

**PLEASE READ CAREFULLY**

- ❖ Participating bidders are required to submit bids according to instructions mentioned in bidding documents. These bids 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 bids 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 bidders are 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, 10% BG confirmation etc for consideration of bid. Bid found non-conforming to tender requirements is 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 BASIS)**

**(FOR)**

**Tender No PACB/721/210218102/0444/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](mailto:adcp@pac.org.pk)  
30 March, 2018

**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 - 02A & PACB - 02B:** Form **PACB - 02A & PACB - 02B** duly filled-in are to be returned with the offer duly signed by the authorized signatory person.

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 working 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 working 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 31 May, 2018**. 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, 2018**.

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. **EXAMINATION OF SPECIFICATION / SAMPLES:** When sealed pattern of stores are mentioned in the "Schedule to Tender" these may be seen at the place stated in the schedule and should be examined by you, or competent person on your behalf before the submission of tender.

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

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

(b) 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).

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

18. **PRICES:** The prices quoted must be per unit of issue / accounting unit as shown in the "Schedule to Tender" inclusive of sales tax/excise duty and surcharges. The breakdown of taxes/excise duty is to indicated separately. The prices must be stated for each item separately both in figures and words in Pak currency. Over writing / erasing in prices will be rejected. Mention GST separately.

**19. COUNTRY OF MANUFACTURE:** Country /place of manufacture of stores is to be provided alongwith offer.

**20. 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) Form PACB-002A, PACB-002B & PACB-002C 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. 100/-
- (p) Bid Security not provided.
- (q) Offer with Prior sale condition.

**21. PAYMENT:**

100% on CRV's with 10% Performance Bank Guarantee.

**22. 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.

**23. 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 (ISO) who is the accounts officer specified in the contract. CMA (ISO) 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.

**24. INSPECTION / ACCEPTANCE OF STORES:**

(a) Stores will be accepted at firm's premises/consignee by the inspector / Inspection officer of the PAC Board.

(b) Warranty / Guarantee as per format for period of one year will be applicable for stores commencing from the acceptance of store / installation at consignee.

**25. 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.

**26. TENDER OPENING:** Only authorized person of firm will be allowed to attend tender opening.

**27. 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.

**28. TREASURY CHALLAN:** Offer must be accompanied by Challan Form No. F-32A of Rs, 100/- obtained from State Bank of Pakistan/ Govt treasury under "**Departmental Receipt Major Head 1221000**" CMA (ISO's) Rawalpindi on behalf of "Director Central Procurement PAC Board Kamra". Only one offer can be made for same item on one Challan. Multiple offer / rates, if quoted will be rejected.

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

**30. 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.

**31. BID SECURITY:** The Bid Security@ 5% (not exceeding 0.500 M) will be deposited by all firms. Bid Security will be deposited in favour of CMA (ISO) 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 31. However, Bid Security must be provided in shape of CDR / Pay order / Demand draft only otherwise your quotation will be rejected.**

**32. 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”.

**33. ARBITRATION**

All matters of dispute or difference, except regarding rejection of stores / Services by the inspector and or cancellation of the contract by the Purchaser arising out of this contract between the parties hereto, shall be settled by mutual agreement, failing which they shall refer for Arbitration to a final settlement by an Arbitration Tribunal, in Pakistan. The dispute shall be referred for adjudication to two arbitrators one to be nominated by each party, who before entering upon the reference shall appoint an umpire by mutual agreement, and if they do not agree a judge of the Superior Court of Pakistan will be requested to appoint the umpire. The arbitration proceedings shall be held in Pakistan and under Pakistan Law & Arbitration Act, 1940. Arbitration award will be firm and final and unchallengeable in any court of law.

**34. LITIGATION**

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



**35. 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.

**36. 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.

**37. 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.

**38. 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).

**39. REGISTERED SUPPLIER WITH FBR:**

(a) Only registered supplier who are on Active Taxpayers List (ATL) of FBR eligible to supply goods / services Government Department.

(b) The payment to the registered persons will be linked with the active taxpayer status of the suppliers as per FBR database if any registered supplier is not in ATL his payment should be stopped till he files his mandatory returns and appears on ATL of FBR.

Yours sincerely,

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

Enclosure:-

SCHEDULE TO TENDER	Form (PACB – 02A)
UNDERTAKEN	Form (PACB – 02B)
QUESTIONNAIRE	Form (PACB – 02C)
SCHEDULE OF STORE	Annex 'A'
DETAILS OF BANK GUARANTEE	Annex 'B'

