PAKISTAN AERONAUTICAL COMPLEX, KAMRA
MIRAGE REBUILD FACTORY

TENDER NOTICE : OPEN TENDER

Tender reference	:	MRF/Log/26-27/OT-05
Tender No	:	OT-05
Publishing date	:	04 November, 2026
Last date of submission of bids	:	**19** November, 2026 (1000 Hrs)
Opening date & Time	:	**19** November, 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 **19 November, 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 **04 November, 2026** during working hours (except holidays).

Yours Sincerely,

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/2026-27/OT-05 Date of Publishing 05 November, 2026 Last Date of Bids Submission 20 November, 2026

S No	Part No	Noun	U/I	Qty	Shop	Remarks / Specifications
1	MIL-S-38249TYPE1	Sealing Compound C032	Kit	8	Aw-139 Helicopter O/H Project,Rmc (Paf Project)	As per attached list
2	KINETROL-ROTORY1/4-TURN-ACTUATOR	Isolation Valve Kinetrol Model 14	Ea	1	Test Bed	As per attached list
3	100980	Gasket	Ea	1	F100 R&D Bay	As per sample & as per attached list
4	9150PK0940025	Heating Oil	Ltr	300	ETP Shop	As per attached list
5	5868PK0016364	Speed Gun Camera	Ea	1	Provost Sqn	**Part No:** 5868PK0016364 **Noun:** Speed Gun Camera
6	MIL-L-7808	Oil Lubricating	Ltr	6	TFE731 Accessories	As per sample
7	CF26-61.122-345	Hydroforming Machine	Ea	1	Fuselage Repair Shop	**Scope of work:-** Repair required due to tray not exiting
8	X1100N	Safety Shoe Heavy Duty(Impact Resistance Compressive Strength)	Pr	225	Paint And Pickling Shop	As per sample
					Tool CRIB	
					Plasma Shop	
					HT Shop J69 o/h Project	
					Metal Shop (ATAR)	
					Blosting Bay	
					Machine Shop (ATAR)	
					Fuselage Repair Shop	
9	A11513374	Pressure Valve (132KW/160KW)	Ea	1	Aux Services Shop	As per sample
10	TYPE3MBGUN	Plasma Spray Gun Machine Mount 60K.W	Ea	1	Plasma Spray Shop	OERLIKON METCO

11	VLS360	Laser Etch	Ea	1	JFS O/H Shop	As per attached list
12	6796172	Stand Engine Overhaul	Ea	1	Compressor Bay T-56	As per attached list
13	6796177	Stand Transportation	Ea	1		As per attached list
14	1607KR0003	Curtains Motor 12X KW2	Ea	10	Paint And Pickling Shop	As per sample
15	MULTIGLOSS268	Micro Gloss Meter	Ea	1		As per sample
16	33C/297	White Spirit	Ltr	2500		**Part No:** 33C/297 **Noun:** White Spirit
17	PMP1200	Air Pressure Transducer 0-300PSIG+_5%	Ea	1	RGB T-56	As per user sampie
18	P-165	SF3A Primer	Tn	10	Paint Shop	SF3 Primer P-166 Hardner Andrew Company
19	MIL-F-14256	Soldering Flux	EA	1	Accessories T-56	As per attached list
20	N2966100	Optical Adopter AT120	Ea	1	Inspection Services TFE-731	As per attached list & as per sample
21	VOLTALEF3AB1KG	Lubricant Oil Weapons	Ca	2	INST I	As per user sample
22	Q9000FS	Indicator Digital Microval Meter	Ea	1	JFS O/H Shop	**Part No:** Q9000FS **Noun:** Indicator Digital Microval Meter
23	29-099	Moulding Release	Btl	3	MAT Lab	**Part No:** 29-099 **Noun:** Moulding Release Spray **Make/Model:** Metkon (www.metkon.com)
24	6799705	Fix Checking Turb Vane 4th STG	Ea	1	Insp Services T56	**Manufacturer:** USA (OEM) **Cage Code:** 73342 **NSN :** 4920-00-702-0564
25	6799706	Fix Checking Turb Vane 3rd STG	Ea	1	Insp Services T56	**Manufacturer:** USA (OEM) **Cage Code:** 73342 **NSN :** 4920-00-702-0569
26	6799629	Fix Checking Comp Rotor Lab Seal Rr	Ea	1	Insp Services T56	**Manufacturer:** USA (OEM) **Cage Code:** 24617 **NSN :**4920-00-753-1355
27	6796641	Gage Plug Crodd Over Tube	Ea	1	Insp Services T56	**Manufacturer:** USA (OEM)

						Cage Code: 73342 **NSN** :5220-00-631-8959
28	BA-20-3	Bearing Analyzer	Ea	1	JFS O/H Shop	**Part No:** BA-20-3 **Noun:** Bearing Analyzer
29	306-111-1	Test Bed Atar Engine	Ea	1	Test Bed	As per attached list
30	V-622	Sealing Compound	KT	2	Rubber Application Shop	**Part No:** V-622 **Noun:** Sealing Compound
31	100953	Gasket	Ea	1	F100 R&D Bay	As per sample
32	100549-4	Gasket	Ea	1	F100 R&D Bay	As per sample
33	6796889	Fixture	Ea	1	Turbine Bay T-56	**Part No:** Fixture **Noun:** 6796889
34	MC/234	Dry Seed Blasting Machine With Accy	Ea	1	Blosting Bay	As per attached list
35	MOD-DFH-4848	Vapour Blasting Dry Honing Machine MOD DFH 4848 Along With Accy	Ea	1	Blosting Bay	As per attached list
36	H02069	Wind Tunnel T/B	Ea	1	Inst II	**Scope of work:** Repair of tester circuit.
37	62ES	Vertical Grinder54"	Ea	01	ST Shops (R&F)	As per attached list
38	542B	Lucas.Hrz.Boring Ma	Ea	01	ST Shops (R&F)	As per attached list
39	SKIQ12CNC	Vertical Lathe Machine	Ea	01	ST Shops (R&F)	As per attached list
40	CTF-1200	Camera Type Furnace W=1200XL=1200XH=1200	Ea	01	ST Shops (R&F)	As per attached list
41	6.0VP-4066/48MHV	Vacume Furnace	Ea	01	ST Shops (R&F)	As per attached list
42	BT529586	Welding Machine	Ea	01	ST Shops (R&F)	As per attached list
43	FCC3000	Auto Fire System	Ea	01	F100 Mechanical Accessories	As per attached list
44	ML5	Mercury	Kg	As Req	PNEU II	As per user sample
45	3G6430A01851	Lock Washer	Ea	16	RMC AW139	**Part No:** 3G6430A01851 **Noun:** Lock Washer
46	72/6532PK0017317	Bed Sheet Blue		As Req	Clothing Store	**Part No:**72/6532PK0017317

