

PAKISTAN AERONAUTICAL COMPLEX, KAMRA MIRAGE REBUILD FACTORY TENDER NOTICE NO MRF/20-21/14 DATED 14 Nov, 2020.

1. Mirage Rebuild Factory, Pakistan Aeronautical Complex Board Kamra invites sealed bids from the Original manufacturer / authorized distributors / suppliers / contractor registered with Income Tax and Sales Tax Department and PACB registered for supply of following miscellaneous items on F.O.R Basis (Professional Tax certificate, Punjab is mandatory). Details of requirements is as follows:-

“VEST FULL SLEEVES SAGE GREEN (S), VEST FULL SLEEVES SAGE GREEN (M), VEST FULL SLEEVES SAGE GREEN (L), VEST FULL SLEEVES SAGE GREEN (XL), REFRIGERATING COMPRESSOR 45 TON, BANC, HIGH BACK SEAT CREEPER, PNEUMATIC GRINDER (25000 RPM), SIGNAL CONDITIONERS, DIGITAL READOUT WITH ACCESSORIES, TECHOMETER, CPU8 BOARD WITH RAM, SATA DISK DRIVE FOR CPU CARD CALL SERVER(CPU8/CS-3), CLIP ON Z INTERFACE LICENCE-1 USER, MULTIMETER, HORIZONTAL CUT-OFF SAW, VALVE CORE ASSY, WATER COOLED ELECTRIC CABLE AND PLASMA HOSE SET, REGULATOR HYDROGEN, DIAMOND JET OXYREGU, TENSIO METER, (UNDER VEHICLE SURVEILLANCE SYSTEM)WITH LCD MONITOR AND ONE CAMERA WITH FISH EYE LENS(WITH OUT RAMP), MILLING CUTTER 16MM, ELECTRIC PLATFORM TRUCK, FLOW TURBINE”

2. 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 16-11-2020 during working hours (except holidays).

3. The quotations, prepared in accordance with the instruction in the Tender List, must reach at Mirage Rebuild Factory PACB Kamra **before 01-12-2020 at 1000 Hrs. Quotations will be opened on the same day at 1100 Hrs.** The advertisement is also available on PPRA website at www.ppra.org.pk and as well as PACB website www.pac.org.pk

DUE DATE : 01-12-2020 before 1000 Hrs.
TENDER OPENING TIME : 01-12-2020 at 1100 Hrs.

Please contact **Tele # 051-9099-4727 or Fax No 057-9317412** for any other information.

**DIRECTOR LOGISTICS
MRF PACB KAMRA
DISTT ATTOCK**

Directorate of Logistics MRF, PAC Kamra



**LISTOFOPEN TENDERNO MRF/20-21/14
DATED 14-11-2020 OPENING DATE 01-12-2020**

S NO	PART NO	NOUN	U/I	Qty	SPECIFICATION
1	22B/8420PK000007	VEST FULL SLEEVES SAGE GREEN (S)	EA		AS PER SAMPLE PLACED IN LP STORE
2	22B/8420PK000006	VEST FULL SLEEVES SAGE GREEN (M)	EA		AS PER SAMPLE PLACED IN LP STORE
3	22B/8420PK000004	VEST FULL SLEEVES SAGE GREEN (L)	EA		AS PER SAMPLE PLACED IN LP STORE
4	72/8420PK000017	VEST FULL SLEEVES SAGE GREEN (XL)	EA		AS PER SAMPLE PLACED IN LP STORE
5	6000S8	REFRIGERATING COMPRESSOR 45 TON	EA		<p>SCOPE OF WORK REPAIR OF REFRIGERANT COMPRESSOR 45 TON. SUSPECTED UNSERVICEABILITY OF WINDING.</p> <p>1. REPAIR OF REFRIGERATING COMPRESSOR 45 TON IS REQUIRED AS PER BELOW MENTIONED SPECIFICATIONS:</p> <ul style="list-style-type: none"> • VOLTAGE = 380-400 V • FREQUENCY = 50Hz • HORSE POWER RATING = 60HP • CAPACITY = 45 TON <p>2. FOLLOWING SERVICES TO BE PROVIDED BY CONTRACTOR.</p> <ul style="list-style-type: none"> • FLASHIG + DRIER CORE • GAS CHARGING <p>3. COMPLETE SERVICEABILITY OF CHILLING PLANT WITH REPAIRED REFRIGERATING COMPRESSOR OF 45TON CAPA CITY</p> <p>4. WARRANTY 01 YEAR</p>
6	851-750-487-0	BANC	EA		<p>SCOPE OF WORK (a) CONTROL CARD UNSERVICEABLE. (b) COMPLETE SERVICEABILITY OF TESTER IS REQUIRED AS PER OEM STANDARD, ALONG WITH COMPONENT TESTING. (c) minimum 01 year warranty is required.</p>

