



FOSKOR (PTY) LTD

TECHNICAL SCOPE OF REQUIREMENTS

FOR THE

SUPPLY OF A 35,000 LITER, SELF PROPELLED, 6x6 DRIVE ARTICULATED WATER BOWSER

1. INTRODUCTION

Foskor (Pty) Ltd. is an open-cast mining and beneficiation operation situated in Phalaborwa. The core business of the Phalaborwa operation is the mining and beneficiation of phosphate rock. (The Foskor operation situated in Richards Bay is a producer of phosphoric acid, phosphate-based fertilizers and lower volumes of sulphuric acid)

As part of its mining operations and for the health and safety of its employees, on-site contractors and visitors, Foskor makes use of 27,000 litre capacity, self-propelled, 6X6 drive, articulated water bowsters for dust suppression of its gravel roads. As part of its fleet replacement strategy, Foskor is now in the process of replacing one of its three water bowsters.

This document covers the minimum technical specifications and -requirements for the supply of a 35,000-litre capacity, self-propelled, 6X6 drive articulated water bowser capable of operating under Foskor extreme conditions.

The 35,000-litre capacity, 6X6 drive, self-propelled, articulated water bowser will forth be referred to as "Water Bowser"

2. BASIC REQUIREMENT

It is expected form the successful bidder to deliver to site the water bowser fully equipped, fully fuelled, ready for operation and must comply with all the specifications and requirements of this document.

The water bowser must be manufactured and tested to meet all legislative, SAE, ISO and/or SANS standards and requirements for water bowsters designed and equipped for road-wetting and dust suppression of gravel roads in an off-road, open pit mining environment.

IMPORTANT NOTICE / INSTRUCTIONS

BIDDER TO ENSURE THAT ALL ITEMS MENTIONED IN THIS SCOPE HAVE BEEN READ, IS UNDERSTOOD AND PROVIDED FOR.

ALL EVIDENCE AND INFORMATION PROVIDED MUST BE DETAILED, CLEAR AND CONTAIN SUFFICIENT INFORMATION TO ENABLE THE BID EVALUATION COMMITTEE TO MAKE A DECISIVE ASSESSMENT.

DO NOT TICK (✓), USE THE WORD "YES" OR SIMILAR SHORT STATEMENT.

**TECHNICAL EVALUATION, COMMERCIAL AND PRICING SCHEDULE and BID
ASSESSMENT (Paragraph 13)**

FAILURE TO COMPLY OR NOT TO PROVIDE REQUESTED EVIDENCE OR INFORMATION FOR TECHNICAL EVALUATION WILL RESULT IN A REDUCED SCORE THAT COULD ADVERSELY AFFECT THE BIDDERS CHANCE OF BEING AWARDED THIS CONTRACT/ORDER.

ANY BID/QUOTATION WITH A TECHNICAL EVALUATION SCORE OF LESS THAN 70% WILL NOT BE CONSIDERED.

THE PROVIDED PRICING SCHEDULE WILL BE REGARDED AT THE PRIMARY QUOTATION. FAILURE TO COMPLETE THE PRICING SCHEDULE IN FULL MAY RESULT IN REJECTION OF THE SUBMITTED QUOTE/TENDER.

3. SITE AND OPERATIONAL CONDITIONS

The water bowser will be used for gravel road wetting and dust suppression in a mining- and ore beneficiation plant environment. The water bowser must comply with all the requirements as contained in the National Road Traffic- and National Transport Acts and Regulations

The water bowser will travel on dirt roads in general all round poor, soft and/or muddy conditions, heavily corrugated, with inclines ranging from horizontal to 30 degrees in some places. Under normal conditions the water bowser will be utilised 24/365, although actual operating hours will be around 20 hours/day. It is estimated that the water bowser will annually travel between 15,000- and 20,000 kilometres (3,000- to 4,000 hours).

(It is the responsibility of the bidder to do a site study and to evaluate the suitability of the water bowser offered to the Foskor site and actual working conditions. A site visit can be arranged.)

4. BIDDER / SUPPLIER REQUIREMENTS

- a) The bidder/supplier (Company) must be an industry recognized dealer in the supply of articulated dump trucks, -water bowsters, -diesel bowsters and similar equipment used within the mining-, construction-, and industrial industries
- b) Have in the past two (2) years successfully supplied at least three (3) articulated water / diesel bowsters or similar equipment
- c) Have more than 95% of spares for proposed articulated water bowser locally (South Africa) available.
- d) Have available a fully equipped maintenance workshop able to conduct major machine repairs-, services-, component refurbishments and general maintenance requirements.
- e) Must have in its employment a fully trained and qualified field maintenance- and support team that will be on-site within 24 hours after receiving an official request or purchase order for technical assistance.

5. WATER BOWSER SPECIFICATIONS AND REQUIREMENTS

5.1. GENERAL

- a) **The water bowser must be self-propelled, 6x6 drive and articulated.**
- b) **The capacity of the chassis-cab proposed must exceed the combined weight of the tank, water contents plus all attachments by at least 10% (Ten percent)**
- c) To ensure on-site brand continuity, the self-propelled articulated water bowser must be fabricated by either Caterpillar (Barlow), Bell South Africa or Komatsu.
- d) The water bowser main tank must have a minimum capacity of at least 35,000 liters of water and must be equipped to ensure optimal efficiency and be fit-for-use under all Foskor operating conditions.
- e) The water bowser must be six-wheel drive (6X6) with all terrain capability.
- f) The water bowser must be equipped to ensure optimal efficiency under Foskor operating conditions.
- g) The water bowser offered must comply with the following standards of safety:
 - i. The Mines Health and Safety Act and Regulations, 29/1996

