

## **SPECIFICATION RT57-01 AND RT57-02**

### **DOG CAGES IN SEDANS AND CONVERSION OF LDV CANOPIES INTO DOG CAGES**

**Dog Cages in: sedan / hatchback motor vehicles, dog Canopies in LDV'S: Super Cab 4x4 and 4x2, Single Cab 4x4 and 4x2, Double Cab 4x4 and 4x2**

#### **1. General**

- 1.1. The South African Police Service requires dog cages be professionally installed in the above-mentioned vehicles.
- 1.2. The installation or conversion must not damage the appearance and functioning of the vehicle in any manner.
- 1.3. The entire cage structure must be removable and transferable to another vehicle of the same model.

Particulars of offer: \_\_\_\_\_

- 1.4. All joints must be rendered waterproof by welding and rust proofing by zinc chromate sealant. Installation must be done in such a manner that there will be no water leaks.

Particulars of offer: \_\_\_\_\_

- 1.5. All metals must be free from sharp edges.

Particulars of offer: \_\_\_\_\_

- 1.6. All metal must be painted black and powder coated.

Particulars of offer: \_\_\_\_\_

- 1.7. All vehicle parts removed during the installation process must be returned to SAPS for disposal (e.g. Seats; door panels etc.)

Particulars of offer: \_\_\_\_\_

#### **2. Detailed Drawings (for both requirements)**

- 2.1. Detailed 2D and 3D layout drawings with dimensions of the cages signed by a qualified engineer registered with the ECSA and the engineer certificate must be submitted together with bid documents. Failure to submit the drawings will invalidate the bid.

Particulars of offer: \_\_\_\_\_

#### **3. Notice to bidder**

- 3.1. Paint applicators must guard against contamination between the primer and the top coating. A solvent must be used to clean the primer area properly before the top coat is applied.

Particulars of offer: \_\_\_\_\_

#### **4. Workmanship & Material:**

- 4.1. Material must be new and of the appropriate grade and size. Workmanship and finish must be in accordance with high quality Trade practice.
- 4.2. Welds, whether paced or full, must be free from any slag inclusions and must have no porosity.
- 4.3. Any cavities where dirt may collect, must be sealed with silicon sealer or equivalent.

Particulars of offer: \_\_\_\_\_

#### **5. Accessories:**

- 5.1. A removable rubber mat equal to conveyer belt must be provided for the floor of each dog cage to enable the dog to sit comfortably.

Particulars of offer: \_\_\_\_\_

- 5.2. The first-off unit shall be considered as a prototype and shall be subjected to inspection and acceptance by the end user.

Particulars of offer: \_\_\_\_\_

- 5.3. All further units manufactured shall be manufactured in a similar manner to that of the approved prototype. Failure to comply will result in non-acceptance of the product.

Particulars of offer: \_\_\_\_\_

- 5.4. The successful bidder will be responsible for carrying out all necessary pre-inspection tests. If problems exist after inspection as specified then the cost of all further inspections will be carried by the successful bidder.

Particulars of offer: \_\_\_\_\_

#### **6. Guarantees**

- 6.1. All work must be guaranteed according to the General Conditions of Contracts.

#### **Requirement: Sedans / Hatchback motor vehicles**

##### **1. General**

- 1.1. The rear seats and inside door panels must be removed.
- 1.2. The rear door windows must operate in the same manner as prior the modification.

Particulars of offer: \_\_\_\_\_

- 1.3. A solid aluminium base of adequate strength to support the weight of two dogs, must line the inside of the vehicle at the rear.

Particulars of offer: \_\_\_\_\_

- 1.4. This base must cover the entire area from the rear (below the hatch window) downwards to the front and up against the rear of the front seats to the roof.

Particulars of offer: \_\_\_\_\_

- 1.5. The base where the dogs will sit, stand or lie down must be flat.

Particulars of offer: \_\_\_\_\_

- 1.6. The roof of the vehicle must also be covered with aluminium base.

Particulars of offer: \_\_\_\_\_

- 1.7. If the fuel tank is situated underneath the dog cage, both cages must have an access hatch to gain access to the fuel tank.

Particulars of offer: \_\_\_\_\_

- 1.8. The base must be fixed to the chassis and body of the vehicle. It must be properly sealed between the base and door frames to enable the cages to be cleaned with a hose.

