



**FIRE PROTECTION SERVICES SPECIFICATION FOR
MAINTENANCE, SERVICING OF PORTABLE AND FIXED FIRE
EQUIPMENTS (HOSE-REELS & HYDRANTS) AT TRANSNET ENGINEERING
GERMISTON PLANT AND CENTRAL CORRIDOR**

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1. Purpose

The purpose of the request is for the Service Provider to provide the service of maintenance and servicing the fire equipment within the Germiston Plant and Central Corridor.

2. Fire Equipment Maintenance/Service Specifications:

- 2.1 All new extinguishers to be marked with the TRANSNET logo.
- 2.2 All portable fire extinguishers and hose reels serviced in buildings shall comply with the requirements contained in SANS 1739; SANS 1910 or SANS 1151 and fire hose reels shall be maintained and serviced in accordance with SANS 0105.
- 2.3 Such fire extinguishers shall bear the mark of standardization as contemplated in section 14 of the Standards Act 30 of 1982 or where it cannot bear such mark; be clearly marked by the South African Bureau of Standards to indicate that it has been evaluated by and is acceptable to the SABS.
- 2.4 Any hose reel installed in a building shall comply with the requirements contained in SANS 543. Any hose reel so installed shall be positioned to ensure that the end of the hose will reach any point in the area to be protected and shall comply with SANS 0105.
- 2.5 Locations of all fire equipment shall be depicted by the appropriate symbolic signage in accordance with SANS 1186.
- 2.6 Portable fire extinguishers shall comply with TT 37 and hose reels to TT 34 of SANS 10400
- 2.7 No fire equipment shall be removed away from their location for service. A replacement needs to be provided should the need arise; thus protecting the risk at all times.

3. Maintenance defects:

- 3.1 The tenderer shall make good, with reference to the contractual agreement, to the satisfaction of Transnet Engineering. Defective material and/or workmanship which are not in accordance with this specification, and which may appear within two working days, shall be replaced free of charge.
- 3.2 The tenderer shall on daily basis after completion of work submit a job card to the representative of Transnet Engineering and discuss work done. The job card shall be signed by both Transnet Engineering and the tenderer representatives.

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3.3 The tenderer

shall obtain written authorization from Transnet Engineering prior to replacing or providing new additional fire equipment's and spares.

3 Compliance with OHS Act and handing over of site to contractor:

To the Occupational Health and Safety Act 1993, (Act No 85 of 1993) "as amended", the tenderer is in every respect responsible for the compliance of the provision of this Act.

4 Special requirements:

The Contractor shall pay special attention and compliance to **Transnet Engineering SHE Specification** for the safety of their staff who visits for business purposes.

5 Warranty:

The items shall carry a warranty period of not less than 12 months (Tenderer to state the warranty period).

6 Supervision:

The Contractor shall always exercise supervision over the service or shall be represented by an agent having full power and authority to act on behalf of the Contractor. Such agent shall be competent and responsible and have adequate experience in carrying out work of a similar nature to the service and shall exercise personal supervision on behalf of the Contractor.

7 Parts availability:

Parts and spares must be genuine and locally available. The Contractor will supply Transnet Engineering with the original delivery notes for all material.

8 Responsibility of the Contractor

All instructions to the Contractor shall be confirmed in writing and shall be issued to the person in charge or his agent who shall then acknowledge in writing.

The Plant Engineer may order alterations, extras, additions to or omissions from the service. The Contractor shall obtain written confirmation of all verbal orders given to him by the Plant Engineer.

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9 Provision of Services

The contractor is to supply to the Risk Manager of Transnet original copies of documentation relating to Maintenance, pressure tests and inspections undertaken and in addition all equipment removed from site will be covered by documentation.

A fire equipment register is to be compiled. Documents shall also serve as a register of all equipment on site which is covered by the Agreement. The Contractor is to report to the Risk Manager when entering or leaving the premises. All equipment's must be numbered e.g. location and equipment.

A detailed report shall be submitted to the Risk Manager detailing the work done per section i.e. equipment serviced or replaced; defects identified as well as proposed remediation/corrective action.

10. SERVICING AND PRICING OF FIRE EXTINGUISHERS

10.1 The following items must be checked and at all times adhered to when servicing fire extinguishers at Transnet Engineering, Germiston.

- a. Sifting of dry Chemical powder to all DCP units (no mixing of powder, only multi-purpose to be used)
- b. Plungers and springs must be checked.
- c. Interior inspection for rust
- d. Pressure testing where necessary.
- e. Replace all defective parts
- f. Application of service seals
- g. Application of instruction labels (to be manufacturers label)
- h. Recharging of Co2, Dry Chemical Powder and Foam
- i. Numbering of extinguishers according to fire register
- j. Collection and delivery (Price per km) to be included in **service price**.
- k. Head valve over halls including o rings.
- l. Affixing of service labels
- m. Service label carrying Transnet logo.
- n. Refurbishing – Painting of an Extinguisher if necessary

10.2 Servicing of Fire Hose Reel

The following must be always checked when servicing **fire hose reels** at Transnet Engineering Germiston.

