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CAPRICORN DISTRICT MUNICIPALITY

TERMS OF REFERENCE FOR THE PROCUREMENT, MANUFACTURING AND DELIVERY OF ONE (1) FIRE ENGINE TANKER

BID NO:

CLOSING DATE:

BIDDER NAME: _____

TOTAL BID AMOUNT: _____

RECEIPT NO: _____

VISIT OUR WEBSITE: WWW.CDM.ORG.ZA

CONTENT

1. BACKGROUND INFORMATION

Bids are invited procurement, manufacturing, and delivery of one (1) fire engine tanker for Capricorn District Municipality for TT Cholo Fire Stations

2. KEY OBJECTIVES

To meet the fire and rescue service delivery mandatory requirements.

3. SCOPE OF WORK

3.1 Bidders are expected to procure, manufacture, and deliver of one (1) fire tanker engine vehicle to TT Cholo Fire station.

3.2 The service provider must submit a MIB certificate (Registration for manufacture/importer/builder of motor vehicles).

3.3 Bidders are expected to supply the chassis and mounting of the specified equipment for the vehicle.

3.4 Bidders are expected to submit detailed design drawings from all perspective angles with the tender document. Also, to provide vehicle information relating to vehicle weight calculations, centre of gravity, wheelbase, under body clearance, approach, departure angle, length of vehicle height and width of vehicle, in particular to fire engine. A full design drawing must be provided to sign off before construction commences. The drawing will allow the client to approve items such as general layout, signwriting etc.

3.5 Bidders to manufacture on a 4x4 Commercial Chassis that that conforms to South Africa Road Traffic Act.

3.6 Bidders must comply with National Treasury regulations relating to designated sectors and local content

4. DELIVERABLES

The one (1) fire tanker engine vehicle deliverables are as follows:

4.1 Procurement, manufacturing, and delivery of one (1) fire tanker engine vehicle.

4.2 Bidders to submit vehicles registration certificate, roadworthy certificate, license disc and registration number fitted by the supplier in the municipality's name.

4.3 Vehicles are to be supplied with minimum 120 000km or 5 years maintenance plan. (Maintenance plan to cover Superstructure and Pump)

4.4 Bidders are expected to deliver such vehicles to specific locations as directed by Capricorn District Municipality.

4.5 Bidders must disclose brand name for chassis and fire pumps during submission of Tender
4.6 Bidders are expected to provide operator training during/at delivery of the fire engine: Provision has to be made for on-site training on the operation of all products supplied under this specification.
4.7 Training consists of the following aspects:

4.7.1 Driver and operator training
4.7.2 Fire fighter safety
4.7.3 Operating instructions of Vehicle, Components and Equipment
4.7.4 Water and Foam supply systems
4.7.5 Pump operations and techniques
4.7.6 Basic Vehicle Care and Preventative Maintenance

4.8 Municipality to conduct pre and post manufacturing inspection on the fire engine. (Minimum of two factory visit)
4.9 Bidders are to adhere strictly to statutory requirement relating to South African National Road Traffic Act, SANS codes, EN and NFPA (1901 etc.) codes.
4.10 Bidders must submit their previously appointment letter or orders (only from Government Institution) to their completion without being terminated due to any reason(s)
4.11 Bidders are expected to supply an OEM (original equipment manufacturer) chassis warrantee. A three (3) years warranty relating to fire body, paint, plumbing on the fire engine must be offered. The warranty for fire pump is five (5) years whilst for water and foam tank is ten (10) years.
4.12 Fire engine is to be branded with Capricorn District Municipality insignia and emergency numbers on both doors and tanker side of fire engine.

5. SPECIFICATION FOR FIRE TANKER ENGINE VEHICLE

5.1 VEHICLE DATA SPECIFICATION

BRAND NAME:		
Model Description	**Measurements**	**Service Provider submitted specifications**
MASS		
Tare mass	16500 kg Nat/18000 kg Tech+	
GVM kg	28 000 kg	
Axle – front Nat Reg (Tare)	7 500 kg	
Axle – front Tech+	7 500 kg	
Axle – rear Tech+	11 500 kg	
Axle - rear Nat Reg (tare)	9 000 kg	
ENGINE		
Engine	Low emissions engine	
Type	6-cylinder inline Diesel engine	

