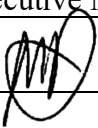


SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CERTIFICATION OF FIRE- FIGHTING EQUIPMENT

**DURBAN MAIN CENTRE, 311 SOLOMON
MAHLANGU DRIVE, ROSSBURGH.**

Document Number	FAI_DBN_SPEC_001
Reference Number	RS_SHE_DBN_SOW_011
Revision	003
Effective Date	21 August 2026
Supersedes	Revision 002 dated 18 March 2023

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1. INTRODUCTION AND SCOPE

The scope of this project involves the appointment of a competent and suitably qualified contractor to assess, inspect, service where specified, repair where authorised, maintain where specified, supply, deliver, replace, install, test, commission, document and certify firefighting equipment identified in the Activity Schedule and associated fire-equipment inventory.

The works shall include replacement of missing, damaged, condemned, non-compliant and defective firefighting equipment, together with associated accessories, signage, mounting hardware and supporting components necessary to restore the fire protection equipment to a fully operational and compliant condition.

The contractor shall provide all labour, supervision, materials, consumables, transport, tools, calibrated testing equipment, access equipment and resources required for complete execution of the works. Unless expressly identified as a separately priced item in the Activity/Pricing Schedule, these common and indirect costs shall be deemed included in the applicable unit rates and shall not be separately payable.

1.1 TASK ALIGNMENT AND MINIMUM DELIVERABLES

Task	Required	Minimum output	Acceptance evidence
Assessment / Inspection	Yes	Verify each listed asset, condition and location before work starts.	Signed baseline inspection / asset verification register.
Service	As scheduled	Perform servicing only where identified in the Activity Schedule or authorised in writing.	Service record and asset tag/certificate where applicable.
Repair	As authorised	Repair defective components only after Technical Officer authorisation.	Before/after record and test result.
Maintenance	As scheduled	Perform specified maintenance interventions to restore operability.	Maintenance record and close-out status.
Supply	Yes	Supply new, unused, compliant equipment and accessories.	Delivery/inspection record and conformity evidence.
Delivery	Yes	Deliver to the identified Transnet work area/location.	Delivery note and receiving confirmation.
Documentation	Yes	Maintain registers, certificates, defect records and handover documentation.	Approved handover file.
Testing	Yes	Conduct applicable operational/pressure tests under an approved ITP.	Signed test records.
Calibration	Yes	Use calibrated measuring/test equipment.	Valid calibration certificates.
Certification	Yes	Issue required certificates by appropriately registered personnel.	Valid completion/service/test certificates.

1.2 SCOPE CONTROL

The Activity Schedule is the quantity and location control document. The contractor shall price and execute the quantities stated therein. Any discrepancy between the physical asset, the Activity Schedule and this specification shall be reported to the Technical Officer and shall not be altered without written authorisation. Replacement items shall be compatible with the existing installation unless a complete replacement assembly is expressly specified.

2. APPLICABLE LEGISLATION, STANDARDS AND REQUIREMENTS

All work shall comply with the latest applicable issued versions of the legislation, codes, standards and Transnet requirements identified below, to the extent applicable to the specific item and work activity. These requirements are consolidated in this section to avoid repeated and potentially inconsistent references elsewhere in the specification.

- Occupational Health and Safety Act, 85 of 1993, as amended, and applicable regulations.
- General Safety Regulations.
- National Building Regulations and Building Standards Act, 103 of 1977.
- Local municipal fire authority requirements.
- Applicable insurance underwriter requirements.
- SAQCC Fire requirements applicable to the company, responsible person/supervisor and technicians.
- SANS 1910 - Portable rechargeable fire extinguishers.
- SANS 1186-1 - Symbolic safety signs.
- SANS 10400-T - Fire protection requirements.
- SANS 1475-1 - Production of reconditioned fire-fighting equipment: portable and wheeled rechargeable fire extinguishers.
- SANS 1475-2 - Production of reconditioned fire-fighting equipment: fire hose reels and above-ground hydrants.
- SANS 1739 - Low pressure welded steel cylinders for fire extinguishers.
- SANS 10105-1 - Use and control of fire-fighting equipment: portable and wheeled mobile fire extinguishers.
- SANS 10105-2 - Use and control of fire-fighting equipment: fire hose reels and above-ground hydrants.
- SANS 543 - Fire hose reels.
- SANS 1567, SANS 1432, SANS 1128, SANS 1456 and SANS 1086 where applicable to the equipment or component specified in the Activity Schedule.
- SANS 1151 Portable rechargeable fire extinguishers.
- Applicable National Fire Protection Association standards where expressly required by the RFP or accepted by the Technical Officer.
- Transnet Engineering standards and procedures, including TRN-IMS-GRT-TMP-01411.