**SCHEDULE OF STORES**

Tender Inquiry No: - **PACB/721/210218102/0444/P-3**

TENDER SUBMISSION TIME: - Before 1030 Hrs on opening date

TIME & DATE OF OPENING **1100 Hrs on 16-04-2018**

**(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.)

**PROC OF GROUND CONTROL STATION FOR MALE UAV PROJECT  
(L/Items-49)  
(AS PER FOLLOWING DETAIL)**

**Ground Control Station & Ground Support Equipment**

S.No	OEM No.	Noun	System Specification	Qty		
<b>Category 1: Ground Control Shelter</b>						
1	ISO 20ft Shelter S-781/G	<p><b>Ground Control Shelter</b> designed and built in compliance with Regulations (NATO 6516) consist of 20 ft shelter structure, Lifting mechanism, Integrated Pallet for C-130 movement, Insulation, Interior paneling, Ceiling, Air Ducting, Data Ducting &amp; cabling, Electricity Ducting &amp; cabling, Lighting, Air conditioning (heat and cooling), Power sockets, 02 White boards, Earthing, Anti skid Flooring, Stair Case. Installation and integration of consoles, communication and power cabinets in GCS.</p>	<b>Dimension</b>		1	
				<b>External</b>		<b>Internal</b>
			L	6058 mm		5898 mm
			W	2438 mm		2270 mm
			H	2438 mm		2268 mm
			Empty Weight (cab only)	1700 Kg		
			<b>Environmental conditions</b>			
			<b>Features</b>	<b>Nonoperational mode</b>		<b>Operational mode</b>
			Temperature	-57°C ÷ +71°C		-40°C ÷ +55°C
			Solar radiance	95°C roof external surface		95°C roof external surface
			Wind	130 Km/h		130 Km/h
			Hail	Ø 30mm		Ø 30mm
			Salt fog	0.75 ng/m <sup>3</sup>		10% NaCl, 96 h
			Humidity	100%		100% 4h, 97% 20h
			Rain	MIL 810F		>40 mm/h with inclination until 90°
			Vibration	As per ISO 10816-3:2009		As per ISO 10816-3:2009
			<b>EMI Features</b>			
			Magnetic field	60 dB up to 1 MHz		
			Electric field and plane wave	80 dB to 100 KHz until 10 GHz		
			Designed and built in compliance with Regulations EMI/EMC IEEE299, MIL-STD-285, MIL-STD-461E, MIL-STD-810.			
2	ISO 20ft Shelter S-782/G	<b>Ground Data Terminal &amp; Analysis Shelter</b>	<b>Dimension</b>		1	
				<b>External</b>		<b>Internal</b>

<p>designed and built in compliance with Regulations (NATO 6516) consist of 20 ft shelter structure, Lifting mechanism, Integrated Pallet for C-130 movement, Insulation, Interior paneling, Ceiling, Air Ducting, Data Ducting &amp; cabling, Electricity Ducting &amp; cabling, Lighting, Air conditioning (heat and cooling), Power sockets, 02 White boards, Earthing, Anti skid Flooring, Stair Case.  <b>UHF Antenna Mast 50 Feet Telescopic square pipe winch operated mast.</b> Installation and integration of consoles, power and communication cabinets and UHF Antena in GTD.</p>	L	6058 mm	5898 mm
	W	2438 mm	2270 mm
	H	2438 mm	2268 mm
	Empty Weight (cab only)	1700 Kg	
	<b>Environmental conditions</b>		
	<b>Features</b>	<b>Nonoperational mode</b>	<b>Operational mode</b>
	Temperature	-57°C ÷ +71°C	-40°C ÷ +55°C
	Solar radiance	95°C roof external surface	95°C roof external surface
	Wind	130 Km/h	130 Km/h
	Hail	Ø 30mm	Ø 30mm
	Salt fog	0.75 ng/m <sup>3</sup>	10% NaCl, 96 h
	Humidity	100%	100% 4h, 97% 20h
	Rain	MIL 810F	>40 mm/h with inclination until 90°
	Vibration	As per ISO 10816-3:2009	As per ISO 10816-3:2009
	<b>EMI Features</b>		
	Magnetic field	60 dB up to 1 MHz	
	Electric field and plane wave	80 dB to 100 KHz until 10 GHz	
Designed and built in compliance with Regulations EMI/EMC IEEE299, MIL-STD-285, MIL-STD-461E, MIL-STD-810.			

<b>Category 2: Operation Console</b>				
1	MFC2200	<b>Operation Console Structure</b>	<p>Dimension                      Height: 1600mm                      Length: 1000mm                      Width: 750mm                      Insulation Panel: 4                      GCS resist vibrations for 60 Minutes up to 1.04 g as per MIL-STD-810 E  <b><i>Other compatible console can also be considered.</i></b></p>	7
2	52010 Series (110 to 265 lbs)	Shock Mount	<p>Natural frequency 8 Hz to 13 Hz                      Load range 44.1 lbs to 2,200 lbs                      Operating temperature range -22 °F to 176 °F                      Environment Resistant against UV radiation  <b><i>Other compatible Shock mount can also be considered.</i></b></p>	42

