of Credit	
10.	Previous Experience (Nature of Business and No of Years in Business)	
11.	Registration Status With PAC Board	
12.	Signing Authority (Name, Designation, Contact Details)	
13.	Address of local firm alongwith contact No, email etc	
14.	Manufacturer and Brand Name (If applicable)	

## **GENERAL CONDITIONS FOR BG**

(a) To ensure timely and correct supply of stores, the firm will furnish an unconditional Bank Guarantee at the time of the signing of the contract from a schedule Bank for an amount of \_\_\_\_\_ i.e. 10% of the total value of the contract (on a judicial Stamp paper of the value of Rs 100/-). The Bank Guarantee shall be endorsed in favour of CMA who is the Account Officer specified in the contract. The CMA concerned shall have the like power of seeking encashment of the Bank Guarantee as if the same has been demanded by the purchase officer himself.

(b) The Bank Guarantees will be of following types with validity and amount has mentioned in each type

(i) **Bank Guarantee against contract performance** It will be between 10% of total value of contract excluding taxes/duties and freight/handling charges etc. It shall remain inforce till 60 days beyond the Delivery Period stipulated in the contract.

(ii) **Bank Guarantee against Advance/ Down Payment.** It will be equal to amount paid in advance /down payment shall remain valid till 60-days beyond the Delivery Period stipulated in the contract.

(iii) **Bank Guarantee against Warranty Period.** It will be for amount of 10% of contract value excluding taxes/duties and freight /handling charges, etc. Duration of BG against Warranty Clause is variable. Normally under DP-15, it is for one year for the general type of equipment/ spares. For consumable goods, the warrantee period should also expire after 6 months or when the goods are fully consumed whichever is earlier or as per terms of contract.

(c) If the supply of store is on warranty, the supplier shall be bound to extend the validity of Bank guarantee for such further reasonable period if so required by the purchase officer to cover the warranty period.

(d) If the supplier fails to provide the Bank guarantee within 30 days after signing a contract, such failure shall constitute a breach of contract and the Director purchase shall be entitled to make other arrangements at the risk and expense of the supplier if no other BG / Bid Security of the same supplier for an equal amount is held up for final release, with the purchaser against any other completed contract(s). In the event of unsatisfactory performance or of any breach of terms of the contract, Bank guarantee shall be forfeited to the Govt. at the discretion of the purchaser. On satisfactory performance of the contract, the Bank Guarantee will be returned to the supplier by CMA (DP) RWP on receipt of instruction from the purchaser i.e. Directorates of Procurements etc.

(e) In case of FOR tenders/contract it is imperative that BGs are obtained from firms/suppliers/agents through scheduled Banks of State Bank of Pakistan so as to safeguard the interest of the state.

(f) In case of FOB tenders/contracts, Bank Guarantee is to be obtained preferably from LC opening Bank of Pakistan and through supplier, LC opening Bank abroad. In case firm does not agree to the aforesaid condition, then BG should at least, be obtained from supplier's country Bank located in Pakistan or any enlisted scheduled Bank of Pakistan in favour of LC opening Bank in Pakistan or any scheduled Bank of Pakistan, and the same will be a Bank to Bank Guarantee in favour of CMA (DP) Rwp.