- ii. The National Road Traffic Act and Regulations, 93/1996
- iii. The National Transport Act and Regulations, 74/1977
- iv. All relevant SAE, ISO and SANS standards
- g) Water bowser to be fitted with all safety and reflective markings, information, notifications and warning signage as prescribed by the National Road Traffic Act, National Transport Act and any other legislative requirements not mentioned.
- h) All materials and parts used must be freely available in the Republic of South Africa for a minimum period of fifteen (15) years.
- i) All tests and inspections of the assembled water bowser and major components must be conducted at the suppliers' premises prior to dispatching to site in Phalaborwa.
- j) The supplier is responsible for the transporting to site and offloading of the water bowser.
- k) All meetings will be held on Foskor premises, unless arranged otherwise.
- l) Upon delivery, the water bowser will undergo a complete inspection to ensure that all the requirements of this SCOPE have been met.

5.2. MOUNTED WATER STORAGE TANK REQUIREMENTS

- a) Water bowser to be fitted with a securely fixed 35,000 litre (Minimum) capacity water tank.
- b) Tank shall be fabricated using 5.0 mm thick stainless plates (eg. 3CR12).
The bidder is required to also propose and include details (Cost and specifications) in official quotation on alternative materials to manufacture tank such as coated mild steel or aluminium
- c) The tank will be mounted on the truck chassis frame by means of mild steel pedestals welded to the tank with full width doubling plates. Maximum distance between pedestals 1000mm, evenly spaced.
- d) Tank to be attached to chassis using rubber blocks of minimum thickness 50mm under each pedestal and 'U' bolts around the chassis members.
- e) Tank is filled by parking the water bowser directly under a water outlet 4.4m from ground level.
Tank main filler inlet to be a funnel bolted on top and in the centre of the water tank. Funnel dimensions top 800mm square/round, bottom 400mm square/round and depth 400mm. A heavy-duty mesh (At least 10mm thick) to be bolted at bottom of funnel to prevent ingress of debris such as tree branches, leaves, plastic waste, etc.
- f) All tank corners shall be rounded with a radius of at least 300mm. No sharp corners or stress raise points.
- g) Tank shall be fitted with sufficient baffle plates to combat transverse surge of contents to ensure full control of the water bowser under any driving condition. Baffle plates must be 5.0mm thick and manufactured from the same material as the main tank.
- h) All fixtures, brackets, flanges, fitments, attachments, etc. to tank shall be welded on.
- i) Water tank to be provided with lifting lugs that have been designed to ensure safe lift and removal of empty tank from chassis.
- j) An access ladder to be provided, affixed at the top of the valance and at the bottom of the tank mounting pedestals to enable access to the filler funnel. Mounted on the top of the tank and fitted directly opposite the top end of the ladder, provide a weld-on lug whereupon a safety harness can be attached.
- k) 500 mm diameter, flanged, bolt-on manhole cover to be mounted on top of tank.
- l) Tank to be sloped at 1:50 to rear of truck when parked on a horizontal surface.
- m) Tank to be fitted with a sump at the lowest point in the tank (At rear) to collect debris and sludge accumulation. Sump depth to be at least 100 mm below bottom level of tank with a capacity of at least 5.0 litres. Sump to be fitted with a 50 mm drain valve.
- n) Tank to be fitted with an electronic level indicator securely and neatly mounted on the dash in the driver cabin. Indicator display must be easily visible for operator when in driver seat.
- o) Tank to be fitted with a sight glass water level indicator mounted on the outside of the tank, driver side. Pipe to be manufactured from Perspex or other suitable material. Pipe to be covered or protected over entire length by means of a heavy-duty wire mesh or expanded metal guard.
- p) All piping, valves, connections, level and flow indicators, pumps, switches and any other item forming an integral part of the tank shall be manufactured from rust resistant material.

5.3. ROAD WETTING SPRAY ATTACHMENT FOR DUST SUPPRESSION

- a) Road wetting attachment mounted on rear of water bowser. Spray attachment not to exceed width of water bowser.
- b) **Minimum width of spray curtain 8.0 meters and 2.0mm water film thickness whilst travelling at 25 km/h.**
- c) Water film to be of even thickness across the entire wetted surface.
- d) The pump shall be fitted at the rear of the water bowser, and easily accessible for maintenance purposes.
- e) Water feed to be supplied from a hydraulically driven high pressure centrifugal water pump with stainless steel impellor. Hydraulic feed lines from the main pump to be stainless steel and routed on outside of water tank.
- f) Make of proposed pump may only be Mather & Platt, Mono, Harland, Salweir, Omega, KSB, Galiga, Peristaltic, Nash or Anzi.
Provide pump curves and indicate design duty point.
- g) All fabricated piping, spray nozzles and shut-off valves shall be stainless steel or similar rust resistant material.
- h) Automatic pump shut off to be installed when tank water content reaches empty.

5.4. MANUALLY OPERATED WATER CANNON ATTACHMENT FOR FIRE FIGHTING

- a) High pressure manually operated water cannon with straight jet nozzle and ergonomically designed non-slip rounded handle to be mounted on water bowser with safe access and operator's platform.
- b) Water cannon to deliver a minimum of 25 liters per second of water at a distance of at least 30 meters on ground level.
- c) Water jet horizontal sweep angle of 180 degrees to rear of water truck and vertical sweep angle of between minus 10- and plus 45 degrees.
- d) When not in use, water cannon shall be securely tied down to prevent any movement or vibration that can cause damage to seals.
- e) All fabricated piping, spray nozzles and shut-off valves shall be stainless steel or similar rust resistant material.

