



Technical Requirement Specification: 4x4 and 4x2 Extended Cabin Vehicles (Bakkie)

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1 SCOPE

The scope of this specification is limited to 4x4 and 4x2 **Extended Cabin** vehicle requirements to be used for Broadband Infraco Operations and Maintenance (O&M) employees to perform their duties.

The vehicle will be used by field maintenance staff for network maintenance activities, which involves travelling to remote network sites to conduct but not limited to the following activities:

- Preventative maintenance;
- Corrective/reactive maintenance;
- Planned maintenance;
- Site surveys;
- Service provisioning;
- Etc.

All activities are performed using various work/test tools and equipment; and thus, the vehicle must have extra cabin space.

2 REFERENCE DOCUMENTATION

N/A

3 DEFINITIONS, ABBREVIATIONS AND ACRONYMS

3.3 Definitions

Word	Meaning
4x4	Four-wheel drive, 4WD, or 4x4 ("four by four") is a four-wheeled vehicle with a drivetrain that allows all four wheels to receive torque from the engine simultaneously. Powering all four wheels provides better control on many surfaces.
4x2	Two-wheel drive, 2WD, or 4x2 ("four by two") describes vehicles with a drivetrain that allows two wheels to receive power from the engine simultaneously. 4x2 vehicles are in fact 4x4 vehicles with only two wheels receiving power from the engine and thus have most other off-road type features as 4x4 vehicles.
ABS	An anti-lock braking system (ABS) is a safety system that allows the wheels on a vehicle to continue interacting tractively with the road surface as directed by driver steering inputs while braking, preventing the wheels from locking up (that is, ceasing rotation) and therefore avoiding skidding.

Word	Meaning
Air conditioner	An air conditioner (AC) is a system or mechanism designed to dehumidify and extract heat from an area. The cooling is performed using a simple refrigeration cycle. Its purpose is to provide comfort during either hot or cold weather.
Active tracking system	An active tracking system collect various parameters/incidents and information of the vehicle and transmit the data in near-real-time via cellular-and/or satellite networks to a computer or data center for evaluation
Bull-bar	A bull-bar or nudge bar is a device fitted to the front of a vehicle to protect it and its passengers from damage in a collision with an animal. They vary considerably in size and form and are usually made of welded steel or aluminium tubing, and, more recently, moulded polycarbonate and polyethylene materials.
Carbon dioxide	Carbon dioxide (CO2) makes up the largest share of "greenhouse gases". The addition of man-made greenhouse gases to the atmosphere disturbs the earth's radiative balance. This is leading to an increase in the earth's surface temperature and to related effects on climate, sea level rise and world agriculture.
Diff-lock	A, diff-lock, locking differential or locker is a variation on the standard differential. A locking differential may provide increased traction compared to a standard, or "open" differential by restricting each of the two wheels on an axle to the same rotational speed without regard to available traction or differences in resistance seen at each wheel.
EBD	Electronic brake-force distribution (EBD or EBFD), Electronic brake-force limitation (EBL) is a brake technology that automatically varies the amount of force applied to each of a vehicle's brakes, based on road conditions, speed, loading, etc. Always coupled with anti-lock braking systems, EBD can apply more or less braking pressure to each wheel in order to maximize stopping power whilst maintaining vehicle control.
Extended Cabin	Additional space inside the cabin for storing other items behind the driver and passenger seats. Must be fitted with supplier purposely manufactured lockable load/luggage bin at the back of the driver and passenger seats.

