

SECTION 2.1 SPECIFICATIONS**SUPPLY AND DELIVERY OF ONE (1) NEW 6000 L 4 X 2 SEWERAGE VACUUM TANK TRUCK****MINIMUM SPECIFICATIONS FOR A NEW 6000L SEWERAGE VACUUM TANKER**

This specification covers the supply and deliver of a diesel-powered truck with a 6000-litre tanker onto a single chassis for the cleaning of drains and affiliated tasks.

This specification is a guide to build a machine intended for this application and the machine will be fully functional and operational on delivery.

The unit must be built operational friendly easy to operate and easy to repair with as many parts as possible off the shelf of South Africa.

SCHEDULE 1A		SCHEDULE 1B	
TRUCK		Comply Yes/No	Page to Reference
1. Engine			
1.1) 6 - Cylinder Diesel powered engine			
1.2) Displacement not less than 7600 cubic centimetres			
1.3) The Power output, not less than 180 kw			
1.4) Engine Torque not less than 900 Nm			
2. Transmission			
2.1) Automatic Shift			
2.2) Minimum 6 speed			
2.3) Propulsion 4 X 2			
1. Brakes			
3.1) ABS System Compulsory			
3.2) Exhaust brake			
2. Air conditioner			
4.1) Compulsory factory fitted air conditioner			
3. Cab.			
5.1) Tilt Cab, forward tilt			
4. Driver and Passenger seats.			
6.1) Adjustable: forward and Backward and Back adjustment, Pneumatic / Spring operated			
6.2) Provision for a minimum 3 seats in the cab as per standard factory application included in factory Specification seats. Seats must be equipped with individual seat belts for all three seats and factory registered feature, and reflecting accordingly on the license disc.			
6.3) FM / AM Radio / USB Compulsory factory fitted			
5. Major Dimensions			

8.1) Truck Wheelbase; 3750 mm		
8.2) Gross vehicle mass: Maximum 16000 kg to adequately load, full load, water tank includes tank equipment.		
8.3) Vehicle Mass (V): Maximum 15 500 KG		
6. Wheels and Tyres		
9.1) All tyres must be of the same ply rating and not smaller than 295/80 R 22.5		
9.2) A Full-size spare wheel is required.		
7. Electrical systems		
10.1) The vehicle is to be equipped with a Reversing warning Buzzer		
10.2) An electric, tamper and smash proof hour meter must be installed to operate when engine is running		
10.3) All electric connectors to be double seal with wiring in split convoluted loom		
10.4) The vehicle shall be equipped with all lights in accordance, with the latest compulsory vehicle standards and covered with metal protection		
8. Power take off (PTO)		
11.1) A heavy duty, single speed Power Take off (close coupling) shall be provided and shall be compatible with that of chassis-cab transmission. The PTO shall be activated by an Electrical Signal (Hot Shift). A fail-safe system (inter linked to the handbrake) shall be fitted to prevent the vehicle being driven with the PTO engaged. Safety system to prevent gear selection when PTO is engaged must also be fitted.		
11.2) A dashboard mounted warning light to indicate to the driver when the PTO is the engage position. Power take-off controls shall conveniently mounted in the cab.		
9. General		
12.1) The colour of the vehicle must be white and painted with Sigma primer with epoxy undercoat and two coats of 2k white.		
12.2) The vehicle must have a substantial bumper and towing eye in front.		
12.3) Lockable fuel cap and battery box(es) are required.		
12.4) Essential operator's tools including a 15-ton (metric) hydraulic jack must be provided. Triangles, wheel spanner as well as essential tools to perform operator's maintenance is required		
12.5) Operators and service parts manuals must be provided for the trucks		
12.6) The complete vehicle must be fully guaranteed for at least 12 months or 20 000km for at least three years against anybody rust or paint defects, fair wear and tear excluded.		
12.7) Tenderers must please specify despatch period after placing of order clearly in terms of lead time, rate of despatch and lead completion of contract		
12.8) State whether any free services are included in the tenderer price and where services will be carried out		
12.9) Training to be provided within 2 weeks of delivery of the vehicle.		
12.10) Vehicle to be fitted with front, under engine protection guard (6mm thick) to protect piping where necessary		
12.11) Reflective tape 80% of the Chassis-cab and body as per Road Traffic Act. The licenced vehicle is to be delivered with a full tank of fuel to Hessequa Municipality		
12.12) The licensed vehicle is to be delivered with a full tank off fuel to the Hessequa Municipality.		