THE FOLLOWING DETAILED INFORMATION AND SPECIFICATIONS TO BE ATTACHED TO OFFICIAL QUOTATION:
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| <ul style="list-style-type: none">• Drawing (or photos of similar installation) of proposed road spray and water cannon layout and configuration.• Make and model of proposed pump, including pump performance curves.• Make and model of proposed water cannon. |
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5.5. ENGINE

- a) Water bowser to be fitted with a turbo-diesel engine either from Komatsu, Cummins, Mercedes Benz or Perkins with a displacement of at least 14000 cm³ and minimum power rating of 330kW.
(Water bowser must be capable of ascending a road incline of 30 degrees when fully loaded without due stress to engine and drive train components)
- b) Engine exhaust emissions to meet the latest relevant ordinances
- c) Engine cooling systems must be compatible with Ethylene Glycol based antifreeze.
- d) Engine exhaust system must be securely mounted and must be routed at least 300 mm from any electrical systems, electrical wiring and hydraulic/oil systems.
- e) Micro oil and air filters to be engine manufacturer specified.
- f) Contamination control instrument couplings must be installed in order to draw oil samples

5.6. CAB

- a) A ROPS-type canopy according to ISO 3471 (1994) must be provided – or equivalent and recognized standard.
- b) A FOPS-type canopy according to ISO 3449 (1992) must be provided – or equivalent and recognized standard.
- c) - IN ACCORDANCE WITH ISO 6396 (2008) THE CAB INTERNAL SOUND LEVEL WITH DOORS AND WINDOWS CLOSED MAY NOT EXCEED 76 DB(A) UNDER NORMAL OPERATING CONDITIONS.
- IN ACCORDANCE WITH THE MHSC (Mines Health and Safety Council) MANDATE, THE NOISE EMITTED BY THE WATER BOWSER MAY NOT EXCEED 107DB(A).
NOISE LEVEL COMPLIANCE CERTIFICATE TO BE SUPPLIED WITH WATER BOWSER certifying that the cab internal noise level and machine emittance noise level do not exceed 76 DB(A) and 107 DB(A) respectively.
- d) Cab interior to be fitted with a 2.3kg, dry powder, 50% Mono Ammonium Phosphate based fire extinguisher.
Fire extinguisher to be SABS approved.
Fire extinguisher to be mounted and easily accessible.

- e) THE CAB SHALL NOT BE FITTED WITH AN ELECTRICAL CIGARETTE LIGHTER OR ANY ELECTRICAL AUXILIARY SOCKETS.
- f) All instruments must be metric and labeled in English
- g) All instruments must be illuminated
- h) Seatbelts to be in accordance with requirements of the National Road Traffic Act.
- i) Seats and all padding to be covered in heavy duty rip-stop material.
- j) Water bowser cab interior to be fitted with heavy duty vinyl or rubber type lining. No carpets.
- k) Water bowser to be supplied with high quality durable floor mats.
- l) Rear view mirrors – regular and wide angle
- m) Adjustable sun visors.

5.7. TWO-WAY RADIO

2-way radio must be installed in overhead console.

Make RTS model DV2066 programmed to the following frequencies:

Channel 1:	TX 76,375	RX 69,450
Channel 2:	TX 76,350	RX 69,425
Channel 3:	TX 76,975	RX 71,525
Channel 4:	TX 72,800	RX 72,800 (Channel 4 with CTCSS encode + decode 94,8Hz)

(Any RTS agent or Mr Danie Ferreira at dfelectronicent@gmail.com can be contacted for details)

5.8. AIR CONDITIONER

- a) The water bowser operator cab must be fitted with an air conditioner unit that is designed to maintain a cabin temperature of between 18°C and 25°C under the following given extreme Phalaborwa conditions:

PARAMETER	VALUE
Maximum outside summer temperature	45 °C
Maximum outside winter temperature	30 °C
Minimum outside winter temperature	5 °C
Approximate altitude above sea level	450 m

- b) All major components of the air conditioner, except the condenser and cab-heating unit, must be housed together in one modular unit.
- c) The compressor must be designed to deliver the required cooling output at the average engine speed encountered during the vehicle's normal operating cycle.
- d) All units offered must be ozone friendly and operate on refrigerant R134A.

5.9. BRAKES

- a) Service brake system to be hydraulically actuated fitted to all six wheels.
(Full description of the service braking system to be attached to official quotation)
- b) Water bowser to be fitted with a FAILSAFE BRAKE SYSTEM that will automatically engage the brakes in the case of hydraulic pressure failure.
(Full description of the failsafe braking system to be attached to official quotation)
- c) Water bowser to be fitted with an automatic exhaust brake and retarder system.
(Full description of the exhaust/retarder braking system to be attached to official quotation)
- d) All steel pipes in the hydraulic braking circuit must be seamless.
- e) Full description of the braking system to be attached to official quotation
- f) **SIMRET BRAKE TEST CERTIFICATE TO BE SUPPLIED WITH WATER BOWSER** certifying that the functional performance requirements of brakes were tested by a competent authority.

5.10. RIMS AND TIRES

- a) Tyres to be compatible for rough terrain operation and suitable for the water bowser (Tyre specification to be supplied with quotation)

5.11. PAINTING AND COLOUR

- a) Water bowser to be painted in Foscort corporate green (RAL 6001)
- b) All paint to be high quality SANS, ISO or SAE approved automotive paint. (Paint specification to be supplied with quotation)
- c) All water bowser decorative markings, insignia and branding may remain.

