



prasa

PASSENGER RAIL AGENCY
OF SOUTH AFRICA

PRASA ROLLING STOCK

Annexure 2

AFRO4000 LOCOMOTIVE

REAR VIEW CAMERA SYSTEM

SPECIFICATION FOR THE 2

CABS OF 3 LOCOMOTIVES

(Supply and Installation of the Camera System)

TECHNICAL SPECIFICATION OF REAR-VIEW CAMERA SYSTEM

Camera with display dashboard for the rearview of the Driver and Assistant Driver on the three (3) AFRO4000 locomotives in both Cabs		
Description	Specification – Minimum Requirements	Comply- Y/N
12 channel main unit, 2TB Solid state storage device, universal mounting bracket, dual pole 10 amp breaker and key.	Main Recording Unit (Per Set) • 12-channel mobile video recorder (MVR/NVR) suitable for rail vehicle installation • Minimum 2TB solid-state storage (SSD) • Universal mounting bracket suitable for vibration environments • Dedicated dual-pole 10A circuit breaker and lockable isolator (keyed), or equivalent	
Twin view HD Camera with fixed 100 and 20 FOV lenses, 2 nd Gen, Forward view: Twin view HD Camera splitter 130 (30ft), Twin view mountings brackets (adjustable).	Forward View Camera System • Forward-facing dual-lens HD camera with two fixed FOV options: • Wide angle: $\pm 100^\circ$ • Narrow angle: $\pm 20^\circ$ • Compatible camera interface/splitter including cable length 30ft ($\pm 9m$) • Adjustable mounting bracket(s)	
HD Wedge Camera w/IR and microphone, camera cable M12 to M12 NFPA (40ft), Camera cable M12 to M12 NFPA (90ft) Rear/Side/Coupler View: HD Wedge Camera w/IR and microphone, Camera cable M12 to M12 NFPA 130 (40ft), Camera cable M12 to M12 NFPA 130 (90ft).	Rear / Side / Coupler View Cameras • HD wedge-form factor camera with IR illumination and integrated microphone • M12 to M12 industrial camera cable, fire-rated to NFPA 130 or equivalent: • 40ft ($\pm 12m$) • 90ft ($\pm 27m$)	

External Microphone for Horn/ Bell: Ext, Microphone Box W/4P, 3ft Microphone cable.	External microphone suitable for outdoor horn/bell capture • Microphone interface box with 4-pin connection • Microphone cable 3ft (±1m)	
Cab/Crew View: HD 360 Fisheye camera w/IR and microphones (View the whole control cabin), Camera cable M12 to M12 NFPA 130 (30ft).	Cab/Crew View Camera • 360° fisheye HD camera with IR and integrated microphone(s) • Coverage to allow full cab view (driver and crew area) • M12 to M12 industrial camera cable, fire-rated to NFPA 130 or equivalent: • 30ft (±9m)	
<i>The bidder must provide a valid warranty certificate for the equipment supplied, with a minimum warranty period of twelve (12) months from date of acceptance/delivery. The bidder must also provide an option to extend the warranty for an additional six (6) months. The warranty documentation must clearly define the support procedure, including fault logging process, contact details, response and repair/turnaround timeframes, and must specify what is covered and excluded under the warranty (including parts, labour, call-out, replacements, and transport/shipping if applicable).</i>		

Non-compliant to the above-mentioned Specification will lead to the bidder being disqualified at this stage.