3	DELEmbedded Box PC 5000	Industrial PC	<p>Intel CPU Core i7-6820EQ 3.50 GHzWindows 7 Professional English 64bit (Includes Windows 10 Pro License)Intel® Core™ i7 Processor with Integrated Graphics (v2 CPU Board)32GB (2x16G) 2400MHz DDR4 Memory64GB Solid State Drive M.2 SATA Dell Wireless 1820 802.11ac LAN CardRuns at a minimum operating temperature range of 0-50 degrees Celsius and designed to MIL-STD-810G. <b><u>Other compatible Industrial PC can also be considered.</u></b></p>	7
4	Industrial PC Pro DM-F24A	Industrial LCD (5)	<ul style="list-style-type: none"> <li>•LCD Size 24" Wide Screen</li> <li>•Max Resolution 1920 x 1080</li> <li>•Brightness 250nits</li> <li>•Contrast Ratio 3000:1</li> <li>•LCD Color 16.7M</li> <li>•Pixel Pitch (mm) 0.28(H) x 0.28(V)</li> <li>•Viewing Angle (H-V) 178°(H) / 178°(V)</li> <li>•Backlight MTBF 30000 hrs</li> <li>•Touch Screen Projected Capacitive Type (USB Interface)</li> </ul> <p>Touch Controller EETI EXC7200          Dimension (WxHxD) 23.62" x 15.04" x 1.94" / 600mm x 382mm x 49.4mm          Weight 16.76 lbs / 7.6 Kg          Operating Temperature 14°F ~ 122°F (-10°C~50°C)          Storage Temperature -4°F ~ 140°F (-20°C~60°C)          Humidity 10% to 95% (Non-Condensing)          Safety &amp; EMC CE/FCC          Power Adapter 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz          Power Requirement 9 ~ 36 VDC</p> <p><b><u>Other compatible Industrial LCDs can also be considered.</u></b></p>	35

5	Titan W299	High End Workstation	<p>Board P1010RDB-PB (qty-02, Motherboard: ASRock X299 Taichi LGA 2066 USB 3.1 ATX Intel Motherboard Processor: Intel Core i9-7900X Skylake-X 3.3 GHz (4.3GHz Turbo Boost) 140W 25MB L3 (10 Cores / 20 Threads)  CPU Cooler: CORSAIR Hydro Series H60 High Performance Water / Liquid CPU Cooler w/ 120mm Fan  OS Hard Drive: WD Black 256GB Performance SSD - M.2 2280 PCIe NVMe Solid State Drive (SSD)  Storage Hard Drive: 2TB - Seagate 7200 RPM 64MB Cache SATA 6.0Gb/s 3.5" Internal Hard Drive  OS: Windows 10 Professional 64-bit  Memory: 64GB 2400MHz  Audio: Onboard 7.1 High Definition Audio with S/PDIF header Realtek ALC889  Power Supply: 850W - 80 PLUS GOLD Certified Full Modular Power Supply  Video: NVIDIA Titan x pascal 12 GB GDDR5X 3584 CUDO CORES 10 Gbps graphics  Case: COUGAR Panzer Max ATX Full Tower Computer Case Case Fans:Standard Fans included with case  Wireless: Intel 802.11ac WiFi Module Dual-Band + Bluetooth 4.2 - 433Mbps  <u><b>Other compatible High End workstation can also be considered.</b></u></p>	1
6	P21715Q	LCDs	<p>LED-backlit LCD monitor - 27"  4K UHD (2160p) 3840 x 2160 (DisplayPort: 60 Hz, HDMI: 30 Hz)  HDMI, DisplayPort, Mini DisplayPort, MHL  ENERGY STAR Qualified  Colour Black  <u><b>Other compatible LCDs can also be considered.</b></u></p>	1
7	CX-24U557	EcoStar 24" LED	<p><b>Features</b>  Screen Size: 24"  LED: Regular  Resolution: 1366x768 (HD)  USB Connectivity: Video/Audio/Images  HDMI Input: 1  Panel: A+ Grade  Motion Processing: Motion engine  RF Signal System: Digital: DVB-T Analog: Pal, BG, DK, I,M, SECAM: BG, D/K  <u><b>Other compatible LED TV can also be considered.</b></u></p>	1
8	CX-32U545	EcoStar 32" LED	<p><b>Features</b>Screen Size: 32"LED: RegularResolution: 1366x768 (HD Ready)USB Connectivity: Video/Audio/ImagesPanel: A GradeHDMI Input: 2Motion Processing: Motion engineRF Signal System: Analog: Pal, BG, DK, I SECAM: BG, D/K<u><b>Other compatible LED TV can also be considered.</b></u></p>	1

9	CX-32U850	EcoStar 32" LED TV	<b>Features</b> Screen Size: 32" LED: Smart TV Resolution: 1366x768 (HD Ready) GPU: MALI 450 Memory: 4GB RAM: 1GB USB Connectivity: (2.0) Video/Audio/Images HDMI Input: 3 Motion Processing: True Motion engine Panel: A+ Grade RF Signal System: BG, DK, I,M- Pal,Ntsc,SECAM,Auto <b><u>Other compatible LED TV can also be considered.</u></b>	1
10	49LH604V	49" LG Smart TV	<b>Features</b> Dimensions - WxHxD (mm) Size W/O Carton, W/O Stand (Including SOUND BAR) 1107*645*79.4 Display Device (OLED / LED) LED Resolution 1920 x 1080 Picture Mode 8 modes (Vivid,Standard,Eco, Cinema,Game,Sports,isf Expert(Bright Room),isf Expert(Dark Room)) <b><u>Other compatible LG TV can also be considered.</u></b>	1
11	2960720	Sticks	Thrustmaster HOTAS Warthog Dual Throttles 19 action buttons in total and one 8-way "point of view" hat Realistic pressure on buttons and trigger Detachable metal plate for desk or cockpit-style use Detachable handle, crafted entirely of metal Handle compatible with HOTAS COUGAR (and vice versa) Innovative H.E.A.R.T HallEffect AccuRate Technology 16-bit resolutionn (65536 x 65536 values) 5 coil spring system USB connection with upgradeable firmware <b><u>Other compatible Sticks can also be considered.</u></b>	7
12	2960739	Throttle	Thrustmaster HOTAS Warthog Dual Throttles 17 action buttons in total as well as 1 mouse hate with push button and one 8-way "point of view" hat Realistic pressure on buttons and switches Realistic and disengageable AFTERBURNER and IDLE detent with "Pull & Push" system Adjustable friction system Metal hand rest Locking system Innovative H.E.A.R.T HallEffect AccuRate Technology 3D magnetic sensors on the 2 throttles 14-bit resolution (16384 values) on each throttle USB connection with upgradeable firmware <b><u>Other compatible Throttle can also be considered.</u></b>	7
13	MFR2960764	Rudder pedals	Thrustmaster T.Flight Rudder PedalsTwo 10" differential brake pedals designed for shoe sizes up to size 12Removable heel rests for alternate ergonomic configurationsRounded central pivot with central grip on the differential brake's axisPivot angle of 15 degrees lets you avoid inadvertent activation when using the rudder <b><u>Other compatible Rudder Pedals can also be considered.</u></b>	7