5.12. CONSPICUITY MARKING FILM AND LABELS

- a) Water bowser shall be provided with conspicuity marking strips (Tape) to show the general outline of the water bowser from the front, rear and sides, where:
 - i. SIDES: Yellow (3M Diamond grade 983-71)
 - ii. REAR: Red (3M Diamond grade 4092)
 - iii. FRONT: White (3M Diamond grade 4090)
 - iv. Tape strips shall be placed in a straight line with the least number of interferences (eg. Door handles, light lenses, exterior mirrors, etc) to clearly indicate vehicle length, width, height and general outline.
 - v. Tape strips to be cut 25mm shorter than desired length so that the strip ends short of a panel edge.
 - vi. Round corners (10mm radius) of tape strip to prevent film lifting away from surface/panel
 - vii. Tape strips to be flat and smooth, no wrinkles.
 - viii. Tape strip may not be placed on any rotating part of the water bowser.
 - ix. Tape strip may not be placed on any windows (Front, rear or side).

- b) Provide THREE (3) loose vehicle identification labels:
 - i. Dimensions 400 x 300. Corner radius 30mm.
 - ii. Material reflective 3M Digital Grade DG3 Reflective Sheeting 4083 – Yellow
 - iii. Border to be printed in Screen Print in 3M Ink Series 880i, black 12 mm thick



- c) Provide ONE (1) loose vehicle identification label:
 - i. Dimensions 750 x 250. Corner radius 30mm.
 - ii. Material reflective 3M Digital Grade DG3 Reflective Sheeting 4083 – Yellow
 - iii. Border to be printed in Screen Print in 3M Ink Series 880i, black 12mm thick



Blank identification labels to be supplied loose (Foscort will apply once fleet numbers have been allocated)

5.13. FUEL TANK

- a) Fuel tank of sufficient capacity for 8 hours continuous operation must be fitted.
- b) A level probe, indicating full, as well as 2-hour fuel reserve, must be supplied and must be connected to the Vital Signs system or warning panel.
- c) Fuel tank to be fitted with a lockable fuel cap and a Wiggins in-tank receiver with check valve and dust cap.
- d) If externally mounted, fuel tank to be provided with heavy-duty side collision protective frame (Guard)

5.14. HYDRAULIC COMPONENTS

- a) Where possible, hydraulic lines must be of steel and routed separately from electrical cables, hot engine components and exhaust system.
- b) The hydraulic pressure rating must be indicated.
- c) Hydraulic filters must be specified, and electrical bypass indication must be indicated.

5.15. LIGHTING AND ILLUMINATION

- a) Water bowser to be provided with 2 forward facing headlights (Working lights) and 2 rear facing working lights. All main, working and reverse lights (24 Volt) must be HELLA MEGA BEAM LED lights and must provide for adequate lighting for safe nighttime operation.
- b) Provide mounted HELLA LED flood lights for safe water dispensing operation. Independent ON-OFF switch to be mounted in the cab. Electrical wiring must be concealed and neatly routed within body panels and compartments.

- c) Taillights, stop lights, hazard lights and directional indicators must be HELLA LED lamps.
- d) All headlights, taillights, stop lights, reverse lights, hazard lights and directional indicators in accordance with the National Road Traffic Act.
- e) Taillights to be fitted with rugged metal guards. Guards to be affixed with corrosion resistant screws. (Guards are not to be riveted on)
- f) **ILLUMINATION CERTIFICATE TO BE SUPPLIED WITH WATER BOWSER** certifying that the functional performance requirements of all working lights were tested by a competent authority.

(The following groups supply Automotive LED globes: HELLA, AC/DC Dynamics, Electro Water Group, TRYSOME, and FARASONN Auto Electrical)

5.16. SAFETY AND WARNING DEVICES AND ALARMS

- a) Water bowser to be fitted with a lockable master switch (Bosch 4 pole master switch and isolator locking bracket (Trysome part T170015403) to disconnect negative side of battery. Switch to be mounted within the engine compartment and be easily accessible for quick isolation.
- b) Electrical horn. The sound must be clearly audible at a distance of at least 90 meters.
- c) An electrical audible back-up warning device (ECCO 787) to be fitted. The sound must be clearly audible at a distance of at least 90 meters.
- d) Water bowser to be fitted with a heavy-duty amber LED strobe light mounted in the center on the cab roof. The strobe light must be activated by means of an **independent** ON-OFF switch mounted on the dash, a LED light must indicate if strobe is ON or OFF. Electrical wires must be concealed and run neatly through body panels. **Strobe light may not be wired into the ignition or light circuit.**
- e) Water bowser to be supplied with a set of emergency warning triangles stowed in a dedicated storage compartment within the cab compartment. Triangles must be SABS approved and comply with the requirements of the National Road Traffic Act.
- f) Water bowser to be supplied with a set (2) of stop-blocks (chock-blocks):
 - i. Stop-blocks to be manufactured from all-weather heavy-duty material. Color bright yellow.
 - ii. Stop-blocks to fit wheel radius snugly and be suitable for the water bowser.
 - iii. Stop-blocks to be securely mounted in a heavy-duty steel bracket located on the driver's side of the cab in an unobstructed location and must be easily accessible.
 - iv. Stop-blocks to be fitted with non-slip pads and a handle for easy handling.

5.17. COLLISION AVOIDANCE (PROXIMITY DETECTION) SYSTEM

- a) Water bowser to be supplied with a FAVORSEA CAS-L9 (level 9) Mine Collision Avoidance System.
- b) The cabin display unit must be mounted neatly, permanently and unobstructive on the water bowser's dash and must be easily observable to the operator.
- c) Display unit must be visible at night.
- d) CAS system to be powered directly from the water bowser's own power source (No batteries)
- e) CAS system must be equipped so that when an object within a 10.0-meter distance from the water bowser is detected, an intermitting audible warning signal will activate. Noise intensity of 85 - 90dB
- f) All wiring and cabling must be neat, unobstructive and concealed within body panels.
- g) **COMPLIANCE CERTIFICATE TO BE SUPPLIED WITH THE WATER BOWSER** certifying that the CAS system was supplied, installed and commissioned by FAVORSEA Africa or an official FAVORSEA appointed agent/authority.

