PAKISTAN AERONAUTICAL COMPLEX, KAMRA
MIRAGE REBUILD FACTORY

TENDER NOTICE : OPEN TENDER

Tender reference	:	MRF/Log/25-26/OT-07	
Tender No	:	OT-07	
Publishing date	:	12 January, 2026	
Last date of submission of bids	:	26 January, 2026	(1000 Hrs)
Opening date & Time	:	26 January, 2026	(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 submission, 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 **(remaining life not less than 75 % at time of delivery)** 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 favor 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 contains 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 **(remaining life not less than 75 % at time of delivery)** 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.**

Officer In charge 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 Jan, 2026**. 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 Officer In charge 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.

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 (Local Purchase Section) MRF PAC Kamra Distt Attock from **13 Jan, 2026** during working hours (except holidays).

Yours Sincerely,

(IRFAN WAHEED)
Squadron Leader
for Managing Director
MRF, PAC Kamra

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/2025-26/OT-07 Date of Publishing 12 Jan, 2026 Last Date of Bids Submission 26 Jan, 2026

S No	Part No	Noun	U/I	Qty	Shop	Remarks / Specifications
1	306-111-1	Test Bed Atar Engine	Ea	1	Test Bed	As Per Attached
2	5868PK0016364	Speed Gun Camera	Ea	2	Provost Sqn Mrf	As Per Attached
3	MOD-4836	Vapour Blasting Liquid Honing Machine Model 4836 Along With Accy & Auto Filter	Ea	1	Cleaning Bay (Atar)	As Per Attached
4	EPOS-1	Electropeneum Atic Positioner	Ea	1	Ht Shop J69 O/H Project	As Per Attached
5	CNU362E	Shipping and Storage	Ea	1	R&D Bay	As Per Attached
6	CNU361E	Shipping and Storage (Gear)	Ea	1	R&D Bay	As Per Attached
7	VOLTALEF3AB1KG	Lubricant Oil Weapons	Can	10	Inst I	As Per Sample
8	CNU363E	Container (Fan Mod)	Ea	2	R&D Bay	As Per Attached
9	71A/9424905	H-P Argon Am/6.80m3 Cyl	Nm3	880	Warehouse Tech	**Part No :** 71A/9424905 **Noun :**H-P Argon Am/6.80m3 Cyl
10	9520PK0960009	Rack storage steel 33’x16’x3.5’	Ea	2	Compressor Bay	As Per Attached & Sample
11	3G6230A03952	Peeling Shim	Set	1	Aw-139 Helicopter O/H Project,Rmc (Paf Project)	As Per Attached
12	WM00	Moment Weighing Machine	Ea	1	Tfe731 Assy/Disassy	As Per Attached
13	71A/9424903	Gas Acetylene 98%	Nm3	300	Warehouse Tech	**Part No :** 71A/9424903 **Noun :** Gas Accetylene 98%
14	AS46789-407	Rivet	Ea	100	Aw-139 Helicopter O/H Project,Rmc (Paf Project)	**Part No :** AS46789-407 **Noun :** Rivet
15	MIL-C-5040TYPEIII	Nylone Cord (C118)	Me	100	Aw-139 Helicopter O/H Project,Rmc (Paf Project)	**Part No :** MIL-C-5040TYPEIII **Noun :** Nylone Cord (C118)
16	21B/305	Storage Cabinet	Ea	6	Dis Assy Bay & Final Assy	As Per Sample

