

PAKISTAN AERONAUTICAL COMPLEX, KAMRA MIRAGE REBUILD FACTORY

TENDER NOTICE : OPEN TENDER

Tender reference	:	MRF/Log/24-25/OT-3
Tender No	:	OT-3
Publishing date	:	13 September, 2024
Last date of submission of bids	:	26 September, 2024 (1000 Hrs)
Opening date & Time	:	26 September, 2024 (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 **26 September, 2024**. 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: -

“Hydraulic Road Blocker, Salt Tablets, Kaspersky Endpoint Security For Business Advanced Public Sector Renewal 1500-2499, Barrier Material, Adhesive, Corrosion Inhibitor, Cleaning Solvent, Safety Wire, Anti-Seize Compound, Sealant, Safety Wire, Corrosion Inhibitive Compound, Aliphatic Naphtha, Cheese Cloth, Safety Wire, Anti-Seize Compound, Sealant, Adhesive, Adhesive, Polyurethane Coating, Polyurethane Coating, Primer, Aeroshell 22, Adhesive, Aeroshell 7, Anti-Seize Compound, Lint Free Cloth, Corrosion Inhibitor, Cleaning Compound, Cleaning Compound, Filler, Lubricant, Aeroshell 7, Barrier Material, Barrier Material, Loctite, Adhesive Loctite, Corrosion Inhibito, Isopropyl, Alphatic Naphtha, M-E-K, Ardrex, Aeroshell 64 , Afs Light Paraffin Oil, Engine Oil, Hydraulic Fluid, Solvent, Lps Precision Clean, Solvent, Rust Stripper, Afs Light Paraffin Oil, Afs Cleaner, Ardrex 6345, Petroleum Solvent, White Petrolatum, Silicon Sealing Compound, Detergent Gel, Engine Cleaner, Compound Corrosion Preventive, Fuel Additive, Corrosion Preventive, Protective Coating, RPG-7, Sniper 7.62 MM UK (Accuracy), Deutrometer,, Liner Encoder.”

13. List of items can also be downloaded from PPRA website www.ppra.org.pk and as well as PACB website www.pac.org.pk free of cost or can be collected from DTE of Log (LP Section) MRF PAC Kamra Distt Attock from **16 September, 2024** 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/24-25/OT-3 Date of Publishing 13 September, 2024 Last Date of Bids Submission 26 September, 2024

S No	Part No	Noun	Qty	UI	Shop	Remarks / Specifications
1	ARTB-3110	Hydraulic Road Blocker	1	Ea	Provost Sqn	Specifications are attached at the end, please
2	7647-14-5	Salt Tablets	4000	Kg	Boiler Shop	Specification Noun : Salt tablets Chemical noun : Sodium chlorid Chemical Formula : NaCl Part No : 764-14-5 Percentage : 99.9% pure Shelf Life : Minimum 02 Year.
3	KL4867IAWFD	Kaspersky Endpoint Security For Business Advanced Public Sector Renewal 1500-2499	800	Ea	IT MRF	Part No : KL4867IAWFD Noun : Kaspersky Endpoint Security For Business Advanced Public Sector Renewal 1500-2499
4	MIL-PRF-131TYPE1CLASS111	Barrier Material	1	RI	R&D Tfe	As per sample
5	LOCTITE 222	Adhesive	1	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : LOCTITE 222 Noun : Adhesive
6	MIL-PRF-16173E GRADE 1	Corrosion Inhibitor	1	Gallon	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-16173E GRADE 1 Noun : Corrosion Inhibitor
7	ARDOX 5503A	Cleaning Solvent	10	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : ARDOX 5503A Noun : Cleaning Solvent
8	MS20995C32	Safety Wire	0.5	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MS20995C32 Noun : Safety Wire
9	LOCTITE 8009	Anti-Seize Compound	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : LOCTITE 8009 Noun : Anti-Seize Compound
10	RTV106	Sealant	1	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : RTV106 Noun : Sealant

11	MS20995C15	Safety Wire	0.5	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MS20995C15 Noun : Safety Wire
12	MIL-PRF-8116	Corrosion Inhibitive Compound	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-8116 Noun : Corrosion Inhibitive Compound
13	TT-N-95, TYPE II	Aliphatic Naphtha	1	Gallon	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : TT-N-95, TYPE II Noun : Aliphatic Naphtha
14	CCC-C-440 CLASS I	Cheese Cloth	1	Mtr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : CCC-C-440 CLASS I Noun : Cheese Cloth
15	MS20995C41	Safety Wire	0.5	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MS20995C41 Noun : Safety Wire
16	LOCTITE 8009	Anti-Seize Compound	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : LOCTITE 8009 Noun : Anti-Seize Compound
17	MC-780, CLASS B-2	Sealant	2	Tub	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MC-780, CLASS B-2 Noun : Sealant
18	MMM-A-132 TYPE 1, CLASS 3	Adhesive	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MMM-A-132 TYPE 1, CLASS 3 Noun : Adhesive
19	LOCTITE 640	Adhesive	1	Tube	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : LOCTITE 640 Noun : hesive
20	MIL-PRF-85285, TYPE I	Polyurethane Coating	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-85285, TYPE I Noun : Polyurethane Coating
21	MIL-PRF-85285 Type I, CLASS H	Polyurethane Coating	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-85285 Type I, CLASS H Noun : Polyurethane Coating
22	MIL-PRF-23377K, TYPE I, CLASS C2	Primer	2	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-23377K, TYPE I, CLASS C2 Noun : Primer