FAVORSEA AFRICA

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5.18. SAVER / PROTECTION SYSTEM

- a) Water Bowser must be provided with a standard factory fitted saver / protection system to ensure that the engine and major components are not endangered when the following operational parameters are exceeded.
 - i. Low engine oil pressure
 - ii. Low coolant level
 - iii. Low engine oil level
 - iv. High engine temperature
 - v. Engine over speed
 - vi. Hydraulic tank oil temperature exceeding 80°C
 - vii. Blocked engine oil filters
- b) If water bowser not fitted with a standard factory fitted saver / protection system, an AMS2000 fail save protection system to be supplied and fitted by Autoelectron cc.
- c) If applicable, **COMPLIANCE CERTIFICATE TO BE SUPPLIED WITH THE WATER BOWSER** certifying that the saver / protection system was supplied, installed and commissioned by an authorized AUTOELECTRON agent/authority.

5.19. FIRE PROTECTION EQUIPMENT

- a) Water Bowser to be fitted with an automatic & manually activated fixed nozzle fire suppression system supplied by FIREMATIC, using a minimum of 65kg of MAP 90% dry chemical agent.
Automatic fire protection system to be installed by a SANS 1475-1 authority permitted to apply a certification mark. Provision must be made to protect all major components.
- b) **COMPLIANCE CERTIFICATE TO BE SUPPLIED WITH WATER BOWSER** and shall contain at least the following:
 - i. ORIGINAL certificate authenticating that the automatic fire suppression system was fitted/mounted by a SANS 1475-1 authority.
 - ii. Name and registration certificate of the SANS 1475-1 authority.
 - iii. Date of installation
 - iv. All certificates, documents and records (Including water bowser VIN number) to be cross referenced for purposes of traceability.
- c) Water Bowser to be supplied with TWO 13.9kg (9.0kg charge), SABS approved, dry powder, 50% Mono Ammonium Phosphate based fire extinguishers mounted at an angle of 45 degrees in heavy duty quick release brackets outside on the operators' cab (One left and one right) and in an un-obstructive and easily accessible position. Fire extinguishers must comply with all SANS requirements and be SABS approved.

5.20. BATTERY ANTI-THEFT PREVENTION GUARD

- a) Water Bowser to be provided with a guard, case or similar locking mechanism to prevent battery theft.

6. DATA PACK (DOCUMENTATION AND CERTIFICATION)

The water bowser must be delivered with the following **ORIGINAL** certificates and documentation:

- a) **WARRANTY CERTIFICATES**
- b) Certificate authenticating that cab internal- and machine **NOISE LEVELS** do not exceed 76 DB(A) and 107 DB(A) respectively
- c) Certificate authenticating that the **FIRE PROTECTION SYSTEM** was fitted/mounted by a SANS 1475-1 authority.
- d) Certificate authenticating that the **CAS LEVEL-9 SYSTEM** was supplied, installed and commissioned by FAVORSEA Africa or an official FAVORSEA appointed agent/authority.
- d) **SIMRET BRAKE TEST** certificate authenticating that the functional performance of the brakes was tested by a competent authority.
- e) Illumination certificate authenticating that the working **LIGHTS** was tested by a competent authority for functional performance requirements.

7. MAINTENANCE AND OPERATOR TRAINING

- a) Supplier to provide comprehensive ON-SITE training for at least twenty (20) nominated maintenance personnel in the safe and correct manner to service, repair, maintain and carry out fault finding exercises on the water bowser.
 - i. Maintenance personnel will include all mechanical and electrical disciplines.
 - ii. Supplier to issue trained maintenance personnel with a formal certificate declaring the maintenance person competent to service, repair and maintain the water bowser.
 - iii. Training for maintenance personnel can be conducted during the first service.
- b) Supplier to provide comprehensive ON-SITE training for at least ten (10) nominated operators in the safe and correct manner to inspect and safely operate the water bowser.
 - i. Supplier to issue trained operator/s with a formal certificate declaring the operator competent to safely and correctly inspect and operate the water bowser.
 - ii. Training session can be conducted during official delivery or hand over.
- c) Maintenance and operator training to be included in the purchase price.

8. FIRST ON-SITE FULL SCHEDULED SERVICE AND INSPECTION

The supplier shall conduct the first on-site full scheduled service of the water bowser. The supplier shall supply all labour, travelling, accommodation, service kits and any other item of expense to complete the service as per the maintenance schedule. During the service the supplier shall also conduct a thorough inspection of the water bowser to ensure that the water bowser and all components are secure and functioning according to requirement. Foskor will provide lubricants and cooling fluids. (The supplier must take note that he will be required to undergo specific inductions, training and obtain authorisations before being allowed to enter and work on the Foskor site – details can be forwarded on request)

9. INFORMATION REQUIRED

The following additional information is to be submitted together with the official quotation:

- a) Details of closest service and parts center to Foskor, Phalaborwa.
- b) Names and contact details of other clients that have purchased similar machines within the past 24 months.
- c) Engine repair- and maintenance cost estimates based on 30,000 operating hours, with a minimum of 3,000 hours per year.
- d) Estimated running costs. Estimates must include detailed information on the following:
 - i. Time between overhauls and / or replacements
 - ii. Spares cost for all overhauls
 - iii. Labor hours required for overhauls.
 - iv. Quantities, replacement intervals and cost of all filters and consumables
 - v. Oil changing intervals and volumes required. Minimum ISO / SAE lubrication specifications to be included in quotation.
 - vi. Summarized detailed repair- and maintenance estimates.
(Running costs must exclude operator costs)
 - vii. Stipulate guarantee period on all major components.
 - viii. List of critical spares that must be kept on site.