2.1 Mandatory Competency and Registration

Bidders responding to this tender must submit mandatory certification and accreditation as listed below:

Mandatory requirement	Documents to be submitted
Submission of a valid SANS 1475 approval certificate/ permit demonstrating that all workshops utilized for servicing, maintenance, testing, certification and reconditioning of fire equipment comply with the requirements of SANS 1475.	SABS /SANS 1475 Workshop Certificate/ permit
Submission of valid proof of certified, qualified, trained and experienced SAQCC Fire registered technicians.	Valid SAQCC Fire Certificates/ Cards for technicians
Submission of South African National Accreditation System (SANAS) certificate demonstrating that the bidder is able to operate in an accredited hydrostatic testing facility competent to perform hydrostatic pressure testing of CO ₂ fire extinguisher cylinders in accordance with SANS 1825:2024- Gas	South African National Accreditation System (SANAS)S hydro- test station certification. If subcontracting the Certificate must also be attached by the bidder)

cylinder test stations, and SANS 1567:2022- Portable rechargeable fire extinguishers – CO2 type extinguishers.

3. SPECIFIC WORK REQUIREMENTS

Item no.	Requirements
3.1	Baseline Asset Verification and Defect Register - Before commencing physical work, verify the asset/location information contained in the Activity Schedule for the relevant work area. - Record asset identification, location, equipment type, visible condition, defect status and proposed intervention. - Identify missing, damaged, condemned, non-compliant or defective equipment and associated accessories. - No additional repair or replacement outside the Activity Schedule shall proceed without written Technical Officer authorisation. - Provide the signed baseline register as part of the handover documentation.
3.2	Fire Extinguisher Works - Supply, replace, install, test and certify portable fire extinguishers of the type, capacity and quantity stated in the Activity Schedule. - Install complete with compatible mounting brackets/supports and required identification signage. - Ensure each extinguisher is securely mounted, visible, readily accessible and unobstructed. - Where a replacement is required, the replacement capacity and extinguishing medium shall match the Activity Schedule and the approved existing duty unless otherwise authorised. - Remove condemned/replaced equipment from service and manage it in accordance with the approved disposal process and applicable Transnet requirements.
3.3	Fire Hose Reel Works - Supply and install complete fire hose reel assemblies where identified. - Replace damaged or missing hose reel hoses, nozzles, drums, brackets, guides, stopcocks/CP valves, covers, frames, clamps, fittings, locking devices and associated mounting hardware where listed in the Activity Schedule or authorised in writing. - Repair leaking or defective hose reel assemblies only where repair is technically feasible and authorised. - Ensure free rotation, correct hose deployment, secure mounting and leak-free operation. - Conduct the applicable operational and pressure tests under the approved Inspection and Test Plan.
3.4	Fire Hydrant, Lay-Flat Hose and Cabinet Works - Supply and install hydrant hose cabinets and associated equipment where specified. - Replace missing or defective 65 mm lay-flat hoses, compatible couplings, hydrant nozzles/branch pipes, fittings, valves, cabinet components and associated accessories as identified in the Activity Schedule. - All replacement hoses, couplings and nozzles shall be compatible with the existing 65 mm instantaneous hydrant outlet arrangement unless the Activity Schedule expressly requires a different complete assembly. - Ensure equipment is clearly labelled, accessible, securely mounted and corrosion resistant for the specified operating environment. - Conduct applicable operational and pressure testing under the approved Inspection and Test Plan.
3.5	Fire Safety Signage and Visibility Markings Supply and install fire extinguisher, hose reel and hydrant signage, directional signs, chevron boards, labels and safety markings in the quantities and locations stated in the Activity Schedule.

	• Ensure signs are clearly visible, correctly positioned, securely fixed and suitable for the environment. • Replace faded, missing, damaged or non-compliant signs where identified in the Activity Schedule.
3.6	Replacement Component Compatibility Every replacement component shall be compatible with the existing equipment to which it is fitted. The contractor shall confirm dimensions, connection type, thread/coupling arrangement, mounting configuration and functional compatibility before supply. Where the Activity Schedule specifies a complete replacement assembly, the supplied assembly shall be complete with all accessories necessary for functional installation and testing.

4. ITEM MASTER AND DETAILED TECHNICAL SPECIFICATIONS

The following item master defines the minimum controlled technical characteristics for the principal equipment and replaceable components. Exact quantities and locations shall be taken from the Activity Schedule. Where the Activity Schedule includes a size/capacity not repeated below, the stated schedule size/capacity shall govern while all other applicable requirements of this specification remain applicable.