						Noun: Bed Sheet Blue
47	72/8415PK0009759	Jacket Field Off (S) (New Pat)				**Part No:** 72/8415PK0009759 **Noun:** Jacket Field Off (S) (New Pat)
48	8415PK-0003762	Jacket Flying S-Medium				**Part No:** 8415PK-0003762 **Noun:** Jacket Flying S-Medium
49	72/8405PK0011206	Jersey P/O S-34(Woolen)				**Part No:** 72/8405PK0011206 **Noun:** Jersey P/O S-34(Woolen)
50	72/8405PK0011207	Jersey P/O S-36(Woolen)				**Part No:** 72/8405PK0011207 **Noun:** Jersey P/O S-36(Woolen)
51	72/8405PK0011208	Jersey P/O S-38(Woolen)				**Part No:** 72/8405PK0011208 **Noun:** Jersey P/O S-38(Woolen)
52	72/8405PK0011209	Jersey P/O S-40(Woolen)				**Part No:** 72/8405PK0011209 **Noun:** Jersey P/O S-40(Woolen)
53	72/8405PK0011210	Jersey P/O S-42(Woolen)				**Part No:** 72/8405PK0011210 **Noun:** Jersey P/O S-42(Woolen)
54	72/8405PK0011211	Jersey P/O S-44(Woolen)				**Part No:** 72/8405PK0011211 **Noun:** Jersey P/O S-44(Woolen)
55	72/8405PK0011400	Jersey P/O S-46(Woolen)				**Part No:** 72/8405PK0011400 **Noun:** Jersey P/O S-46(Woolen)
56	72/7210PK0011243	Quilt Cover				**Part No:** 72/7210PK0011243 **Noun:** Quilt Cover
57	72/7210PK0010968	Quilt Single Polyster with Bag				**Part No:** 72/7210PK0010968 **Noun:** Quilt Single Polyster with Bag
58	72/8405PK0009623	Socks Black (Combat)				**Part No:** 72/8405PK0009623 **Noun:** Socks Black (Combat)
59	22B/8405PK0006650	Socks Cotton Black				**Part No:** 22B/8405PK0006650 **Noun:** Socks Cotton Black
60	22B/7210PK0000397	Towel Hand				**Part No:** 22B/7210PK0000397 **Noun:** Towel Hand

61	72/8440PK0015851	Vest F/S CD (2022) Large				**Part No:** 72/8440PK0015851 **Noun:** Vest F/S CD (2022) Large
62	72/8440PK0015850	Vest F/S CD (2022) Medium				**Part No:** 72/8440PK0015850 **Noun:** Vest F/S CD (2022) Medium
63	72/8440PK0015849	Vest F/S CD (2022) Small				**Part No:** 72/8440PK0015849 **Noun:** Vest F/S CD (2022) Small
64	72/8440PK0015852	Vest F/S CD (2022) X-Large				**Part No:** 72/8440PK0015852 **Noun:** Vest F/S CD (2022) X-Large
65	72/8440PK0017282	Vest F/S CD (2022) XX-Large				**Part No:** 72/8440PK0017282 **Noun:** Vest F/S CD (2022) XX-Large
66	72/8415PK0012148	Coverall Civ Tech(D/Blue)S-XL				**Part No:** 72/8415PK0012148 **Noun:** Coverall Civ Tech(D/Blue)S-XL
67	22G/8415PK0000683	Coverall Civ Tech(D/Blue) Medium				**Part No:** 22G/8415PK0000683 **Noun:** Coverall Civ Tech(D/Blue) Medium
68	22G/8415PK0000684	Coverall Civ Tech(D/Blue) Large				**Part No:** 22G/8415PK0000684 **Noun:** Coverall Civ Tech(D/Blue) Large
69	22G/8415PK0000682	Coverall Civ Tech(D/Blue) Small				**Part No:** 22G/8415PK0000682 **Noun:** Coverall Civ Tech (D/Blue) Small
70	22F/8415PK0000268	Rain Coat Provost Size-Large				**Part No:** 22F/8415PK0000268 **Noun:** Rain Coat Provost Size-Large
71	22F/8415PK0000267	Rain Coat Provost Size-Medium				**Part No:** 22F/8415PK0000267 **Noun:** Rain Coat Provost Size-Medium
72	22G/8405PK0000118	Cap Water Proof Size-1				**Part No:** 22G/8405PK0000118 **Noun:**Cape Water Proof Size-1
73	22G/8405PK0000119	Cap Water Proof Size-2				**Part No:** 22G/8405PK0000119 **Noun:**Cape Water Proof Size-2
74	22G/8405PK0000120	Cap Water Proof Size-3				**Part No:** 22G/8405PK0000120 **Noun:**Cape Water Proof Size-3