Word	Meaning
Front fog lamps	Front fog lamps provide a wide, bar-shaped beam of light with a sharp cut-off at the top and are generally aimed and mounted low. They may be either white or selective yellow. They are intended for use at low speed to increase the illumination directed towards the road surface and verges in conditions of poor visibility due to rain, fog, dust or snow.
Gatekeeper requirement	Gatekeeper requirement refers to a requirement which Infraco sees as a critical criterion. Compliance to this criteria/s is non-negotiable and any product and/or item non-compliant to these criteria shall not be considered in the bid evaluation.
Ground clearance	Ground clearance, ride height or clearance is the amount of space between the base of a vehicle tyre and the underside of the chassis; or, more properly, to the shortest distance between a flat, level surface, and any part of a vehicle other than those parts designed to contact the ground (such as tyres, tracks, skis, etc.). Ground clearance is measured with standard vehicle equipment and is usually given with no cargo or passengers.
Immobiliser	An immobiliser is an electronic device fitted to an automobile which prevents the engine from running unless the correct key (or another token) is present. This prevents the car from being "hotwired" after entry into the vehicle has been achieved.
Manual transmission	A manual transmission , also known as a manual gearbox or standard transmission is a type of transmission used in motor vehicle applications. It generally uses a driver-operated clutch, typically operated by a foot pedal for regulating torque transfer from the internal combustion engine to the transmission, and a gear lever operated by hand.
Power Steering	Power steering assists a driver to steer a vehicle by augmenting the steering effort of the steering wheel. It does this by adding controlled energy to the steering mechanism, so the driver needs to provide only modest effort regardless of conditions.
Roll-bar	A roll-bar or roll-over bar , is a single bar placed between the cab and load area of a vehicle that provides roll-over protection.

Word	Meaning
Smash and grab	Smash and grab attack or simply a smash and grab is a particular form of burglary. The distinctive characteristic of a smash and grab, that distinguishes it from other forms of burglary, are its elements of speed and surprise. A smash and grab related to vehicles involves smashing a vehicle and/or canopy window, grabbing valuables, and then making a quick getaway.

3.4 Abbreviations and Acronyms

Acronym	Description
ABS	Anti-lock Braking System
AC	Air Conditioner
CO ₂	Carbon Dioxide
CD	Compact Disc
EBD	Electronic Brake-force Distribution)
LED	Light Emitting Diode
LWB	Long Wheel Base
O&M	Operations and Maintenance
SABS	South African Bureau of Standards
SHE	Safety, Health and Environmental
SHEQ	Safety, Health and Environmental and Quality
VSS	Vehicle Security System

To find Acronym expansions go to <http://www.acronymfinder.com/>

4 GENERAL INFORMATION

4.1 Key Indications

Each requirement of the technical specification carries a letter appended at the end, with the following meanings:

- [I]** Information
- [GK]** Gate Keeper
- [M]** Mandatory

5 TECHNICAL REQUIREMENTS

The technical requirements of the vehicle are described in the following sections.

5.1 General

- 5.1.1 Vehicle shall be brand new and no second-hand vehicle will be considered. [GK]
- 5.1.2 All vehicles shall be white in colour. [GK]
- 5.1.3 A technical statement of compliance as per Appendix A of this specification shall be submitted in full of the bid responses. If no statement of compliance is found and/or only a partially completed form, and/or a contradiction with the supplied brochure, Broadband Infraco shall consider those specific points as being non-compliant to the specification. [GK]
- 5.1.4 Only one offer meeting the functional technical requirements must be offered per requirement and multiple vehicle options per requirement will be considered as non-compliant. [I]
- 5.1.5 All bids shall be submitted with the relevant brochures and product/vehicle technical support documentation. In the event of no brochures and/or supporting documentation not being submitted, this shall be judged by Broadband Infraco as non-compliant to that specific aspect. [GK]
- 5.1.6 If a vendor indicates "comply" in the statement of compliance, reference to the specific paragraph/point in the brochure and/or support documentation shall be made. In the event of no reference being made and/or found by Broadband Infraco, this specific point shall be seen by Broadband Infraco as non-compliant to that specific aspect. [GK]
- 5.1.7 Broadband Infraco's requirements are for two vehicle types with vehicle 1 to be a 4x4 vehicle and vehicle 2 to be compliant to the same requirements but being a 4x2 vehicle. [GK]