17	SDS-1600	Ball Tip Scriber	Ea	1	Inspection Services TFE 731	As Per Attached
18	2-260-136D	Port Meter Variable 25 K OHM	Ea	12	Welding Shop (Atar)	As Per Attached
19	6798783	Fix Holding Coupling Inner & Intermediate Member	Ea	1	T56 Eng Quality	**Manufacturer :** USA (OEM) **Cage Code :** 73342 **NSN :** 5220-00-068-3852
20	6798782	Tracer Safety Coupling Helical Tooth	Ea	1	T56 Eng Quality	**Manufacturer :** USA (OEM) **Cage Code :** 73342 **NSN :** 5220-00-069-0084
21	MY20712-VGA	Partition Panel	Ea	1	Da-20 Aircraft O/H Project	**Part No :** MY20712-VGA **Noun :** Partition Panel
22	MY20712-05	Rear Furnishing Panel	Ea	1	Da-20 Aircraft O/H Project	**Part No :** MY20712-05 **Noun :** Rear Furnishing Panel
23	MY20712-105	Stud	Ea	250	Da-20 Aircraft O/H Project	**Part No :** MY20712-105 **Noun :** Stud
24	5510PK3550002	Working table steel 4’x3’	Ea	6	Blosting Bay	As Per Drawing & Sample
25	MC/234	Dry Seed Blasting Machine With Accy	Ea	1	Blosting Bay	As Per Attached
26	NYCOPROTECO2	Preventive Compound	Ltr	03	Atar Engine	**Pack Size :** Can of 01 Ltr **Shelf Life :** 04 Years
27	093-997-470-2-P-262	Diversy 202 Product Use For Alkaline Degreasing of ALmunium Alloy	Kg	50	Atar Engine	**Pack Size :** Pack Of 25 kg **Shelf Life :** N/Life
28	093-997-079-1P-562	Bolicone 36081 Aluminum Pigment Silicone Paint	Kg	10	Atar Engine	**Pack Size :** Pack of 01 Kg **Shelf Life :** 01 Years
29	093-997082-1P-600	Bolicone 36118 Baryum Chormate Primer	Can	02	Atar Engine	**Pack Size :** Pack of 01 Kg **Shelf Life :** 01 Years
30	093-997-083-1P-601	Bolicone 36121 Aluminum Pigmented Slicone Paint	Kg	10	Atar Engine	**Pack Size :** Pack of 01 Kg **Shelf Life :** 01 Years
31	093-997-085-1P-602 BOLICONE36127	Paint B36127	Kg	02	Atar Engine	**Pack Size :** Pack of 01 Kg **Shelf Life :** 01 Years
32	093-997-080-1P-560	Bolicone 36082 Chrome Phosphate Post Primer Paint	Kg	08	Atar Engine	**Pack Size :** Pack of 01 Kg **Shelf Life :** 01 Years

33	P-870	Red Varnish	Can	02	Atar Engine	**Pack Size :** Botle of 30 ML **Shelf Life :** 02 Years
34	P-243	Liquid Developer For Pnetrant Insp	Ltr	10	Atar Engine	**Pack Size :** Botle of 01 Ltr **Shelf Life :** 04 Years
35	6.0VP-4066/48MHV	Vacuum Furnace	Ea	01	Heat Treatment Shop	As Per Attached
36	542B	Lucas.HRZ.Boring MA	Ea	01	Machine Shop (F100)	As Per Attached
37	96214ASSY6631000-14	Thermal Weapon Sight	Ea	02	Gc Sqn	As Per Attached

S No 01 Specifications of Test Bed Atar Engine

SCOPE OF WORK

The Water Fog Fire System, which is an integral part of the Test Bed Fire Protection System, was installed in the Fuel Farm Area to effectively manage emergency situations in a timely manner. Currently the system has become unserviceable and requires repair, it is proposed that the necessary repair work to be carried out from local market.

S No 02 Specifications of Speed Gun Camera

5. TECHNICAL SPECIFICATIONS OF SPEED GUN CAMERA

Performance:		
Focus Distance	70 meters (230 feet)	
Operating Range	Hand-held	15 – 80 meters (50 – 262 feet)
	Tripod mounted	15 – 90 meters (50 – 295 feet)
Speed Accuracy	±2 km/h	
	±1 km/h	
Speed Range	0 km/h to 320 km/h approaching and departing	
	0 km/h to 200 km/h approaching and departing	
Distance Accuracy	±30 cm absolute accuracy	
	±12 inches absolute accuracy	
Day Resolution	Speed	1 km/h 1 mph
	Distance	1 meter 1 foot
Min Measurement Distance	Speed Mode	10 meters
	Weather Mode	60 meters (Automatic software recognition)
Measurement Time	0.33 – 0.67 seconds	
Laser sampling	Up to 3 measurements per second	
Factory Configured	Speed	Kilometers per hour
	Distance	Miles per hour
		Meters
		Feet
Laser Power		
Laser Wavelength	905 nanometers nominal	
Divergence	2.5 mill radians nominal	
Eye Safety	Class 3R	
Physical Construction:		
Body		
Weight	1.60 kgs	
Size	197 x 124 x 316 mm	
Environment	IP65	
	Water and Dust Resistant	
Temperature Range	Operating	-10°C to +60°C (14°F to 140°F)
	Charging	0°C to +45°C (32°F to +113°F)
	Storage	-20°C to +60°C (-4°F to 140°F)

Hardware		
Processor	ARM	DM368
	Laser Core	
System Memory		
Capture Data Storage	Removable SD Card	16 GB (32 GB is selectable)
SD File System	MS-DOS (FAT 16, FAT32)	
	Linux (EXT2, EXT3)	
Display	4.3 Inch (10.9cm), 480x272 pixel, color, 18 bits per pixel (bpp), touch sensitive	
Camera Sensor	2.0 M Pixel (1600x1200)	
Camera Lens	75 mm, fixed focal lens	
GPS	Receiver	Channel : 20
	Max Update Rate	1 Hz
	Max Altitude	18, 000 Mtrs (59, 000 feet)
	Maximum Velocity	515 m/sec (1689 ft/sec)
	Sensitivity	Acquisition : - 142 dBm
		Tracking : 159 dBm
	Acquisition Times	Hot Start : 1S
	Cold Start	< 60 s
	Re-acquisition	< 1.5 s
	Accuracy	Horizontal Position
	Average	5 Meters (16.4 feet)
	Maximum	10 meters (32.8 feet), autonomous
	5 Meters (16.4 feet), SBAS corrected	
	Vertical Position	
	Average	0 meters (0 Feet)
	Maximum	15 meters (49.2 feet)
	Horizontal Velocity	0.1m/s (0.3 ft/s)
	Time Accuracy	Synchronized with GPS: 1uS
Real Time Clock	CR3032 Backup battery	20 PPM
		3 years without main battery pack
Input / Output (I/O)	RS232, serial communication ports	
	Resistance-type touch panel input	
	06 button inputs (including TRIGGER)	
Power		
Battery pack	7.4 v dc, Lithium-ion Polymer rechargeable battery pack, short circuit and overcharge protected, providing up to 6-8 hours of Continuous operation	

Hardware		
Battery Charger	Charger : 110 v ac to 240 v ac 50/60 Hz Input	
Software		
Operating System	Linux based, with customs device drivers	
Anti Jam	Automatic laser jammer avoidance	
Video Size	Standard Format	640x480 Pixels
Videos Modes	640*480/13FPS	
Still Image Sizes	1600x1200 pixels	
Maximum Record Size	No limited, its related with the system storage	
Data Encryption	AES-128	
Others:		
Measures Mode	Continuous, Locking, Automatic, Video Tracking, Single Distance Measures, Video Mode	
Voice Prompt	Speed together with Voice Synchronization	
Language	English, Chinese	
Warranty	18 Months ,parts availability 5 years	

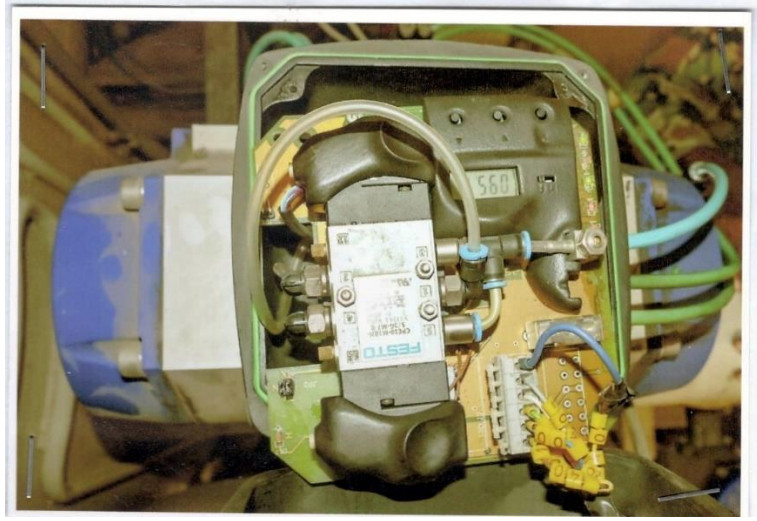
NOTE: Latest specifications available in the market also acceptable

S No 03 Specifications of Vapour Blasting Liquid Honing Machine Model 4836 Along With Accy & Auto Filter

BE ED	SCOPE OF WORK
	Undermentioned repair is required for blasting machine: - (i) Machine cabin repair (ii) Machine door (iii) Exhaust motor (iv) Media hopper (v) Perforated table (vi) Air pressure and water pipe (vii) Lights (viii) Filter & Filter cabin (ix) 01 Year warranty is required

S No 04 Specifications of Electropeneum Atic Positioner

FESTO Valve Sample



S No 05 Specifications of Shipping and Storage

SCOPE OF WORK

a) Paint of container is required.
b) T Bolts, Nuts, washers, stud & alignment pins are required.
c) Upper & lower half required to be repaired.
d) Air relief valve, humidity indicator & visual inspection glass required to be replaced with new one.
e) Panel cover required to be replaced with new one.
f) Internal iron bed of container is required to be paint.
g) Acceptance after quality check.

S No 06 Specifications of Shipping and Storage (Gear)

SCOPE OF WORK

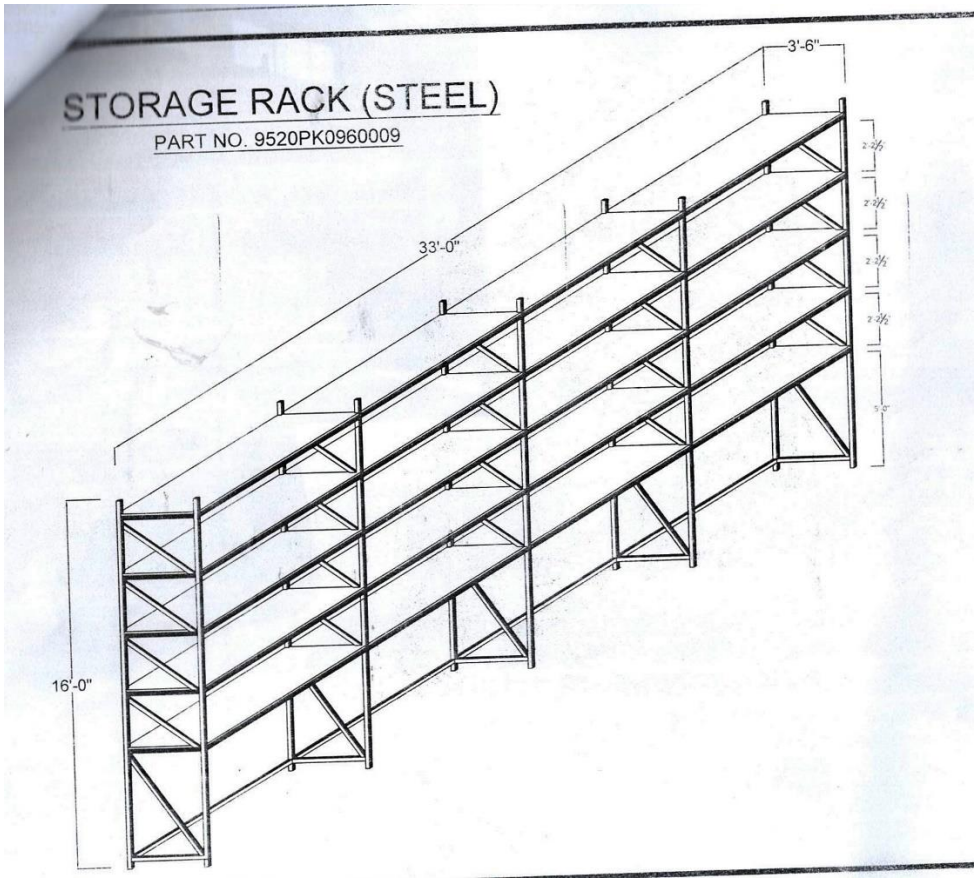
a) Paint of container is required.
b) T Bolts, Nuts, washers, stud & alignment pins are required.
c) Upper & lower half required to be repaired.
d) Air relief valve, humidity indicator & visual inspection glass required to be replaced with new one.
e) Panel cover required to be replaced with new one.
f) Internal iron bed of container is required to be paint.
g) Acceptance after quality check.

S No 08 Specifications of Container (Fan Mod)

SCOPE OF WORK

a) Paint of container is required.
b) T Bolts, Nuts, washers, stud & alignment pins are required.
c) Upper & lower half required to be repaired.
d) Air relief valve, humidity indicator & visual inspection glass required to be replaced with new one.
e) Panel cover required to be replaced with new one.
f) Internal iron bed of container is required to be paint.
g) Acceptance after quality check.

S No 10 Specifications of Rack storage steel 33’x16’x3.5’



S No 11 Specifications of Peeling Shim

10 3G6230A03952 • PEELING SHIM OUTER (NSCM A0126) ** -B— 0001 PAFZZ

EN EA

EP

LN

SN

S No 12 Specifications of Moment Weighing Machine

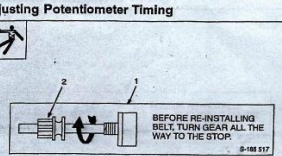
QTY	SCOPE OF WORK
01	Moment Weight Machine / Computer hard disk is required to be repaired/ replaced as S/A.

S No 17 Specifications of Ball Tip Scriber

(a) Scriber tip diameter should be 0.1600 Inch.
(b) Tip surface finish shall be 4 micro inches or better.
(c) Scriber will be acceptable with manufacturer calibration certificate.

S No 18 Specifications of Port Meter Variable 25 K OHM

5. Adjusting Potentiometer Timing



Disconnect foot control from welding power source/generator.

Turn unit upside down, and remove bottom plate.

1 Label

2 Gear

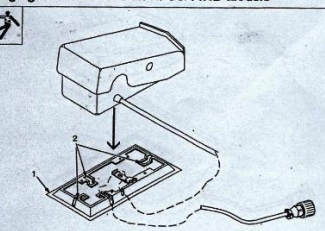
Turn gear on potentiometer shaft counterclockwise as far as possible.

Pull drive belt tight and mesh belt teeth with gear teeth.

Connect free end of small spring into end of drive belt.

Reinstall bottom plate

6. Changing Cord Location On RFCS-14HD Models



Disconnect foot control from welding power source/generator.

1 Bottom Plate

Turn unit upside down, and remove bottom plate.

Remove screw that holds cord in its factory installed location.

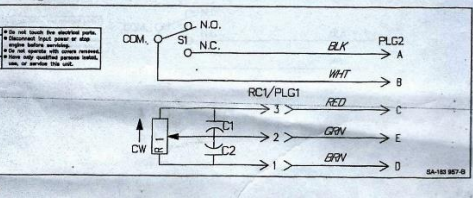
2 Cord Slots

Position cord in desired slot.

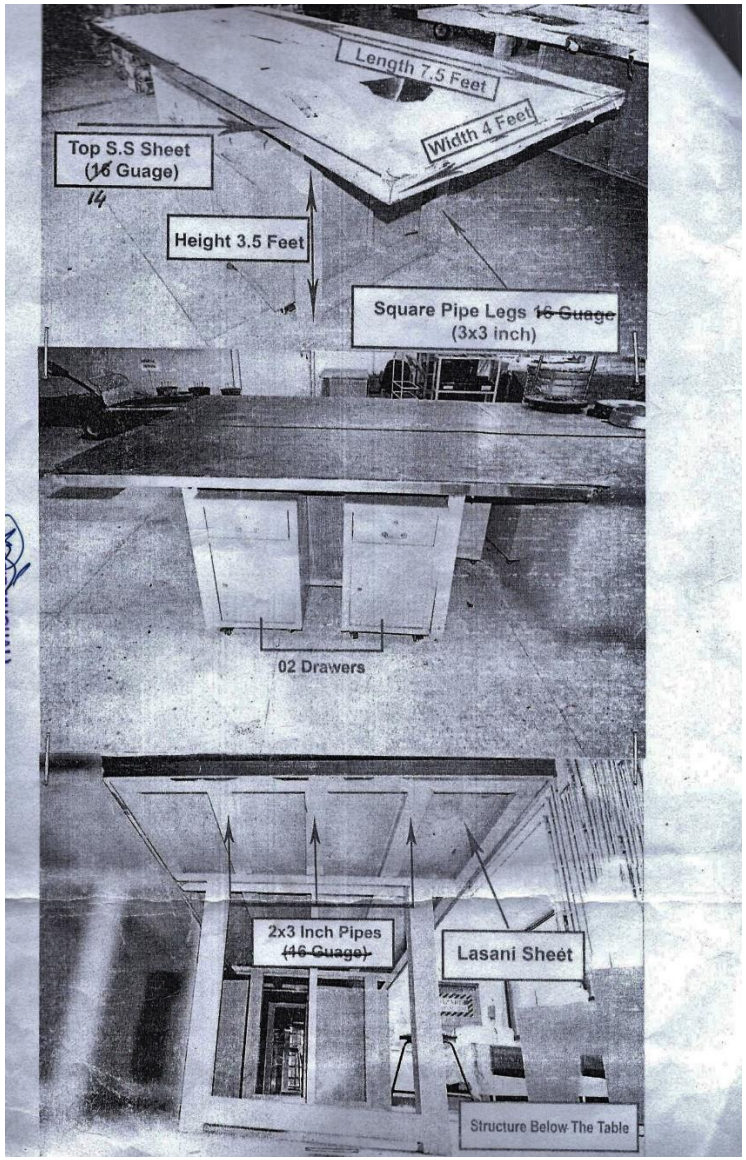
Slide strain relief down cord and into slot to protect cord. Secure cord with screw in the same manner in which it came from the factory.

