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SPECIFICATION ARMY(AUST) 6258

FOR

TRUCK, UTILITY, LIGHTWEIGHT, MC2

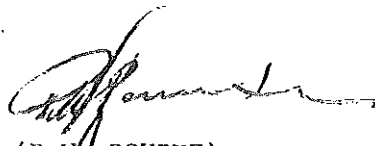
ISSUE 1

Issue	Date	Change Authority	Paragraph
1	31 MAR 81	BVEH/237/81	Original Issue

CONTENTS

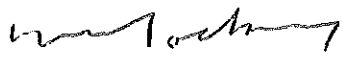
	<u>Paragraph</u>		<u>Paragraph</u>
SCOPE	1	Documentation	4.14
APPLICABLE DOCUMENTS	2	Tendering	4.15
Specifications	2.1	Warranty	4.16
DEF(AUST) Standards	2.2	Departures	4.17
Drawings	2.3	Rejections	4.18
DEFINITIONS	3		
REQUIREMENTS	4	QUALITY ASSURANCE	
General	4.1	PROVISIONS	5
Engine	4.2		
Transmission	4.3	PREPARATION FOR DELIVERY	6
Performance	4.4	Packaging	6.1
Construction	4.5		
Mass and Dimensions	4.6	NOTES	7
Wheels and Tyres	4.7	Named Trade Items	7.1
Electrical Equipment	4.8	Ordering Data	7.2
Fittings and Accessories	4.9	Changes to Pattern	7.3
Materials	4.10	Adherence to	
Painting	4.11	Specification	7.4
Lubricants	4.12		
Metal Instruction Plate	4.13		

Pattern Endorsed  
Date *27 Mar 81*

  
(P.W. BOURKE)  
Lieutenant Colonel

for Director General of Materiel - Army

Approved for Procurement:  
Date: *31 Mar 81*

  
.....  
(B.H. HOCKNEY)  
Brigadier  
for Chief of Materiel - Army

1. Scope

1.1 This Specification covers the supply of a Truck Utility, Lightweight MC 2, of proven commercial origin conforming to the general requirements stated herein. NO variants are being considered by this Specification.

2. APPLICABLE DOCUMENTS

Reference is Necessary to the latest issue of each of the documents listed.

2.1 Specifications

ARMY (AUST) 5010 - General Specification to govern the Technical Data to be supplied by Contractor for 'B' vehicles.

By  
SUCCESS  
TOD  
0117

ARMY (AUST) 606 - Manuals, Technical.

RAAF Specification - General Specification for RAAF General Engineering C1 and Special Purpose Motor Transport.

2.2 DEF (AUST) Standards

DEF (AUST) 172 - Electromagnetic Interference Characteristics.

~~DEF (AUST) 184~~ - Cloth, Duck, Cotton, Polyester Corespun.  
AS 1819 - 1976

DEF (AUST) 206 - Handbook of Liquid fuels, lubricants and allied products.

DEF (AUST) 5101 - Tractor-Trailer and Tractor Semi-Trailer, Electrical inter connections.

DEF (AUST) 135 - Connector, Plug, Electrical and Connector, Receptable, Electric (12 Pin, Trailer Connection).

MIL-STD-209 - Slings and Tiedown Provisions for lifting and Tying Down Military Equipment.

2.2.2 GPC-E-21/1 Finish, Semi-Gloss, Olive Drab.

2.3 Drawings

ADE (V) 5-16 - Registration Plate, Mounting Holes.

ADE (V) 43-1 - Unit/Formation sign holder.

- ADE (M) 256-2 - Bracket, Fire extinguisher.
- TSE (V) 55-8 - Canvas ware, Standard Details.
- ADE (V) 211 series - Pintle, Assembly, Light Duty.
- ADE (V) 225-749 - Plate Designation "C of G".