10. MANUALS AND WIRING DIAGRAMS

THREE (3) SETS OF ALL REQUESTED MANUALS MUST BE IN ENGLISH AND SUBMITTED IN DURABLE AND HIGH-QUALITY BOOK OR BINDING ARCH FILE FORMAT.

ONE (1) SET OF ALL REQUESTED MANUALS MUST BE IN ENGLISH AND SUBMITTED USB FORMAT

- a) **Three “safety manuals”** containing detailed and step-by-step task descriptions for general maintenance, major component replacements and abnormal operating conditions. Task descriptions to show identified hazards and what corrective actions must be taken. (Risk assessment and safety precautions)
- b) **Three “operator manuals”** to be supplied. The operator’s manual must at least contain:
 - i. Operator responsibilities overview
 - ii. Location of machine components
 - iii. Detailed operating instructions and safe operating practices.
 - iv. A daily or pre-start check list.
 - v. A preventative maintenance and safety check list.

- vi. Maintenance work precautions
- vii. Danger and warning requirements
- c) **Three “Workshop maintenance manuals”** to be supplied. The maintenance manuals must at least contain:
 - i. Expected life of critical components.
 - ii. Comprehensive list of planned maintenance (PM) tasks (structural inspections, mechanical, electrical and electronic)
 - iii. Frequency of each PM task.
 - iv. List of spares (with part no's) and special tools required to do each PM task.
 - v. Comprehensive task description consisting of procedures and all technical information, such as pressure settings, temperature limits, torque specification, shaft alignment tolerances and voltage- & current limits, for each PM task.
 - vi. Condition monitoring information: Recommended techniques, monitoring points, alarm values, etc
 - vii. List of reconditionable components.
 - viii. Exploded view of each component.
 - ix. Strip and assembly procedures.
 - x. Logics and piping diagrams for both lubricating and hydraulic systems.
 - xi. Welding specifications for structural repairs.
 - xii. Lubrication specifications. Manual must contain at least the following information:
 - a. Full specification of the required lubricant for each application / compartment.
 - b. Quantities of initial fills
 - c. Expected consumption rate in each application.
 - d. Recommended intervals for complete lubricant charges.
 - e. A list of at least 3 approved lubricant brands (different companies and their part no)
 - f. Acceptable ISO-contamination levels in lubricants and hydraulic fluids
- d) **Three “Workshop Electrical and Electronic maintenance manuals”** to be supplied. The maintenance manuals must at least contain:
 - i. Logic and wiring diagrams of all electrical systems.
 - ii. Logic and wiring diagrams of all electronic systems.
 - iii. Fault finding and test procedures.
 - iv. Voltage and pressure settings and limits
 - v. Repair procedures for electric motors and switchgear
 - vi. Technical descriptions of all components (Power supplies, PLC's, ECM's, transducers, instrumentation, and operation interface panels)
 - vii. PLC or ECM's programming and users guide with **software**.
 - viii. Safety features
- e) **Three “Spare parts manuals”** to be supplied. The parts manual must at least contain:
 - i. A list of the top 50 moving parts.
 - ii. List of all spare parts
 - iii. Index reflecting all part no's in numerical sequence with page no's on which the part no's appear
 - iv. Special tools and their replaceable components
 - v. All accessories and their replaceable components
 - vi. Exploded view illustration of each item identified by OEM part number.
 - vii. Identification of service exchangeable items
 - viii. A list of window sizes for replacements
 - ix. Vendor brand names and vendor part numbers of all non-OEM manufactured items that are approved by the OEM.
 - x. Each hydraulic pipe described in terms of:
 - a. Rubber pipe length
 - b. Pressure rating
 - c. Internal diameter of pipe
 - d. Descriptions of standard fittings on both ends
- f) **Three “Maintenance training manuals”** to be supplied. The training manual must at least contain:
 - i. Mechanical Maintenance Training
 - ii. Electrical Maintenance Training
 - iii. Electronic Maintenance Training
 - iv. Operator Training

- v. This manual must be written from a lecturer's perspective and contain the necessary visual aids for training purposes such as transparencies, wall charts and videos.
- g) **Three "Sets electrical drawings"** including harness lay-out, wiring numbers and connectors positions.
- h) If available, three copies of sectional arrangement drawings and/or illustrations showing characteristic, features and leading dimensions of the truck in wall chart format.

11. QUALITY ASSURANCE

Quality assurance and workmanship of the supplied water bowser and/or any support, components, spares, installations, and training is the responsibility of the supplier. Omission from any prescribed or agreed upon item, procedure or service that could have an adverse effect on the quality of the water bowser and/or any support, components, spares, and training will be brought to the attention of the supplier. Failure by the supplier to correct any reported defects or to show objective evidence of acceptable conformance to requirements will result in immediate termination of contract.

Components or systems not fitted by the OEM (Original Equipment Manufacturer) shall meet the OEM standards and be approved by the OEM, who will carry the full responsibility and guarantee.

12. AFTER SALES SERVICE

- a) Full guarantee on water bowser and all spares, major and minor components, materials, equipment, auxiliaries, and installations for a minimum period of at least 12 months / 4000 hours or alternatively standard water bowser warranty to be mentioned in the official tender.
- b) **Full description of planned support during AND after the guarantee period to be attached to the official quotation.**

13. TECHNICAL EVALUATION, COMMERCIAL AND PRICING SCHEDULE and BID ASSESSMENT

IMPORTANT NOTICE

It remains the responsibility of the bidder to ensure that the above-mentioned specifications and requirements have been read, is understood and provided for in the official quotation.

