

Ministry of Defence

Project Title: Maintenance, Inspection, Supply and Delivery of Fire Extinguishers for the Royal Brunei Armed Forces
– Five (5) Years Contract

Ref: MINDEF/DFA/RC/02(11)

SECTION 2 SPECIFICATIONS

SCHEDULE A

SCOPE OF SERVICES

The Contractor Shall:

1. Inform the Head of Department

Inform the Head of Department of the relevant RBAF Building concerned before any maintenance work is carried out. All paperwork shall be signed by the concerned Department representative for confirmation.

2. Maintenance

- a. Carry out detailed maintenance work to ensure that all the Fire Extinguisher equipment is in good working order so as to safeguard property and the safety of the public at the site.
- b. Take notice that every work carried out on Fire Extinguisher installed in a restricted area will require the assistance of the security guard or maintenance officer of the respective site.

3. Service Report

Ensure that all 'Serviceable Reports' are clear and concise, indicating the type/model and brand of equipment concerned and are duly certified by RBAF Fire Services.

4. Replaced Parts/Equipment

Ensure that all replaced parts or equipment is verified by the RBAF Fire Services before being returned to the respective RBAF Building, properly documented and acknowledged by both parties.

5. Contact Numbers

Provide to all parties concerned the contact numbers by all means such as telephone, mobiles, etc of their maintenance personnel.

SCHEDULE B
MAINTENANCE SERVICES

1. FIRE EXTINGUISHERS

Perform the following services as requested:-

- a. Supply and install fire extinguishers as and when instructed by the Fire Services Department.
- b. Have an adequate supply of fire extinguishers locally and be able to provide the supply of the fire extinguishers when instructed by the RBAF Fire Services within 48 hours or if the fire extinguishers are out of stock or not available locally, within two (2) weeks from the date of receipt of instruction by the RBAF Fire Services.
- c. Have the spare parts required for the various types of fire extinguisher equipment installed in the RBAF Buildings listed in Schedule C.
- d. Register all new and replacement fire extinguishers supplied to the RBAF Fire Services.
- e. Ensure that all fire extinguishing equipment supplied to the RBAF Fire Services is in accordance with the standards approved by the Fire and Rescue Service, Ministry Of Home Affairs. (Supplier to provide Certification from Fire Rescue Service, Ministry Of Home Affairs).
- f. Carry out refill of gases, parts replacement and any remedial work (e.g. cylinder painting, hydrostatic test). This shall be carried out off site.
- g. Inspection and servicing: Ensure that

- (1) The inspection and servicing of fire extinguishers is to the standards **BS5306 – Fire Extinguisher Installations, Part 3 – Fire Extinguisher Installation and Equipment on Premises. Commissioning and Maintenance of Portable Fire Extinguishers. Code of Practice.** And NFPA 10 – Standard for Portable Fire Extinguishers.
- (2) Inspection. The fire extinguishing equipment that requires inspection shall be requested as per request basis. The work shall be carried out at the Contractor's Premise. The inspection shall include visual and physical checks of the condition of the fire extinguisher for corrosion, damage, leaks, clogged nozzle, tampered safety pins and seals etc. The inspection shall include:
 - (a) Examine the pressure gauge reads normally (with needle pointing in the green area).
 - (b) Visual inspection for corrosion and damage.
 - (c) Inspect safety pin and tamper seal are in place.
 - (d) Examine the 'instruction' label to ensure that the instructions given are legible.
 - (e) Ensure that all fire extinguishers are label with stickers to depict the date of servicing in compliance with the Fire Services Department.
- (3) Servicing. The servicing of the fire extinguishers that requires inspection shall be requested as per request basis. This shall include the maintenance, service charge for the re-charging of the fire extinguishers and leak test after each re-charging.
 - (a) Examine and clean vent holes caps, nozzle, trigger valves, horn hose etc. This is to make sure that they are not clogged with dirt, grease etc.
 - (b) Clean the sealing disc and ensure that is in good condition and capable of forming a gas tight joint. Replace any items required, such as 'O' ring etc.
 - (c) Examine safety clips, hose clips and chains (if applicable). Adjust if necessary.
 - (d) Remove discharge hose and check for blockages.
 - (e) Re-charge fire extinguisher.
 - (f) Test and adjust valves. Check for leaks.
 - (g) Wipe and clean the fire extinguisher.
 - (h) All fire extinguishers shall have sticker indicating the date of inspection and date of expiry.
- (4) Fire extinguishers exceeding five (5) years of usage/storage shall be subjected to hydrostatic testing as required.
- (5) Hydrostatic testing is performed by trained person(s), having the appropriate service manuals, proper tools, proper equipment and manufacturer's recommended replacement parts. After each successful hydrostatic testing, each fire extinguishers cylinder is stamped indicating the date of the hydrostatic test, the person and company performing the test.