3. DEFINITIONS

- 3.1 "Quality Assurance Authority (QAA)". The organisation nominated as having the responsibility for the Quality Assurance and Technical acceptance for the particular contract.
- 3.2 "Quality Assurance Representative (QAR)", shall mean the person nominated by the QAA to act in respect of the Quality Assurance and Technical acceptance provisions of the contract.
- 3.3 "Unladen Mass" shall mean the net mass of the vehicle plus the mass of the driver, driver's personal equipment. The mass for planning purposes shall be as follows:  
  
Driver and Driver Equipment : 100 kg.
- 3.4 "Payload" shall mean the load which the vehicle is designed to transport under specified conditions of operation. The payload shall be expressed in kilograms of cargo or equipment, litres of liquid or number of passengers.
- 3.5 "Laden Mass" shall mean the unladen mass, plus the payload.
- 3.6 "Turning Circle" shall mean the minimum circle within which the outside wheels of the vehicle remain when the vehicle negotiates a complete turn between kerbs.
- 3.7 "Gradient" shall mean the ratio of the vertical rise and the horizontal distance covered in that rise expressed as a percentage (%).
- 3.8 "Approved" shall mean approved by the QAR.
- 3.9 "Truck Utility". A truck with an open body and one piece fabric top supported by bows.

4. REQUIREMENTS

4.1 General

- 4.1.1 The vehicle shall be a proven commercially available 4 x 4 truck utility of approximately 0.75 tonne payload. It shall comply with all relevant provisions of the VCEPS Draft Regulations and the relevant Australian Design Rules in force at the time of its manufacture. The vehicle shall be airtransportable in Medium Range Transport Aircraft (C 130 Hercules) in accordance with RAAF Specification Engineering C1.

#### 4.2 Engine

*can be done on 1/200*

- 4.2.1 The engine, fitted with standard accessories and using fuels and lubricants in DEF (AUST) 206 shall deliver not less than 90 kilowatts (kw) at an engine inlet, air temperature of 30°Celsius (°C) and mean barometric pressure of between 740 to 750 millimetres (mm) of mercury.

#### 4.3 Transmission

- 4.3.1 The transmission shall be a manual transmission. It shall provide not less than three forward and one reverse speed in both high and low range.
- 4.3.2 The Tenderer is invited to offer either differential lock or limited slip differential arrangements. Costs for these items shall be shown separately.

#### 4.4 Performance

- 4.4.1 The fully laden vehicle shall be capable of a sustained road speed on dry, level, sealed roads of not less than 90 kilometres per hour (km/h).
- 4.4.2 The vehicle shall be fitted with a fuel tank or tanks which shall give the laden vehicle a range of 550 km over first and second class roads containing gradients of not more than 10%.
- 4.4.3 The fully laden vehicle shall be capable of climbing, stopping and restarting on a dry concrete gradient of not less than 25%.
- 4.4.4 The vehicle should be capable of wading to a depth of 500 mm.

#### 4.5 Construction

##### 4.5.1 Chassis

- 4.5.1.1 The chassis shall be commercially proven and readily available in Australia and shall be one used for commercial utilities.
- 4.5.1.2 Service brakes shall be power assisted (vacuum boosted) and shall operate on all four wheels. A hand-operated parking brake shall be provided, capable of holding the vehicle on a 25% gradient.
- 4.5.1.3 The braking system shall conform to VCEPS Draft Regulations.

##### 4.5.2 Body

- 4.5.2.1 The body shall be so constructed that both physical and unaided voice communication between the driver and rear passengers shall be possible.
- 4.5.2.2 A simple form of seating for at least eight personnel shall be provided in the rear cargo compartment. The seating shall be collapsible as far as practicable to provide a maximum of cargo space. Seat belts are not required for these seats.

#### 4.5.3 Bows and Canopy

4.5.3.1 The vehicle shall be fitted with bows and canopy.

4.5.3.2 The bow socket design shall be such that it cannot cause damage to the fitted canopy.

4.5.3.3 The canopy may be manufactured from Corespun Polyester Cotton 335 g/m<sup>2</sup> loom to specification DEF (AUST) 184 (Sealed Pattern No 8305 - 1860 for colour), and shall be made in one piece with all points of wear reinforced with at least one thickness of material (see drg No TSE (V) 55-8). The material may be either supplied by Army on prepayment or by the contractor. Tenderer's are invited to offer their own designed and manufactured canopy. Cost for this item shall be shown separately.

4.5.3.4 Provision shall be made for rolling up and securing the side and rear panels.

4.5.3.5 The latchet lacing, cord ties, and tying down cord shall be made from 13 mm circumference terylene braided cord colouring green.

#### 4.6 Mass and Dimensions

4.6.1 External dimensions shall be as small as possible, consistent with the other requirements of this Specification and less than the maximum permissible dimensions for length, width and height laid down in VCEPS Draft Regulations.