To assist the bidder and to ensure that all items listed in this SCOPE have been provided for, and to assist with the tender evaluation process, the bidder is required to complete following tables.

**DO NOT OMIT ANY INFORMATION AS REQUESTED IN THE TABLES BELOW
INFORMATION AND DETAILS MUST BE PROVIDED FOR EACH ITEM.**

ATTACH AND REFERENCE IF SPACE INSUFFICIENT

**INFORMATION PROVIDED MUST BE DETAILED AND CLEAR AND CONTAIN SUFFICIENT
INFORMATION TO ENABLE BID EVALUATION COMMITTEE TO MAKE A DECISIVE
ASSESSMENT.**

DO NOT ONLY TICK (✓) OR USE THE WORD YES.

13.1. TECHNICAL EVALUATION

FAILURE TO COMPLY OR NOT TO PROVIDE REQUESTED EVIDENCE OR INFORMATION WILL RESULT IN A REDUCED TECHNICAL EVALUATION SCORE THAT COULD ADVERSELY AFFECT THE BIDDERS CHANCE OF BEING AWARDED THIS CONTRACT/ORDER.

ANY BID/QUOTATION WITH A TECHNICAL EVALUATION SCORE OF LESS THAN 70% WILL NOT BE CONSIDERED.

		% WEIGHTING	PROVIDE REQUESTED INFORMATION AND DETAILS Provide specifications AND use the following typical statements: "Included" / "Not included" "Cannot supply" "Standard fitment" "Comply" provide evidence "Not comply" give reasons
1.	<p>Bidder/supplier (Company) is an industry recognized dealer in the supply of articulated dump trucks, -water bowzers, -diesel bowzers and similar equipment used within the mining-, construction-, and industrial industries.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ul style="list-style-type: none"> i. Company details, brochure, etc as industry recognized dealer in articulated dump trucks, -water / diesel bowzers or similar equipment. ii. Evidence that more than 95% of spares for proposed articulated water bowser is locally (South Africa) available. iii. Details of a fully equipped maintenance workshop available to conduct major machine repairs-, services-, component refurbishments and general maintenance requirements. iv. Confirmation of a fully trained and qualified field maintenance- and support team that will be on-site within 24 hours after receiving an official request or purchase order for technical assistance. <p>WEIGHTING:</p> <ul style="list-style-type: none"> - No information = 0.0 - Business activities not applicable to this supply request = 0.0 - Can supply bowser, no workshop, -spares supply or -field team = 0.1 - Can supply bowser and spares, no workshop or -field team = 0.2 - Can supply bowser, spares and has workshop, no field team = 0.5 - Can supply bowser, spares, workshop & field maintenance team = 1.0 	10%	<p><i>Attach and reference if space for requested information is insufficient</i></p>

2.	<p>Have in the past two (2) years successfully sold / supplied at least three (3) articulated water / diesel bowzers or similar equipment to other clients</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ul style="list-style-type: none"> i. Client name/s where articulated diesel/water bowzers supplied. ii. Description and capacity of bowzers supplied. iii. Bowser delivery dates. iv. Client contact person/s name and contact numbers. v. Business sector of the client, i.e. mining, construction, forestry, etc. vi. Any other supportive, applicable or relevant information to provide/show objective evidence that at least three similar water/diesel bowzers sold in past two (2) years. <p>WEIGHTING:</p> <ul style="list-style-type: none"> - No information / No bowzers sold/supplied = 0.0 - One (1) bowser sold in past two years, no information = 0.0 - One (1) bowser sold in past two years, requested info provided = 0.2 - Two (2) bowzers sold in past two years, no info provided = 0.2 - Two (2) bowzers sold in past two years, requested info provided = 0.6 - Three (3) bowzers sold in past two years, no info provided = 0.2 - Three (3) bowzers sold in past two years, info provided = 1.0 	5%	<p><i>Attach and reference if space for requested information is insufficient</i></p>
3.	<p>Self-propelled articulated water bowser fabricated by either Caterpillar (Barlow), Bell South Africa or Komatsu.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ul style="list-style-type: none"> i. Make and model of basic truck (Chassis cab) proposed. ii. Details/specifications that truck manufactured according to all SAE, ISO and SANS specifications for water transport and dispensing vehicles and for 6X6 drive, rough terrain articulated trucks. iii. Design capacity of chassis-cab proposed will exceed combined weight of tank, water contents plus all attachments by at least 10% (Ten percent) <p>WEIGHTING:</p> <ul style="list-style-type: none"> - No information = 0.0 - Not CAT, Bell or Komatsu. No details/specifications = 0.0 - Not CAT, Bell or Komatsu. Compliant/Suited = 0.2 - Make CAT, Bell or Komatsu. No details/specifications = 0.0 - Make CAT, Bell or Komatsu. Not compliant/Not suited = 0.0 - Make CAT, Bell or Komatsu. Compliant/Suited = 1.0 	10%	<p><i>Attach and reference if space for requested information is insufficient</i></p>