**SCHEDULE C:
SCHEDULE OF PRICES**

NO	DESCRIPTION	QTY /YEAR
01	*FIRE EXTINGUISHERS (BOMBA APPROVED BRAND) SUPPLY AND INSTALL.	
	a) <u>DRY CHEMICAL POWDER –</u>	
	1) 1 KG – 2 KG – EVERSAFE 1KG ABC POWDER C/W STD ACC <u>EC-1</u>	44
	2) 2 KG – 3 KG – EVERSAFE 2KG ABC POWDER C/W STD ACC <u>EC-2</u>	10
	3) 4 KG - 4.5 KG – EVERSAFE 4KG ABC POWDER C/W STD ACC <u>EC-4</u>	300
	4) 6 KG – 7 KG – EVERSAFE 6KG ABC POWDER C/W STD ACC <u>EC-6</u>	5
	5) 8 KG – 9 KG – EVERSAFE 9KG ABC POWDER C/W STD ACC <u>EC-9</u>	10
	6) 10 KG - 12 KG- EVERSAFE 12KG ABC POWDER C/W STD ACC <u>EED -12</u>	2
	7) 50 KG – EVERSAFE 50KG ABC POWDER MOBILE FIRE EXTINGUISHER C/W STD ACC <u>MPM-50</u>	10
	B) <u>CARBON DIOXIDE (CO2)</u>	
	1) 2 KG - 2.3 KG – EVERSAFE 2KG CO2 C/W STD ACC <u>ECO-5</u>	10
	2) 4 KG - 4.5 KG – EVERSAFE 5KG CO2 C/W STD ACC <u>ECO-11 HH</u>	4
	3) 5 KG – 6 KG – EVERSAFE 5KG CO2 C/W STD ACC <u>ECO-11 HH</u>	4
	4) 9 KG – 10 KG – EVERSAFE 10KG CO2 SPT TROLLEY C/W STD ACC <u>MCO-10</u>	3
	5) 30 KG – 1 UNIT MCO-10 1 UNIT – EVERSAFE 20KG CO2 SPT TROLLEY C/W STD ACC <u>MCO-20</u>	5

	6) 45 KG – 2 UNIT – MCO-20 1 UNIT – ECO – 11 HH	5
	7) 50 KG - 2 UNIT – MCO-20 1 UNIT – ECO – 11 HH	5
	C) <u>FOAM</u> 1) 9 LITRES WITH 55GMS CO2 CARTRIDGE	40
	D) <u>INDOOR FIRE EXTINGUISHER CABINET</u> 1) SINGLE CABINET 10KG BELOW	40
	E) <u>OUTDOOR FIRE EXTINGUISHER CABINET</u> 1) SINGLE CABINET 10KG BELOW	40
	F) <u>FIRE BLANKET 1.2 X 1.8M</u>	500

*SUPPLY OF BOTTLES AS PER REQUEST BASIS.

NO	DESCRIPTION	QTY/YEAR
02	A) REFILL OF FIRE EXTINGUISHER	
	I) REFILL DRY CHEMICAL POWDER	
	1) 1 KG – 1.8 KG	132
	2) 2 KG – 2.5 KG	58
	3) 4 KG – 4.5 KG	308
	4) 6 KG	4
	5) 9 KG	47
	6) 12 KG	6
	7) 50 KG	2
	II) REFILL OF CARBON DIOXIDE (CO2)	
	1) 2.2 KG – 2.7 KG	191
	2) 4.5 KG	590
	3) 5 KG	18
	4) 9 KG	5
	5) 30 KG	5
	6) 45 KG	5
	7) 50 KG	10
	III) REFILL 9 LITRES FOAM	
	1) 1 KG – 1.8 KG	60
	2) 50 LITRES	5
	B) <u>ACCESSORIES/PARTS</u>	1000
	1) SAFETY PIN	

	2) ADHESIVE LABEL	1000
	3) INSTRUCTION LABEL	1000
	4) O-RING	1000
	5) QUAD RING	1000
	6) PRESSURE GAUGE 12 BAR	600
	7) PRESSURE GAUGE 14 BAR	600
	8) DIP TUBE FOR DRY CHEMICAL TYPE	1000
	9) DISCHARGE HOSE DRY CHEMICAL TYPE	340
	10) DISCHARGE HOSE DRY CO2 TYPE	1000
	11) VALVE BODY FOR CO2 TYPE	1000
	12) 4" X 4" INSPECTION STICKER	500
	13) 30-50KG TROLLEY WHEEL	500
	14) REFILL 55GM CO2 TYPE	10
	15) WALL MOUNT FITTINGS.	500
	C) HYDROSTATIC TEST:	
	1) HYDROSTATIC TEST FOR CYLINDER BELOW 10KG/9L	1200
	2) HYDROSTATIC TEST FOR CYLINDER BELOW 25KG-50KG	10
	3) HYDROSTATIC TEST FOR CYLINDER BELOW 50KG-75.3KG	2
	4) RESPRAY TO BOMBA SPECIFICATIONS PER CYLINDER.	1200
03	<u>SERVICE CHARGES (ON REQUEST BASIS)</u> SERVICING OF THE FIRE EXTINGUISHERS	1

**SCHEDULE D:
LIST OF RBAF BUILDING AND LOCATION**

1. BERAKAS GARISSON
2. TUTONG CAMP
3. LUMUT CAMP
4. PENANJONG GARISSON
5. MUARA NAVAL BASE
6. SG AKAR CAMP
7. BANGAR CAMP
8. BOLKIAH CAMP
9. RIMBA AIR BASE
10. DEFENCE ACADEMY, TANAH JAMBU
11. ROYAL BRUNEI MALAY RESERVE REGIMENT