5.2 Vehicle Specifications

- 5.2.1 The engine description shall have the following minimum specifications:
- 5.2.1.1 Fuel type: Diesel; [GK]
- 5.2.1.2 Engine displacement (cc): ≥ 2750 ; [GK]
- 5.2.1.3 Fuel injection system: Multipoint; and [GK]
- 5.2.1.4 Fuel tank capacity (ℓ): ≥ 75 . [GK]
- 5.2.2 The engine performance shall have the following minimum specifications:
- 5.2.2.1 Maximum power (kW @ r/min): $\geq 125 @ 3400$; [GK]
- 5.2.2.2 Torque (Nm @ r/min): $\geq 350 @ 1400-2600$; [GK]
- 5.2.2.3 CO₂ Emission (g/km): 250; and [M]
- 5.2.2.4 Emissions category: Euro 2 without OBD. [M]

- 5.2.3 The technical, comfort and convenience specifications shall meet the following:
- 5.2.3.1 Transmission: 5-Speed manual; [GK]
 - 5.2.3.2 Drive type: Two (2) wheel or (4) wheel drive as specified; [M]
 - 5.2.3.3 Leaf spring-rigid rear suspension; [M]
 - 5.2.3.4 Double wishbone front suspension; [M]
 - 5.2.3.5 Power steering; [M]
 - 5.2.3.6 Front and rear fog lights; [M]
 - 5.2.3.7 The vehicles shall be equipped with an effective air-conditioner system with both cooling and heating capabilities; [M]
 - 5.2.3.8 Must be fitted with supplier purposely manufactured lockable load/luggage bin at the back of the driver and passenger seats; [GK]
 - 5.2.3.9 Seats upholstery shall be resilient cloth type material; and [M]
 - 5.2.3.10 Driver and passenger seats fold forward. [GK]
- 5.2.4 The vehicle dimensions shall have the following minimum specifications:
- 5.2.4.1 Extended cabin; [GK]
 - 5.2.4.2 The vehicles' headlamps, and front fog lights (if possible) should be protected with adequate headlamp covers; [M]
 - 5.2.4.3 Towing capacity: $\geq 2500\text{kg}$; [GK]
 - 5.2.4.4 Both vehicles types should be long-wheel base with a wheelbase of $\geq 3000\text{mm}$; [GK]
 - 5.2.4.5 Ground clearance (mm): ≥ 210 . [GK]
- 5.2.5 The load bin shall have the following minimum dimensions and features:
- 5.2.5.1 Rubberised; [M]
 - 5.2.5.2 Load bin custom designed and fitted heavy duty woven mat; [M]
 - 5.2.5.3 Tie-brackets outside load bed for attaching cargo (exterior): ≥ 8 ; and [M]
 - 5.2.5.4 Tie-brackets on load bed for attaching cargo (floor): ≥ 6 . [M]

5.3 Vehicle Safety and Security

The vehicle should be equipped with the following minimum safety features as standard:

- 5.3.1 Driver airbag; [GK]
- 5.3.2 Passenger airbag; [GK]
- 5.3.3 The vehicle shall be equipped with an ABS braking system; [M]
- 5.3.4 Remote central locking system for all cabin doors; [M]
- 5.3.5 Anti-theft electronic encoded safety system, activated by transponder; [M]
- 5.3.6 The vehicle's braking system shall consist of a brake disc at the front and a brake drum for the rear wheels; [M]

- 5.3.7 The vehicles' windows shall be equipped with a clear tinted anti-smash and grab safety film. These films should increase the strength of the windows and help prevent injury from glass shatters caused by smash-and-grab attacks; [M]
- 5.3.8 The vehicle should preferably have an EBD or similar braking stability mechanism to ensure safer braking under emergency conditions or on slippery surfaces;

5.4 Fitted Accessories [M]

The vehicle should be equipped with the following minimum accessories: [M]

- 5.4.1 The vehicle shall be equipped with a radio and CD player;
- 5.4.2 Bluetooth connectivity as a fixed item to ensure that one can communicate via cell phone always while driving; [M]
- 5.4.3 The vehicle shall be equipped with "heavy duty" carpets for the driver and the passenger; [GK]
- 5.4.4 The vehicle shall be equipped with immobilisers and anti-jamming device to hinder theft. Minimum requirement for the immobiliser is a VSS level 4; [GK]
- 5.4.5 The vehicle shall be equipped with a SABS approved tow bar. The vehicle and the tow bar shall be certified to pull a braked trailer with a total weight of at least 2500kg; and [M]
- 5.4.6 Steel First Aid box fitted behind passenger seat.