BRAND NAME:		
Model Description	**Measurements**	**Service Provider submitted specifications**
Turbo	Two-stage Turbo charged with intercooling	
Displacement	6871ccm	
Power	240kw @2400 rpm	
Torque	1250Nm @1200-1800 rpm	
TRANSMISSION		
Type gearbox	Automated transmission	
No of gears forward	12 gears	
No of gears reverse	2 gears	
First gear ratio	10.37	
Last gear ratio	0.81	
Transmission PTO	Standard with cooling	
CLUTCH PTO		
Long clutch service life		
ELECTRICAL & FUEL		
Fuel tank capacity	300 litres	
Fuel tank strainer	tank strainer	
BRAKES		
System type	Full air brakes	
Front and Rear	S-cam drum brake	
Electronic Brakes System (ABS)	ABS	
Exhaust Brakes	Standard	
TYRES		
Front tyres	315/80R22.5	
Rear tyres	315/80R22.5	
Spare wheel	315/80R22.5	
SUSPENSION		
Front springs	Parabolic	
Rear springs	Parabolic with hub reduction rear axle	
Shock absorbers	Standard (double acting front & rear)	
Stabilizers	Front standard	
CHASSIS & SUB FRAME (4x4)		
Variant description 4x4	Reinforced parallel ladder frame	
Apparatus body sub frame	• The apparatus body sub frame must be constructed entirely of heavy steel structural channel material.	

BRAND NAME:		
Model Description	**Measurements**	**Service Provider submitted specifications**
	• Two full frame length longitudinal steel channels form the sides of the body sub frame and sides of the water tank cradle. Sub-frame cross members are fabricated with heavy steel channel cross members welded to the longitudinal body sub-frame sides and the full-length frame pads. • Two full frame length flat steel frame pads must be attached to the body sub frame and rest on top of the chassis frame rails for proper frame weight distribution.	
STEERING		
Operation	power steering assisted	
Steering wheel tilt	Standard	
DIMENSIONS		
Wheelbase	4200 mm	
Overall length	5360 mm	
Overall width	2240 mm	
Cab length	2786 mm	
Alternator	28V 120A	
Starter motor	Standard	
Batteries	2 x batteries 12V	
CAB		
• Double Cab • Rear bunk with SCBA • Three seats including centre seat • Seat belt standard including seat reminder alert • Seat fully adjustable • Heater/ Air-conditioner with 4 speed blowers	• The standard Crew Cab must be fitted. • The driver seat will be air suspended and adjustable to 4 positions while the officer seat will be static. • All seats will be fitted with SABS approved seat belts. • The rear crew cabin will be equipped with a bench seat fitted with SABS approved lap type seat belts and SCBA backrests. • All windows will be SABS approved glass	

BRAND NAME:		
Model Description	**Measurements**	**Service Provider submitted specifications**
• Radio/ USB is standard • On-board computer- multi functional display in vehicle diagnosis • Tilt cab - mechanical • Speed limiter • Rear view mirror 6 in total • 12 Volt power outlet • Engine protection system • Driver fuel coach tool	• All windows will be of the roll down type • Doors will hinge forward • All doors will be lockable • The following controls will be fitted within easy reach of the driver and officer: • Emergency warning system controls • PTO engagement switch • Master Locker and ground lights switches • The vehicle will be fitted with a main battery isolating switch	
MISCELLANEOUS EQUIPMENT'S		
Air conditioner	Standard	
Body paint	• Fire engine red RAL 3000 • Two coats of primer • One coat of universal primer • Two layers of final coat	
Lettering and reflective safety stripe	• Reflective 3M striping shall be fitted to the vehicle sides and cabin. • Provision should be made for branding as per Client instructions. (Wording and logos) on the fire tanker as specified by municipality.	
Keys	Two (2) sets to be supplied for the following: -Ignition -Cabin doors -Locker doors	

