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PASSENGER RAIL AGENCY  
OF SOUTH AFRICA

# **APPLICABLE TECHNICAL STANDARDS**

## **VOLUME 7**


Request For Tender for The Appointment of Contractor for  
The Construction of Durban Yard Lifting Shed and Associated  
Buildings Project

BID NUMBER: HO/PGC/DMP/516/06/2026

<p><b>APPLICABLE TECHNICAL STANDARDS</b></p> <p><b>REQUEST FOR TENDER:</b> Request For Tender for The Appointment of Contractor for The Construction of Durban Yard Lifting Shed and Associated Buildings Project</p>	
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## 1 SOUTH AFRICAN NATIONAL STANDARDS (SABS)

All works to be executed in accordance with the South African National Standards, obtainable from [www.sabs.co.za](http://www.sabs.co.za), as applicable.

PS 1.1 For the purpose of this Contract the Standardized Specifications and Code of Practice for Civil Engineering Construction as approved by the Council of the South African Bureau of Standards shall apply with the exception of SANS 1200 HC (Corrosion Protection of Structural Steelwork).


PS 1.2 In addition, the relevant sections of the Model Preambles for Trades (2017 Edition) as issued by the Association of South African Quantity Surveyors shall apply where specified in the Schedules of Quantities.

PS 1.4 In addition the following Particular Specifications shall apply:


PA- QAP 100 Issue 14 Quality requirements for critical and major products.

PS 1.5 For the purposes of this Contract the following Standardised Specifications shall apply:


SANS 1914-4:2002	Targeted Construction Procurement Part 1 – Participation of Targeted Enterprises and Targeted Labour (local resources)
SANS 1921-2: 2004	Construction and Management Requirements for Works Contracts, Part 2: Accommodation of Traffic on Public Roads occupied by the Contractor.
SANS 10400	The Application of the National Building Regulations
- Part O	Lighting and Ventilation
- Part P	Drainage
- Part S	Facilities for disabled persons
- Part T	Fire Protection
- Part W	Fire Installation
- Part XA	Energy
SANS 10252-1	Water Supply Installations for Buildings
SANS 10252-2	Drainage Installations for Buildings
SANS 204:2011	Energy efficiency building
SANS 460:2009	Copper and copper alloy tubing
SABS 046	Copper tube manufacturing
SANS 10140	Identification colour markings
SANS 10140-3	Pipe Paint Finishes

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SANS 791	Sewer and Drainpipe System
SANS 967	uPVC Pipe System
SANS 1238	Air conditioning ductwork
SANS 810-1985, SANS 889-1973, SANS 1151-1977 and SANS 0105-1971, SANS 1910, SANS 1475-1 and SANS 10105-1.	Fire Extinguishers
SANS 10114-1	Interior lighting
SANS 10114-2	Emergency lighting
SANS 1464-22	Emergency Lighting
SANS 543, SANS 10105-1 and SANS 10400-W, SANS 1475-2.	Hose Reel Installation
SANS 1109 / BS21 and ASIB	Pipe Threads
SANS 1186-1, SANS 1186-3, SANS 1186-5	Signage
SANS 1109-1	Pipe threads
SANS 1545	Lifts with person with disabilities
SANS 50081	Electric installation of lifts
SANS 10142	Wiring of Premises
SANS 10389	1-3 Exterior lighting.
SANS 1474	Uninterruptible Power Supplies
SANS 556-1	Low Voltage Switchgear Part 1 – Circuit Breakers
SANS 10313	The protection of structures against lightning
SANS 62305	Series 1 to 4: Protection against lightning
SANS 10199	The design and installation of earth rods
SANS 1063	Earth rods, couplers and connectors
SANS 10139	Fire detection and alarm systems for buildings – System design, installation and servicing
SANS 164-1, SANS 164-2.	Plug points and Sockets
SANS 1507 of 1990	Electric Cables
SANS 150	Electric Cables
SANS 1921-2: 2004:	Accommodation of Traffic
SANS 1200 A 1986	General
SANS 1200 AA 1986	General (Small Works)
SANS 1200 AB 1986	Engineer's Office
SANS 1200AD 1986	General (Small Dams).

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SANS1200AH 1986	General (Structural)
SANS 1200 C 1982	Site Clearance
SANS 1200 D 1990	Earthworks
SANS1200 DB 1990	Earthworks (Small Works)
SANS 1200 DB 1989	Earthworks (Pipe Trenches)
SANS 1200 DE 1984	Small Earth Dams
SANS 1200 DK 1996	Gabions and Pitching
SANS 1200 DM 1981	Earthworks (Roads, Sub grade)
SANS 1200DN 1982	Earthworks (Railway Sidings).
SANS 1200 F 1983	Piling
SANS 1200 G 1982	Concrete (Structural)
SANS 1200 GA 1982	Concrete (Small Works)
SANS 1200 GB 1984	Concrete (Ordinary Buildings)
SANS 1200 GE 1984	Precast Concrete (Structural)
SANS 1200 GF 1984	Prestressed Concrete
SANS 1200H 1990	Structural Steelwork
SANS 200HA 1990	Structural Steelwork (Sundry Items)
SANS 1200 HB 1985	Cladding and Sheeting
SANS 1200 HC 1988	Corrosion Protection of Structural Steelwork
SANS 1200 HE 1983	Structural Aluminium work
SANS 1200 L 1983	Medium-Pressure Pipelines
SANS 1200 LB 1983	Bedding (Pipes)
SANS 1200 LC 1981	Cable Ducts
SANS 1200 LD 1982	Sewers
SANS 1200 LE 1982	Storm water Drainage
SANS 1200 LF 1983	ERF Connections (Water).
SANS 1200 LG 1983	Pipe Jacking
SANS 1200 M 1996	Roads (General)
SANS 1200 ME 1981	Subbase
SANS 1200 MF 1981	Base
SANS 1200 MFL 1996	Base (Light Pavement Structures)
SANS 1200 MG 1981	Bituminous Surface Treatment
SANS 1200 MH 1996	Asphalt Base and Surfacing
SANS 1200 MJ 1984	Segmented Paving
SANS 1200 MK 1983	Kerbing And Channelling
SANS 1200 MM 1984	Ancillary Roadworks
SAN 1200 NB 1981	Railway Sidings (Trackwork)

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SANS 1921 (2004), Construction and Management Requirements for Works Contracts:	<ul style="list-style-type: none"> <li>- Part 1: General Engineering and Construction Works.</li> <li>- Part 2: Accommodation of Traffic on Public Roads Occupied by the Contractor.</li> <li>- Part 4: Third-party management requirements for works contracts.</li> <li>- Part 5: Earthworks activities which are to be performed by hand; and</li> <li>- Part 6: HIV/AIDS Awareness</li> </ul>
SABS 064, SABS 723, SABS 679, SABS 634.	- Fire Sprinkler Pipework
SABS 763	- Galvanising
SABS 150	- Electrical Cables
SABS 1238 of 1979.	- Ventilation Specification
SABS 1065, parts 1 and 2.	- Screwed metallic conduit and accessories
SABS 950.	- Non-metallic conduit and accessories
SABS 162, 763 and 1007	- Conduit and conduit accessories
: SABS 1197.	- Power trunking
EN1519.	- HDPE pipework
SABS 064, SABS 723, SABS 679, SABS 634.	- Fire Sprinkler Pipework
SABS 763	- Galvanising
SABS1165, SABS 0124	- Soil poisoning

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## 2 OTHER APPLICABLE STANDARDS

- Occupational Health and Safety Act (Act 85 of 1993), (as amended), including Regulations
- The Local Government Act 1998 (Act 10 of 1998 (Gauteng)) as amended and the municipal by- laws and any special requirements of the local supply authority.
- The Fire Brigade services Act 1993 Act 2000 (Act 14 of 2000) as amended,
- The National Building Regulations and Building Standards Act 1996 (Act 29 of 1996) as amended,
- The Electricity Act 1996 (Act 88 of 1996) as amended
- ACT 45: Atmospheric Pollution Prevention Act.
- ISO 9001
- ISO 14001
- ISO 21003
- ISO 1940-G6.3 standard for smooth air flow
- PRASA Specification Document V5 310102\_11 May 2016
- Annexure 14\_PRASA CCTV System
- NGS\_2014 – 11 – 07
- BS848 Parts 1 and 2 for aerodynamic and acoustic performance.