5.5 Canopy Specifications [GK]

Fitted with canopy complying to the following specifications: [GK]

- 5.5.1 Fibreglass; [GK]
- 5.5.2 Matching white colour of vehicle; [GK]
- 5.5.3 Three (3) pop-up doors; i.e. one each at back and both sides (refer to Figure 1 and 2); [M]
- 5.5.4 Only rear door must be fitted with fixed window;
- 5.5.5 The canopy rear door window should be equipped with a clear tinted anti-smash and grab safety film. These films should increase the strength of the windows and help prevent injury from glass shatters caused by smash-and-grab attacks; [M]
- 5.5.6 Water proof door hinges - prevents rain water dripping in when door is open; [M]
- 5.5.7 Security bars in inside of glass window in back door;
- 5.5.8 Each door be equipped with two (2) heavy-duty Flush Mount T-Handle Locks and heavy-duty door handles; [M]
- 5.5.9 3rd Brake light; [M]
- 5.5.10 Weather proof;
- 5.5.11 Low profile galvanised roof rack with sliding rollers and ladders attachment brackets/mechanism. Must be able to accommodate 3m extension ladders; [M]
- 5.5.12 Fitment brackets fasten to manufacturer's load points on the load bin; and [M]
- 5.5.13 High quality gas struts.



Figure 1



Figure 2

5.6 Safety, Health and Environmental (SHE) related accessories

The vehicle should be equipped with the following minimum safety features as standard:

- 5.6.1 Be equipped with 2.5kg CO₂ fire extinguisher securely mounted in the corner behind the seat nearest to the driver position door opening by means of fixed bracket to body; [M]
- 5.6.2 Be equipped with 2.5kg CO₂ fire extinguisher securely mounted in the left-hand corner of load bin nearest to load bin door opening by means of fixed bracket to body; [M]
- 5.6.3 Shall be equipped with fixed amber SABS approved LED Caution/Emergency roof mounted light:
 - 5.6.3.1 On/off switch shall be dash mounted and inside cabin; [GK]
 - 5.6.3.2 Approximately 350mm in length (bar type); and [M]
 - 5.6.3.3 No loose or visible wiring inside cabin. [M]
- 5.6.4 Apply **Dark Green** homologated retro-reflective marking tape: [M]
 - 5.6.4.1 Marking tape must have width of 50mm; [M]
 - 5.6.4.2 Must carry the compulsory “E-mark”, meet all the requirements of regulation ECE R104, classified as C-class (meaning they are the brightest markings permitted by the regulations), resistant to peeling and other damage and must retain their brightness and colour even in the harshest working conditions; [M]
 - 5.6.4.3 Will be mounted approximately 100mm in horizontal position from bottom of door on both sides of vehicle and will cover full length of vehicle; [M]
 - 5.6.4.4 Reflective marking tape position on vehicles will be confirmed by Broadband Infraco SHEQ and Marketing departments with successful bidder once brand and model of vehicle has been established. [M]

5.7 Warrantee, maintenance and services (applicable to purchase offer)

- 5.7.1 A manufacturer’s warranty of at least 6 years/150 000km upon delivery; [GK]
- 5.7.2 Extended warrantee option should be available upon request and be priced separately; [GK]
- 5.7.3 Part of the purchase contract shall include a service plan of minimum 3 years/90 000km. The service branches should be available across the country and a full list of all services branches should be made available; [GK]
- 5.7.4 Extended service plan options should be available upon request and be priced separately; [GK]
- 5.7.5 A manufacturer’s anti-corrosion warranty of 6 years/150 000km upon delivery; [GK]
- 5.7.6 If a vendor can offer a maintenance plan, the relevant detail and pricing should be made available with the bid responds as Broadband Infraco also will consider maintenance plan options; and [I]