5.2. Super structure, Pump, Electrical, Equipment and Miscellaneous

Model Description	Measurements	Service Provider submitted specifications
REVERSE CAMERA		
Reverse camera	A reverse camera must be fitted to the vehicle and be incorporated into the rear-view mirror. The camera must have the ability to be switched on permanently to allow vision behind the vehicle whilst driving.	
BULL BAR AND WINCH AND SPOTLIGHTS		
Fitment of bull bar with winch and spotlights	Vehicle shall be fitted with a heavy-duty front bull bar. The bull bar shall have mountings for an electric winch weatherproof and spotlights. An electric winch with min 5000 kg pulling power with at least 30-metre cable of at least 10mm diameter shall be mounted on the bulbar. With a remote control and be electrically reversible LED spotlights will be fitted to the bull bar with the following specifications and must shall carry a lifetime warrantee: • Watts: 33 • LED's: 9 • Raw Lumens: 2736 • Lux @ 10m: 2115.35 • Peak Beam Intensity: 211535 cd	
SUPER STRUCTURE & LOCKERS		
The entire apparatus body shall be manufactured from aluminium. A 3D Isometric design shall be supplied to prior to manufacturing the unit. Such design	The vehicle shall be fitted with an aluminium superstructure enabling a locker design capable of housing all equipment. The superstructure shall be ergonomically designed to enhance wind resistance at high speeds.	

Model Description	Measurements	Service Provider submitted specifications
shall indicate all relevant criteria and the design shall be signed off before any work is done. All Aluminium used is international quality 6063 T6 and 6261 T6. All body panels except tread plate shall be painted. - The interior of the lockers will also be painted with a durable marble type finish. Detailed stress analysis should be done on all designs to ascertain the highest possible yield strength. The following lockers will be provided: • One locker each side behind the crew cabin with full height roller shutter doors • One locker each side behind the water tank • One rear pump bay locker • At each locker, there will be a fold down step to allow the crew to have easy reach to the locker.	Two (2) roller shutter doors shall be fitted to the vehicle, one each side of the vehicle The interior layout of the super structure shall be such that all equipment is mounted to ease the removal and replacement thereof into storage position. All equipment storage devices shall be fixed type enable operators to have easy access to the equipment.	

Model Description	Measurements	Service Provider submitted specifications
• All lockers, except the pump bay locker will have one adjustable shelf • Two pull out shelves will be fitted in lockers identified during equipment mounting • All compartments will be coated on the inside with a heavy-duty durable marble finish type coating to ensure prolonged life and durability when handling equipment. • The lockers will be illuminated with LED strip illumination. • Aluminium drip rails will be fitted above each locker compartment		
ROLLER SHUTTER COMPARTMENT DOORS		
Roller shutter compartment doors	Aluminium roller shutter compartment doors to be fitted in a flush style ensuring that the entire door fits flush against the apparatus body sides. The roller shutter doors shall be fully enclosed within structural members and shall not obstruct the clear door opening. All compartment doors shall be provided with hollow core weather stripping to provide a weather tight	

Model Description	Measurements	Service Provider submitted specifications
	seal at the door opening and to prevent road spray and debris from entering the compartment. Doors shall be lockable. The colour of the roller doors shall be black	
WATER AND FOAM TANK		
Water and foam tank	The tanks must be of a specific configuration and should be so designed to be completely independent of the body and compartments. The tank is mounted along the centre of the chassis frame rail on cushioned mountings. The side wall of the water tank is also the side wall of the vehicle. Transverse and Longitude baffles are fitted to minimize surge protection during travel. The capacity of the water tank and foam tanks combined will be 5500 litres. (5000 litre water and 500 litre foam) The water and foam tanks are constructed of GRP and should carry a 10 year/lifetime warrantee. A sump, 38mm drain valve should be used at the bottom and used as a combination for clean out and tank drain. An anti-swirl plate should be located above the sump. Manhole covers should be furnished with a man lid breather to release any build-up of pressure in the water/foam tank.	

Model Description	Measurements	Service Provider submitted specifications
	An overflow dome should be fitted for hydrant filling. Two tank level gauges for the Water and foam tank levels installed at the pump panel indicated on the vehicle management system	
FIRE FIGHTING PUMP		
Rear mounted firefighting pump	The vehicle to be fitted with a PTO driven pump, with the following specifications: • A rear mounted pump must be fitted. • It should be a dual stage centrifugal pump and driven via a balanced propeller shaft via the transmission PTO • The fire pump should be powerful and wear-resistant centrifugal pump, rugged, designed for dirty water, safe to operate and require very easy and low maintenance with reduced whole life costs • Enhanced material selection to ensure long life.	
PUMP PERFORMANCE DATA	**PERFORMANCE LOW PRESSURE:** Output 3000 l/min at 10 Bar **PERFORMANCE HIGH PRESSURE**: Output 300 l/min at 40 Bar **PERFORMANCE LOW PRESSURE (MAX):** 4200 l/min	
Primer & Deep/suction lifting	• Primer ranges up to 7.5 metres • Primer should be a twin automatic piston primer with a 24 Volt electromagnetic clutch	
Pump discharges	• Four (4) 65mm BS outlets with blank caps with 2 mm centre hole	