75	PERMABOND_910	Adhesive	Btl	05	F100 Production Cell	**Part No:** PERMABOND_910 **Noun:** Chemical **Note:- Each btl may contain 04 ounce each**
76	Repair of Met Lab Equipments		As Req		QC Eng	As per attached list
77	622350529586	Ammeter Shunt Kit	Ea	01	NDI T56	As per attached list
78	625784	LED UV-A Lamp (EV6000)	Ea	02	NDI T56	As per attached list
79	DVPlus	Viscometer	Ea	01	QC (E)	**Part No:** DVPlus **Noun:** Viscometer
80	MIL-PRF-8116	Corrosion Inhibitor Compound C621	Ltr	24	AW-139 RMC	**Code: - C621**
81	PR1425B2	Sealent	Kit	10	A/C Dock	As per attached list
82	METCO204NS-G PRMIUM	Metco Powder	Lb	200	Plasma Spray Shop	**Part No:** METCO204NS-G PRMIUM **Noun: Metco Powder**
83	P-419	Fiber Glass with Silicon Adhesive	Rl	30	Plasma Shop T-56	As per sample
84	PTU301	Meteo Station Vaisala	Ea	1	TFE731 Test Cell	**Scope of work:** Internal RAM memory Checksum error warning displayed on Screen
85	Electric Platform Truck		Ea	03	Production Cont (Comp)	As per attached list
86	5810PK1910001	Upgradation of license for walkie Talkie set handheld	Ea	As required	Security Wing	**Scope of work:-** Hytera advance digital AES-256 Bits encryption license (standard DMR only
87	A864A1151F020H	Shim	Ea	8	AW-139 RMC	**Part No:** A864A1151F020H **Noun:** Shim
88	MOD-4836	Vapour Blasting Liquid Honing Machine Model 4836 Along With Accy & Auto Filter	Ea	1	Blasting Bay R&F Wing	As per attached list
89	3G5320L00152	Seal Conductive Rubber	Ea	As req	AW-139 RMC	**Part No:** 3G5320L00152 **Noun:** Seal Conductive Rubber
90	Dry Grit Blasting Machine		As Req		R&F Wing	As per attached list

Sealing compound (C032) - Data sheet for dangerous consumables and materials

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References

Table 1 References

Data Module	Title
No References	

Description

1 Material identification nomenclature

Sealing compound

2 Identification number (C number)

C032

3 Description

Sealing compound is a high temperature primerless firewall sealant. The material is designed for sealing firewall structures against the passage of air and vapors. It is a two-part, synthetic rubber compound. The uncured material is a low sag paste suitable for application by extrusion gun or spatula. It cures at room temperature to form a resilient sealant to common aircraft substrates.

4 Trade name

(1) Proseal 700
(2) CS 1900
(3) PR 812

5 Supplier trade name code

(1) PPG Aerospace
(2) The Flamemaster Corporation
(3) PPG Aerospace

6 Specification references

SAE AMS3374 and SAE AMS3381

7 Storage information

The storage life of sealing compound is at least 12 months when stored at temperatures below 27° C (80° F) in original unopened containers.

8 Packaging information

None

9 Transportation information

None

10 Specification requirement/General Characteristics

The sealing compound has the physical and chemical properties described as follows:

Color:	(1) Black (2) Black (3) Black
Base viscosity:	(1) 12,000 poise (2) 10,000 - 12,000 poise (3) 12,000 poise
Specific gravity at 25° C (77° F):	(1) 1.36 (2) 1.33 (3) 1.33
Service temperature range:	(1) -54° C (-65° F) to 204° C (400° F) (2) -54° C (-65° F) to 204° C (400° F) (3) -54° C (-65° F) to 204° C (400° F)
Nonvolatile content:	(1) 70% (2) 68% (3) 65%

S No 02 Specifications of Isolation Valve Kinetrol Model 14

S No 04 Specifications of Heating Oil

JRED

SCOPE OF WORK

Replacement of complete Standard Seal kit of Kinemetic Model 12" Pneumetic Valve.

S No 11 Specifications of Laser Etch

Part NO: -

9150PK0940025

Noun: -

Heating Oil

Physical Characteristics:

(a) ISO viscosity grade: **46**

(b) Specific gravity@15ċ kg/l : **0.872**

(c) Kinematic viscosity: **44**

(d) Flash point : **220 ċ**

(e) Pour point : **-6 ċ**

(f) Initial boiling point : **320 ċ**

Acid

S No 12 Specifications of Stand Engine Overhaul

UNIVERSAL LASER SYSTEMS

VLS3.60ES LASER SYSTEM

The new VLS3.60ES is a compact desktop laser system designed for multi-user environments such as educational settings, laboratories, and shared spaces within businesses. For operators, it offers a rich set of features and capabilities that enhance productivity, operational efficiency, usability, and safety. For administrators, it provides access control and support capabilities to effectively monitor and manage system use and performance.



VLS3.60ES Desktop Laser System : 60 WATT

ADVANCED PRODUCTIVITY, OPERATIONAL EFFICIENCY, USEABILITY, SUPPORT, AND SAFETY

The VLS3.60ES laser system features a 24 x 12-inch (610 x 305 mm) material processing area equipped with an integrated camera vision system to aid users in precisely aligning design files with materials placed on the laser processing support surface.

The desktop is driven by the user-friendly, yet powerful control software, Laser System Manager, with capabilities beneficial for beginning and advanced users as well as administrators such as:

- Access Management and Usage Monitoring
- Device and Design Software Compatibility
- Laser Parameter Optimization Flexibility

With advanced diagnostic, reporting and troubleshooting tools, errors can be rapidly diagnosed and resolved for more uptime. Features include Enhanced Error Detection and Diagnostics and Remote Troubleshooting.

Additionally, its robust design and set of safety features help minimize potential hazards for safe laser processing. Safety features include laminated safety glass, redundant safety interlocks, Overtemperature Detection Alarm, Emergency Stop (E-Stop) Push Button, and Enhanced Fault Detection to monitor the status of the laser source and any accessories installed. For added protection, an optional Fire Suppression Assistance Module is also available.