14	XMS-I3-LS-F8UB-I1	Mouse	Indukey Mouse TKH-MOUSE-IND-SCROLL-IP68-BLACK-LASER-USB, Industrial Scroll IP68 Black LASER USB (Aluminium) <b><u>Other compatible Mouse can also be considered.</u></b>	7
15	B-SUNID-XROHS	Industrial Mouse	Features: 4 Buttons Interface: SUN Color: Black Model: B-SUNID-XROHS Type: TrackBall <b><u>Other compatible Mouse can also be considered.</u></b>	7
16	DT-5K	Key board	10-Key Numeric Pad 113-Key Functionality 20 Function Keys Integrated Force Sensing Resistor Pointing Device USB and PS/2 Configurations Available <b><u>Other compatible Key board can also be considered.</u></b>	7
17	CTP907G	Operators adjustable seats	Built-in, contoured lumbar and thigh support Mid-Highback backrest 2-way lumbar Mechanical Suspension Headrest Self-Skinned arms Fore/Aft Adjument handle <b><u>Other compatible Operators Seats can also be considered.</u></b>	7
<b>Category 3: Power Distribution Cabinet</b>				
1	DK 7857.300	Power Distribution Cabinet	<b>Description:</b> 19 inch 42 U racks <b>Surface Finish:</b> Enclosure frame: Dipcoat-primed Doors, roof and base/plinth: Dipcoat-primed Gland plates. <b>Colour:</b> RAL 7035 <b>Dimensions:</b> Width: 800 mm Height: 2000 mm Depth: 500 mm GCS resist vibratiions for 60 Minutes up to 1.04 g as per MIL-STD-810F <b><u>Other compatible Power Distribution Cabinets can also be considered.</u></b>	2
2	1946949A4	Circuit breakers Set	<ul style="list-style-type: none"> <li>• Poles 2</li> <li>• Amps 63</li> <li>• Max Voltage 480 VAC, 125VDC</li> <li>• Approvals UL, CSA</li> <li>• Trip Unit Fixed Thermal / Fixed Magnetic</li> </ul> <b><u>Other compatible Circuit breakers can also be considered.</u></b>	12
3	52010-45	Shock Mount	Natural frequency 8 Hz to 13 Hz Load range 44.1 lbs to 2,200 lbs Operating temperature range -22 °F to 176 °F Environment Resistant against UV radiation <b><u>Other compatible Shock Mount can also be considered.</u></b>	12

4	RA4018-4	Physical Cooling system	<p><b>Physical</b> Product ( W x D x H ) 540 x 520 x 65 mm Packing ( W x D x H ) 718 x 674 x 133 mm Net weight 12 kg / 26.4 lb Chassis color Black Chassis materials Steel Support bracket Left &amp; right side, set of 2 <b>Power 230V 208V</b> Unit Power Consumption ( ± 5% ) Level 1 43W 40W Level 2 75W 71W Level 3 170W 155W Fan Power Consumption ( ± 5% ) Level 1 12W 11W Level 2 19W 18W Level 3 44W 40W Input voltage 200 ~ 230V <b>Compliance</b> EMC FCC &amp; CE certified Safety CE / LVD certified Environment RoHS2 &amp; REACH <b>Other compatible Physical Cooling system can also be considered.</b></p>	2
5	SRT3000XLI	UPS 3 KVA	<p><b>Output</b> Output Power Capacity 2700 Watts / 3000 VA Max Configurable Power (Watts) 2700 Watts / 3000 VA Nominal Output Voltage 230V Output Voltage Note Configurable for 220 : 230 or 240 nominal Output Voltage Distortion Less than 2% Output Frequency (sync to mains) 50/60Hz +/- 3 Hz Other Output Voltages 220, 240V Crest Factor 3 : 1 Crest Factor Double Conversion Online Waveform Type Sine wave Output Connections (2) IEC 320 C19 (Battery Backup) , (2) IEC Jumpers (Battery Backup) , (8) IEC 320 C13 (Battery Backup) <b>Bypass Internal Bypass (Automatic and Manual)</b> <b>Input</b> Nominal Input Voltage 230V Input Frequency 40 - 70 Hz (auto sensing) Input Connections British BS1363A , IEC-320 C20 , Schuko CEE 7/EU1-16P Cord Length 2.44 meters Input voltage range for main operations 160 - 275 V Input voltage adjustable range for mains operation 100 - 275 (half load)V Other Input Voltages 220 , 240 <b>Other compatible UPS can also be considered.</b></p>	2
6	IVR-10K	AVR	<p>Model No: IVR-10K Capacity: 10kVA/6kW Machine Size: D520 x W460 x H830 mm N.W: 70kg <b>Other compatible AVR can also be considered.</b></p>	2
7	RSP-3000 SERIES	Power distribution & switching	<p>AC input 180 264 VAC Built-in active PFC function High efficiency up to 91.5% Forced air cooling built-in DC fan 9000W (2+1) Output voltage ON-OFF control/remote sense auxiliary power/ Power OK signal Protection: Short Circuit/ Overload/ Over voltage? Over Temperature Optional Conformal Coating <b>Other compatible Power distribution &amp; switching can also be considered.</b></p>	2

