

SCOPE OF SERVICES

THE APPOINTMENT OF A SERVICE PROVIDER FOR SERVICING AND INSPECTION OF CO2 FIRE EXTINGUISHERS, 9KG DCP FIRE EXTINGUISHERS AND WATERHOSES AND REELS AT SANPC REFINERY FOR A PERIOD OF 3 YEARS.

1. BACKGROUND

CEF SOC Ltd (**CEF**) is a Schedule 2 state owned diversified energy company reporting to the Department of Mineral and Petroleum Resources (DMPR). CEF's mandate is to contribute to the security of energy supply of South Africa and the Region through exploration, acquisition, development, marketing and strategic partnership, activities in renewables and liquids fuels storage. Its mandate is derived from the CEF Act (No 38 of 1977) and the Ministerial directives issued thereafter.

CEF has recently acquired the SAPREF Refinery Precinct Asset from Shell and BP (SAPREF) now referred to as **SANPC Refinery**.

2. DELIVERABLES

SANPC Refinery requires the annual servicing and inspection of all fire extinguishers and water hoses and water hose reels across the site of the Refinery in accordance with the relevant SANS codes.

*** The specifications of the fire equipment on site is detailed in section 4 and any supply of new fire equipment and or spares and parts are required to meet these specifications.

2.1. Time Period and Frequency

- **The annual inspection and servicing are required for a period of three (3) years (2025 -2027).**
- Hydrostatic testing and refilling is required once off and will be completed in 2025.

2.2. CO2 FIRE EXTINGUISHERS

Annual servicing and inspection of all CO2 fire Extinguishers across the site of the Refinery **as per the SANS 1567 code.**

Service and Inspection Requirements:

- All CO2 fire extinguishing equipment must be inspected and or serviced by a competent person in accordance with SANS 1475-1 and SANS 10105-1
- All inspections and services of the CO2 Fire Extinguishers must be done according to the SANS 1567 code
- All CO2 fire extinguishing equipment that was serviced shall be marked, with labels correctly positioned, as required by SANS 1475-1
- If needed where the fire extinguisher is deemed unfit for purpose it needs to be replaced with SABS Approved CO2 extinguisher and to conform to the minimum ratings as specified in SANS 1567 code.
- Annual Service will include the replacement of parts including repairing as required.
- Pressure tests and refilling is required once off on the CO2 fire extinguishers.

2.3. 9KG DCP FIRE EXTINGUISHERS

Annual servicing and inspection of all 9kg DCP fire extinguishers across the site of the Refinery as per the SANS 1567 code.

Service and Inspection Requirements:

- Must be inspected and or serviced by a competent person in accordance with SANS 1475-1 and SANS 10105-1
- All inspections and services must be done according to the SANS 1567 code
- All fire extinguishers that was serviced shall be marked, with labels correctly positioned, as required by SANS 1475-1

- Annual Service will include the replacement of parts including repairing as required.

2.4. WATERHOSE REELS (30M) EACH

Annual servicing and inspection of all fire water hoses (30m) and water hose reels across the site of the Refinery as per the SANS 1475-2 code.

Service and Inspection Requirements:

- Services to include all checks to ensure that all hoses and water hose reels (entire assembly) are in a good working condition
- Hoses to be inspected and confirm no leaks.
- If needed where the water hoses and or reels are deemed unfit for purpose or condemned it needs to be replaced with SABS Approved water hoses and reels which needs to conform to the minimum ratings as specified in SANS 1475-2 code.

2.5. Documentation

2.5.1. All fire equipment will have a sticker placed on it that records the service/ inspection date and the next service date due, after each annual check.

2.5.2. Sufficient proof of all checks (fire extinguishers, hose reels, and pressure tests shall be provided.

2.6.3. The service provider shall provide the Senior Fire Officer at the Refinery, the relevant documentation after inspection/service has been carried, for example, pressure test certificates and service records.

2.6.4. The Contractor shall produce and issue a written report of the testing, inspection, examination, investigation and/or assessment undertaken and execution of any repairs.

2.6.4.1. Reports will highlight:

- The type of work or service done.
- Location of the extinguisher.

- Results of inspection.
- Faults found and their priority thereof.
- Replacement parts.
- Date of Recharging / refilling of units as applicable.
- Date of pressure testing.
- Date of service and date of next service.

3. PRICING

The contractor should provide an indicative total figure for the reimbursable element and provide a description and unit cost for expenses. All costs not so itemized shall be deemed to be covered by the consultancy fee.

Only actual costs supported by invoices and/or receipts, with no mark-up, will be reimbursed.

The costs are to be presented in the format as described below.

Mandatory Evaluation

At this phase service providers must submit the required supporting documents to substantiate compliance to the requirements below. It must be noted that if the service provider does not meet any of the requirements, the service provider will be disqualified and not be evaluated further

<u>Mandatory Requirements</u>	Comply	Not Comply
Bidder must be accredited to inspect and or service the fire extinguisher equipment accordance with SANS 1475-1 Submit valid copy of accreditation for SANS 1475-1.		
The service provider's technician must have a South African Quality Control Council (SAQCC) registration. Submit valid copy of accreditation.		
Bidder must be accredited with South African Bureau of Standards 1475 (SABS 175) accreditation document. Submit valid copy of accreditation.		

2 Technical Evaluation Criteria

Bidders will be evaluated according to the below technical evaluation criteria. Minimum Technical Threshold is 70%. It must be noted that if the Bidder does not meet the 70% minimum threshold, the bidder will be disqualified and not be evaluated further.