Model Description	Measurements	Service Provider submitted specifications
	• Two (2) High Pressure outlets to Hose Reels • The 65mm pump discharges will be rear facing with screw down controls • One (1) discharge to roof monitor	
Pump intake	• One (1) 140mm (5 ½") PN16 RT suction inlet, with blank cap and chain. • And with a screw on three way collecting head with 65mm couplings (male)	
Pump Panel: To be fitted directly above the pump in the pump bay area	**The pump panel features:** • Pump compound pressure gauge • Pump high pressure gauge • Warning light for PTO engaged • Engine and pump revolution control • Electric tank level indicators for water and foam • Discharge pressure gauges • Pump compartment light switch • Hose reel control valves • Pump hour meter • Two LED tank level gauges will be fitted on the pump panel. • As indicated at the tank spec	
FIRST AID HIGH PRESSURE HOSE REELS	• Two (2) high-pressure gear crank driven and electric rewind hose reels will be fitted one (1) on each side of the vehicle. • The reel must be furnished with standard 30m x 25mm dia. • High Pressure hose and with a high-pressure select flow fog gun and c/w foam attachment, secured next to hose reel within bracket.	
Roof Monitor	• A manually controlled monitor with Nozzle must be fitted on the deck above the pump.	

Model Description	Measurements	Service Provider submitted specifications
	• Flow Rate: 0-3500 LPM • Horizontal Movement: Continuous 360° • Vertical Movement: 90° below to 90° above horizontal • Operation Energy Source: Manual	
PLUMBING		
Plumbing	All plumbing must be stainless steel and rigid piping and designed not to cause any obstruction and limit friction and loss of pressure to a minimum	
TANK FILL		
Tank to pump plumbing	A 65 mm fill line from the side of the tank is furnished so the tank can be filled from a hydrant. Ball valve operated. This fill inlet must be plumbed to the left side of the vehicle.	
TANK TO PUMP	A tank to pump valve to be furnished, complete with a flexible connection and enclosed in the pump area. Pneumatic valve must be installed with manual override	
FINISHES		
Hard suction hose trays	Two (2) 3m hard suction hoses shall be properly mounted and secured in an aluminium bracket. The bracket will be fitted on the roof on the nearside of the vehicle.	
Slip resistant walkway service	All exterior surfaces designated as stepping, standing, and walking areas shall have an aluminium tread plate slip-resistant finish.	
Rear access	One (1) access ladder shall be mounted at the rear of the vehicle to provide easy access to the roof. Grab handles shall be fitted where applicable.	
Rub rail	Rub railing shall be fitted along both sides of the vehicle body. The inside of the rub rail will feature three (3) amber warning lights on each side of the vehicle.	

Model Description	Measurements	Service Provider submitted specifications
	The interior of the rub rail will be fitted with yellow reflective 3M tape.	
ELECTRICAL		
Electrical	• Should be 24-Volt electrical system • Electrical wiring and cables must be fastened to the frame or body structure of the apparatus and shall be furnished with protective looms, grommets, and other devices at each point where they pass through body panels or structural members or wherever they lay against a sharp metal edge. • Where any through-the-frame connectors are provided, any such connector and/or wiring shall be protected from shearing or tearing. • The body electrical system shall be designed specifically for the apparatus body. • Wiring diagrams must be supplied with the tender. All wiring shall run via a clearly marked fuse box indicating the final destination of the wiring. A comprehensive wiring diagram shall be supplied with the vehicle on delivery. • The body wiring system must consist of a premade electrical harness which is made up according to SANS regulations and is clearly marked. All wiring terminates in a separate junction box that is clearly marked and has separate fuses and circuit breakers • All lighting on the vehicle must conform to SABS and the National Road Traffic Act and	