Item ID	Equipment / Component	Minimum controlled requirement	Quantity basis
FE-EXT-01	Portable fire extinguisher	CO2 or dry chemical powder type and capacity as stated in the Activity Schedule; new/unused where supplied; complete with compatible bracket/support, identification/tagging and required signage; rechargeable type where applicable.	Activity Schedule
FE-HR-01	Complete fire hose reel	Wall-mounted complete assembly; 20 mm hose; 30 m hose length; nominal reel diameter 575 mm; durable red protective finish; complete with hose guide, durable nozzle and required mounting hardware.	Activity Schedule
FE-HR-HOSE-01	Fire hose reel hose / pipe	20 mm diameter; 30 m length; PVC hose; 25 mm (1 in) BSP coupling where applicable to existing installation; complete with compatible connections.	Activity Schedule
FE-HR-NOZ-01	Fire hose reel nozzle	Durable nozzle compatible with 20 mm hose/reel and existing connection; suitable for functional shut-off and discharge; supplier to submit product data for acceptance.	Activity Schedule
FE-HR-CPV-01	Hose reel CP stopcock / valve	25 mm hose reel CP stopcock/valve, connection arrangement compatible with existing installation.	Activity Schedule

Item ID	Equipment / Component	Minimum controlled requirement	Quantity basis
FE-HYD-HOSE-01	Fire hydrant lay-flat hose	Reinforced lay-flat hose; 65 mm diameter; 30 m length; complete with 65 mm (2 1/2 in) approved compatible couplings; PVC construction as specified in the baseline document.	Activity Schedule
FE-HYD-NOZ-01	Fire hydrant nozzle / branch pipe	Corrosion-resistant construction; inlet connection compatible with specified 65 mm coupling; shut-off and adjustable spray/jet function where required by existing installation; supplier shall state rated working pressure and provide conformity/product evidence.	Activity Schedule
FE-HYD-01	Fire hydrant valve	Right-angle handwheel operated; 80 mm inlet thread; 65 mm female instantaneous outlet; threaded connection; cast iron construction.	Activity Schedule
FE-HYD-CAB-01	Hydrant lay-flat hose cabinet	Approx. 520 mm high x 210 mm deep x 670 mm wide; break-glass key box locking configuration; SABS-approved polyester resin and woven glass-fibre construction or accepted equivalent compatible with the environment.	Activity Schedule
FE-CAB-EXT-01	Fire extinguisher cabinet / enclosure	Size and configuration suitable for the extinguisher stated in the Activity Schedule; corrosion-resistant; secure mounting; access arrangement shall not impede emergency use.	Activity Schedule
FE-BRK-01	Wall bracket / support	Compatible with the specific extinguisher or hose reel; corrosion-resistant; securely fixed to supporting structure.	Activity Schedule
FE-ACC-01	Reel clamps / frames / covers / hose guides	Compatible replacement component matching existing equipment dimensions and mounting arrangement; corrosion-resistant and suitable for service environment.	Activity Schedule

Item ID	Equipment / Component	Minimum controlled requirement	Quantity basis
FE-ACC-02	Couplings / fittings	Correct nominal size and connection type for the mating equipment; 65 mm instantaneous arrangement for hydrant hose equipment and 25 mm (1 in) BSP arrangement for hose-reel pipe where specified; no incompatible adaptors without written approval.	Activity Schedule
FE-ACC-03	Locking pins, seals, tags and labels	Compatible with equipment; durable and legible; tags/labels shall support asset identification, service/certification control where applicable.	Activity Schedule
FE-SIGN-01	Fire equipment signage	Nominal 290 x 290 mm; ABS plastic as baseline specification; correct fire equipment symbol and location identification.	Activity Schedule
FE-CHEV-01	Chevron / visibility board	Nominal 800 x 400 mm; ABS plastic as baseline specification; high-visibility marking suitable for identified location.	Activity Schedule

5. TESTING, COMMISSIONING, ACCEPTANCE AND HANDOVER

5.1 Inspection and Test Plan (ITP)

Before testing commences, the contractor shall submit an Inspection and Test Plan for acceptance by the Technical Officer. The ITP shall identify each equipment type, applicable standard, inspection/test method, test pressure and duration where applicable, pass/fail criteria, hold/witness points, records to be produced and the responsible registered person.

5.2 Testing and Commissioning Records

Each applicable hose reel, hydrant installation and other tested item shall be tested in accordance with the identified applicable standard and the accepted ITP. As a minimum, each test record shall state:

- Asset number or unique equipment identification and location.
- Equipment type and specification/item ID.
- Test/inspection method and applicable acceptance criterion.
- Test pressure and test duration where applicable.
- Pass/fail result and details of any defect identified.
- Test instrument description, serial number and calibration due date.
- Technician name, registration/certificate number and signature.
- Date of test and Technical Officer witness/signature where identified as a witness point.