23	MIL-PRF-81322F	Aeroshell 22	3	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-81322F Noun : Aeroshell 22
24	MIL-R-46082 TYPE III	Adhesive	1	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-R-46082 TYPE III Noun : Adhesive
25	MIL-PRF-23827 TYPE II	Aeroshell 7	3	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-23827 TYPE II Noun : Aeroshell 7
26	51606	Anti-Seize Compound	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : 51606 Noun : Anti-Seize Compound
27	32B/PAF-L-10	Lint Free Cloth	2	Mtr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : 32B/PAF-L-10 Noun : Lint Free Cloth
28	MIL-PRF-16173E GRADE 1	Corrosion Inhibitor	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-PRF-16173E GRADE 1 Noun : Corrosion Inhibitor
29	AMS-S8802C, TYPE II CLASS B	Cleaning Compound	1	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : AMS-S8802C, TYPE II CLASS B Noun : Cleaning Compound
30	PR 1828 CLASS B-1/2	Cleaning Compound	2	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : PR 1828 CLASS B-1/2 Noun : Cleaning Compound
31	EA960F	Filler	1	Kit	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : EA960F Noun : Filler
32	MOLYKOTE DX	Lubricant	1	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MOLYKOTE DX Noun : Lubricant
33	MIL-G-21164	Aeroshell 7	3	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-G-21164 Noun : Aeroshell 7
34	MIL-B-121C	Barrier Material	1	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project)	Part No : MIL-B-121C Noun : Barrier Material

35	MIL-B-131	Barrier Material	1	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-B-131 Noun : Barrier Material
36	Loctite quick clean 7031	Loctite	1	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : Loctite quick clean 7031 Noun : Loctite
37	Loctite 222	Adhesive Loctite	2	Bottle	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : Loctite 222 Noun : Adhesive Loctite
38	Leather ink remover	Corrosion Inhibitor	1	Tube	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : Leather ink remover Noun : Corrosion Inhibitor
39	TT-I-735, Grade A	Isopropyl	3	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : TT-I-735, Grade A Noun : Isopropyl
40	TT-N-95, Type II	Alphatic Naphtha	3	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : TT-N-95, Type II Noun : Alphatic Naphtha
41	Methyl-Ethyl-Ketone (MEK)	M-E-K	5	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : Methyl-Ethyl-Ketone (MEK) Noun : M-E-K
42	Ardrox 6333	Ardrox	5	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : Ardrox 6333 Noun : Ardrox
43	MIL-G-21164	Aeroshell 64	3	Kg	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-G-21164 Noun : Aeroshell 64
44	100105-000	Afs Light Paraffin Oil	20	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : 100105-000 Noun : Afs Light Paraffin Oil
45	MIL-PRF-23699G	Engine Oil	30	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-PRF-23699G Noun : Engine Oil
46	MIL-H-83282C	Hydraulic Fluid	24	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-H-83282C Noun : Hydraulic Fluid

47	PWC11-045	Solvent, Lps Precision Clean	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-045 Noun : Solvent, Lps Precision Clean
48	PWC11-061	Solvent, Rust Stripper	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-061 Noun : Solvent, Rust Stripper
49	100105-000	Afs Light Paraffin Oil	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : 100105-000 Noun : Afs Light Paraffin Oil
50	100205-000	Afs Cleaner	10	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : 100205-000 Noun : Afs Cleaner
51	PWC11-003	Ardrox 6345	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-003 Noun : Ardrox 6345
52	PWC11-027	Petroleum Solvent	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-027 Noun : Petroleum Solvent
53	PWC06-002	White Petrolatum	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC06-002 Noun : White Petrolatum
54	PWC09-003	Silicon Sealing Compound	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC09-003 Noun : Silicon Sealing Compound
55	PWC11-034	Detergent Gel	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-034 Noun : Detergent Gel
56	PWC11-031	Engine Cleaner	1	Ltr	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC11-031 Noun : Engine Cleaner
57	PWC15-003	Compound Corrosion Preventive	2	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : PWC15-003 Noun : Compound Corrosion Preventive
58	MIL-S-53021A	Fuel Additive	2	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-S-53021A Noun : Fuel Additive

