

# PAKISTAN AERONAUTICAL COMPLEX, KAMRA MIRAGE REBUILD FACTORY

## TENDER NOTICE : OPEN TENDER

<b>Tender reference</b>	:	MRF/Log/23-24/OT-11
<b>Tender No</b>	:	OT-11
<b>Publishing date</b>	:	06 November, 2023
<b>Last date of submission of bids</b>	:	21 November, 2023 (1000 Hrs)
<b>Opening date &amp; Time</b>	:	21 November, 2023 (1100 Hrs)

1. Sealed tenders for purchase / repair of items as per enclosed list are invited from sales tax registered Suppliers who are on Active Taxpayers List (ATL) of FBR.

### Pattern of Quotations

2. The quotation shall comprise a single package containing 02 separate envelopes. Tender reference along with due date of opening and Category Number must be clearly marked. Each envelope shall contain separately, the financial proposal and the Technical proposal respectively. Each bid (financial / technical) will be on separate leaf against single line item, envelope cover must be marked with "Item name". Quotations with multiple line items on single page will be dropped. **Quotations should be on original letter head (color printed)**. The quotations shall be addressed to Managing Director MRF, PAC Kamra as per terms given below:-

(a) **Technical Offer:** It should be without prices and contain all relevant essential specifications along with literature / brochures. Tender number, date of opening and word (**Technical offer**) should be clearly marked. The tendered Part No should be mentioned against quoted item / offer. Any details of equivalent / variables being quoted should be clearly mentioned against Part No being tendered. **NSN / OEM Part No** should be mentioned on both technical and commercial quotations. All quoted products must have traceable local / foreign OEM. **Country / Place of Manufacture / OEM** of stores is to be provided along with Technical / Commercial offer. **Certificate of Conformance** (where applicable), **Technical Data Sheet (TDS)** and **Material Safety Data Sheet (MSDS)** along with any other relevant literature by OEM are must for all Aviation Items, Chemicals, Material and Equipment. All precision measuring equipment must be quoted with provisioning of fresh **Calibration Certificate**. Spectrometric analysis report against raw material / hardware items may be required to establish conformity of delivered product. All Chemicals, lubricants and any item of shelf life range must be quoted with provisioning of **MSDS** along with fresh **Laboratory Test Reports** against corresponding LOT No, Batch No, Date of Production, Date of Expiry of delivered stores. **Part Catalogues, IPBs (Illustrated Part Breakdown), User Guides, Operating / Maintenance Manuals, Brochures, Prices** which ever available / applicable would be provided free of cost along with delivered stores. **Unit of issue** must be same as mentioned in tender notice. Confirmation to this effect is to be furnished by written certificate along with quotation. License keys, activation / access passwords and source codes are to be provided along with all software whether purchased individually or as a part of any system/equipment or machinery.

(b) **Financial Offer:** It should indicate price of quoted item (**to be delivered at MRF, Kamra premises with all liabilities on Suppliers**) and confirmation to the terms and condition of MRF tender inquiry. The words "**Financial offer**" should be clearly marked. The Quoted prices are to be exclusive of GST levied by the Government and these should be in accordance with the current Local market prices. GST must be mentioned separately. All

other charges must be incorporated in offered price. Rates must be mentioned in both “words” and “figures”. Following documents must accompany financial offer:-

- (i) Proof of being on **active taxpayers list**
- (ii) Sales tax registration certificate
- (iii) NTN certificate
- (iv) Professional Tax certificate of the province where the contract is being concluded as per MAG letter No 54/AT/S/1687-Vol-XXVII/P-29 dated 22 April, 2013 and Taxation department Punjab letter No SO (TAX) 1-33/77 (P-IV) date 28 August, 2003.
- (v) Any specific SRO / Tax exemptions if applicable must be notified along with commercial offer.

(c) **Bid Money / Earnest Money:** The **unregistered firms with PACB** (Pakistan Aeronautical Complex Board, Kamra) will have to furnish **earnest money @ 5%** of the quoted value through **Bank Draft / CDR** in favour of **Public Fund Account MRF PAC, Kamra**. The earnest money instrument should indicate Tender reference and firm/company name. In case where the exact Quantity has not been mentioned the earnest money should be calculated against MOQ / market available standard OEM packaging. The exact bid money in this scenario will have to be furnished within 01 week of intimation of being technically accepted, lowest financial bidder. The confirm purchase order will be furnished upon receipt of earnest money. Earnest money of bidders backing out of submitted quote or failing to provide in time delivery will be forfeited along with initiation of disciplinary actions.