## Category 4: Communication Cabinet

1	PPC-6151C9551	Server	<p>15" true-flat PPC with Resistive touch</p> <p>Supports certified mini-ITX motherboard up to 45W TDP</p> <p>Support PCI or PCIe expansion slot</p> <p>Front LED indicators for power status</p> <p>Front panel is IP65 compliant</p> <p>Optional VESA mount by request</p> <p><b><u>Other compatible Server can also be considered.</u></b></p>	4
2	68564/RP/1/STD	Vocality Inc - One Channel Desktop Gateway	<p>2 or 4 port solution</p> <p>Four-wire interfaces</p> <p>Transparent PCM down to 5.3kbps voice compression</p> <p>E&amp;M circuits for PTT</p> <p>Optional edge router functionality</p> <p>Compatible with SRW and ANW/2</p> <p><b><u>Other compatible Vocality Inc can also be considered.</u></b></p>	4
3	IR910W-k9	Industrial Router	<p>Ethernet 1xCombo(GE/SFP), WAN/LAN configurable</p> <p>2G/3G Backhaul - - CU HSPA, CT EV-DO and CMCC</p> <p>GPRS/EDGE Verizon CDMA EV-DO</p> <p>Wi-Fi - 802.11 b/g/n, 2.4GHz, 1Tx1R -</p> <p>Open Slot 1 for wireless sensor communication card</p> <p>Other Ports 2 RJ45 RS232/485 Series, 1 RJ45 Console, 1 USB 2.0, 1 mini SIM card slot(IR910G-K9 and IR910G-NA-K9 only)</p> <p>Storage Onboard 2GB NAND Flash and removable 16GB SSD module (optional)</p> <p>IP Grade IP30 (w/o enclosure) and IP55 (w/ enclosure, optional)</p> <p>Power Supply Dual external 12~24VDC Input, 12W consumption on average</p> <p>Temperature Range -40~ + 70oC(w/o SSD module)</p> <p>Physics Dimensions at 5.1" high x 6.2" wide x 5.08" deep, Weight 2.3 kg (w/o enclosure and sensor card)</p> <p><b><u>Other compatible Industrial Router also be considered.</u></b></p>	4
4	IE-1000-8P2S-LM	Industrial Switch	<p>IE 1000-8P2S-LM Industrial Ethernet Switch</p> <p>Physical Characteristics</p> <p>Form Factor: Rail-mountable</p> <p>Height: 5"</p> <p>Width 1.8"</p> <p>Depth 5.3"</p> <p>Weight (App) 1.85 lb</p> <p><b><u>Other compatible Industrial Switch also be considered.</u></b></p>	4

5	R430	Power Edge Server	<p>Drive powerful performance across a wide range of workloads with the latest Intel® Xeon® processor E5-2600 v4 product family, with up to 22 cores per processor. Boost memory and I/O performance with: 12 DIMM slots that allow you to grow memory capacity over time                  DDR4 memory that provides as much as 15 percent greater memory bandwidth and draws up to 30 percent less power than previous-generation DDR3 RAM                  Up to 10 high-IOPS 2.5" hard drives and two PCIe Gen3 slots that drive twice the data throughput compared to PCIe Gen2  <b><u>Other compatible Power Edge Server can also be considered.</u></b></p>	4
6	52010-45	Shock Mount	<p>Natural frequency 8 Hz to 13 Hz                  Load range 44.1 lbs to 2,200 lbs                  Operating temperature range -22 °F to 176 °F                  Environment Resistant against UV radiation  <b><u>Other compatible Shock Mount can also be considered.</u></b></p>	6
7	RA4018-4	Physical Cooling system	<p><b>Physical</b> Product ( W x D x H ) 540 x 520 x 65 mm                  Packing ( W x D x H ) 718 x 674 x 133 mm                  Net weight 12 kg / 26.4 lb                  Chassis color Black                  Chassis materials Steel                  Support bracket Left &amp; right side, set of 2  <b>Power 230V 208V</b>                  Unit Power Consumption ( ± 5% )                  Level 1 43W 40W                  Level 2 75W 71W                  Level 3 170W 155W                  Fan Power Consumption ( ± 5% )                  Level 1 12W 11W                  Level 2 19W 18W                  Level 3 44W 40W                  Input voltage 200 ~ 230V  <b>Compliance</b> EMC FCC &amp; CE certified                  Safety CE / LVD certified                  Environment RoHS2 &amp; REACH  <b><u>Other compatible Physical Cooling system can also be considered.</u></b></p>	2