Model Description	Measurements	Service Provider submitted specifications
	should be homologated as such. Audible reverse alarm to be included.	
COMPARTMENT LIGHTING		
Compartment lighting	• All equipment compartments shall be provided with LED lighting mounted to the top of the compartment (as mentioned under lockers). • Compartment lights shall switch on by means of door activation. • A warning light in the cab shall indicate when locker lights are on and have a master switch in the cab.	
ELECTRONIC SIREN AND PA SYSTEM		
Electronic siren and PA system	A 100-Watt minimum, 3-tone siren with Wail, Yelp, Phasor and auxiliary tones with a hardwired microphone, PA system and speaker shall be provided.	
GROUND LIGHTS		
Ground lights	• The vehicle to be fitted with six ground lights recessed into the rub rail and rear-angle plate. • Sufficient lights are to be provided to illuminate the area around the vehicle. Step and ground lights must be fitted. • 2 Ground lights each side must be cool white angled downwards and fitted in Rub Rail. • 2 Ground lights at the rear must be cool white angled downwards and fitted under vehicle. • 2 x Step lights recessed one on each side of the cab step. • Each light shall have a 400 Lumen output and project light angled downwards	
LED emergency light bar	• One (1) red LED light bar shall be mounted on chassis cab roof	

Model Description	Measurements	Service Provider submitted specifications
	and have the following specifications: ○ 1200mm ○ 24 V ○ Red with 4 X 6 LED D -Fuser corner light heads and 4 X 3 LED forward facing light heads. • 1 x 100W Integrated Speaker	
Rear emergency lights	Four (4), 2x2 Red Flashers shall be mounted on either side of the rear of the body.	
Flashers	• Two (2) Red LED lights shall be mounted on each side of the vehicle body upper level – Four in Total • One (1) Red LED light will be fitted in the rub rail in the centre of the vehicle lower level • Two (2) Red LED lights shall be mounted on the front of the vehicle • Series and brand subject to approval of the Municipality	
Light mast (Pneumatic)	• The mast shall be a pneumatic mast capable of extending above the vehicle roof and will be fitted with three of the following light heads: • A 3 x7000 lumens LED light mast to be fitted to the mast • Pneumatically operated and lowers automatically when the handbrake is released. • Power to the lights shall run from vehicle battery system • The mast must lower in a protective housing on the roof of the vehicle.	

5.2 EQUIPMENTS: THE FOLLOWING EQUIPMENTS AND TOOLS MUST BE SUPPLIED AND FITTED ON THE VEHICLE

Fire Equipment: All equipment shall be securely mounted and fitted to the vehicle	
Pike pole	One (1)
Halligan tool	One (1)
9kg DCP extinguisher	One (1)
900mm bolt cutter	One (1)
Toolbox c/w tools	One (1)
Felling axe	One (1)
Crowbar	One (1)
Spade	One (1)
Garden fork	One (1)
Road cones	Ten (10)
Step chocks set	One (1) set
Chain saw	One (1)
Suction strainer	One (1)
Suction wrenches	Two (2)
Hard suction hoses 3m	Two (2)
Three-way collecting head	One (1)
Two section extension ladder 7,3m	One (1)
Full/complete SCBA sets with cylinders (Masks, backpack, regulators etc.)	Four (4) set mounted as per
Spare Cylinders	Four (4)
Acron type pistol grip branches	Two (2)
Dividing breach	One (1)
Collecting breach	One (1)
Fire hoses, rubber 45mm x 30m	Ten (10)
Fire hoses, rubber 65mm x 30m	Ten (10)
Hydrant key cross type	One (1)
65mm hose ramps set	One (1) set
Low expansion foam branch	One (1)
Inline inductor with pick-up tube	One (1)
HYDRAULIC RESCUE EQUIPMENT:	
• 1 x Set of Hydraulic Rescue tools shall be fitted on vehicle. The tools must be fitted in custom brackets on the slide out trays of the vehicle. • Preference shall be given to tenderers who offer extended warrantees. The hydraulic rescue equipment shall be NFPA 1936 compliant. • Maximum working pressure not less than 720 bar. • Pump must have 3-stage pump technology for high flow/speed in 2nd stage and lower flow/speed in 3rd stage for more tool control. • Fitted with single maintenance friendly flat-face couplers (easy to clean) for coaxial one hose system. • Auto-lock couplers: for safety reasons couplers shall be provided with a locking device to prevent accidental uncoupling during operation (acc. EN13204 norm). • Couplers shall have a two-step unlocking system.	