Reinstall bottom plate

7. Circuit Diagram



S No 24 Specifications of Working table steel 4’x3’



S No 25 Specifications of Dry Seed Blasting Machine With Accy

QTY TO BE REPAIRED	SCOPE OF WORK
01	(i) Repair of Media reclaimer assembly with carbide coated sheet (ii) Repair of Cyclone assembly with carbide coated sheet (iii) Repair of Dust collector (iv) Installation of new side door roller (v) Repair of Turn table

S No 35 Specifications of Vacuum Furnace

SCOPE OF WORK

1. All unserviceable parts during retrofitting/ repair will be replaced with new one by supplier.
2. Power controller qty 02 u/s of vacuum furnace replaced with new one.
3. Replacement of qty 03 "s" type thermocouple with new one.
4. Io device is available at shop floor only installation required.
5. Festo valve qty 02 u/s to be replaced with new one.
6. Hydraulic system of door is required to be repair. All u/s parts during repair need to be replace with new one.
7. Updating of software with latest version.
8. Graph printer & backup supply needed to replace with new one.
9. All pneumatic valve/ pipes replaced with new one.
10. Warranty at least one year
11. Complete serviceability of furnace to be done on turn key basis.

S No 36 Specifications of Lucas.HRZ.Boring MA

ED

SCOPE OF WORK

(a) Machine accuracy (0.001 inch) to be achieved, as spindle accuracy is disturbed.
(b) Oil leakage to be rectified i.e (Lubricant, Hydraulic)
(c) Main lead screw movement to be rectified.
(d) Complete wiring to be rectified and routed as per original layout.
(e) CNC Controller program parameter (Input/Output) to be geometrically calibrated, password reset is also required.
(f) Complete machine repair on turnkey basis is required.
(g) One-year warranty, after serviceability of machine.

S No 37 Specifications of Thermal Weapon Sight

NIGHT VISION THERMAL WEAPON SIGHT

Type & Model	Heavy Weapons Thermal Sight & AN/PAS-13E(V)3 or equivalent			
Performance	Recognition Range (clear)	Human	2350 m	
		Detect Vehicle	7300 m	
	Field of View (FOV)	Wide Field of View (WFOV)	9.00º azimuth	
			6.75º elevation	
		Narrow Field of View (NFOV)	3.00º azimuth	
			2.25º elevation	
	Magnification	Narrow Field of View (NFOV)	8.00x	
		Wide Field of View (WFOV)	2.66x	
Physical Characteristic	length	38cm (15.00 in.)		
	Width	9cm (3.70 in.)		
	Height	13cm (5.20 in.)		
	Weight w/ Battery NSN	1.497 kg (3.30lb)		
	Qualified Weapons	Range Master, Accuracy International, Thunder Bolt, M2, M4, M16, M24, MK19, M82A2, M107,MK47		
Operational	Reliability	>1100 Hours MTBF		
	Operating Temperature	-40ºC to 65ºC (including solar loading)		
	Storage Temperature	-46ºC to 71ºC		
	Moisture Resistance	Immeriscible to 1 meter of water		
	Vibration	Withstands M60A3 Tank Turret		
	Mechanical Shock	Withstands Weapons Fire Shock		
	Time to operation	<20 Seconds from power on		
	Image Polarity	White hot / Black hot		
	Maintenance	Only external cleaning is required		
	Mission operation Life	7 to 12 hours with one battery change		
Interfaces	Power requirements	Four L91 AA Lithium Batteries		
	Mounting	Picatinny MIL-STD-1913 or NATO / STANG, [Mount and calibration for weapon (including mounting rail and accuracies for weapon)]		
	Video Output	SMPTE 170M composite analog NTSC video		
Technology	Detector - LWTS	320 x 240 uncooled VOx FPA		
	Detector – MWTS & HWTS	640 x 480 uncooled VOx FPA		
	IR Band	8-12 mm (LWIR)		
Kit includes	Soft Carry Case, Hard Plastic Storage / Transportation Case, OPMAN, Telescope Lens Cover, Weapons Mount Adopter, Spare Battery Cassette w/Cover, Lens cleaning Kit			