

TRANSNET ENGINEERING

Research and Development (R&D)

SPECIFICATION

Specification for the Supply of AI-enabled Cameras and Equipment

Revision 01

Date of Release
February 2026

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R&D_KDS_SPEC_2014

SUMMARY OF REVISION

First issue: February 2026

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The following revisions have been made to this version:

Change	Description
00	Initial document release.
01	Updated Table 2 Scope of deliverables

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1 Introduction

Transnet Engineering, Research and Development (TE R&D) is investigating the use of AI for condition monitoring and enhanced security. As part of the research process, commercial off-the-shelf (COTS) cameras and equipment are required. The camera system is expected to deliver advanced edge-based AI analytics, high-resolution imaging, and reliable operation across a wide range of environmental conditions.

This specification captures the technical requirements and deliverables for the supply of Commercial-Off-The-Shelf (COTS) cameras, pole mounts and camera lenses.

Table 1. outlines the outcomes of this specification.

Table 1: Specification Outcomes

#	Specification Requirement	Required
1	Provision of the <u>required quantity</u> of cameras	✓
2	Provision of the <u>required quantity</u> of pole mount brackets	✓
3	Provision of the <u>required quantity</u> of camera lenses	✓

2 Scope of Deliverables

The respondent shall note that Table 2 below provides all the required deliverables as part of this specification, including the associated quantities:

Table 2: Scope of Deliverables

#	Scope of Deliverables		Quantity
	Deliverable	Description of Deliverable	
D.1	Camera	HikVision 4MP DeepinView ANPR Moto Varifocal Bullet Camera - iDS-2CD7A46G2/P-IZHS(Y)/(5G) – 8-32mm	1
D.2	Camera	HikVision 4MP DeepinView ANPR Moto Varifocal Bullet Camera - iDS-2CD7A46G2/P-IZHS(Y)/(5G) – 2.8-12mm	1
D.3	Bracket for mounting the	Pole mounting Bracket Part Number: DS-1475ZJ-SUS	2

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	camera (D.1) on a pole		
D.4	VA Imaging Camera Lens	VA Imaging LENS C-mount 10MP 35MM F2.8 2/3 inch NON DISTORTION Part Number: VA-LCM-10MP-35MM-F2.8-015	1
D.5	Kowa Camera Lens	Kowa LM35JC 2/3" 35mm MP C-Mount Lens Product number: 10226	1
D.6	Documentation	Technical Datasheet of the camera (D.1) Technical Datasheet of the mounting bracket (D.2) Technical datasheet for (D.3) and (D.4)	As applicable
D.7	Delivery	Delivery of all required equipment and documentation to the delivery address provided in section 3.1.2 of this specification.	Not Applicable
D.8	Cost Breakdown	Delivery of cost breakdown per item in Table 2.	As applicable

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3 General Requirements

3.1 Delivery

3.1.1 Delivery of all items quoted shall be included within the offer of the supplier.

3.1.2 All items shall be delivered to the following address:

Bay 8 (West), Transnet Engineering Koedoespoort Depot,
Corner of Lynette Street and Koedoespoort Road,
Koedoespoort,
Pretoria,
0184.

3.1.3 Please confirm the Transnet representative (engineer/quality officer/stock controller) who needs to receive the goods with the supply chain representative before delivery.

3.2 Lead Time

3.2.1 The supplier shall provide lead times for delivery on all items quoted on.

3.2.2 It is however a strict requirement that the lead time for complete delivery not exceed six (6) weeks from the date of the purchase order.

3.3 Documentation

3.3.1 All technical datasheets, manuals and brochures and shall be provided as part of the bidder's response. This will aid Transnet Engineering in the adjudication of the bidder's response against the deliverables specified.

3.3.2 The cost breakdown per item in Table 2 shall be provided as part of the bidder's response. This will aid Transnet Engineering in the adjudication of the bidder's price breakdown against market-related prices.

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3.4 Clarification

- 3.4.1 Should any void or uncertainty exist within any clause throughout this specification, the supplier is at liberty to contact Transnet Engineering through the Supply Chain Services department, within Transnet Engineering via e-mail.

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Document Signatories

All parties involved in the development of this specification acknowledge that they have read, understood and are committed to the contents of this specification. Everyone certifies that the information contained herein is valid and accurate.

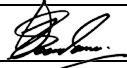
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