8	SRT3000XLI	UPS 3 KVA	<p><b>Output</b>  Output Power Capacity 2700 Watts / 3000 VA  Max Configurable Power (Watts) 2700 Watts / 3000 VA  Nominal Output Voltage 230V  Output Voltage Note Configurable for 220 : 230 or 240 nominal  Output Voltage Distortion Less than 2%  Output Frequency (sync to mains) 50/60Hz +/- 3 Hz  Other Output Voltages 220, 240V  Crest Factor 3 : 1  Crest Factor Double Conversion Online  Waveform Type Sine wave  Output Connections (2) IEC 320 C19 (Battery Backup) , (2) IEC Jumpers (Battery Backup) , (8) IEC 320 C13 (Battery Backup)  <b>Bypass Internal Bypass (Automatic and Manual)</b>  <b>Input</b>  Nominal Input Voltage 230V  Input Frequency 40 - 70 Hz (auto sensing)  Input Connections British BS1363A , IEC-320 C20 , Schuko CEE 7/EU1-16P  Cord Length 2.44 meters  Input voltage range for main operations 160 - 275 V  Input voltage adjustable range for mains operation 100 - 275 (half load)V  Other Input Voltages 220 , 240  <u><b>Other compatible UPS can also be considered.</b></u></p>	2
9	IVR-10K	AVR	<p>Model No: IVR-10K  Capacity: 10kVA/6kW  Machine Size: D520 x W460 x H830 mm  N.W: 70kg  <u><b>Other compatible AVR can also be considered.</b></u></p>	2
10	CATE	RJ 45 connector	<ul style="list-style-type: none"> <li>• CAT6 Modular RJ45 Connectors</li> <li>• RJ45 crimp-on connectors for use with stranded</li> <li>• Cat 6 twisted pair cable.</li> </ul> <p>Other compatible RJ 45 connector can also be considered.</p>	50
<b>Category 5: Voice Communication Panel</b>				

1	ViLX-TMS	Voice Communication System	<p>AC Input 230Vac+- 10% 50/60Hz                      Internal power supply 12Vdc nominal                      Supply and battery Monitored open, Short, Fuses                      Protection Deep discharge, Short, Thermals                      Temperature compensation Yes                      Battery information 1x 12V 7AH VRSLA                      Mains fuse 1A HRC(T)                      Battery fuse Self Resetting PTC                      Max charge current 500mA                      Inputs Number of lines Between 2 and 8                      Remote enable Short to use                      End of line monitoring 10KΩ 0.5 watt resistor                      Relay outputs Number and type 2: Fault and In use, volt free 30Vdc 1A                      Controls Number and type 3 push button navigation keys                      Indication Number and type 3x PSU Status Indicators                      1 x CPU Fault Indicators 1x General Fault Indicator                      1x RGB Mode Indicator                      1x 272x480xRGB touchscreen                      Enclosure Details Back box finish RAL 7035 Grey                      Dimensions 350 x 300 x 95                      Entries 14 knockouts top, 2x rear slots                      Flush Cutout 355 x 305 x 85 deep. Cyclone V SOC kit DK-DEV-5csxc6n (qty-02) <b><u>Other compatible Voice Communication system can also be considered.</u></b></p>	7
2	CL1316N	19" LCD Switch	<p>16-Port USB / PS/2 KVM Switch  <b><u>Other compatible LCD Switch can also be considered.</u></b></p>	7
3	KX-TS500MX	PhoneSet	<p>2-step ringer volume control                      Electronic handset volume control (4 steps)                      Color: White (W) / Black (B)                      No lead, mercury and other harmful chemicals are used  <b><u>Other compatible Phoneset can also be considered.</u></b></p>	2
4	KX-TES824	Telephone Exchange	<p><b>Panasonic Telephone Exchange System Capacity (Max.)</b>                      Operator 1                      System Speed Dialling 100                      Personal Speed Dialling 10 / Ext.                      One-Touch Dialling Max 12 / Ext.                      Extension Groups 8                      Toll Restriction Levels 5                      Account Codes (Verified) 50                      Absent Messages 6  <b>Specifications</b>                      Maximum Capacity 8CO's                      24 Extensions (16:Hybrid 8:SLT)                      Intercom Paths 4  <b><u>Other compatible Telephone Exchange can also be considered.</u></b></p>	2