Particulars of offer: \_\_\_\_\_

- 1.9. An aluminium flat expanded metal mesh screen 4.5mm with an aperture 50mm x 25mm must be fitted to both rear door windows.

Particulars of offer: \_\_\_\_\_

- 1.10. A perforated clear polycarbonate window of 800mm (L) x 250mm (W) x 5mm must be fitted with rubber seals into the rear cage panel to prevent the seepage of dog hair into the vehicle.

Particulars of offer: \_\_\_\_\_

- 1.11. An aluminium flat expanded metal mesh screen 4.5mm with aperture 50mm x 25mm must be fitted on the inside of the cage covering the window as referred to in paragraph 2.10. However, the screen must be positioned about 30mm away from the window to enable cleaning.

Particulars of offer: \_\_\_\_\_

- 1.12. Both rear inside door panels must be replaced with aluminium panels. The panels must follow the contour, size and shape of the originally manufactured door panel to protect existing door mechanisms.

Particulars of offer: \_\_\_\_\_

- 1.13. The panel must have a removable waterproof access hatch to gain access to the door / window electronics, if required.

Particulars of offer: \_\_\_\_\_

- 1.14. The cage unit must be divided into two equal compartments to allow for each dog to be accommodated.

Particulars of offer: \_\_\_\_\_

- 1.15. The division referred to in paragraph 2.14 must be constructed from solid aluminium plate of adequate strength and fitted as wind guards to the lower part below window height.

Particulars of offer: \_\_\_\_\_

- 1.16. An aluminium flat expanded metal mesh screen 4.5mm with aperture 50mm x 25mm must be fitted to the upper part above window height to the roof all in an aluminium frame.

Particulars of offer: \_\_\_\_\_

- 1.17. A perforated clear polycarbonate window of 700mm (L) x 548mm (W) x 5mm must be fitted with rubber seals into the front cage panel between the front seats in the vertical part of the base which runs upwards behind the seats.

Particulars of offer: \_\_\_\_\_

- 1.18. An aluminium flat expanded metal mesh screen 4.5mm with aperture 50mm x 25mm must be fitted on the inside of the vehicle covering the window as referred to in paragraph 2.17. However, the screen must be positioned about 30mm away from the window to enable cleaning.

Particulars of offer: \_\_\_\_\_

- 1.19. The entire interior that accommodates the cage must be sprayed with a liner / sealer to ensure no leaking of moisture into the rest of the vehicle.

Particulars of offer: \_\_\_\_\_

- 1.20. Both front seats must in consultation with SAPS Transport Management Eastern Cape and Visible Policing be pushed to the rear on the seat slide rail in order to accommodate the most suitable cage measurements.

Particulars of offer: \_\_\_\_\_

- 1.21. The length of the cage from the rear to the back of the front seat are approximately 900mm.

Particulars of offer: \_\_\_\_\_

- 1.22. The floor of the dog cages must slant slightly at an angle towards the centre to allow proper water drainage system.

Particulars of offer: \_\_\_\_\_

## **2. Rectangular Tube Inserts**

2.1. A rectangular aluminium tubing of 76mm x 38mm x 1.4mm which must cover the length of the floor (from boot to front seats) must be fitted in the upright position underneath the cage division as referred to in paragraph 2.14.

2.2. The tubing which will be used for the wiring of the emergency equipment must be securely mounted to the floor.

Particulars of offer: \_\_\_\_\_

## **3. Liner**

3.1. The entire liner must be sealed with 100% solid, polyurethane / polyuria elastomer or equivalent liner.

3.2. The liner material must not consist of any harmful solvents.

3.3. The liner material must remain flexible at extreme temperatures of -30 degrees C to 90 degrees C.

Particulars of offer: \_\_\_\_\_

## **4. Preparation & paint**

4.1. A professional aluminium primer such as Rust-Oleum or equivalent must be applied by means of spraying or any other advanced approved method to properly dry as a film build of 60 microns minimum. Only an approved primer may be used. This layer is subject to inspection and acceptance by SAPS Transport Management Eastern Cape and Visible Policing before any further painting may be undertaken.

4.2. Where applicable, areas where the primer has been destroyed, as a result of welding, must be re-cleaned. A primer touch up operation must be incorporated.