4.6.2 The turning circle of the vehicle (kerb to kerb) shall not exceed 14 metres on either a left hand or right hand turn.

#### 4.7 Wheels and Tyres

4.7.1 The tyres and rims fitted shall be the manufacturers recommended tyre and rim for intermittent highway and cross country operation.

4.7.2 The Tenderer shall state the make of tyre he proposes to fit and whether or not any additional cost penalty would be incurred by the fitment of cross country non directional (CCND) tyres.

4.7.3 A spare wheel shall be fitted in an approved accessible position so that it may be removed and replaced with minimum effort by one man.

#### 4.8 Electrical Equipment

4.8.1 The electrical system shall be 12 Volt, suppressed to comply with RE05 in accordance with DEF(AUST)172 (MIL-STD-461). A 24V system may be acceptable.

4.8.2 The battery shall have a rating of at least 60 ampere hours at the 20 hour rate.

- 4.8.3 Electrically operated, self returning dual or triple speed windscreen wipers shall be fitted.
  - 4.8.4 An electrically operated windscreen washer system shall be provided.
  - 4.8.5 A connector receptacle electrical (12 pin trailer connectors) in accordance with DEF (AUST) 135 shall be fitted at the rear of the vehicle. The location and circuit arrangement shall be in accordance with the applicable clauses of DEF (AUST) 5101. The receptacle cover shall be stamped with the appropriate voltage in 12 mm high characters.
  - 4.8.6 Blackout and reduced lighting shall be fitted to the vehicle and shall consist of the following:
    - a. DSN 6220-00-670-7692 - Front Blackout Marker Clearance Lights (2).
    - b. DSN 6220-00-337-6471 - Rear Blackout Stop/Tail Light (2).
    - c. ~~DSN 2590-00-307-8856 - Switch Assembly Light Instrument Panel (1).~~ *DSN 5430-66-033-5723 rating symbol  
A/E (V) 44-525*
    - d. DSN 6220-12-121-7310 - Headlamps Blackout Assembly (2). *Heller 9200  
a. require*
    - e. One convoy light, mounted underneath and at the rear of the vehicle in such a position that when switched on the light shines on the rear of the differential.
- ① *DSN 5430-66-011-0887 nozzle symbol - 200-5-0160*  
 These items shall be provided by the contractor.

4.9 Fittings and Accessories

- 4.9.1 A fire extinguisher bracket (see drawing ADE (M) 256-2) shall be fitted in the driving compartment. Alternatively the usual item as supplied by the Contractor may be acceptable (details to be supplied in the tender). Specific details will be indicated in the Official Order.
- 4.9.2 Bolt holes shall be drilled in approved positions to suit the standard Army registration plate (see drawing ADE (V) 5-16).
- 4.9.3 Four unit/formation sign holders to drawing ADE (V) 43-1 shall be fitted, two at the front and two at the rear of the vehicle in approved positions.
- 4.9.4 A rotating and lockable towing pintle to drawing ADE (V) 211-2 series will be fitted to the chassis in an approved manner.
- 4.9.5 A fuel tank or tanks shall be fitted which provide a range of not less than 550 km at normal cruising speed and 450 km (cross country).

- 4.9.6 A plate, designation, C of G to Drawing ADE (V) 225-749 shall be fitted to the left hand side of the vehicle to indicate the longitudinal position of centre of gravity in the vehicles net mass condition.
- 4.9.7 Two external rear view mirrors of a fold away type shall be fitted to the vehicle in such a manner that their reflective surfaces are clearly visible to the driver in the seated position.
- 4.9.8 A brushguard of robust design shall be fitted to the front bumper bar of the vehicle. The brushguard shall be so designed and positioned on the vehicle that it does not obstruct or impair the correct operation of the lighting systems.
- 4.9.9 Two rear quarter bumper/jerrican carriers shall be fitted to the rear of the vehicle. The left hand bumper/jerrican carrier shall accept the in-service water jerrican (DSN 7240-66-054-8602) and the right hand carrier shall accept the in-service POL jerrican (DSN 7240-00-802-2405).
- 4.9.10 Combined towing and sling points in accordance with MIL-STD-209 shall be fitted to the front of the vehicle in approved locations.
- 4.9.11 Sling points in accordance with MIL-STD-209 shall be fitted to the rear of the vehicle in approved positions.
- 4.10 Materials
- 4.10.1 All materials shall be as specified. Where the material is not specified it shall comply with the relevant Australian or British Standard Specification where one exists, where non-existent, to a standard specification approved by the QAR.
- 4.11 Painting
- 4.11.1 The preparation of surfaces for painting and the painting process shall be to the standard commercial procedure except that the finish colour shall be Semi-Gloss, Olive Drab to GPC-E-21/1. The rear of the rear differential shall be painted white.
- 4.11.2 Reserved.
- 4.12 Lubricants
- 4.12.1 The vehicle shall operate satisfactorily on only fuels and lubricants selected from DEF (AUST) 206 except that XG 279 shall not be used. If in the Tenderer's opinion, a commercial product must be used in place of the one listed in DEF (AUST) 206, details shall be provided in the tender. Warranty shall not be invalidated by the use of the agreed proprietary or Service lubricants.