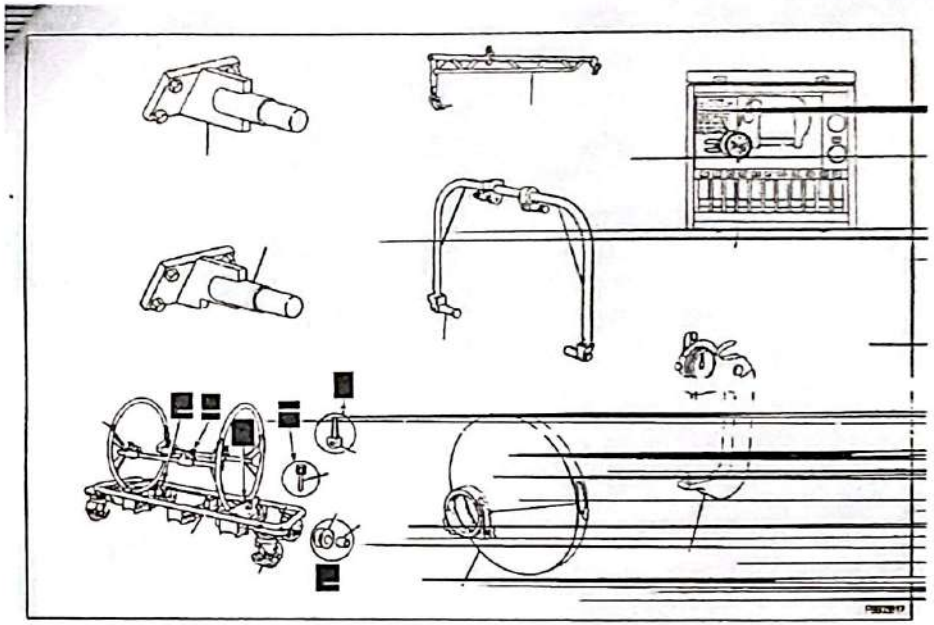


Figure 124. Tools and Ground Handling Equipment for Complete Engine (Special Support Equipment)

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	1 2 3 4 5 6 7 DESCRIPTION	UNITS PER ASSY	USABLE ON CODE	SMR CODE
124-			TOOLS AND GROUND HANDLING EQUIPMENT FOR COMPLETE ENGINE (SPECIAL SUPPORT EQUIPMENT)			
1	6795067		ADAPTER, ENGINE AIR INLET PAD (SEE 6799976 FOR NEW PROC)	2		
2	6799976		ADAPTER, ENGINE AIR INLET PAD (SEE 6795067 FOR NEW PROC)	2		
3	6796172		STAND, ENGINE OVERHAUL	1		
4	RD10		BEARING (92563) (63005 PT NO. 6796172-25)	4		
5	6796172-9		BOLT, HINGE	4		
6	6796172-15		EYEBOLT	4		
7	6795172-29		ROLLER	4		
8	6796172-57		PIN, KNURLED	2		
9	7099-2SL4		CASTER, SWIVEL (06004) (63005 PT NO 6796172-49)	4		
10	6795173		LIFT, ENGINE ASSEMBLY	1		
11	6795577		ADAPTER, DIFFUSER MOUNTING	1		
12	6795303		COVER, COMPRESSOR AIR INLET HOUSING AND TEST SCREEN	1		
13	6799783		GAGE KIT, RETRACTABLE DIAL SNAP, EXTERNAL SPLINE PD, 32/64 PITCH 11, 12, 14, 15, 16, 20, 28 AND 34 TEETH, 20/40 PITCH 12 TEETH	1		