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S NO	PART NO	NOUN	U/I	Qty	SPECIFICATION
7	JCHP30A	HIGH BACK SEAT CREEPER	EA		HIGH BACK SEAT CREEPER
8	LSF28-S250E-1	PNEUMATIC GRINDER (25000 RPM)	EA		PNEUMATIC GRINDER (25000 RPM)
9	92-244	SIGNAL CONDITIONERS	EA		INPUT VOLTAGE: 05-28 VDC FREQUENCY: 0 TO 10 KHZ RESPONSE TIME FULL SCALE CHANGE TO 95% OF FINAL VALVE 180 M SEC
10	DP7	DIGITAL READOUT WITH ACCESSORIES	EA		SCALES: (a) x=1500 mm, y= 700 mm, z= 550 mm (b) x=1524 mm, y= 1219 mm, z=1219 mm (c) x=460 mm, y= 260 mm (d) x=660 mm, y= 500 mm
11	68901-900-3	TECHOMETER	EA		SCOPE OF WORK RPM FLUCTUATE
12	3BA23258AB	CPU8 BOARD WITH RAM	EA		(A) INTEL ATOM C2338 SOC PROCESSOR (b) 1GB DDR3 RAM (C) TWO 10/100BT ETHERNET INTERFACES INSTALLATION AND COMMISSIONING WILL BE FREE OF COST
13	3BA27013AD	SATA DISK DRIVE FOR CPU CARD CALL SERVER(CPU8/CS-3)	EA		128GB / 256GB SSD INSTALLATION AND COMMISSIONING WILL BE FREE OF COST
14	3BA09092JC	CLIP ON Z INTERFACE LICENCE-1 USER	EA		CLIP ON Z INTERFACE LICENCE-1 USER INSTALLATION AND COMMISSIONING WILL BE FREE OF COST
15	R-10	MULTIMETER	EA		SPECIFICATIONS ARE ATTACHED AT THE END, PLEASE
16		HORIZONTAL CUT-OFF SAW			SPECIFICATIONS ARE ATTACHED AT THE END, PLEASE
17	9MP56415	VALVE CORE ASSY	EA		USED ON 9MP DJ MODEL POWER FEED UNIT USA/ UK OR equivalent
18	7MH-125	WATER COOLED ELECTRIC CABLE AND PLASMA HOSE SET	EA		USED WITH 7MCII CONTROL UNIT AND 9MB PLASMA SPRAY GUN. IT CONTAINS 01 PLASMA GAS HOSE AND 02 WATER COOLED ELECTRIC CABLE. USA/ UK OR equivalent

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S NO	PART NO	NOUN	U/I	Qty	SPECIFICATION
19	7GH1001448	REGULATOR HYDROGEN	EA		DOUBLE STAGE REGULATOR INLET PRESSURE: 4000 psi OUTLET PRESSURE: 400 psi USA/ UK OR equivalent
20	2DJRO1031550	DIAMOND JET OXYREGU	EA		DOUBLE STAGE REGULATOR INLET PRESSURE: 4000 psi OUTLET PRESSURE: 400 psi USA/ UK OR equivalent
21	T60-100KS-10	TENSIO METER	EA		DIGITAL SCALE RANGE 500 LB CABLE THICKNESS 3/32, 1/8, 5/32, 3/16, ¼ INCHES
22	UVSS	(UNDER VEHICLE SURVEILLANCE SYSTEM)WITH LCD MONITOR AND ONE CAMERA WITH FISH EYE LENS(WITH OUT RAMP)	EA		SPECIFICATIONS ARE ATTACHED AT THE END, PLEASE NOTE: QUOTATION MUST BE PUT WITH ALL SPECIFICATIONS MENTIONED BY MRF.
23	851-905-007-0	MILLING CUTTER 16MM	EA		MILLING CUTTER DIA 16MM (REVERSE) MATERIAL VANADIUM
24	21F/8030PK8D30	ELECTRIC PLATFORM TRUCK	EA		REPAIR SCOPE OF WORK 1. TYRES QTY 04 EA SIZE 175 R14 REQUIRED TO BE REPLACED. 2. BATTERIES QTY 06 EA 12V SIZE 180 AMP LEAD ACID TYPE NEEDS TO BE REPLACED. 3. HAND BREAK REPAIRING REQUIRED. 4. SEATS REQUIRED TO BE REPAIRED.
25	AN10	FLOW TURBINE	EA		Rnage: 250-3400 L/H Fluid: JP-8 or Kerosene Turbine will be accepted after functional test at MFCU testing and provide all requisite documents.



SPECIFICATION S NO 15

Item	Specifications
Auto power-off	The instrument turns off automatically, after a beep sound, if there is no user interaction for about 10 minutes (except when a measurement is in progress).
LCD backlight, LED light	Turns off automatically if there is no user interaction for about 2 minutes (except when a measurement is in progress).
Dimensions	97 (L) x 156 (W) x 46 (H) mm
Weight	Approx. 490 g (including batteries)
Power source	Four AA batteries (AA alkaline batteries recommended)

Operating Environment and Conditions


This instrument complies with the EMC standard under specific operating environment and operating conditions. If the installation, wiring, and so on are not appropriate, the compliance conditions of the EMC standard may not be met. In such cases, the user will be required to take appropriate measures.