5	DB92422	RS422 Serial DB9 to Terminal Block Adapter	<p>Converts a DB9 male RS422/485 port to a 5 pin terminal block  Supports four wire RS422, RS485, and two wire RS485 modes  Supports 3.5mm 5 pin terminal blocks</p> <p><b>Technical Specification</b>  TechData Dis 10546226  ASI Distribution USA 89523  Ingram Micro USA CN0598  Synnex US STA-DB92422  UPC Code 065030837668</p> <p><b><u>Other compatible RS422 can also be considered.</u></b></p>	7
6	DB92422	Headset	<p>Dual Volume Controls, Wired for Stereo15' Extended Coil Cord Dual 3.5mm Plugs (mic and ear)Dynamic Earphone Elements with a Range of100-5,500 HzM-55 Noise-Canceling Electret Microphone,Mounted on Universal Flex BoomMicrophone On-Off Switch<b><u>Other compatible Headset can also be considered.</u></b></p>	7
7	LB-IP	eNet radio Transmitter Module	<p>Caller ID, Call Detail Records (CDR), Conference, Interactive Voice Response (IVR),Compatibility with other legacy networks, Operator Independent</p> <p><b>Hardware Features</b>  Ø LAN Port:  Ø WAN Port: 1x 10/ 100Mbps  Ø LB Ports: 20  Network Features  Ø DHCP Server / Client: Yes  Ø Static IP:  Ø SIP Users: 10  Ø SIP Trunk: 5</p> <p><b><u>Other compatible eNet radia Transmitter Module can also be considered.</u></b></p>	7
8	SKU: SN4332/Jo/UI	VOPI Gateway, 32 FXO, Internal UI Power	<p>Capacity  16, 24, 32 simultaneous VoIP calls  Management  Web/HTTP, CLI with local console and remote Telnet access • TFTP configuration &amp; firmware loading • SNMP MIB II and product MIB • Secure autoprovisioning for both firmware and unit/subscriber configuration • Built-in diagnostic tools (trace, debug, call generator)  FXS Connectivity  2-wire Loopstart on 50 pin (12 to 24 channels) or 64 pin (32 channels) Telco connector • Short haul loop 1.1 km @3REN • EuroPOTS (ETSI EG201188) • Programmable AC impedance, feeding, ring and on-hook voltage • Caller-ID FSK and ITU V.23/Bell 202 generation  FXO Connectivity  2-wire Loopstart on 50pin (12 to 24 channels) or 64-pin (32 channels) Telco connector • Programmable impedance, ring detection, tone detection, disconnect supervision • Caller ID detection  Voice Signaling  SIPv2 H.323v4 (simultaneously with B2BUA capability) • SIP call transfer, redirect • DTMF in-band &amp; out-of-band • All tones programmable (dial, ringing, busy)  Call Switching and Services  Regular expression based call routing and number manipulation • Number blocking • Short-dialing • Digit</p>	7

			<p>collection, distribution and hunt groups • transparent line extension                  Voice Processing                  Codec G.711 a-law/mu-law, G.723, G.729ab • G.726, G.727. T.38 fax relay • G.711 transparent fax and bypass System                  CPU Motorola MPC875 @ 133 MHz • Memory 32 MB SDRAM/8 MB Flash                  Dimensions 19-in. rack-mount chassis 48.3W x 4.44H x 30.50D cm                  Weight 4.1 kg                  Power                  100–240 VAC (50/60 Hz) • Power dissipation: &gt; 22W (60W max, model SN4432/JS/RUI)                  Temperature 32–104°F (0–40°C)                  Humidity Up to 90% (non condensing)                  Compliance                  EMC compliance: EN 55022 and EN 55024 • Safety compliance: EN 50950 • CE compliance • FCC Part 15 Class A • RoHS</p>	
9	354495-110	Speaker	<p>Technical Information                  Size: 7.5”H x 3.1”W x 5.9”D (19 cm x 8 cm x 15 cm)                  Weight: 3.40 lb (1.54 kg)  <u><b>Other compatible Speaker can also be considered.</b></u></p>	7
10	SH1064	Fiber Optics Set	<p>ESKATM Polyethylene Jacketed Plastic Optical Fiber Bundle Cord  <u><b>Other compatible Fiber Optics also be considered.</b></u></p>	2
11	31-399-50B	Ethernet Cabel	<p>Item Weight 1 pounds                  Package Dimensions 7.7 x 7.6 x 2.4 inches                  Item model number 31-399-50B                  Size 50 Feet                  Color Blue                  Pattern 50 Feet (15.3m)  <u><b>Other compatible Ethernet Cabel can also be considered.</b></u></p>	30
12	PT-7728-F-24-24	Ethernet Switch	<p>IEC 61850-3 24+4G-port Layer 2 Gigabit modular managed rackmount Ethernet switches &amp; Cabeling  <u><b>Other compatible Ethernet Switch can also be considered.</b></u></p>	4
<b>Category 6: Raccit Mast</b>				
1	GEPH-HMTS-21	<p><b>Raccit Mast</b> consist of Trolley, Triangular Sections, Suspension, Hydraulic Actuators, Control Panel, Hydraulic Pump + Motors</p>	<p>Mast Height: 55 Ft                  Mast Payloads: 120kg                  Trailer Dimension: 523cmL x 195cmW x 165cmH                  electric air compressor: BX2025                  work wind speed: under 60km/h                  Packing: 20' container                  Mast Retracted: 3.5m                  Mast style: lockable collar                  Mast Tilting system: Hydraulic cylinder ram                  hydraulic control unit: Electric and manual                  system weight: 1100kg approx.  <u><b>Other compatible Raccit Mast also be considered.</b></u></p>	1