S No 13 Specifications of Laser Etch Stand Transportation

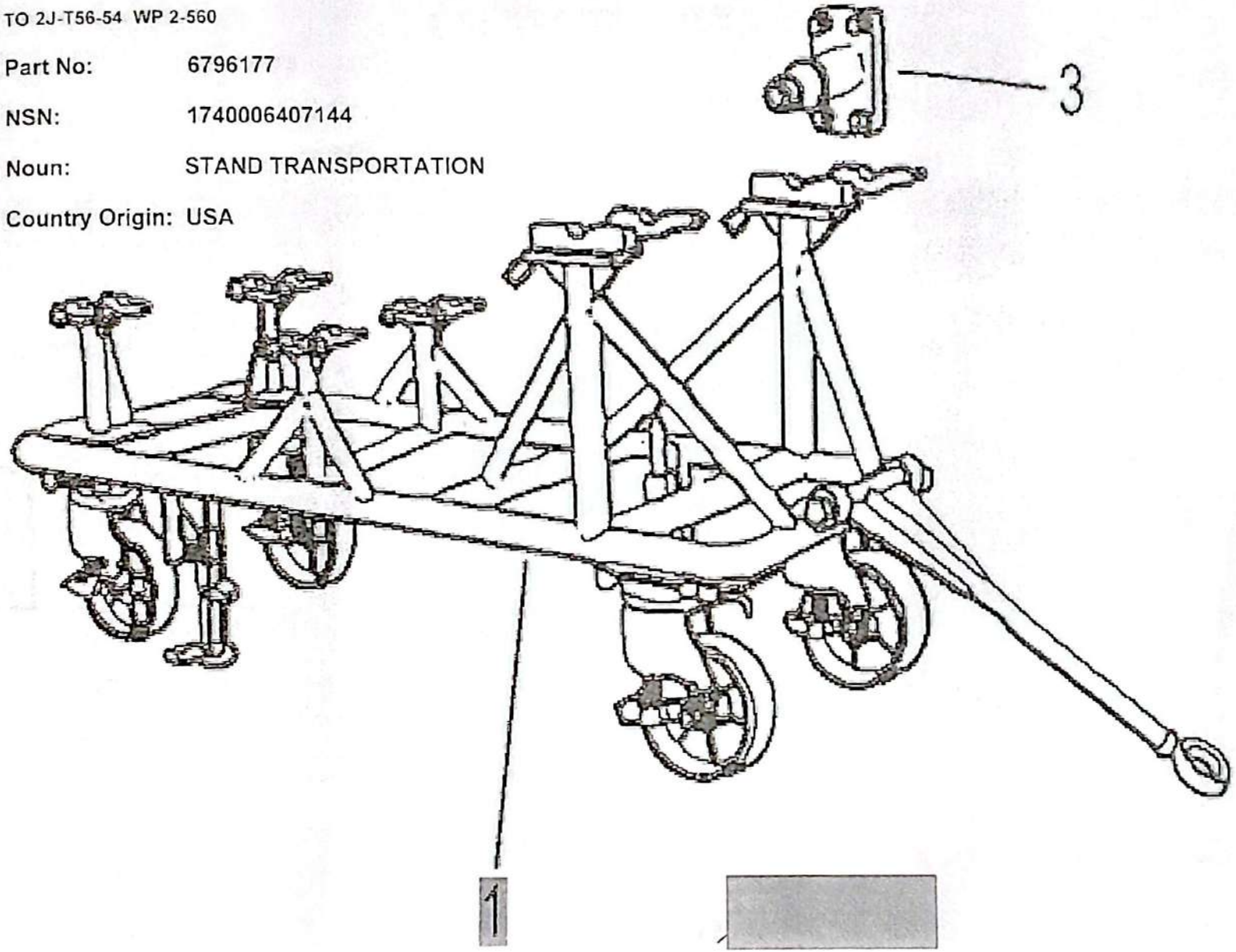
TO 2J-T56-54 WP 2-560

Part No: 6796177

NSN: 1740006407144

Noun: STAND TRANSPORTATION

Country Origin: USA



S No 19 Specifications of Soldering Flux

S No 20 Specifications of Optical Adopter AT120

Liquid Rosin Flux

multicomp

RoHS Compliant

Description

This is a rosin-based liquid flux with moderate activity. It is composed of pure Water White (WW) grade gum rosin in a unique solvent system with highly effective activators. Post soldering residues are nonconductive, non-corrosive, hydroscopic, non-tacky, and fungus resistant.
It can be used for both automated and manual soldering applications. It is great for general purpose soldering of PCBs, wire, cable and semiconductors. It is also ideal for solder coating or tinning leads. It may be applied by spray, foam, or wave fluxing for wave soldering applications.

Features and Benefits

- Meets IPC J-STD-004B and type ROM1
- For both leaded and lead-free solders
- Fast wetting
- Excellent foaming

Usage Parameters

Properties	Value
Shelf life	5 y
Storage temperature limits	18°C to 27°C [65°F to 80°F]

[a] Store in a dry area, away from sunlight.

Properties

Flux Properties	Method	Value
Flux classification	J-STD-004B MIL-F-14256F	ROM1 RA
Flux type	J-STD-004B	Rosin
Flux activity	J-STD-004B	Moderate
Halides by weight	J-STD-004B	0.44%
Copper mirror	IPC-TM-650 2.3.32	Partial removal
Corrosion	IPC-TM-650 2.6.15	Pass
Cleaning requirements	-	Recommended
Physical Properties	**Method**	**Value**
Colour	Visual	Light amber
Solids %	IPC-TM-650 2.3.34	50%
Density	-	0.93 g/mL
Flash point	Closed cup	12°C [53°F]

S No 29 Specifications of Test Bed Atar Engine

10.3 Optical adapter specifications

■ For insertion tube 4-mm type

When the optical adapter is mounted on the insertion tube.

		AT120D/ NF-IV84	AT120D/ FF-IV84	AT120S/ NF-IV84	AT120S/ FF-IV84	AT50D/ 50D-IV84	AT5 50S-I
Product abbreviation		120DN V84	120DF V84	120SN V84	120SF V84	50/50D V84	50/50S
Character color		Red	Green	Red	Green	Blue	Blu
Optical system	Field of view	120°	120°	120°	120°	50°/50°	50°/
	Direction of view	Forward	Forward	Side	Side	Forward/ forward	Side/
	Depth of field *1	4 to 190 mm	25 to ∞ mm	1 to 20 mm	6 to ∞ mm	5 to ∞ mm	4 to ∞
Distal end	Outer diameter *2	ϕ 4.0 mm	ϕ 4.0 mm	ϕ 4.0 mm	ϕ 4.0 mm	ϕ 4.0 mm	ϕ 4.0
	Rigid distal end length *3	19.7 mm	19.6 mm	22.2 mm	22.2 mm	25.0 mm	28.8

NOTE

*1 Indicates the range within which the image can be viewed clearly.
*2 The adapter can be inserted into a ϕ 4.0 mm hole when it is mounted on the insertion tub
*3 Indicates the length of the rigid portion at the insertion tube's distal end when mounted.

S No 34 Specifications of Dry Seed Blasting Machine With Accy

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.

SCOPE OF WORK

1. Repair of reclaimer assembly with carbide coated sheet or equivalent.
2. Cyclone assembly needs to be replaced with new one.
3. Repair of dust collector.
4. Door actuator needs to be repaired.
5. Replacement of Filter Cartridge.
6. 01 Year warranty is required.

MOD DFH 4848 Along With Accy

SCOPE OF WORK

1 Repair of Media reclaimer assembly with carbide coated sheet or equivalent

2 Repair of Cyclone assembly with carbide coated sheet or equivalent.

3 Repair of Door and Face Screen

(i) The existing sliding door of blasting machine shall be modified and converted into two door panels arrangement to open/close upon its fixed axis. The contractor shall provide suitable mechanical arrangement provide necessary hinges, rollers, guides, support locking arrangement stops and other hardware as required. Ensure proper alignment and secure locking of door during machine operation. Carryout all fabrication, welding fitting, grinding and finishing work as per given dimensions: -

Length 42 inch

Width 48 inch

(ii) The existing face shield screen of the blasting machine shall be modified to incorporate a replaceable / removeable screen mechanism. The arrangement shall be designed in such a way that the worn-out damage shielding screen can easily be removed or replaced without dismantling the major components of the blasting machine. Dimensions are given below: -

Length 11 inch

Width 19 inch

Contractor shall design and fabricate a suitable removeable / replaceable arrangement for shielding screen. Ensure that the arrangement maintain the security during blasting operations. Provide proper sealing and fixing around the screen to minimize the escape of blasting media.

4 Install rubber mat inside the machine cabinet

5 Replacement of filter cartridges.

6. 06-month warranty of repair work is required.