Operating Uncertainty

Operating uncertainty (B) is an error obtained under the nominal operating conditions and calculated with the intrinsic error (A), which is an error of the instrument used, and the error (En) due to variations. According to the IEC61557 and JIS C 1302, the maximum operating error should be within ±30 %. Intrinsic error (A) is uncertainty of the performance characteristics under the reference condition.

Insulation resistance measurement operating un
(IEC61557-2 and JIS C 1302)

$$\text{Formula: } B = \pm(|A| + 1.15 \times \sqrt{E1^2 + E2^2 + E3^2})$$

A	Intrinsic error
E1	Influence of position
E2	Influence of supply voltage (until the battery indicator reaches )
E3	Influence of temperature (IEC61557-2: 0°C to 35°C, JIS C1302: 0°C to

The specifications of this instrument are as follow
Intrinsic error (A) within ±5 % of indicated va
(coverage factor; k=2)

Influence of supply voltage (E2) within ±5 % of in
value


Influence of temperature (E3) within ±5 % of in
value

Max. operating uncertainty (B) 14%

* The measuring range to keep the maximum ope
uncertainty is the same as the 1st effective meas
range.

Low-resistance measurement operating uncertai
(IEC61557-4)

$$\text{Formula: } B = \pm(|A| + 1.15 \times \sqrt{E1^2 + E2^2 + E3^2})$$

A	Intrinsic error
E1	Influence of position
E2	Influence of supply voltage (until the battery indicator reaches )
E3	Influence of temperature (0°C to 35°C)

* The measuring range to keep the maximum ope
uncertainty (within ±30%) is 0.2 to 4000 Ω.



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SPECIFICATION S NO 16

S/NO	SPECIFICATION OF HORIZONTAL CUTT OFF SAW MACHINE	
1	Cutting Capacity	90°,45° & 60°
	Circular	Dia 5-200 mm (Minimum)
	Square	5-200 mm (Minimum)
2	Cutting Speed	20~100 m/min
3	Main Drive Motor	05 ~ 1.5 kw
4	Hydraulic Motor	0.75 kw
5	Coolant Pump	0.12 ~ 0.75 kw
6	Blade	Carbide Teeth / HSS Teeth
7	Publications (English)	Operation Manual
		Maintenance manual
		Machine Installation and Foundation drawings (Provide 3-6 week after signing of contract)
8	Spare Support	Certificate for availability of spares at least 05 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	Spare Support	Certificate for availability of spares at least 10 years
12	Training	FOC operational and maintenance training at MRF (01 week)
13	Spare Parts	All systematic spares for inspection and maintenance for 05 year to be provided
	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
14	Installation and Commissioning	Free of cost installation and commissioning at MRF



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SPECIFICATION S NO 22

TECHNICAL SPECIFICATIONS OF UNDER VEHICLE SURVEILLANCE SYSTEM PART No UVSS

Description	MRF REQUIREMENTS	MANDATORY
	Max Resolution : 1920x1080	Yes
	Main Stream : 50 Hz @ 50 fps, 60 Hz @ 60 fps	Yes
	Digital noise Reduction: 3D DNR	Yes
	WDR : 120db	Yes
	Focus : Auto	Yes
	Auto-iris : DC Drive	Yes
	Recognition : License Plate Recognition	Yes
	Smart function : vehicle type classification, Color identification, no plate vehicle capture,	Yes
	No license plate detection : Supported	Yes
	Protection Level : IP 67 IK10	Yes
	Day/ Night switch : Auto/scheduled/ Triggered by alarm in	Yes
	SVC : H.264 and H.265 encoding	Yes
	Temperature -30 °c to +70 °c	Yes
	Humidity : 95 % or less (non Condensing)	Yes
	API : ONVIF	Yes
NVR	NVR 8 channel with 2 TB HDD	Yes
UVSS Housing	UVSS Housing with internal sensors for light with installation, water proof	Yes
UVSS Camera	4 MP UVSS	Yes
Display	Display Branded 15" Qty 01	Yes
Network Switch	08 ports POE Network Switch with 2 SFPs	Yes
Warranty	3 years with parts replacement or more	Yes
Spares supportability	06 years after installation and commissioning date.	Yes
Local supplier	Should be available as required for any fault.	Yes



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TERMS & CONDITIONS:-

- (i) GST may be indicated separately. The envelopes must be marked with "Item's name and Commercial / Technical offer". Literature / brochures of equipment must be attached with technical offer and company stamped.
- (ii) **Quotations must be submitted in two copies for single line item i.e. one copy with technical details without price and one copy as commercial offer in one envelopes.**
- (iii) Validity period should not be less than 90-120 days.
- (iv) Complete technical specifications, MSDS, OEM & Conformance Certificate, Calibration certificate, Fitness report where applicable are required. Sample of chemicals may be asked for test.
- (v) 05% earnest money required in shape of CDR/BG.
- (vi) Quotation received after due date / time will not be entertained. The CFA reserves the right to accept / reject the part or whole tender.
- (vii) Professional Tax certificate, Punjab
- (viii) Quantity can be increased / decreased at the time of order as per our requirement.
- (IX) All quoted items / Tools must be Original / Branded and accompanied with OEM conformance and originality certificate.



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