### Quantity

3. Quantity can be increased / decreased at the time of order as per MRF requirement without change of financial quotations. Bids once submitted will not be allowed to be changed and will be binding on suppliers for delivery of stores if purchase order is furnished, however, clarifications may be sought.

### Offer requirement / validity

4. The quotation should be valid if it contain under mentioned information.
  - (a) Quote Validity should be minimum **90 days** and extendable on request. Quotations with less validity will be rejected.
  - (b) EDD must be available on Commercial Quote. Quotation will not be accepted without delivery period.
  - (c) Picture and TDS must be available with technical quote.
  - (d) Separate quote for every single line item.
  - (e) Mentioning of date on commercial / technical quotes is mandatory.
  - (f) Terms & Conditions should be mentioned on commercial / technical quotes.

### Delivery Period

5. **Items are to be delivered at MRF, PAC KAMRA premises with all liabilities on Suppliers.** Stores are required within minimum possible delivery period. Offer with minimum delivery period are likely to be preferred. However, the delivery period should be factual as no subsequent extension will be granted except under extreme / un-avoidable circumstances. **Delivery period will invariably start from furnishing of written (provisional / firm) purchase order whichever is earlier.** Delivered stores must be in **standard packing** (free of any separate

cost). Delivery of items shall be strictly made as per timeline mentioned in purchase order. In case of failure, MRF reserves the right to cancel any PO.

## 6. **Acceptance of Stores / General Terms & Conditions**

- (a) **Certificate of Conformance, TDS and MSDS** by OEM is must for all aviation items, Materials and Equipment.
- (b) All precision measuring equipment must accompany fresh **Calibration Certificate either from OEM or any certified credible facility.**
- (c) All Chemicals, lubricants and any item of shelf life range must accompany **MSDS** along with fresh **laboratory test reports against corresponding LOT number, Batch number, date of production, date of expiry of delivered stores.**
- (d) In case of life items, the remaining shelf life must be at least 75 % at the time of delivery.
- (e) Stores will be accepted after inspection by concerned user / Quality Control Directorate as per QMS of MRF.
- (f) Supplier will be made responsible for **warranty / guarantee** of newly purchased items **at least one year or maximum possible.** In case of rejection of item on receipt or any defect / anomaly found within warranty period whether before use or while in use, the supplier will provide free of cost repair / replacement (which applicable) at MRF Kamra premises bearing all liabilities.
- (g) All repair works / services will INVARIABLY be under at least **06 months warranty**, unless contracted otherwise and depends upon case to case basis.
- (h) **Part Catalogues, IPBs (Illustrated Part Breakdown), User Guides, Operating / Maintenance Manuals, Brochures, Prices** which ever available / applicable would invariably be provided **free of cost** along with delivered stores.
- (j) Items should be current year's production.
- (k) Supplier will retain record of all products delivered to MRF karma, for at least 03 years.
- (l) MRF reserves the right to visit / inspect any premises of supply chain against required / offered products.
- (m) The supplier will be responsible for in time payment of all applicable taxes and duties to relevant agencies as per in vogue GOP regulations. The supplier must be able to furnish / produce such record as and when demanded by MRF.
- (n) Any item being tendered if obsolete / discontinued by OEM may please be communicated along with said certification by OEM. Suitable replacements / substitutes / interchangeable may also be communicated along with complete technical / operational details.
- (p) All quotations/ bids, correspondence and clarifications / queries must be on company letter head duly signed by authorized signatory authority. Active contact / correspondence details (phone no. mobile no. email & postal address must be mentioned).
- (q) All quotations, bids, clarifications, queries, correspondence and product will be kept strictly confidential.