Fire Equipment: All equipment shall be securely mounted and fitted to the vehicle
• Couplers should be flat-face type to prevent dirt entering the couplers and hydraulic system and for ease of cleaning the couplers. • For ease of handling the couplers shall be one hand operated and only one push needed to connect the couplers. • Possibility to dis-connect couplers without using a release valve and while the system is under flow. • The price shall include full training for individuals in the proper use and care of hydraulic rescue tools. Training shall be performed at a time and location convenient for the purchaser.

The following tools are required	
Hydraulic power unit x 1	• Engine: petrol driven; minimum 3.1 HP / 2.3 kW. • 2-tool connection / simultaneous operation of 2 tools. • Maximum working pressure not less than 720 bar. • Hydraulic pump: 2 x three-stage axial. • Flow 1st – 2nd – 3rd stage: min. 2 x 2900 – 2 x 1300 - 2 x 550 cc/min. • Capacity oil tank not less than 4000 cc. • Equipped with two single flat face auto-lock couplers for a coaxial (hose-in-hose) hose system. • Equipped with oil level indicator for quick and easy checking oil level from the outside. • Weight including hydraulic oil, engine oil, fuel and couplers shall not exceed 23 kg. • Dimensions (LxWxH) shall not exceed 455x315x460 mm. • Engine and pump unit must be fully protected by steel frame including soft grip carrying handle.
Hoses x 2 one hose system	• Max. working pressure bar/Mpa 720 / 72 • Length 10m • Fitted with two single flat-face couplers (one on each side) for coaxial one hose system • Weight, ready for use kg 4.7 • Temperature range °C -20 + 55 • NFPA 1936 compliant • EN 13204 classification • Safety factors / tests hydraulic safety ratio hose 4:1 • Supplied with: o Bend restrictor on both sides o Hose binders
Hydraulic cutter x 1	• In fully open position blades must have U-shape design allowing the blades to pull material into the cutting recess.

The following tools are required	
	• Blade opening at the tips of the blades bigger than 180 mm • Maximum force not less than 1350 kN • Equipped with a single flat face auto-lock coupler for a coaxial hose system. • Cutting round bar (acc. to EN13204) not less than 41 mm • Cutting capacity acc. EN13204 at least category K • Cutting capacity acc. NFPA1936 at least A8 B8 C7 D9 E9 F4 • To improve durability, the blades must be machined from high grade tool steel and not forged • Aluminium blade holder fitted with a set of steel protection covers to shield the front of the tool from damage during the rescue operation • Maximum working pressure not less than 720 bar. • Weight including hydraulic oil should be below 16 kg. • Dimensions (LxWxH) shall not exceed 760 x 280 x 205 mm. • To assist the operator and increase safety while working in dark or poorly lit circumstances the carrying handle shall have integrated LED lights. • Certified according to EN13204 and/or NFPA1936 norm by an independent test institute.
Hydraulic spreader x1	Minimum spreading force 25 mm from tips (acc. to EN13204) not less than 40 kN. Spreading opening not less than 725 mm. • Maximum spreading force at steel tips (not at aluminium arm) not less than 275 kN. • Pulling force not less than 45 kN. • Pulling distance not less than 610 mm. • Squeezing force not less than 55 kN. • Maximum working pressure not less than 720 bar. • Weight including hydraulic oil shall not exceed 14.5 kg. • Dimensions (LxWxH) shall not exceed 820x290x220 mm. • Fitted with a single flat-face coupler for coaxial one hose system • To assist the operator and increase safety while working in dark or poorly lit circumstances the carrying handle shall have integrated LED lights. • Certified according to EN13204 and/or NFPA1936 norm by an independent test institute.
Small telescoping RAM	• Pushing force first plunger not less than 215 kN • Pushing force second plunger not less than 100 kN