S No 37 Specifications of Vertical Grinder54"

SCOPE OF WORK

Preamble:
At present CNC Vertical Grinder is Equipped with SYNEN CNC System. Z-Axis of the Machine is not working due to its U/S Linear Encoder (A feedback device to computer HMI). That Linear Encoder is Obsolete and Not available in market. In order to fully Operate the Machine, Following is the scope of work for retrofitting of CNC Vertical Grinder at Machine Shop, R&F Wing:

a) Machine needs to be retrofit with accuracy of 0.002 mm.
b) New updated CNC system with new closed loop compatible feedback devices needs to be installed replacing old obsolete system.
c) Replace Linear encoders with upgraded version.
d) Software/Firmware backup is required.
e) Spares support availability up to 05 years is required.
f) Any other discrepancies besides listed above hindering full machine serviceability are also to be resolved and complete machine serviceability to be ensured on turn key basis.
g) One year warranty of full machine serviceability to be provided after machine recovery.
h) Detail Maintenance Manual with Troubleshooting catalog showing error codes along with remedial action is mandatory required in 02 copies.
i) Manual Set of Complete Wiring Diagram of Electrical Panel is required in 02 copies.
j) Set of Operations and Program Manual required in 02 copies.
k) Software backup is required in USB + CD writeable program in 02 copies.
l) One week Operational & Maintenance Training is required.

S No 38 Specifications of LUCAS.HRZ.BORING MA

SCOPE OF WORK

(a) Machine accuracy (0.001 inch) to be achieved.
(b) Hydraulic system of rotary table is to be rectified (i.e Oil leakage and noisy sound).
(c) Rotary table tilting function/Mechanism is to be rectified.
(d) Cable of Hand-held unit is required to be replaced.
(e) CNC Controller program parameter (Input/Output) to be geometrically calibrated and password reset is required. In case of software replacement. Software should be OEM Certified and compatible with machine Moreover backup of software should be provided in USB and CD Writeable program.
(f) One week operational & maintenance training is required.
(g) Review of machine for any other unserviceability and Complete machine repair on turnkey basis is required.
(h) One-year complete machine warranty, after serviceability of machine.

S No 39 Specifications of Vertical Lathe Machine

SCOPE OF WORK

Following is the Scope of work for Retrofitting of CNC Toshulin Vertical Lathe Machine at Machine Shop, R&F Wing:

a) Replacement / Installation of Simo Drive Siemens 611 or equivalent and system integration with the machine.
b) Replacement of OEM certified CNC Controller for Retrofitting.
c) Replacement of CPU / PCU of the machine for all error removals including emergency Error.3000.
d) Operational sequence of the machine to be rectified and required system modification to be perform if required.
e) New Hand-held unit is required with the same functions of OEM provided hand held unit and should be compatible with the machine.
f) 200KVA AVR to be integrated with the machine in order to avoid the frequent power fluctuations including power cable from Machine main supply to AVR and out till the Machine electrical panel.
g) Backup of software and all related necessary programs in USB and CD writeable needs to be provided with passwords.
h) Set of operation, maintenance manuals with troubleshooting guide and drawings is required in 02 copies.
i) Maintenance and operational training for 04 weeks.
j) Serviceability of Complete Machine including.
   - Machine Geometry
   - Replacement of ON/OFF Switch
   - I/O Modules for the PLC
   - Hydraulic Modules
   - Electrical Relays
   - Electrical Connectors
   - Switches
   - Power Supplies
   - VFDs
   - Rewiring
   - Safety Devices
k) One-year warranty of full machine serviceability to be provided after machine recovery

S No 40 Specifications of Camera Type Furnace
W=1200XL=1200XH=1200

SCOPE OF WORK	
1.	Furnace shall be capable of achieving and maintain temperature of 1200 °C with uniformity with in ±5 °C along with installation of PLC Logic, HMI Screen.
2.	Backup and handover of all control software, verification files and passwords required in USB or CD write.
3.	Detail wiring diagrams of all controls (main panel, zone control panels auxiliary systems qty 02 copies).
4.	Process record system of heating process recorder (Digital Chart Recorder) with integrated color printer (MFP 4303 FDW) along with system to log and print process data including temperature vs time for all zones.
5.	Conduct temperature uniformity survey after completion of all rectifications works, ensuring compliance with uniformity criteria.
6.	Minimum one (01) year comprehensive warranty covering all replaced parts, control components.
7.	Complete serviceability and operational readiness of furnace to be ensured on turnkey basis, including all control system, heating elements, sensors, and safety interlocks.
8.	All unserviceable / damage / missing parts during retrofitting / repair will be replaced with new one by supplier.

S No 41 Specifications of Vacume Furnace

PE OF WORK: PERFORMA

SCOPE OF WORK
1. Furnace shall be capable of achieving and maintain temperature of 1200 °C with uniformity with in ±10 °C along with installation of PLC Logic, HMI Screen.
2. All unserviceable / damage / missing parts during retrofitting/ repair will be replaced with new one by supplier.
3. Power controller qty 03 u/s of vacuum furnace replaced with new one and same needs to be integrated with system.
4. Replacement of Qty 03 "S" type thermocouple with new one.
5. Festo valve Qty 01 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 along with latest Computer (HP All in one DT AI 24-cr 2030d Ultra 7) Processor: Intel core ultra 7 2550 up to 5.20 GHz MAX Turbo (12 Cores). Memory (16 GB DDR-5 5600MHz). Storage (512 GB PC/eNVMe M.2SSD.Softwares, PLC HMI SCADA 165 Ethernet communication interface.
8. Printer (MFP 4303 FDW), UPS (APC Back-UPS CS 350 with 08 hrs. fully discharge time) with battery backup needed to replace with new one.
9. Backup of software, drivers and all necessary programs to be provided in USB and CD.
10. All pneumatic valve controller, pneumatic pipes and water channel replaced with new one.
11. Conduct temperature uniformity survey at 1200 °C with in ±10 °C after completion of all rectification
12. Warranty at least one year
13. Complete serviceability of furnace to be done on turn key basis.
14. Detail wiring diagrams of all controls (main panel, zone control panels auxiliary systems qty 02 copies).