## Release of Payment

7. Payment will be released by Dte of Budget and Accounts, MRF PAC, Kamra on submission of Sales Tax invoice along with copies of GST registration, NTN certificate and Professional Tax certificate. Sales Tax Return against previous transactions (if any) during current financial year and copy of relevant SRO (if applicable) will also be required. All payments are to be received after successful acceptance of delivered stores by user and upon furnishing of requisite documentation. After receipt of payment, supplier is to furnish monthly sales tax return declaration along with Annexure "C" (DOMESTIC SALES INVOICE DETAIL) duly depicting invoice number against which payment has been received from MRF, Kamra. Specified amount of GST and Income tax will be withheld/ deducted at source as per GOP instructions in vogue. Any exemption in this regard will only be entertained upon furnishing of FBR issued EXEMPTION certificate in name of Firm / Company against specified item.

## Terms and Conditions

8. The terms and conditions mentioned in this document will be integral part of any purchase order furnished against this tender, whether or not mentioned again.

## Clarifications of Queries

9. Queries if any may be cleared by contacting **051-90994414, 90994727**.

## Rejection

10. Offers are liable to be rejected if:

- (a) There is a deviation from any instruction.
- (b) Offers are found conditional or incomplete in any respect.
- (c) Overwriting / erasing in prices.
- (d) Firm **BLACKLISTED / UNDER EMBARGO / DELISTED** by any **Government Organization**.
- (e) Any terms and conditions not in conformity with tendered terms and conditions.

## Delivery of Tender

11. **Each quotation (financial / technical) shall be on separate leaf against single line item.** Both the envelopes of **Technical and Commercial** offers should be enclosed in one cover properly sealed, **envelope cover must be marked with "Item name"** and bear the following address of Indigenous Provisioning office, MRF with **tender Inquiry number and opening date**.

**O i/c Indigenous Provisioning**  
Mirage Rebuild Factory,  
Pakistan Aeronautical Complex, Kamra  
District Attock

## Opening of Tender

12. The quotations must be in original and are to reach at this factory by **1000 Hrs** on **21 November, 2023**. All quotations are to be dropped in the tender box placed at the MRF Guard Room. No quotation will be accepted in photocopy, through Fax and after due date and time. Tender will be opened on **same day at 1100 Hrs** in the presence of witnessing officers and available representatives of the firms in O i/c Indigenous Provisioning. MRF reserve the right to cancel or reject any or all bids / proposals against complete tender or any part thereof, at any time

without any liability. In case of official holiday the Tender will be opened on next working day. Details of requirements is as follows: -

“Sermateal Part-1, Test Bench, PSA Insert (Upper Part), Balancing Machine, Tool for Loosening Philips Screws, Digital Video Camera, Corindon 50, Rubberized Material for Seal, Elect Motor 08 HP, Oil Separator Kit (D) L 132-160, Testrig Machine, Electric Platform Truck, OTDR, Regulator Hydrogen, Electrode Holder Assy, Eccobond 104 A+B, Oil Dispenser, Loctite, Plating Barrel, Dry Seed Blasting Machine with Accy, Brazing Alloy Nickel (Welding Rod), Carton Corrugated Sheet 36X16X24, Pin Extractor, Silver Braze Rod Dia 1-1.5 MM, Asbestic Joint Sheet 1/4 Inch Thickness 6.0 MM, Konica Minolta Bizhub 654E Basic Unit Photocopier”.

13. List of items can also be downloaded from PPRA website [www.ppra.org.pk](http://www.ppra.org.pk) and as well as PACB website [www.pac.org.pk](http://www.pac.org.pk) free of cost or can be collected from DTE of Log (LP Section) MRF PAC Kamra Distt Attock from **07 November, 2023** during working hours (except holidays).

Yours Sincerely,



**(RAFAY JAMAL)**  
Squadron Leader  
Managing Director  
MRF, PAC Kamra

for

## MRF QUALITY SYSTEM REQUIREMENTS

Following are the requirements to be satisfied by the Supplier (External Provider) / Sub-Contractor (Local Vendor) of MRF:-