The following tools are required	
	• Number of plungers: 2 • Total stroke not less than 270 mm • Retracted length not more than 340 mm • Extended length more than 600 mm • Maximum working pressure not less than 720 bar. • Fitted with a single flat-face coupler for coaxial one hose system • Ram head equipped with integrated laser that marks the ramming spot for first time right positioning. • Weight including hydraulic oil shall not exceed 9.2 kg • Dimensions (LxWxH) shall not exceed 280x110x340 mm • Certified according to EN13204 and/or NFPA1936 norm by an independent test institute. • Equipped with high flow valve for quicker opening • To assist the operator and increase safety while working in dark or poorly lit circumstances the ram shall have a total of at least six integrated LED lights illuminating both the plunger and the base side of the ram. • The tool must be labelled with an NFPA1936 compliance label with identifying mark of the independent test institute. **Accessories** Extension pipe lengths 250 mm and 450 mm
Large telescoping RAM	• Fitted with a single flat-face coupler for coaxial one hose system • Pushing force first plunger not less than 215 kN • Pushing force second plunger not less than 100 kN • Number of plungers: 2 • Total stroke not less than 720 mm • Retracted length not more than 560 mm • Extended length more than 1280 mm • Maximum working pressure not less than 720 bar. • Ram head equipped with integrated laser that marks the ramming spot for first time right positioning. • Weight including hydraulic oil shall not exceed 15kg • Dimensions (LxWxH) shall not exceed 280x110x560 mm • Certified according to EN13204 and/or NFPA1936 norm by an independent test institute. • Equipped with high flow valve for quicker opening • To assist the operator and increase safety while working in dark or poorly lit circumstances the ram shall have an integrated LED lights illuminating both the plunger and the base side of the ram.

The following tools are required	
SCBA Sets mounting	• Four complete sets of Self-Contained Breathing Apparatus must be supplied and fitted. • The SCBA shall be mounted to the back of the rear seat with quick dawning harnesses. • The co-driver and passenger seat will be fitted with a rear SCBA bracket. • The backrest will have a bracket to stow a composite SCBA cylinder. • The backrest will consist of the following: o Frame o Tilt able Headrest o SCBA Holding Bracket, o Padded Back Support, o Headrest, o Release Mechanism. The padding and headrest will be covered with durable automotive vinyl type material that is easily washable
Accessories	One (1) each of the following accessories shall be supplied. • Vehicle hydraulic jack with handle • Wheel wrench • Pair of reflective triangles • Tool roll • owner's manual/service booklet,
Branding	Branding on the fire engine as specified by Chief Fire Officer from the municipality.

6. SUMMARY OF TENDER COSTS

Area of need	Number of required vehicles	Total
TT Cholo Fire Station	1 x Fire engine Tanker	
	Sub Total	
	VAT inclusive (15%)	
	Grand Total	

7. EVALUATION CRITERIA

The project will be evaluated in two phases, functionality and preferential point system of **80/20 point** system.

7.1 PHASE 1: FUNCTIONALITY

Bidders must score a minimum of 70 points to proceed to the next phase of evaluation.

Functionality	**Points**
Experience in Similar project (procurement and manufacturing and delivery of fire vehicles) Include minimum reference, registration plates, amounts and quantities from government departments or entities	
1 - 2 years	**30**
3 - 4 years	**70**
5 and above	**100**

7.2 PHASE 2: Price and Equity

The evaluation will be done by using **80/20**-point system as indicated below:

Preference point system	**Points**
Price	80
BBBEE SCORE	20
Total Maximum Score	**100**

8. SPECIAL CONDITIONS

The following special conditions are a requirement for this tender and failure to submit proof relating to the below requirements will lead to automatic disqualification. Note that copies of the required proof must be valid for three months from tender closing.

8.1 Proof of registration as manufacturer, importer and builder (MIB)

certificates on vehicles.

8.2 Proof of homologation certificate from NCRS.

8.3 Proof of ISO 9001-2015 registration

8.4 Proof of vehicle and equipment manuals relating to: 1x operator manual, 1x vehicle service book, 1x maintenance manual, 1x spare parts manual

9. CONTRACT PERIOD

The manufacturing of fire engines should be for eight ~~six~~ (8~~6~~) months period, after signing of service level agreement

10. BID ENQUIRIES

All matters related to the specification of this contract shall be directed to Letebele Makgoba at 015 294 1261 makgobal@cdm.org.za. All matters relating to Supply Chain Management should be directed to Ms. Violet Masemola at 015 294 1210/ masemolav@cdm.org.za; Mr. Tiro Pilusa at 015 294 1039/ pilusat@cdm.org.za.