Technical Information	Scoring	Proof of documents	Weighting Percentage
<p>1. COMPANY EXPERIENCE The company must have experience servicing and inspecting CO2 fire extinguishers, 9kg DCP fire extinguishers, water hoses and reels in a petrochemical industry.</p> <p>Bidder to provide positive reference letters for work done in the last five (5) years as proof of previous projects implemented. Reference letters must have the following;</p> <p>(a). Client's letterhead, (b). Date When work was Executed, (c). Description of services rendered, (d). Signed by the client, (f). Client Name, contact details.</p>		Reference Letters	30
5 Reference letters or more	5		
4 Reference letters	4		
3 Reference letters	3		
2 Reference letters	2		
1 Reference letters	1		
0 Reference letters	0		

Technical Information	Scoring	Proof of documents	Weighting Percentage
The service provider's technician must have a minimum of 3 years experience in servicing and inspecting CO2 fire extinguishers, 9kg DCP fire extinguishers, water hoses and reels in a petrochemical industry.		CV of the proposed technician	40
3 years or more experience	5		
2 but less than 3 years' experience	3		
1 but less than 2 years' experience	1		
Less than 1 years' experience	0		

Technical Information	Scoring	Proof of documents	Weighting Percentage
3. Team Experience The service provider's team must have a combined experience of 3 years experience in servicing and inspecting CO2 fire extinguishers, 9kg DCP fire extinguishers, water hoses and reels in a petrochemical industry		CV's of the proposed teams	30
3 years or more experience	5		
2 but less than 3 years' experience	3		
1 but less than 2 years' experience	2		
Less than 1 years' experience	0		

3.2. Detailed Price List

ITEM NO	DESCRIPTION	UNIT	QTY	UNIT RATES	TOTAL
A. Service existing fire extinguishers (9Kg DCP)					
A1	Service 9kg DCP extinguishers. Annually	Each	89		
A2	Service 4.5 kg DCP extinguishers. Annually	Each	28		
Subtotal (Excl Vat)					
B. CO2 fire extinguishers					
B1	Service / Inspection extinguishers Annually	Each	161		
B2	Pressure testing and refilling 5Kg (once off)	Each	152		
B3	Pressure testing and refilling 2kg (once off)	Each	9		
B4	Refurbishment/ paint if needed? (Once off)	Each	161		
Subtotal (Excl Vat)					
C. Water Hoses and Reels					
C1	Inspection of existing water hoses and Reels. Annually	Each	45		
C2	Supply and fit new Water Hoses and Reels (30m) – Entire Assembly. (Once off)	Each	5		
Subtotal (Excl Vat)					

ITEM NO	DESCRIPTION	UNIT	QTY	UNIT RATES	TOTAL
D. SPARES AND PARTS					
D1	Supply and fit new nozzle – Plastic TG (Once off)	Each	10		
D2	Supply and fit new clamp - GS12 (Once off)	Each	10		
D3	Supply and fit fire hose reel CP valve (Once off)	Each	10		
D4	Supply and fit fire hose reel gooseneck - Waterway plastic (Once off)	Each	10		
Subtotal (Excl Vat)					

Description	Total Cost
Total Year 1	
Total Year 2	
Total Year 3	
Others (Specify Clearly)	
Subtotal Excl VAT	R
Vat 15%	R
Total Year 1+ Year 2 + Year 3 (Incl Vat)	R

4. FIRE EQUIPMENT SPECIFICATIO S ON SITE

4.1. 9kg DCP Fire Extinguishers Specifications

- Height (mm): 540
- Diameter (mm): 175
- Mass Empty (kg): 3.93
- Mass Full (kg): 12.93
- Charge: 40% MAP
- Expellant: Nitrogen
- Discharge distance (m): 14
- Working pressure (kPa): 1400
- Paint coating: Heavy Epoxy Powder Coating
- Steel Foot 1.2mm Galvanized

4.1.2 4.5kg DCP Fire Extinguishers Specifications

- Height (mm): 400
- Diameter (mm): 175
- Mass Empty (kg): 2.54
- Mass Full (kg): 7.04
- Medium: ABC Powder
- Expellant: Dry Nitrogen
- Discharge distance (m): 14
- Working pressure (kPa): 1500
- Paint coating: Heavy Epoxy
- Compliance: SANS 1910

4.2. CO2 Fire Extinguishers Specifications

4.2.1 2kg CO2 Fire Extinguishers

- Height (mm): 535
- Diameter (mm): 110
- Mass Empty (kg): 3.3
- Mass Full (kg): 5.3
- Medium: CO2
- Charge: 2
- Discharge distance (m): 3
- Working pressure (kPa): 60 Bar at 20°C

- Filling Ratio: 68%
- Paint coating: Heavy Duty Powder
- Coating
- Compliance: SANS 1567

4.2.2 5kg CO2 Fire Extinguishers

- Height (mm): 752
- Diameter (mm): 130
- Mass Empty (kg): 9.00
- Mass Full (kg): 14.00
- Medium: CO2
- Charge: 5
- Discharge distance (m): 4
- Working pressure (kPa): 60 Bar at 20°C
- Filling Ratio: 65%
- Paint coating: Heavy Duty Powder
- Compliance: SANS 1567

4.3. Water Hose Reel Specifications

- Hose Capacity (m): 30
- Spindle: Stainless Steel
- Waterway: Plastic
- Hub Spacer: M/Steel Electro Galvanised
- Discs: M/Steel Electro Galvanised
- Frame: M/Steel Electro Galvanised
- Coating: Heavy Epoxy
- Nozzle: Jet / Spray
- Nozzle Material: Nylon
- Frame Mass (Kg): 5.98
- Complete Mass (Kg): 16.94
- (c/w 30m PVC Hose)
- Compliance: SANS 543

4.4. SPARES AND PARTS

4.4.1. Nozzles

4.4.2. Clamps

4.4.3. Fire Hose Reel CP Valves



4.4.4. Fire Hose Reel Gooseneck

4.4.5. Stirrups