1. The processes, products, and services to be provided including the identification of relevant technical data (e.g., specifications, drawings, process requirements, work instructions).
2. The approval of products and services, methods, processes, equipment, and the release of products and services.
3. Provide inspection and testing criteria for acceptance by MRF.
4. Obtain approval from MRF of changes in product / process.
5. Provide Objective evidence of the quality of product.
6. To ensure product conformance to specified requirements.
7. To provide manufacturing date and Lot number.
8. To provide shelf life and expiry date as applicable
9. Competence, including any required qualification of persons.
10. The external providers' interactions with the organization.
11. Control and monitoring of the external providers' performance to be applied by the organization.
12. Verification or validation activities that the organization, or its customer, intends to perform at the external providers' premises.
13. Supplier (External providers) apply appropriate controls to their direct and sub-tier Suppliers (external providers), to ensure that requirements are met.
14. Design and development control.
15. Special requirements, critical items, or key characteristics.
16. Test, inspection, and verification (including production process verification).
17. The use of statistical techniques for product acceptance and related instructions for acceptance by the organization.
18. To provide Material / Metallurgical test reports along with raw material for traceability through Lot / Batch No. External Provider will also provide date of manufacture of provided Lot / Batch No of raw material.
19. The need to:
  - (a) Implement a Quality Management System.
  - (b) Use customer-designated or approved external providers, including process sources (e.g., special processes).
  - (c) Notify the organization of nonconforming processes, products, or services and obtain approval for their disposition.
  - (d) Prevent the use of counterfeit parts.
  - (e) Notify the organization of changes to processes, products, or services, including changes of their external providers or location of manufacture, and obtain the organization's approval.
  - (f) Flow down to external providers applicable requirements including customer requirements.
  - (g) Provide test specimens for design approval, inspection/verification, investigation, or auditing.
  - (h) Retain records (documented information), including retention periods and disposition requirements.
20. Ensuring that persons are aware of:
  - (a) Their contribution to product or service conformity.
  - (b) Their contribution to product safety.
  - (c) The importance of ethical behavior.

**MRF/Log/23-24/OT-11 Date of Publishing 06 November, 2023 Last Date of Bids Submission 21 November, 2023**

<b>S No</b>	<b>Part No</b>	<b>Noun</b>	<b>Qty</b>	<b>UI</b>	<b>Shop</b>	<b>Remarks / Specifications</b>
1	P-720	Sermateal Part-1	2	Gl	Paint Shop	<b>P-code</b> : P-720 <b>Part No</b> : 093-997-5001 <b>Serma Seal</b> : 570 A&B
2	64-5-02-03-00	Test Bench	1	Ea	PNEU II	<b>Scope of Work:</b> Repairing of intermittents compts of warm air generator <b>(Repair)</b>
3	PH00414	PSA Insert (Upper Part)	1	Ea	Design Management Office	Specifications are attached at the end, please
4	HL5UB	Balancing Machine	1	Ea	Tool Crib	<b>Scope of Work:</b> (i) Vibration pick up rod to be repaired. Specifications are attached at the end, please <b>(Repair)</b>
5	MS-1178	Tool for Loosening Philips Screws	1	Ea	Fuselage Repair Shop	As per sample Specifications are attached at the end, please
6	14A/PAF-12	Digital Video Camera	1	Ea	Photo Flt	<b>Video Camera</b> : Professional Video Camera <b>Move Capturing:</b> 16:9 Aspect Ratio or Above <b>Format</b> : Mini DV or Hard disk <b>Zoom</b> : 20x <b>Camera Light</b> : Flood Light 1000 Watt <b>Cable</b> : Extension Lead 100 Meter <b>Battery</b> : 01 Battery (Stand By) <b>Tri Pod</b> : Move Camera in Pod <b>Charger</b> : Battery Charger <b>Made</b> : Japan or Equivalent

7	P-136	Corindon 50	18	Bag	Cleaning Bay (Atar)	Description : Abrasive of 0.040 to 0.090 MM granular grade Composition :Elements (Limits in weights) Colour : Brown Alumina : 94.0 % Min Titanium oxide: 2.5 % Min Iron oxide : 0.2 % Max Total Silica : 0.5 % Max Density : 3940 Kg / M3
8	BN5029	Rubberized Material for Seal	1	Ea	Kinematic Chain Bay	<b>Scope of Work</b> Material testing is required for subsequent manufacturing of accy support part no 501-327-045-0 <b>(Repair)</b>
9	AUX-0045	Elect Motor 08 HP	1	Ea	Aux Services Shop	Specifications are attached at the end, please
10	CK4290-272	Oil Seprator Kit (D) L 132-160	2	Ea	Aux Services Shop	As per sample
11	BPC-485	Testrig Machine	1	Ea	Fuel Regulator Shop	<b>Scope of Work:</b> (i) Rough adjustment valves, part no 485-51-11 & 12, qty 02 required to be replaced (ii) Qty 01 filter pump delivery hose part no 485-1041 (iii) Panel port filter pump delivery hose part no 485-1042 <b>(Repair)</b>
12	21F/8030PK8D30	Electric Platform Truck	1	Ea	Electronic Shop	<b>Scope of Work:</b> (i) Motor defected (moving erratic) (ii) Seat cover deteriorate (iii) Paint paled off (iv) Head light and indicators U/S (v) Horn U/S (vi) Controller U/S <b>(Repair)</b>
13	FTB200MAINFRAME/FTB7200DMODULE	OTDR	1	Ea	Comm Center	<b>Scope of Work:</b> (i) OTDR module not detected by main meter (ii) Battery not working <b>(Repair)</b>