11. CONDITIONS FOR THE BID

11.1 The employer and each Bidder submitting a Bid offer shall comply with these terms and conditions of Bid. In their dealings with each other, they shall discharge their duties and obligations timeously and with integrity, and behave equitably, honestly and transparently.

11.2 Only those bidders who have the necessary experience and skills are eligible to submit bids.

11.3 The bidder must attach following with the tender:

11.3.1 The legal registration certificates of the business entity.

11.3.2 Tax access code (pin) issued by the South African Revenue Services to verify your tax matters.

11.3.3 B-BBEE certificate or SWORN affidavit from Commissioner of Oath.

11.3.4 Proof of registration with professional authorities. (**Where Applicable**) proof of registration with the central supplier database (CSD)

11.3.5 Proof that municipal rates and taxes are not in arrears, or a lease agreement or a letter from traditional council

11.4 **The bidder must complete the attached forms** (failure to do so will result to disqualification)

11.4.1 MBD 1- Invitation to Bid

11.4.2 MBD 3.1- pricing Schedule – Firm Prices (Purchases)

11.4.3 MBD 3.2- pricing Schedule – Non-Firm Prices (Purchases)

11.4.4 MBD 4 - Declaration of Interest

11.4.5 MBD 6.1 - Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2011

11.4.6 MBD 7.2 - Contract Form - Rendering of Services

11.4.7 MBD 7.3-Contract Form-Sales of Goods /Works

11.4.8 MBD 8 - Declaration of Bidder's Past Supply Chain Management Practices

11.4.9 MBD 9 Certificate of Independent Bid Determination

11.5 Bidders must take note that briefing session will not take place. Bidders may send electronic mails enquiries related to this bid.

11.6 The bid price must remain valid for a period of 90 days calculated from the closing days.

11.7 The offer shall be open for acceptance by the Municipality during the validity period of 90 days.

11.8 The bidder or any of its directors has not:

11.8.1 Listed on the register of bid defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the state.

11.8.2 Abused the employers supply chain management system.

11.8.3 Failed to perform on any previous contract and has been given a written notice in this effect.

11.8.4 All information and details must be legible/ readable.

11.9 If the bidder fails to fulfil the contract when called upon to do so, the municipality may, without prejudice to its other rights, withdraw or cancel the contract that may have been entered into between the bidder and the Municipality.

11.10 Each communication between the Municipality and a Bidder shall be to or from the Municipality only, and in a form that can be read, copied and recorded. Writing shall be in the English language. The Municipality shall not take any responsibility for non-receipt of communications from or by a Bidder. The name and contact details of the Municipality are stated.

11.11 Accept that the employer will not compensate the Bidder for any costs incurred in the preparation and submission of a Bid offer, including the costs to demonstrate that aspects of the offer satisfy requirements.

11.12 The Municipality may accept or reject any variation, deviation, bid offer or alternative Bid offer, and may cancel the Bid process and reject all Bid offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a Bidder for such cancellation and rejection but will give written reasons for such action upon written request to do so.

11.13 No bids will be considered from persons in the service of the state (as defined in regulation 1 of the local government: municipal supply chain management regulations)

11.14 Bid documents may not be retyped, redrafted or copied. Only original copy from the municipality will be accepted.

11.15 Use of correctional fluid is prohibited

11.16 Any alteration made by the bidder must be initialled.

11.17 All pages must be initialled including pages where you have put your signature.

11.18 Successful bidder will be required to enter into formal contract with the municipality.

11.19 The Municipality address for the delivery of the bid offer package is:

Location of Bid box	Tender Box
Physical address	41 Biccard Street, Polokwane, 0699
Identification details	The procurement, manufacturing and delivery of one (1) fire engine tanker

11.20 The closing time for submission of bid offers is as stated in the bid notice and invitation to bid.

11.21 Late, Telephonic, telegraphic, telex, facsimile or e-mailed bid offers will not be accepted.

11.22 CDM is not obliged to accept the lowest or any tender submission.

11.23 Bid will be opened immediately after the closing time at the municipal Offices, at 41 Biccard Street, Polokwane.

12. ANNEXURES

Attached, find Annexure A & B (MBD 1, MBD 3.1, MBD 3.2, MBD 4, MBD 6.1, MBD 7.2, MBD 7.3, MBD 8 & MBD 9) to be completed in line with the official supply chain management policy of the district municipality.