- a. Check the static [municipal feed] and flow pressure.
- b. Inspection of drum
- c. Application of anti-tamper seals
- d. check shut-off nozzles
- e. inspects hose reel guide

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- f. Numbering of hose reels
- g. numbering of fire hose reels according to register

10.3 Specification for servicing of fire Hydrants

The following items must be checked and at all times adhered to when servicing fire hydrants at Transnet Engineering Germiston.

- a. Check condition of "washer" of all fire hydrants
- b. Report all pitted and Rusted Hydrants
- c. All hydrants water pressure to be noted in fire register [Static and Flow Pressure]
- d. Paint and refurbish Hydrants where necessary.
- e. Replace hydrant hand wheel where necessary.
- f. Numbering of fire hydrants according to the fire register

10.4 Specification for Servicing of Lay flat Hoses

The following items must be checked, and all times adhered to when servicing fire lay flat Hoses at Transnet Engineering, Germiston.

- a. Check overall condition
- b. Unwind hose completely.
- c. Check hose bindings and coupling.
- d. Check quick release on coupling for smooth operation.
- e. Replace hose washers where necessary.
- f. Blank hose and couple to fire hydrant
- g. Open valve and check for leaks.
- h. Release pressure and drain hose.
- i. Rewind hose and place in box.
- j. Attach service sticker on box.
- k. Lay flat control nozzle.

10.5 Servicing and Maintenance of Dry Powder Trolleys

- a. Affixing of service label
- b. Affixing of instruction label
- c. Completion of service register

10.6 Replacement of Fire Equipment

All firefighting equipment that is beyond servicing [condemned] must be listed and this list forwarded to Transnet Engineering representative.

This firefighting equipment must be handed to the client for safe storage and disposal. This equipment will be replaced under a separate contract.

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10.7 Fire Registers

Contractor to supply detailed fire registers for each building or group of building with all necessary information for example quantity, type, location, and number, etc.

11. SCHEDULE OF QUANTITIES AND RATES

11.1 The Schedule of Quantities and Prices must not be changed/ altered or amended as any changes/ alteration/ amendment on the Schedule of Quantities and Prices will lead to the **disqualification** of your quotation.

11.2 Failure to complete all parts of the schedule of quantities and prices will render your quotation non - responsive.

12. Quality Control

Contractor shall make do allowance of 10% in the tender amount for portable appliances only for costs occurring for recharging of extinguishers randomly selected to discharge for testing purposes. Any damage caused to items or building during the service will be repaired at the contractor expenses to the satisfaction of Transnet Engineering. All service labelled must be readable after 12 Months.

13 BILL OF QUANTITIES

13.1 GERMISTON PLANT QUANTITIES

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Wagons Factory Germiston	0 km	Air Foam	5	2024-10-30
		Dry Powder 9kg	184	
		Hose Reels	51	
		Pillar	9	
		Screw Down	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date

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Main Plant Germiston SHE Department and Clinic	0 km	CO2 5kg	2	2024-10-30
		Dry Powder 9kg	3	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston Product Development	0 km	CO2 5kg	5	2024-10-30
		Dry Powder 9kg	6	
		Hose Reels	3	
		Fire Hydrant	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston Finance	0 km	CO2 5kg	10	2024-10-30
		Dry Powder 9kg	2	
		Hose Reels	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston Human Capital	0 km	CO2 5kg	6	2024-10-30
		Dry Powder 9kg	4	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston FoE Electrical School	0 km	CO2 5kg	6	2024-10-30
		Dry Powder 9kg	2	

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		Pillar	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston FoE Millwright School	0 km	CO2 5kg	4	2024-10-30
		Dry Powder 9kg	5	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Germiston FoE Welding School	0 km	CO2 5kg	2	2024-10-30
		Dry Powder 9kg	21	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant FoE White House	0 km	CO2 5kg	6	2024-10-30
		Dry Powder 9kg	4	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant ICT	0 km	CO2 5kg	3	2024-10-30
		Dry Powder Propellant 9kg	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Supply Chain	0 km	CO2 5kg	4	2024-10-30
		Dry Powder 9kg	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date

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Main Plant PEMM	0 km	CO2 5kg	36	2024-10-30
		Dry Powder 9kg	29	
		Hose Reels	5	
		Pillar	11	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Ports Germiston	0 km	CO2 5kg	2	2024-10-30
		Dry Powder 9kg	9	
		Foam	2	
		Fire Hose	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Project Office	0 km	CO2 5kg	2	2024-10-30
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Main Plant Wheels	50 km	CO2 5kg	2	2024-10-30
		Dry Powder 9kg	28	
		Hose Reels	7	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Ports Container City Deep	15 km	CO2 5kg	11	2025-02-28
		Dry Powder 9kg	24	
		Pillar	3	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Ports Phalaborwa	482 km	CO2 5kg	2	2024-11-30