12.13) Vehicle to comply in all respects to Road Traffic Act and ruling Traffic Regulations.		
12.14) Tenderers with his body(load) builder must attend a compulsory site meeting.		
12.15) Vehicle must be equipped with a 2.5Kg Dry Chemical Powder Fire Extinguisher.		
12.16) First Aid Kit included with the following items: Swabs for cleaning wounds Cotton wool for padding (100g) Sterile gauze (minimum quantity 10) 1 x wound cleaner/ antiseptic (100ml) 1 x pair of forceps (for splinters) 1 x pair of scissors (minimum size 100mm) 1 x set of safety pins 4 x triangular bandages 4 x roller bandages (75mm x 5m) 4 x roller bandages (100mm x 5m) 1 x roll of elastic adhesive (25mm x3m) 1 x non-allergic adhesive strips (25mm x 3m) 1 x packet of adhesive dressing strips (minimum quantity, 10 assorted sizes) 4 x first aid dressings (75mm x 100mm) 4 x first aid dressings (150mm x 200mm) 2 x straight splints 2 x pairs of large and 2 pairs medium disposable latex gloves 2 x CPR mouthpieces or similar devices		
12.17) A Full Technical drawing with measurements of the complete project to supply with tender.		

SCHEDULE 2A	SCHEDULE 2B	
Vacuum tank	Comply Yes/No	Page to Reference
Tank Dimensions Capacity 6000L		
1) Material		
4.5mm 3CR12 Stainless Steel.Suitable corrosion protection on inside and outside		
2) Tank Ends		
6 mm dish ends 3CR12 Stainless Steel.Suitable corrosion protection on inside and outside.		
3) Baffles		
2x Internal Bolt on Baffles corrosion resistant		
4) Tank Mountings		
Tank to be mounted on 6 shear proof rubber mountings and on an angle to the rear to ensure complete discharge (125 mm).		
5) Hose Trays		
One each side mounted above rear mudguards. 3CR12, ± 3750mm		

Support frame against tank to run pipe around back of tank. Holes at rear of trays for drainage.		
6) Access Chamber		
480mm With hinged airtight lid and access manhole		
7) Discharge and Inlet		
150mm Lever Gate valve with Perrot fittings and 3CR12 Drip tray		
100mm Lever Gate valve with Perrot fittings		
8) Fluid Level Gauge		
3 X Sight glasses		
9) Piping		
Pipes 1x150mm x 3000mm Kanna flex.		
3 x ± 9.5m hoses + Reducer fitting 6 – “4” (female – male)		
10) Mudguards		
Stainless Steel mudguards		
Tailboard and all brackets and subframe. 3CR12 Stainless Steel		
11) Vacuum System		
Jurop PNR83. The vacuum must be suitable for vacuum tank size. Full specification with tender as well as loading and off – loading times. To be mounted between cab and tank on a galvanised frame 9000 l/min free airflow volume and up to -80 kPa (gauge) continuous pressure Sliding vane vacuum pump air cooled Built-in vacuum pressure changeover valve Non-return valve in the manifold		
12) Vacuum Safety System		
Must be a three (3) stage safety system with an overspill valve and solids filter. Tank must be tested to a vacuum of – 80 Kpa. Complete specifications with tender		
13) Hand Wash Tank		
Polyurethane water tank (30L) with liquid soap dispenser for washing hands.		
14) Hydraulic System		
3CR12 tank with sight glass. Complete electronically controlled hydraulic system with pump and motor and cooling system. To be mounted with Vacuum pump on a galvanised frame between cab and tank. Low volume 30 lpm system 120-litre hydraulic tank PTO driver Lock-out system to prevent operations during driving		
15) Filter System		
Fitted with an inline air-water filter system. Maximum operating pressure: -1/+0,5 bar. Maximum airflow: 1300m³/h Degree of filtration: Mesh 55 (300 microns)		