S No 42 Specifications of Welding Machine

S.NO	SPECIFICATION OF WELDING MACHINE (TIG WELDING)	
	Origin	USA / European
1	Type of Machine	GTAW & SMAW Welder
	Company Name	Miller or Equivalent
2	Maker's Number	SYNCROWAVE 400 LX or Equivalent
3	Power Supply	
	Current Range	0~400 Amperes
	Current Type	AC/DC/ Pulse
	Voltage Supply	440 VOLTS
4	Cooling system	Water Circulation system for cooling
5	Voltage Control	Automatic
6	Accessories	Complete Torch Assembly Set (WP 20) Qty 02
		Foot control pedal Qty 02
7	Publications	Operation Manual Qty 02
		Maintenance manual Qty 02
		Equipment Manual Qty 02
		Machine parameter sheet Qty 02
		Part assembling drawing including electrical diagram
		Machine Installation and Foundation drawings (Provide 1-3 month after signing of contract)
8	Spare Support	Certificate for availability of spares at least 10 years
9	Tool Kit	Standard tool kit cabinet comprising all tools need for Machine Maintenance / service.
10	Spare Parts	All systematic spares for inspection and maintenance for 05 year to be provided
11	Machining Accuracy	To be verified as per accuracy /inspection after installation by QE
	Warranty	Provide 2 years warranty after commissioning of machine at MRF
	Performance Bond	To fill Bond certificate of 10% of machine cost warranty period.
12	Installation and Commissioning	Electrical work associated with installation be carried out by Supplier. Detail to be mentioned in proposal.

13	Testing	(i) Machine will be tested thoroughly by the MRF technicians and by manufacturing a part. (ii) Welded part will be checked for dimensional accuracy in the quality section. (iii) Machine acceptance will be given after the part accuracy test completion.
14	Material to be Welded	Cobalt base alloy, Nickel base alloy, Stain less Steel, Titanium, Aluminum & Magnesium
15	OJT after installation	2 weeks Operational and maintenance training after installation & commissioning "at PAC premises"

S No 43 Specifications of Auto Fire System

SCOPE OF WORK: PERFORMA

S NO	PART NO	NOUN	U/I	QTY TO BE REPAIRED	SCOPE OF WORK
1	FCC3000	AUTO FIRE CONTROL SYSTEM	EA	01	1. Auto fire electrical control panel boards Qty 02 are required to be repair / replaced. 2. 10 Yearly Inspection required to be carried out by OEM or their authorized representative. as Per inspection criteria attached with.

S No 78 Specifications of LED UV-A Lamp (EV6000)

MAGNAFLUX

Product Data Sheet

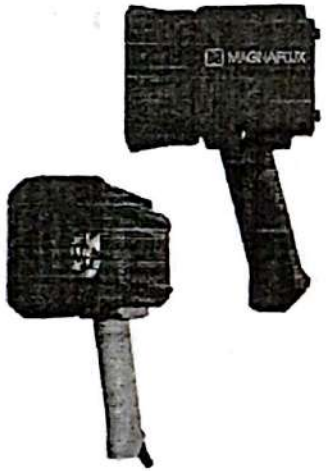
EV6500

Hand-Held Dual-Light LED UV Lamp

The EV6500 is a hand-held, portable LED UV lamp with built-in white light LEDs for non-destructive testing applications like fluorescent penetrant testing and fluorescent magnetic particle inspections.

Designed with broad-beam profile for in-line and hand-held use, the EV6500 will decrease inspection time by improving indication visibility with 7,000 µW/cm² high intensity UV-A illumination and the widest coverage area in its class.

To improve NDT inspection flexibility, the EV6500 has step-on white light LEDs for visible flaw location, eliminating the need for a separate flashlight. The white light LEDs provide a large, concentrated flood of visible light of over 150 footcandles.



Handles manufactured with glass beads before July 2022 and black handles after July 2022.

BENEFITS

Minimizes time to inspect parts with wide, intense UV beam

- Speeds up inspection time with the widest, most even beam on the market
- Indications are clearly visible even at the edge of the 10 inch / 25 cm beam, thanks to the high intensity LEDs

Improves visibility & versatility with built-in white light LEDs

- Eliminates the need for a separate flashlight for visible spot checking with built-in 150 fc white light LEDs
- Easy to clean without breaking in the field or requiring tools with overhead light with the 16 inch / 41 cm beam of bright white light

Increases real-world reliability with NDT-focused engineering and dependable construction

- Reduces on-the-job downtime with dependable, reinforced construction
- Fully sealed housing will stand up to the elements, along with a tethered, coiled power cord and cord retaining feature for rough use and extended life
- Fully sealed IP65 switches and connectors for the elements

S No 90 Dry Grit Blasting Machine

DRY GRIT BLASTING MAHINE

Origin	American /European /Japanese
Type of machine	Suction type
Dimension of machine (BXLXH)	(2438.4-3048) mm x (2438.4-3048) mm x (2133.6-2286) mm
Dimension of working cabinet (BXLXH)	(1800-2000) mm x (1800-1900) mm x (1800-1900) mm
Weight of cabinet	850-1450 Kg
Optimal working pressure	4 - 7 Bar
Select pressure source OEM Specified and user requirements (4-7) Bar	
Type of Abrasive used	Corundum 50,160,180 & 300 Glass Beed 100 & 160 Aluminum Oxide 120 & 150 Plastic Media
Turn/Rotary table with Dolly	1300 1400 mm
Electric supply volt Phase	440V 4/60/3
Exhaust Fan motor	05 10 HP
Re-circuiner ventilation rate	1150 1250 l/l/min
Pressure suction piping dia	12.5 mm
Tungsten bide nozzle Dia	12 mm
Air jet	6 mm
Standard No. of door	02
Door opening dimension	1500 x 1650 mm
Standard features	a) Rubber cloth – lined gloves b) Ergonomics glove ring with operator armrest c) Dust-tight gun d) Pneumatic foot-treadle control e) 350 mm x 550 mm safety glass window f) Height of device 1810 mm
Cyclone abradant separator DS600L for injection (suction system)	As per OEM specification and fulfilling user requirements as per ASO-9001
De-dusting unit	Standard
Damping set	As per OEM specification and fulfilling user requirements as per ASO-9001
	Standard
PUBLICATIONS	
Operations manual	Qty 02 sets
Maintenance Manual	Qty 02 Sets
Parts Break down	Parts assembling drawing including spindle, electric, pneumatic & hydraulic diagram Qty 02
Drawings	Machine installation and foundation drawings
Installation and commissioning	Electric, pneumatic & foundation work associated with installation be carried out by supplier as per ASO 9001 standard
Operation installation	Operational and maintenance training after installation & commissioning (01 week)
Machine accuracy	To be verified as per accuracy / inception after installation by user
Warranty	Provide 02 years warranty after commissioning of machine at MRF
Performance Bond	To lb Bond certificate of 10 % of machine cost warranty period
Spare support	Certificate for availability of spares at least 10 years
Tool kit	Standard tool kit Snap-on or equivalent comprising all tools required for Machine Maintenance / Periodic inspection
Spare parts	All systematic spares for inspection and maintenance for 05 years provided a) Carbide Nozzle in Qty 24 b) Flexible Hose in different sizes as being used on machine in Qty 02 each c) Bearing & seals Qty 05 each d) Belt Qty 05 e) Various screws & bolts in Qty 50 each f) Exhaust duct in Qty 01 g) Impeller in Qty 01 h) Cast body in Qty 12 i) Air Jet in Qty 12 k) Cyclone abradant separator DS600L Qty 01 l) Filter bags/cartage assembly Qty 01