14	7GH1001448	Regulator Hydrogen	1	Ea	Plasma Shop	Metco USA or Equivalent
15	9MB18	Electrod Holder Assy	1	Ea	Plasma Shop	Metco USA or Equivalent
16	P-430	Eccobond 104 A+B	1	Kg	Electrical Bay	Eccobond 104 A+B
17	A1VAZTYPE-7	Oil Dispencer	1	Ea	Final Assy	Sample will be provided at the time of purchase
18	P-502	Loctite	1	Bt	Mechanical Bay	Loctite
19	Z42/4	Plating Barrel	1	Ea	ETP Shop	<b>Scope of Work:</b> (i) The motor drive gear of plating barrel is U/S and also, pully (ii) Of barrel is not working properly therefore, pully of barrel and gear of barrel needs to be repaired / replaced ( <b>Repair</b> )
20	MC/234	Dry Seed Blasting Machine with Accy	1	Ea	Cleaning Bay (Atar)	<b>Scope of Work:</b> (i) Media duct wear off qty 04 Ea (ii) cyclone cone damage required to be replaced (iii) Filter cabin damage (iv) Rotary table's sheet broken required to be replaced ( <b>Repair</b> )
21	AMS4777	Brazing Alloy Nickl(Welding Rod)	5	Lb	Turbine Bay T-56	<b>(i) Condition:</b> Factory New / New (in shape of powder (ii) MSDS: required (iii) With OEM Conformance certificate
22	8135PK2260001	Carton Corrugated Sheet 36X16X24	500	Ea	Warehouse Aircraft	Carton Corrugated Sheet 36X16X24
23	8500-29B	Pin Extractor	10	Ea	Electric Febrication Shop	Pin Extractor

24	AMS4774	Silver Braze Rod Dia 1-1.5 MM	2	Kg	Compressor Bay T-56	(i) Country Origin: USA or Equivalent (ii) Thickness; 1 MM (iii) With OEM conformance certificate
25	AF-400	Asbestic Joint Sheet 1/4 Inch Thickness 6.0 MM	1	Ea	Boiler Shop	(i) <b>Thickness:</b> ¼ Inch (06 MM) (ii) <b>Length Width:</b> 6x6 feet
26	BIZHUB658E	Konica Minolta Bizhub 654E Basic Unit Photocopier	1	Ea	Method Design Office (Atar)	<b>Scope of Work:</b> (i) Developer unit life expired (ii) Heater section roller upper layer lifted up (iii) Leaving black sign on print landscape (iv) Tray rollers is not picking the paper (v) Tray rollers need to be replaced <b>(Repair)</b>

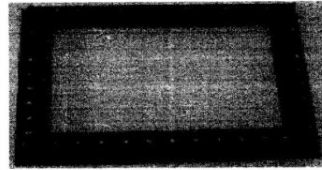
## S No: 03 SPECIFICATION OF PSA INSERT (UPPER PART)

## S No: 04 SPECIFICATIONS OF VIBRATION PICK UP ROD

### envisionTEC.

The **Standard** type consists of a treated glass bottom with an acrylic border. It is recommended for R5 and R11 resins only.

The **M-Type** basement is similar to the Standard, but is produced with a different chemical treatment of the glass surface. It can be used with all available materials. Please note that both the Standard and M-Type basements are consumables that have to be replaced if they are scratched or old.