16) Painting		
Prior to painting the material is stripped down and sandblast surface for preparation according to ISO 12944:46.1. specs Painted with Jotun Pilot Arc Inside of tank: Cleaned		
17) Hazards, Night lights		
Revolving hazard light, situated at rear of tank with steel protection and night working LED lights at the rear of tank (unloading and suction) and in front of tank(pump) with Three (3) separate switches inside cab.		
18) Operation Manual		
Document that describes in detail the processes and systems and maintenance procedures of the vacuum unit.		
19) Toolbox		
Mounted behind the mudguard. One on each side. 500 x 550 x 500mm lockable Fitted across/over the width, behind the tank.		
20) Warning, Hazards and Functional labels		
All the necessary warnings, hazards and maintenance instructions are clearly marked on the unit including: 1. Daily preventative maintenance indicated. 2. Lubrication points Lubrication information for pump and hydraulics.		
21) Regulations and guarantees		
Road Traffic Legislation: Chevron board and reflectors as per traffic legislation. S.A.B.S Registration		
22) Guarantee		
Minimum of 4 years on tank construction and material		

SCHEDULE 3A	SCHEDULE 3B													
All bidders must comply with the following six points to be considered	Comply Yes/No	Page to Reference												
<ul style="list-style-type: none"> Is the bidder the official agent/dealer appointed by the original equipment manufacturer/factory? Official name of business: 														
<ul style="list-style-type: none"> Is the bidder able to lodge claims directly against the factory on behalf of the client in case of failures or breakages? 														
<ul style="list-style-type: none"> Does the bidder stock a sufficient number of spare parts on own branded premises? 														
<ul style="list-style-type: none"> Is the bidder able to service, repair and modify the equipment in its own branded workshop? 														
<ul style="list-style-type: none"> Does the bidder have (a) suitably equipped workshop(s) within the 200km radius of the Hessequa municipal boundary to accomplish this? 														
<ul style="list-style-type: none"> Does the bidder have qualified artisans within the 200km radius of the Hessequa municipal boundary to accomplish this? Please provide the following Information: Location within the 200km radius of the Hessequa Municipal boundary: <table border="1"> <thead> <tr> <th>Towns with an equipped and branded workshop</th> <th>Number and Street name</th> <th>Number of artisans</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Towns with an equipped and branded workshop	Number and Street name	Number of artisans											
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CONDITIONS OF THE TENDER

1. Weight distribution of complete unit with layout to be submitted with tender.
2. 30mm Ambar starbar mounted on cab, to be switched on inside cab and on the rear left and right of suction tank.
3. PTO Control mounted next to driver seat.
4. Vehicle must be licensed and registered to Hessequa municipality with number plates fitted before delivery at the following address:

Hessequa Municipality, PowerStation
1 Hospital Street
Riversdale
6670

5. All guarantees must be stipulated in the tender. Details of the guaranteed must be supplied. **(Attach proof)**.

Tenderer must have a dealership or a fully equipped workshop within a 200km radius of the Hessequa municipal boundary for service and repairs. The service and repairs will only be done until the warranty expires.

6. Proof of the said dealership or workshop must be submitted together with the tender. If the bidder does not have the said workshop or dealership, proof of a valid agreement with a local dealer or workshop owner must be attached. **(Attach proof)**.
7. A compulsory site meeting is required for the tenderer and bodyworks fabricator of the load body. Proof of the attendance shall be attached to this bid.

Failure to adhere to the above, may result in your tender being declared non-responsive.

DECLARATION,

I, THE UNDERSIGNED (NAME)
CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT. I ACCEPT THAT THE MUNICIPALITY
MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE:

NAME:

CAPACITY:DATE:

Initials of Service Provider's Authority: