



A division of Transnet limited (SOC)

RAIL NETWORK TECHNICAL SPECIFICATION

Specification for Binoculars

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1.0 INTRODUCTION

- 1.1 Binoculars are optical instrument usually handheld for providing a magnified stereoscopic view of distant objects.

2.0 SCOPE

- 2.1 This specification specifies and provides the requirements of Binoculars to be purchased by Transnet Freight Rail.
- 2.2 This specification shall only be used for the procurement of Binoculars for magnifying distant objects, making them easier to see when operating on site.

3.0 REQUIREMENTS

3.1 General requirements

- 3.1.1 The equipment shall be able to operate in harsh environments and be made with a material offering excellent water resistance.
- 3.1.2 The equipment should be capable of operating at temperatures ranging from -1°C to 50°C.

3.2 Technical and functional requirement

The technical and functional requirements of the Equipment shall be as the following:

Specification	
Objective Lens Diameter	50mm
Eyepiece diameter	23mm
Material	Plastic
Design	Cylindrical
Magnification	20x
Actual magnification	10x
Angle	8.2 degree

Minimum focusing distance	5.0m
field of view	168FT/1000YDS
Water Resistance Level	IPX7
Lens Coating Description	FMC
Color	Black
Relative brightness	25.00
Prism system	BAK4
Weight	Light weight

5.0 PACKAGING

5.1 The Equipment shall be provided with a case, strap, and cleaning cloth.

6.0 GENERALS

6.1 This equipment shall be made based on this specification and SANS/ISO approved specifications or any other internationally approved inspection authority.

6.2 The manufacturer shall give warranty for satisfactory operation of the equipment. The warranty will not cover any accidental mechanical damage to the Equipment.