4.3. An epoxy-based coating equal to Retek Poly Urethane to all panels which is extremely resistant to acidic and alkali environment must be applied as a top coat by means of spraying or any other advanced approved method to dry as film build of 60 microns minimum.

4.4. Total film builds is 120 microns minimum. (Primer 60 microns plus Top Coat 60 microns) to ensure proper protection and durability against metal corrosion and acidic. Colour: Black semi mat.

Particulars of offer: \_\_\_\_\_

## **Requirement: 4x4 and 4x2 Canopy LDVs**

### **1. General**

1.1. Provision must be made for the compartment in the front area of the loading body.

Particulars of offer: \_\_\_\_\_

- 1.2. The length of the compartment must not be smaller than 800mm long and the floor of the compartment must be positioned above the wheel arches.

Particulars of offer: \_\_\_\_\_

- 1.3. The compartment must be divided in two equal halves by means of partitioning. Adequate LED lights must be installed in each compartment with a separate switch in the cab. The lights must be protected to ensure they are not damaged by the dogs.

Particulars of offer: \_\_\_\_\_

- 1.4. The partitioning referred to in paragraph 3.3 must be divided in two parts. The bottom half must consist of aluminium plate of adequate strength and the top of aluminium flat expanded metal mesh 4.5mm x 3mm with aperture 50mm x 25mm to the roof, all in an aluminium frame.

Particulars of offer: \_\_\_\_\_

- 1.5. All partitioning and grids must be properly reinforced and properly secured to the canopy.

Particulars of offer: \_\_\_\_\_

- 1.6. Drainage holes must be provided in each dog compartment for easy cleaning with water.

Particulars of offer: \_\_\_\_\_

- 1.7. The size of the drain hole must be about 40mm to enable the removal of dog hair when the cage is cleaned. The hole must not be too big so that the dog won't injure a foot or toe in the hole.

Particulars of offer: \_\_\_\_\_

- 1.8. The doors of the dog cages must be installed inside the canopy and not on the sides.

Particulars of offer: \_\_\_\_\_

- 1.9. The hinges of the door must be placed near the side of the canopy so that the locks of the doors are placed in the centre of the canopy.

Particulars of offer: \_\_\_\_\_

- 1.10. Sufficient hinges must be provided on each door.

Particulars of offer: \_\_\_\_\_

- 1.11. The doors must seal tightly with no rattling during transit.

Particulars of offer: \_\_\_\_\_

1.12. The sizes of the dog cage doors must be:

1.12.1. Height: 750mm

1.12.2. Width: Not smaller than 500mm

Particulars of offer: \_\_\_\_\_

1.13. The door of the cage must be fitted with a suitable latch to prevent accidental release and also be fitted with a rigid handle to enable a smooth opening and closing action.

Particulars of offer: \_\_\_\_\_

1.14. The floor of the cage and partitioning up to the grid must be rubberized.

Particulars of offer: \_\_\_\_\_

1.15. The space underneath the floor of the dog cage must be sealed off with a plate and a lockable flap must be installed. This space can be utilized as a storage facility.

Particulars of offer: \_\_\_\_\_

1.16. The rest of the floor of the loading body must be rubberized to prevent the dog from slipping when exiting or entering the dog cage.

Particulars of offer: \_\_\_\_\_

1.17. The minimum thickness of the rubberizing must be 1mm.

Particulars of offer: \_\_\_\_\_

## **2. Preparation & paint**

2.1. All interior and exterior ferocious metal surfaces must be metal finished to remove burrs, welding splatter and scale and must be thoroughly cleaned by using a suitable detergent. Iron phosphate or recommended rust preventative must be applied according to the manufacturer's instructions to ensure that no flash rusting occurs.

2.2. All exterior surfaces must be primed with zinc chromate primer to give a minimum dry film build of 40 microns and 25 microns on all interior surfaces. Only an approved primer may be used. The layer is subject to inspection and acceptance by Vehicle Fleet Management Eastern Cape and Visible Policing before any further painting may be undertaken.

2.3. The entire inside and outside of the canopy must be spray painted to give the following minimum Top Coat Build: All exterior surfaces to 40 microns minimum. Total film build is 80 microns minimum. (Primer 40 microns plus Top Coat 40 microns).

2.4. All interior surfaces 35 microns to give a total dry build of 60 microns minimum. The paint must be the same colour as the cab. The paint must comply with a Turbo Fleet 2K enamel or approved equivalent.