4.13 Metal Instruction Plate

4.13.1 A metal instruction plate with photo processed lettering (or approved equivalent) shall be supplied and conveniently located in the engine compartment to indicate the information as indicated below.

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NOMENCLATURE: Truck, Light General Service, Cargo.

LIABILITY CODE: 72500

CHASSIS NO: As applicable.

MANUFACTURER: As applicable.

CONTRACT NO: As Applicable.

DATE OF DELIVERY: As applicable.

TYRE PRESSURES: NORMAL: As applicable (Front & Rear)

LADEN: As applicable (Front & Rear)

LOCATION	SYMBOL (DEF (AUST) 206)	DESIGNATION
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ENGINE:	As applicable
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GEAR BOX:	" "
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MASTER CYLINDERS:	" "
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WHEEL BEARINGS:	" "
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UNIVERSAL JOINTS:	" "
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STEERING BOX:	" "
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CHASSIS LUBRICATION:	" "
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Where "As applicable" appears above the Contractor shall insert the appropriate details on the plate.

4.13.2 NO plate, stencil or notice naming any agent, distributor or firm other than the manufacturer shall appear on the vehicle.

4.14 Documentation

## 4.14.1

General

- a. The tenderer is required to furnish complete descriptive literature and technical data for the vehicle and its components. Lack of complete and specific detail may be sufficient cause for the rejection of the tender.
- b. The successful tenderer shall supply such additional technical data as required by the Department of Defence (Army Office) for cataloguing and technical documentation of the vehicle and its repair parts.
- c. Without technical manuals, referred to below, the equipment will not be issued by the Army, nor can it be operated or adequately maintained. It is therefore essential that delivery of the manuals required coincides with or anticipates the delivery of the equipment.

## 4.14.2

Publications/Manuals

- a. Two copies of each type of commercial publication listed below shall be submitted with the tender for consideration as to acceptability, and quoted for supply, in quantities 10, 50, 100 and 200.

Operators Manual/Instructions

Maintenance/Repair Manual

Repair Parts Manual/Catalogue

- b. The Tenderer shall also state whether, in the event that any commercial publication/s offered are not acceptable, he has the facility to produce technical manuals to Specification Army (Aust) 606, as follows:
  - (1) User Handbook.
  - (2) Electrical and Mechanical Engineering Instructions.
  - (3) Repair Parts Identification Listing.
- c. When technical manuals are required in terms of the foregoing, then the Tenderer shall, upon request, submit a quotation for supply in stated quantities, for consideration and incorporation in the Contract Acceptance and Purchase Order (CAPO).
- d. Where the tenderer is unable to fulfil the requirements for the preparation of technical manuals in accordance with Army (Aust) 606, he shall undertake to provide access to his premises, engineering data and records in order that technical manuals may be prepared by the Department of Defence (Army Office) or an approved documentation contractor.

4.14.3 Equipment User Handbook. One copy of either the accepted commercial operators manual/instructions or approved user handbook shall be supplied with each vehicle. This cost shall be included in the tender price for the vehicle.

4.14.4 Amendments to Publications/Manuals. Amendments and supersession lists shall be continually provided for the service life of the vehicle so that the publications and manuals supplied to the Department of Defence (Army Office) can be kept up to date. Copies of amendments/supersession lists are to be sent to:

- a. Parts Manual/Fiche Amendments: Supply Documentation Centre  
HQ Logistic Command  
PO Box 1932R  
MELBOURNE VIC 3004
- b. Technical Manual Amendments: Maintenance Engineering Agency,  
Defence Centre  
St James Plaza  
350 St Kilda Road,  
MELBOURNE, VIC. 3004.