Category 7: Mobile Generator				
1	c4.4 acert - Cat	<b>Mobile Generator 50</b> Kva with Water & sound proof Cannopy, Mobile trolley & Indication panel.	Supply of brand new diesel generator set,3-phase, de50e0 (50kva/40ekw standby), 50 hz, 1500 rpm, 0.8 p. F, 400 volts along with standard accessories. Engine mounted control panel (emcp 4 series) Integral base fuel tank O&m manual Toolkit Battery & battery cables Sound & weather attenuated canopy 80-85 dba at 1 meter (subject to 7-8m clearance from all sides) Single source ats/amf panel 3 pole with mor (manual override switch), Included with 12 volts and 5 amps battery charger <b><u>Other compatible Mobile Generator can also be considered.</u></b>	1
<b>Total</b>				
<p><b>**For compatibility equipment &amp; for any other Technical query Vendors are encouraged to contact: MD AvDI 051-90992132 &amp; Project Director Mobile # 0321-9583187 Office # 051-90992138 and Email: mdavdi@pac.org.pk</b></p>				

## Notes

1. Quotation may please be submitted on '**FOR**' Kamra basis only.
2. Payment will be made as per PAC Board procedure.
3. OEM / Supplier conformance certificate.
4. Warranty / Guarantee. 1 Year after installation & commissioning.
5. Store on receipt will be accepted after inspection by concerned Quality Central Department.
6. Store must be of current year production/latest production series/factory new stock.
7. Packing of the stores should be adequately done with absolute resistant material so as avoid from any damage during transportation.
8. Stores will be accepted in accordance with standard specification provided in the IT at consignee premises subject to acceptance by user and quality inspector.
9. TO's brochure & Technical manuals (03 copies) are needed to be provided by the supplier.
10. Local / training on operation, maintenance and calibration of machine / equipment.
11. Free of cost installation & commissioning at user's site by the OEM.

12. Acceptance of machine by user at OEM premises.
13. At least ten years after sale spares supportability is to be provided.
14. Complete set of tooling / accessories for operation of tester to be provided.
15. Item shall be awarded category basis.

**Form PACB – 02A**

**PAKISTAN AERONAUTICAL COMPLEX BOARD  
KAMRA**

**SCHEDULE TO TENDER**

1. Tender Inquiry No **PACB/721/210218102/0444/P-3**
2. Time and Date of opening Tender at **1100 Hrs on 16-04-2018**

(1)	(2)	(3)	(4)	(5)	(6)
Item No	Description of stores and specifications	Unit of issue	Qty	Price per unit	Total price

**Grand Total** \_\_\_\_\_

**Signature of Tenderer**  
(Capacity in which signing)

**Form PACB - 02B****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 – 02A** and further agree that this offer will remain valid upto \_\_\_\_\_ 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 despatched 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.

Yours faithfully

**Witness’s Signature:**

Name:

N.I.C No.

Address:

Signing:

Date:

**Signature of Tenderers:**

Name:

N.I.C No.

Capacity in which

Address:

Date:

Tele:

Telex/Fax:

**Form PACB – 02C****QUESTIONNAIRE TO BE FILLED IN BY BIDDER**

Firm is required to provide confirmation of following points and in case of any

S No	Description	Yes / No	Remarks
1.	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 Form <b>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 Form <b>PACB–002A &amp; 002B</b> duly filled in and signed by the Bidder have been returned in herewith.		
6.	Whether copy of valid registration / business authorization of firm have been enclosed herewith.		
7.	Whether tender fee challan amounting to Rs 100/- has been enclosed herewith.		
8.	Whether details of financial capability (Bank Statement etc.) and financial load of contracts outstanding against your firm have been provided.		
9.	It is confirmed that no Taxes / Duties & Dues payable to Pakistan Govt are outstanding at the part of vendor / firm.		
10.	Copy of NTN <b>OR</b> Equivalent Tax compliance Certificate (for foreign firms) has been attached.		
11.	It is confirmed that firm and their proprietors have not been in litigation / blacklisted by any Govt./Semi-Govt / Autonomous body		
12.	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		
13.	All requisite documents as per <b>Para 22</b> of Invitation to tender have been attached.		
14.	10% PBG will be provided at the time of signing of contract		
15.	Warranty / Guarantee will be provided for required period		
16.	Letter of Authorization to sign Tender Documents on behalf of firm has been attached.		
17.	Offer is without any condition		

change, same is to be highlighted in remarks column.

**Dated:** \_\_\_\_\_**(Signature of Bidder & Stamp)**

**GENERAL CONDITIONS FOR BG**

- (a) To ensure timely and correct supply of stores, the firm will furnish an unconditional Bank Guarantee within 30 days of the signing of the contract from a schedule Bank for an amount of Rs \_\_\_\_\_ i.e. \_\_\_\_\_% 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 10% of total value of contract excluding taxes/duties and freight/handling charges etc. It shall remain enforce 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 10% of contract value excluding taxes/duties and freight /handling charges, etc. Duration of BG against Warranty Clause is variable. Normally under DPL –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 fail 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 (ISO) 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 the 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 (ISO) Rawalpindi.