		Dry Powder 9kg	6	
		Dry Powder propellant	2	
		Fire Hydrant	2	

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Sentrarand In-service	50km	CO2 5kg	3	2025-01-31
		Dry Powder 9kg	4	

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Sentrarand	50 km	CO2 5kg	17	2025-01-31
		Dry Powder 9kg	49	
		Hose Reels	14	
		Pillar	7	
		Fire Hydrant	6	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Waterval	50 km	CO2 5kg	2	2024-03-31
		Dry Powder 9kg	3	
		Pillar	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date

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Wagons Maintenance Karsene	15 km	CO2 5kg	2	2025-01-30
		Dry Powder 9kg	2	
		Pillar	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Germiston	3 km	Foam	1	2024-10-30
		CO2 5kg	2	
		Dry Powder 9kg	22	
		Pillar	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Leeuhof	70 km	CO2 5kg	20	2025-01-30
		Dry Powder 9kg	26	
		Hose Reels	2	
		Pillar	11	
		Fire Hydrant	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Mafikeng	310 km	CO2 5kg	2	2024-05-31
		Dry Powder 9kg	5	
		Screw Down	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Coligny	260 km	CO2 5kg	7	2024-05-31

		Dry Powder 9kg	24	
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Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Klerksdorp	300 km	CO2 5kg	2	2024-03-31
		Dry Powder 9kg	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Biljkor	100 km	CO2 5kg	2	2025-01-31
		Dry Powder 9kg	7	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Lichtenburg	280 km	Dry Powder 5kg		2025-05-31
		Dry Powder 9kg		
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Diesel Locomotive Maintenance Germiston	3 km	CO2 5kg	21	2025-05-31
		Dry Powder 9 kg	17	
		Fire Hydrant	13	
		Pillar	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Diesel Locomotive Maintenance Millsite	50km	CO2 5kg	10	2024-03-31

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		Dry Powder 9 kg	47	
		Fire Hydrant	12	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Diesel Locomotive Maintenance Springs	40 km	Foam	1	2025-05-31
		CO2 5kg	2	
		Dry Powder 9kg	22	
		Screw Down	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Diesel Locomotive Maintenance Klerksdorp	300 km	CO2 5kg	3	2024-03-31
		Dry Powder	12	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Sentrarand	50 km	CO2 5kg	46	2024-11-30
		Dry Powder 9kg	69	
		Hose Reels	44	
		Fire Hydrant	16	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Welgedacht	45 km	Dry Powder 9kg	5	2024-05-31

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Klerksdorp	300 km	CO2 5kg	1	2024-03-31
		Dry Powder 9kg	22	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Leeuhof	70 km	CO2 5kg	2	2025-02-31
		Dry Powder 9kg	3	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Coligny	260 km	CO2 5kg	5	2025-05-31
		Dry Powder 9kg	17	
		Hose Reel	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Oorstad	50 km	CO2 5kg	2	2025-01-31
		Dry Powder 9kg	6	
		Pillar	3	

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
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Electrical Locomotive Maintenance City Deep	15 km	CO2 5kg	5	2025-02-28
		Dry Powder 9kg	13	
		Hose Reel	6	
		Fire Hydrant	2	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Steam Area	3 km	Dry Powder 1kg	17	2016-2017
		Dry Powder 1.5kg	2	
		Dry Powder 4.5 kg	6	
		Dry Powder 9kg	24	
		CO2 9kg	2	
		CO2 2kg	1	
		CO2 5kg	8	
		Fire Hydrants	4	

Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Electrical Locomotive Maintenance Capital Park	64 km	CO2 5kg	8	2025-01-23

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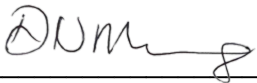
		CO2 2.5kg	1	
		Dry Powder 9kg	15	
		EHO 6.8kg	1	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Diesel Locomotive Maintenance KDS	70 km	CO2 5kg	23	2024-12-18
		EHO 6.8kg	1	
		Dry Powder 9kg	19	
		Hose Reel	17	
		Fire Hydrant	17	
Business	KM	Type of Fire Equipment (and size, where applicable)	Quantities	Next service date
Wagons Maintenance Capital Park	64 km	CO2 5kg	10	2025-04-16
		CO2 2.5kg	3	
		EHO 6.8kg	1	
		Dry Powder 9kg	9	
		Hose Reel	9	
		Fire Hydrant	3	
		Water 9kg	1	

Technical Specifications compiled by:

Name: Desire Mnguni

Designation: Safety Manager

Date: 22/05/2024

Signature:  _____

Technical Specifications approved by:

Name: Zizile Mkhize

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Date: 22.05.2024

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