4.14.5 Photographs

a. The tenderer shall supply two sets of photographs at least minimum size 120 x 160 mm of the vehicles viewed from the following positions:

front

rear

three quarter front

from the operator's view showing the controls.

b. The successful tenderer shall supply six sets of the above photographs of the first production vehicle to:

Logistic Command  
St James Plaza  
350 St Kilda Road  
MELBOURNE VIC 3000 (For Supply Documentation Centre)

c. Three 35 mm colour transparencies of a front three quarter view shall be forwarded by the contractor to:

Director General of Materiel  
Department of Defence, (Army Office)  
Russell Offices  
CANBERRA ACT 2600

4.14.6 Cataloguing Requirements

- a. The successful tenderer may be required to furnish to the Cataloguing Officer of the Department of Defence (Army Office) information regarding the items supplied against the contract. This information, which may involve provision of manufacturers' references, part numbers, names, print drawings, specifications and related documents, will be used solely to establish directly the essential characteristics which give an item its unique character and differentiate it from every other item.
- b. For items procured by the successful tenderer from another source, the names of the actual manufacturer (or code) and his reference or part number shall be furnished on request.

4.14.7 Tools and Accessories

The contractor shall prepare a schedule of "On Equipment and Special" tools and accessories showing, quantity of each item, full designation and prime manufacturer's number. One copy of the schedule shall be forwarded within 21 days of receipt of the Official Order to:

Supply Documentation Centre  
 HQ Logistic Command  
 PO Box 1932R  
 MELBOURNE VIC 3004

4.14.8 The relevant details required per Annex 'A' of ARMY (AUST) 5010 shall be supplied as follows by the Contractor:

- a. Director General of Materiel 1 copy
- b. Supply Documentation Centre 1 copy
- c. Maintenance Engineering Agency 1 copy

4.15 Tendering

4.15.1 Where options exist in respect of the fitting and supply of a variety of engines and transmission combinations, the tenderer shall quote for each combination available.

4.15.2 The Tenderer shall include in his submission, a quote for a front mounted winch of minimum line pull capacity of 3,630 kg. The winch may be electrically or mechanically driven.

4.16 Warranty

4.16.1 Full details of the warranty shall be included in the User Handbook and Maintenance Repair Manual. A copy of the warranty shall be supplied with each vehicle for insertion in the Army Vehicle Log Book with a list of State agents who shall honour the warranty. The contractor for each vehicle shall be responsible for honouring the warranty whether he is the manufacturer or not of the part(s) or item(s) concerned.

4.16.2 Tenders shall contain the following minimum warranty clauses:

- a. The vehicle supplied under this Specification shall be covered by warranty for the first 20,000 km or twelve months in use whichever occurs first after the date of delivery against defective materials, design or workmanship.
- b. The vehicle shall operate satisfactorily on current grades of fuel and lubricants as listed in DEF (AUST) 206 or as negotiated and the warranty shall not be invalidated by the use of such grades.
- c. In the event of failure of any part or parts during this period, the affected part or parts shall be replaced or repaired promptly by the State agent if within 40 km.
- d. When the part or parts are to be provided for the vehicle at a greater distance than 40 km from a State agent, the part or parts shall be delivered to the designated Unit or Agent nominated by the Army. Installations of the part(s) shall be by Army tradesmen or the nominated Agent.
- e. All replacements shall be supplied free of charge and without extra costs (eg. installation, transportation costs) to the Commonwealth.

4.17 Departures

Should the tenderer desire to depart in any way from the requirements of this Specification such departure shall be clearly shown in the tender together with a statement of the reasons for its adoption.

4.18 Rejections

Tenders which are not accompanied by the information detailed in this Specification may be rejected without further consideration.

5. QUALITY ASSURANCE PROVISION

5.1 General

5.1.1 The official tender invitation and contract shall nominate the Quality Assurance Authority, the conditions of inspection and the requirements for contractor's Quality Control.

5.1.2 The Contractor shall perform, or have performed, all examinations and tests necessary to substantiate that the supplies and/or services conform to the requirements as specified herein, and shall offer for acceptance only supplies and/or services that conform to these specification requirements.

5.1.3 The Quality Assurance Authority reserves the right to perform, or have performed, any examinations or tests deemed necessary to ensure that supplies and/or services conform to the contract requirements.