59	D50TF6-S1 General Electric	Corrosion Preventive	2	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : D50TF6-S1 General Electric Noun : Corrosion Preventive
60	MIL-PRF-6799K	Protective Coating	2	Can	AW-139 Helicopter O/H Project,Rmc (Paf Project	Part No : MIL-PRF-6799K Noun : Protective Coating
61	B11055201014266	RPG-7	1	Ea	Gc Sqn	Specifications are attached at the end, please
62	1010PK0009376	Sniper 7.62 MM UK (Accuracy)	3	Ea	Gc Sqn	Specifications are attached at the end, please
63	3872-001	Deutrometer	1	Ea	Ndi Bay (TFE 731)	Name Deutrometer Model : 3872-001 Made by Karl Deutsch Wuppertal Germany complete accessories. Calibration certificate and 02 years warranty req at receipt.
64	LS403	Liner Encorder	1	Ea	Machine Shop (F100)	Liner encoder LS 403 /*LS 403C Length : 1024 mm company Width : 32.7mm heidenhain Thickness : 17.7 mm

S No 62 Specification OF Sniper 7.62 MM UK (Accuracy)

TECHNICAL SPECIFICATIONS [SNIPER RIFLE 7.62 MM]		
1.	Caliber	7.62 x 51 mm (NATO)
2.	Magazine Capacity	5 to 10 Rounds
3.	Weight (with scope)	Max 8 Kg
4.	Weight (without scope)	6 to 7 Kg
5.	Overall Length	1000-1200 mm
6.	Folded Length	750-1000 mm
7.	Barrel Length	Min 600 mm
8.	Muzzle Brake	Standard
9.	Effective Range	800-1000 mtr
10.	Accuracy	Max ½ MOA or Max 0.15 Mil Rad
11.	Life of weapon / Barrel	Min 5,000 Rounds
12.	Butt Pad	Adjustable for height and length
13.	Cheek piece	Adjustable
14.	Front Bipod	Adjustable and quick release
15.	Rear monopod	High strength and fully adjustable
16.	Sight	Front (folding/flip-up) and rear sights
17.	Rail for add-on accessories	Mil Std 1913 (Picatinny Rail) (Military grade scopes, optical devices, NVD, laser designator, torch, etc)
18.	Sling Attachment points	2-Point (3-Point preferable)
19.	Transit case cutouts	OEM's standard carry case will for all rifle's parts / sub - assemblies (Ruggedized water - resistant hard Carry Case if preferable)
20.	Interchangeability	All parts must be interchangeable

Notes: -

- Supplier shall provide OEM's certificate confirming interchangeability of parts and

S No 61 Specification OF RPG-7

TECHNICAL SPECIFICATIONS RPG-7 (ROCKET LAUNCHER 40 MM)	
Caliber of PRF-7	40mm
Caliber of Grenade (As measure at grenade-nose)	85mm
Length of RPG-7	950mm
Length of Round	925mm
Length of Grenade	640mm
Muzzle Velocity	120 m.p.s
Muzzle Velocity of Grenade	300 m.p.s
Point Blank Range	330 m
Maximum Aimed Range	500 m
Armour Penetration	300 mm
Rate of Fire	4-6 rounds / minutes
Weight of RPG-7 with Telescopic Sight	6.3 Kg
Weight of Round	2.2 Kg
Weight of Grenade	1.8 Kg
Weight of Carrier with Two SPTA Set	7.1 Kg
Weight of Carrier with Three Rounds	9.3 Kg
Shipping Volume	0.21 m ³

OR

Equivalent /Latest Specifications available in the market

S No 01 Specification OF Hydraulic Road Blocker

No. MRF/2753/2/Provost/PC-09/PACB/1002/58/Org
Pakistan Aeronautical Complex Board, Kamra
Dated 11 March, 2024

SPECIFICATION OF ROAD BLOCKER

Specification / Features

1. The whole mechanism consists of following major points including mechanical / Electrical components: -

- (i) Hydraulic tank (40 litre)
- (j) Hydraulic pump
- (k) Blocker (size 14 x 4 x 4 ft)
- (l) Hydraulic Hoses
- (m) NRV (No return valve)
- (n) Direction Control Valve / Solonide Relay
- (o) Flow Control Valve
- (p) Pressure Relief Valve
- (q) Motor / Cabinet Shade (Box Housing)
- (r) Electric Induction Motor 3 Phase (5.5 HP)
- (s) Programming Logic Control (PLC)
- (t) Magnetic Contactor (3 Phase)
- (u) Circuit Breaker (3 Phase)
- (v) Circuit Breaker (1 Phase)
- (w) DC Relay (24 Volt)
- (x) Over Load Relay
- (y) Phase Sequence Relay
- (z) Proximity Limit Switch
- (aa) Remote System (Mechanism)
- (bb) Signal Light System
- (cc) Consumable accessories (as required)

Note: - The system is hydraulically operated and electrical controlled. Power requirement of the system is 3 Phase as well as single Phase but also used 24V DC supply for controlling the system.

Installation