S No 03 Specifications of Gaske

F-100 MODULES CONTAINER MEASUREMENT FOR SEAL

Container	Length	Width
Inlet Fan Module	56" Inches	56" Inches
Core Module	99" Inches	62" Inches
Gear Box	38" Inches	36" Inches

S No 85Specifications of Electric platform truck

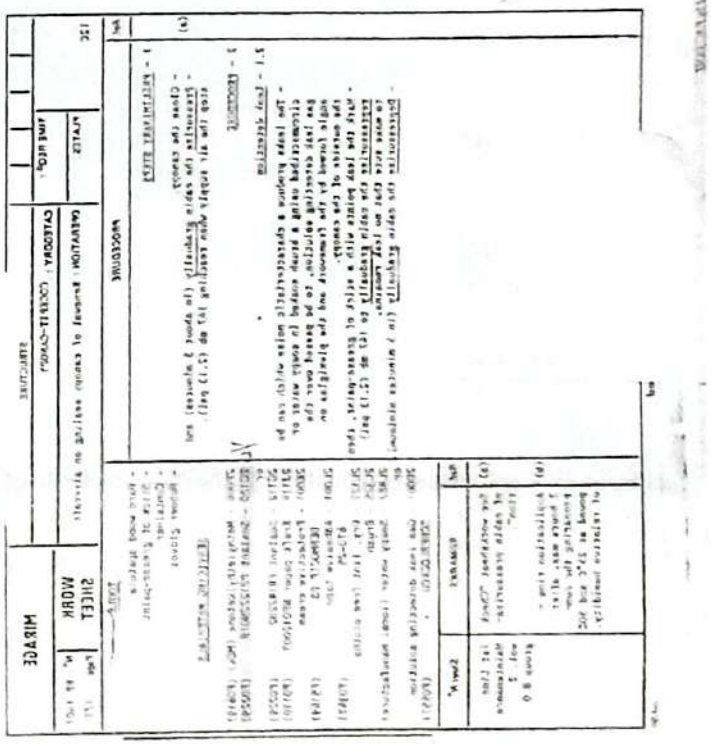


S No 88 Specifications of Vapour Blasting Liquid Honing Machine
Model 4836 Along With Accy & Auto Filter

SCOPE OF WORK

1. Machine cabin need to be replaced
2. Machine door need to be replaced
3. Repair of Exhaust motor
4. Media hopper need to be replaced
5. Perforated table need to be replaced
6. Air pressure and water pipe need to be replaced
7. New lights for cabin illumination
8. Filter and filter cabin need to be replaced
9. 01-year warranty is required

S No 81 Specifications of Sealent Machine



S No 76 Specifications of Repair of Met Lab Equipments

SCOPE OF WORK FOR "METALLURGICAL LAB EQUIPMENT'S"

S.No	Part No	Noun	Remarks
1	42-1512	Polishing table & Allied equipment's	Polishing Wheel & Motor malfunctioning.
2	46-1511	Polishing table & Allied equipment's	
3	BT718649	Microscope & Accessories	Illumination & magnification issues.
4	10-1050-260	Abrasive Cutter & Allied equipment's	Cutting Motor and shaft malfunctioning.
5	PR-22830-800	Mounting Press & Accessories	Molding shaft and cooling system not working.
6	DMH2	Micro Hardness Tester & Accessories	Turret and mechanical Load system issues.

S No 77 Specifications of Ammeter Shunt Kit

MAGNAFLUX

Product Data Sheet

Digital Amperage Meter

Digital Ammeter Calibration



The Digital Ammeter and Shunt Test Kit is a calibrated reference meter for the verification of magnetic particle equipment performance. The kit includes a calibrated digital ammeter that captures the ½-second mag shot and provides AC RMS or DC Peak amperage readings.

The TRUE RMS ammeter is UKAS calibrated with (0.09%) basic accuracy, a digital display with analogue bar graph and backlight. Capable of measuring AC, HWDC and FWDC waveforms up to 10,000 amps.

The kit includes a calibrated reference shunt with leads to connect to the ammeter.

PROPERTIES

Modes	AC / HWDC / FWDC
Display	4 digit LCD
Range	AC: 0-6,000 A RMS DC: 0-10,000 A Peak
Accuracy	AC: +/- 1% DC: +/- 0.09%
Shunt	800 A / 75mV
Power	9V PP3 Battery

SPECIFICATION COMPLIANCE

- ASTM E709
- ASTM E1444
- ASTM E3024
- ASME BPVC Section V Article 7
- ISO 9934

PART NUMBER

622350

OEM/ MAKE: Magnaflux
Name. Digital Ammeter Shunt Test Kit
Part No :622350
Mode of Operation: A/C, HWDC, FWDC
Range: A/C 0 – 6000A, DC 0 – 10000A
Accuracy: A/C +/- 3% or 30A DC +/- 2 or 20A
Shunt :75mv / 1000A
Shunt Cable: 5 ft /1.5 meter
Power: 4 x AAA 1.5 V Battery
Calibration Certificate: 1 year, ISO 17025 NIST.
Warranty: 01 year

Not applicable

~~YES~~ /NO

mand the word "Not Applicable" is to be endorsed

DCE / L