5.1.4 The acceptance of all supplies and/or services shall be subject to agreement, by the Quality Assurance Authority, that the quality requirements of the contract have been fulfilled. The Quality Assurance Authority reserves the right to reject any supplies and/or services which, in its opinion, are inferior in quality of materials or workmanship, or differ in any respect from the contract requirements.

5.1.5 The minimum examination and tests necessary for proof of conformity are detailed in "Annex A".

6. PREPARATION FOR DELIVERY

6.1 Packaging shall be as designated in the Tender Schedule or Official Order.

7. NOTES

7.1 Named Trade Items

A named trade item called up in this Specification and reference documents may be replaced by an approved equivalent.

7.2 Ordering Data

The Official Order will specify the following:

- a. title, number, date and issue of this Specification,
- b. details of the type of packaging to be used by the Contractor,

- c. details of the options that are to be called up in the Contract.
- d. the nominated QAR.

### 7.3 Changes to Pattern

7.3.1 Requests for changes to the design of an item, materials, components, fabrication methods or manufacturing techniques called up in specifications approved drawings or sealed samples shall be made by means of the following procedures as appropriate:

- a. Production Permit. Request for permission in advance of manufacture to use materials or methods to make items which differ from the approved pattern. It is limited in application to cover a specific quantity, lot, series or batch of materials or items.
- b. Production Concession. A request to use or release a specific quantity, lot, series or batch of materials, components or stores already made but which do not comply strictly with approved pattern.
- c. Pattern Change Request. A request for a change in the design of an item, materials, components, fabrication methods or manufacturing techniques.

7.3.3 In the above procedures the Contractor shall pass relevant details on the correct form to the QAR together with samples and test certificates, as appropriate.

7.3.4 The QAR shall pass to the Contractor, in writing, the outcome of any production permit/concession or pattern change request before the Contractor may incorporate or proceed with the proposed change.

### 7.4 Adherence to Specification

The Approving Authority for this Specification is the Director General of Materiel - Army on behalf of the Chief of Materiel, Department of Defence (Army Office). NO departure from this Specification or associated Specifications will be approved by the Director General of Materiel, unless, by reason of the acceptance of a tender, full details and approved alternatives are incorporated in an eventual contract.

TESTS

1. Outline

This Annex outlines the tests to be performed on a sample Truck Utility, Lightweight, MC 2.

2. Procedure

Unless exempted:

- a. by specific clauses in the contract/Official Order which state that the tendered certification of compliance is accepted; or
- b. that a truck identical in all respects to that now tendered or submitted has previously been inspected, tested and accepted by the QAR to this issue of the Specification then the following tests and determinations shall be performed. The QAR shall be present during the conduct of all tests and determinations.

2.1 Sample vehicle

2.1.1 Performance Tests

Specific tests shall be conducted to prove conformity with each of the performance requirements of paras 4.4.1 to para 4.4.4 inclusive.

2.1.2 Tyre Loadings

The truck laden with an evenly distributed weight as described in para 4.1.1 shall be weighed on an accuracy certified weighing device, determining front and rear axle loading. From the information gained, the individual tyre loads shall be ascertained. The vehicle shall not be acceptable if the resultant tyre loadings exceed the limits of the TRAA Standards Manual for that size tyre.

2.1.3 Reserved.

2.1.4 Turning Circle

The turning circle at the outer road wheel shall be determined between kerbs through 360° on each lock. A turning circle greater than 14 m shall not be accepted.

2.1.5 Electrical Suppression

The vehicle shall be checked for suppression in accordance with the requirements of the nominated specification.



2.1.6 Operation

The truck laden as detailed in para 4.1.1 shall be given a road test to determine its acceptability against the mobility paras of the specification. This road test shall be a minimum of 100 km and should include first and second class roads. Failure to meet any part of the performance criteria shall be cause for non acceptance.

2.2 Production Vehicles

After completion of the tests in section 2.1 above and acceptance of the sample vehicle by the QAR as complying with the performance requirements of this specification, each vehicle submitted against the order shall be examined and subjected to a test run of 5 km, during which the operation, handling and braking shall be tested and the correct functioning of all equipment and accessories proven.

3. Test Results

The results of all tests and determinations of the sample truck shall be recorded and a copy of all records obtained retained by the QAR.