5.3 Defect Rectification

Any defective installation or equipment identified during inspection, testing or commissioning shall be rectified at the contractor's cost. The affected item shall be re-tested and shall not be accepted until the applicable pass criteria have been achieved and recorded.

5.4 Final Handover File

- Signed baseline inspection / asset verification register.
- Final updated fire-equipment asset register showing the work completed and status of each asset.
- Defect register and evidence of close-out or approved outstanding actions.
- Inspection, pressure and operational test records.
- Valid calibration certificates for test instruments used.
- SAQCC and other applicable personnel/company registration evidence used for execution and certification.
- Product data sheets and certificates of conformity where applicable.
- Service, installation and certification certificates applicable to the completed work.
- Delivery notes and disposal/condemned-equipment records where applicable.
- Warranty certificates and manufacturer warranty information.
- One indexed electronic PDF handover file and any hard-copy requirements stated in the RFP/MA.

5.5 Acceptance

Final acceptance shall occur only after completion of the physical works, successful testing/commissioning, rectification of defects, submission of all required certificates and approval of the handover file by the Technical Officer.

6. HEALTH, SAFETY, RISK AND TRANSNET COMPLIANCE

6.1 General Safety Compliance

All equipment and work activities, whether specifically detailed in this specification or not, shall comply with the Occupational Health and Safety Act, applicable regulations, local authority requirements and the requirements contained in the RFP and applicable MA documentation issued for this tender.

6.2 Task-Specific Risk Assessment and Method Statement

Before commencement of work, the contractor shall submit a task-specific risk assessment and safe work method statement covering the planned activities, work areas, access arrangements, handling/removal of fire equipment, pressure testing, use of tools and test equipment, working at height where applicable, interaction with Transnet operations and emergency arrangements. The risk assessment shall be maintained and updated when conditions or scope change.

6.3 Transnet Engineering Requirements

Upon award, the contractor shall comply with all applicable Transnet Engineering standards and procedures, including TRN-IMS-GRT-TMP-01411, and any site-specific induction, permit, access, isolation, environmental, waste and operational-control requirements communicated by the Technical Officer.

6.4 Operational Interface

Work shall be planned to minimise interruption to fire protection coverage and Transnet operations. Equipment shall not be removed from service without coordination with the Technical Officer. Where temporary loss of fire protection is unavoidable, the contractor shall comply with the approved risk controls and any temporary protection arrangements instructed by Transnet.

7. WARRANTY AND DEFECT LIABILITY

7.1 Workmanship Warranty

The contractor shall provide a minimum twelve (12) month workmanship warranty commencing on the date of final acceptance by Transnet Engineering.

7.2 Equipment and Manufacturer Warranty

All manufacturer warranties applicable to supplied equipment shall be transferred to Transnet Engineering and shall not be shorter than the minimum warranty period stated above unless a longer manufacturer warranty applies, in which case the longer period shall apply to the equipment concerned.

7.3 Defect Response

Defects affecting the availability or safe use of fire protection equipment shall be attended to within twenty-four (24) hours of notification. Rectification shall be completed within the period agreed with the Technical Officer based on risk and operational requirements. Warranty rectification, re-testing and re-certification shall be at no additional cost to Transnet where the defect is attributable to supplied equipment, workmanship or installation within the applicable warranty.

8. GENERAL TECHNICAL REQUIREMENTS

8.1 Fitness for Duty

The tenderer shall guarantee that the equipment offered is correctly rated and sized for the required duty and is compatible with the specified installation, connections and operating environment.

8.2 Operating Environment

Condition	Requirement
Altitude	Sea level
Ambient temperature	0 degrees C to 45 degrees C
Relative humidity	50% to 100%
Atmosphere	Heavy saline
Operating environment	Outdoors and indoors, including workshop environment

8.3 Quality and Traceability

All supplied items shall be new, unused and free from defects. Product identification, certificates and test/service records shall be sufficiently traceable to the equipment and location to support Transnet inspection, audit and future maintenance.

9. DEFINITIONS AND ABBREVIATIONS

CLIENT	Transnet Engineering Durban.
TECHNICAL OFFICER	Project Manager or delegated Transnet Engineering representative responsible for technical administration and acceptance.
CONTRACTOR	Contractor appointed under this specification document.
ITP	Inspection and Test Plan.
SAQCC	South African Qualification and Certification Committee requirements applicable to the fire industry.