5.8 Branding

Both vehicle types should be clearly branded to ensure enough identification of the vehicle as a Broadband Infraco vehicle and should comply with the following requirements:

- 5.8.1 The branding, company logo and name and ISO:9001 Certification logo, should, in all aspects, comply with Broadband Infraco brand logo and brand requirements in respect of logo, wording, spacing and colouring; [I]
- 5.8.2 The branding should be clearly printed on adhesive vinyl as specifically intended for vehicles; [I]
- 5.8.3 The branding should be displayed on both sides of the vehicle on the doors as well as at the right rear of the loading bin lid (positions to be confirmed); [I]
- 5.8.4 The branding should be no larger than A3 (297mm x 420mm) in size; [I]
- 5.8.5 The branding should comply to Broadband Infraco and ISO:90001 corporate colours; [I]
- 5.8.6 Final approval shall be obtained from Broadband Infraco’s Marketing and SHEQ Managers before branding takes place. [I]

5.9 Delivery

The vehicle shall be delivered to the specific location as identified by Broadband Infraco. Delivery pricing schedule should be supplied indicating the delivery charges, if applicable.

6 INSPECTION

Broadband Infraco shall inspect and approve all vehicles before any delivery is made to the company.

END

APPENDIX A: TECHNICAL STATEMENT OF COMPLIANCE/NONCOMPLIANCE (TO BE FILLED IN BY ALL BIDDERS)

Please indicate the specific vehicles which are offered.

Offered vehicle	Manufacturer	Model	Model name	Model code (where available)	Year Model
Vehicle 1					
Vehicle 2					
<i>Example</i>	<i>Hyundai</i>	<i>Getz</i>	<i>1.4 GL MANUAL</i>		<i>2011</i>

Gate Keepers

Reference	Requirement	Comply/ Non-comply/ Comments	Reference in documentation
5.1.1	Vehicle shall be brand new and no second-hand vehicle will be considered.		
5.1.2	All vehicles shall be white in colour.		
5.1.3	A technical statement of compliance as per Appendix A of this specification shall be submitted in full of the bid responses. If no statement of compliance is found and/or only a partially completed form, and/or a contradiction with the supplied brochure, Broadband Infraco shall consider those specific points as being non-compliant to the specification.		
5.1.5	All bids shall be submitted with the relevant brochures and product/vehicle technical support documentation. In the event of no brochures and/or supporting documentation not being submitted, this shall be judged by Broadband Infraco as non-compliant to that specific aspect.		

5.1.6	If a vendor indicates “comply” in the statement of compliance, reference to the specific paragraph/point in the brochure and/or support documentation shall be made. In the event of no reference being made and/or found by Broadband Infraco, this specific point shall be seen by Broadband Infraco as non-compliant to that specific aspect.		
5.1.7	Broadband Infraco’s requirements are for two vehicle types with vehicle 1 to be a 4x4 vehicle and vehicle 2 to be compliant to the same requirements but being a 4x2 vehicle.		
5.2.1.1	Fuel type: Diesel		
5.2.1.2	Engine displacement (cc): ≥2750		
5.2.1.3	Fuel injection system: Multipoint		
5.2.1.4	Fuel tank capacity (ℓ): ≥75		
5.2.2.1	Maximum power (kW @ rpm): ≥125 @ 3400		
5.2.2.2	Torque (Nm @ rpm): ≥350 @ 1400-2600		
5.2.3.1	Transmission: 5-Speed manual		
5.2.3.8	Must be fitted with supplier purposely manufactured lockable load/luggage bin at the back of the driver and passenger seats		
5.2.3.10	Driver and passenger seats fold forward.		
5.2.4.1	Extended cabin		
5.2.4.3	Towing capacity: ≥2500kg		
5.2.4.4	Both vehicles types should be long-wheel base with a wheelbase of ≥3000mm		
5.2.4.5	Ground clearance (mm): ≥210		
5.3.1	Driver airbag		
5.3.2	Passenger airbag		
5.4.4	The vehicle shall be equipped with immobilisers and anti-jamming device to hinder theft. Minimum requirement for the immobiliser is a VSS level 4		