PSA Basement

The **PSA** (Pre-Stretched Assembly) basement comprises two components:

The upper part consists of stretched film fitted between a frame. The film is highly flexible and allows for an easy and fast build part separation and thus for a faster building process than with the non-flexible Standard or M-Type basement.



Please note that the upper part of the PSA basement is a consumable that has to be replaced if it is scratched or otherwise damaged.

The bottom part consists of a glass plate which is separated from the upper part by a separation foil. The bottom part of the PSA basement usually does not have to be exchanged.

The PSA basement is available for Perfactory® IV machines only. It is delivered as a **Standard** or **High Border** type, the latter of which is used for machines with large build platforms. Like the M-Type, it can be used with all envisionTEC® photopolymers. However, it is recommended for certain model geometries only. If you want to build rather large build parts, for instance, the use of a PSA basement is not advisable.

Please note: Only buildstyles with zero values for the tilting function can be applied if a PSA basement is used.

Regardless of the type of basement used and its size, the material level should never exceed 3 mm. A higher filling level poses the risk of overflowing during the building process.

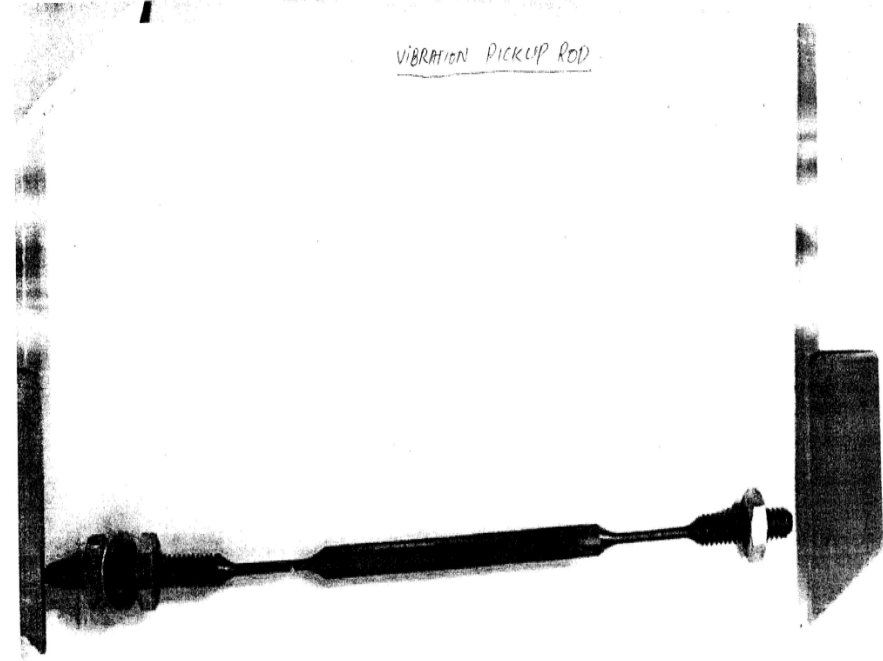
For all types of basements a thorough cleaning after each building process is important. Residues of cured material may scratch the basement surface, which can result in building errors and failed separation of the build model from the basement. Therefore, please make sure to always check the basement for remains of cured resin using the supplied playing cards. Also check that the bottom side of your basement is not dirty, which could also impair its clarity.

For further details on the cleaning process, please refer to section 7.3 "Cleaning the Basement".

**Important:** If you switch between different kinds of basements, the Offset value has to be changed. Please refer to section 6.2.2 "Offset" for further information.

## S NO: 09 SPECIFICATIONS OF ELECT MOTOR 08 HP

## S NO: 05 SPECIFICATIONS OF TOOL FOR LOOSENING PHILIPS Screws



# 65 mm LENGHT

S No	Noun	Specification
1	Type / Model	MBs 132 M-2/12 / Equivalent
2	Make	Country of Origin USA / Europe are equivalent
3	Motor with brake	3 phase AC
4	Motor capacity	4.6 / 0.7 kw
5	Ampere	10.5 high speed / 7.2 low speed
6	RPM	2880 high speed / 470 low speed
7	Volt	400 V (AC)
8	Frequency	50-60 Hz
9	Braking	B X LD 8
10	Braking Torque	0.8 KPM
11	Wst. Operation	3000 RPM
12	Brake	230 VDC
13	Brake Ampere	0.6 Amp