5.4.5	The vehicle shall be equipped with a SABS approved tow bar. The vehicle and the tow bar shall be certified to pull a braked trailer with a total weight of at least 2500kg		
5.5.1	Fibreglass		
5.5.2	Matching white colour of vehicle		
5.5.3	Three (3) pop-up doors; i.e. one each at back and both sides		
5.5.4	Only rear door must be fitted with fixed window		
5.6.3	Shall be equipped with fixed amber SABS approved LED Caution/Emergency roof mounted light		
5.7.1	A manufacturer's warranty of at least 6 years/150 000km upon delivery		
5.7.2	Extended warrantee option should be available upon request and be priced separately		
5.7.3	Part of the purchase contract shall include a service plan of minimum 3 years/90 000km. The service branches should be available across the country and a full list of all services branches should be made available		
5.7.4	Extended service plan options should be available upon request and be priced separately		
5.7.5	A manufacturer's anti-corrosion warranty of 6 years/150 000km upon delivery		

Technical Requirements

Specification	Key	Fully compliant/ Non-compliant/ Noted	Comments (if applicable)	Actual Value/performance	Supporting documentation/ brochure reference
5.1 General					
5.1.1	GK				
5.1.2	GK				
5.1.3	GK				
5.1.4	I				
5.1.5	GK				

5.1.6	GK				
5.1.7	GK				
5.2 Vehicle Specifications					
5.2.1.1	GK				
5.2.1.2	GK				
5.2.1.3	GK				
5.2.1.4	GK				
5.2.2.1	GK				
5.2.2.2	GK				
5.2.2.3	M				
5.2.2.4	M				
5.2.3.1	GK				
5.2.3.2	M				
5.2.3.3	M				
5.2.3.4	M				
5.2.3.5	M				
5.2.3.6	M				
5.2.3.7	M				
5.2.3.8	GK				
5.2.3.9	M				
5.2.3.10	GK				
5.2.4.1	GK				
5.2.4.2	M				
5.2.4.3	GK				
5.2.4.4	GK				
5.2.4.5	GK				
5.2.5.1	M				
5.2.5.2	M				
5.2.5.3	M				
5.2.5.4	M				
5.3 Vehicle Safety and Security					
5.3.1	GK				
5.3.2	GK				
5.3.3	M				
5.3.4	M				
5.3.5	M				
5.3.6	M				
5.3.7	M				

5.3.8	M				
5.4 Fitted Accessories					
5.4.1	M				
5.4.2	M				
5.4.3	M				
5.4.4	GK				
5.4.5	GK				
5.4.6	M				
5.5 Canopy Specifications					
5.5.1	GK				
5.5.2	GK				
5.5.3	GK				
5.5.4	GK				
5.5.5	M				
5.5.6	M				
5.5.7	M				
5.5.8	M				
5.5.9	M				
5.5.10	M				
5.5.11	M				
5.5.12	M				
5.5.13	M				
5.6 Safety, Health and Environmental (SHE) related accessories					
5.6.1	M				
5.6.2	M				
5.6.3	GK				
5.6.3.1	M				
5.6.3.2	M				
5.6.3.3	M				
5.6.4.1	M				
5.6.4.2	M				
5.6.4.3	M				
5.6.4.4	M				
5.7 Warrantee, maintenance and services (applicable to purchase offer)					
5.7.1	GK				
5.7.2	GK				
5.7.3	GK				
5.7.4	GK				

5.7.5	GK				
5.7.6	I				
5.8 Branding					
5.8.1	I				
5.8.2	I				
5.8.3	I				
5.8.4	I				
5.8.5	I				
5.8.6	I				