4.	<p>Water bowser fitted with a turbo-diesel engine from either Komatsu, Cummins, Mercedes Benz or Perkins, has a displacement of at least 14000 cm³, minimum power rating of 330kW and capable of ascending a road incline of 30 degrees when fully loaded without due stress.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ol style="list-style-type: none"> Make and model of engine to be fitted. Engine details/specifications. <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information, details or specifications = 0.0 Not Komatsu, Cummins, Mercedes Benz or Perkins = 0.0 Engine power rating <300 kW = 0.0 Engine power rating 300 – 330kW = 0.5 Engine power rating >330kW = 1.0 	5%	Attach and reference if space for requested information is insufficient
5.	<p>Confirm spares / parts will be freely available in South Africa for a minimum period of fifteen (15) years.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <p>Provide confirmation, company policy, etc.</p> <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information / confirmation= 0.0 Provided information / confirmation spares available >15 years = 1.0 	2%	Attach and reference if space for requested information is insufficient
6.	<p>Confirm 35,000 litre water tank will be designed and fabricated in accordance with all the requirements as specified in paragraph 5.2 MOUNTED WATER STORAGE TANK REQUIREMENTS of this document and will be capable of safely loading, transporting and spraying water on roads for the purpose of dust suppression.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ol style="list-style-type: none"> Schematic line drawing of proposed 35,000 litre water tank design with road wetting spray attachment, water cannon, access ladder, etc. Material type (Stainless, eg. 3CR12) and thickness to be used. Proposal of alternative rust resistant materials to be used. <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information, details or specifications = 0.0 Schematic line drawing provided = 1.0 None-rust resistant material with no-coating proposed = 0.0 Rust resistant material with coating proposed = 0.5 Stainless (3CR12) or similar rust resistant material = 1.0 	5%	Attach and reference if space for requested information is insufficient

7.	<p>Confirm road wetting spray attachment for dust suppression will be designed and fabricated from rust resistant material in accordance with all the requirements as specified in paragraph 5.3 ROAD WETTING SPRAY ATTACHMENT FOR DUST SUPPRESSION, will not exceed width of water bowser, minimum spray curtain width 8.0 meters and 2.0mm even water film thickness whilst travelling at 25 km/h.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ol style="list-style-type: none"> Schematic line drawing of road wetting spray attachment. Material type to be used to fabricate road wetting spray attachment. Make of proposed pump. Attach pump curves and indicate duty point. Details of pump drive system <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information, details or specifications = 0.0 Proposed make of pump non-compliant = 0.0 Proposed make of pump compliant, no pump curves provided = 0.7 Proposed make of pump compliant, pump curves provided = 1.0 Schematic line drawing provided = 1.0 None-rust resistant material with coating proposed = 0.5 Attachment fabricated from stainless or rust resistant material = 1.0 	5%	<i>Attach and reference if space for requested information is insufficient</i>
8.	<p>Confirm a high pressure, manually operated water cannon with straight jet nozzle able to deliver a minimum of 25 liters per second of water at a distance of at least 30 meters will be provided.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ol style="list-style-type: none"> Make of proposed water cannon. Schematic line drawing of water cannon attachment, piping arrangement and operator's platform. <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information, details or specifications = 0.0 Proposed make of water cannon provided, no schematic drawing = 0.5 Line drawing of water cannon and arrangement provided = 1.0 	2%	<i>Attach and reference if space for requested information is insufficient</i>
9.	<p>Confirm water bowser to be supplied with a FAVORSEA CAS-L9 (Leve-9) Mine Collision Avoidance System installed and commissioned by FAVORSEA Africa or an official FAVORSEA appointed agent/authority as per 5.17 COLLISION AVOIDANCE (PROXIMITY DETECTION) SYSTEM.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ol style="list-style-type: none"> Verification that a FAVORSEA L9 CAS will be supplied, installed and commissioned by FAVORSEA Africa. Confirm, compliance certificate will be included <p>WEIGHTING:</p> <ul style="list-style-type: none"> No information, confirmations, details or specifications = 0.0 Comply, FAVORSEA CAS supplied, installed and certified = 1.0 	10%	<i>Attach and reference if space for requested information is insufficient</i>

10.	<p>FIREMATIC automatic fire protection system, minimum 65kg MAP 90% dry chemical agent installed by a SANS 1475-1 authority</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ul style="list-style-type: none"> i. Verification that a FIREMATIC auto fire suppression system will be supplied, installed and commissioned by a SANS 1475-1 authority. ii. Confirm, compliance certificate will be included <p>WEIGHTING:</p> <ul style="list-style-type: none"> - No information, confirmations, details or specifications = 0.0 - Comply, FIREMATIC supplied, installed and certified = 1.0 	5%	Attach and reference if space for requested information is insufficient
11.	<p>Water bowser painted in Foskop corporate green (RAL 6001) using high quality SANS, ISO or SAE approved automotive paint.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <ul style="list-style-type: none"> i. Confirmation water bowser will be painted in Foskop corporate green. ii. Paint quality specification. <p>WEIGHTING:</p> <ul style="list-style-type: none"> - No information, confirmations, details or specifications = 0.0 - Will comply, no paint specifications provided = 0.5 - Will comply, paint specifications provided and compliant = 1.0 	2%	Attach and reference if space for requested information is insufficient
12.	<p>Water bowser cab is ROPS compliant (ISO 3471 1994)</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <p>Verification that water bowser cab is ROPS ISO 3471 compliant or complies with other equivalent and recognized standard.</p> <p>WEIGHTING:</p> <ul style="list-style-type: none"> - Not comply, no information, no details or no specifications = 0.0 - Cab complies with ROPS ISO 3471 or -equivalent standard = 1.0 	2%	Attach and reference if space for requested information is insufficient
13.	<p>Water bowser cab is FOPS compliant (ISO 3449 1992)</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <p>Verification water bowser cab is FOPS ISO 3449 compliant or complies with other equivalent and recognized standard.</p> <p>WEIGHTING:</p> <ul style="list-style-type: none"> - Not comply, no information, no details or no specifications = 0.0 - Cab complies with FOPS ISO 3449 or equivalent standard = 1.0 	2%	Attach and reference if space for requested information is insufficient
14.	<p>In accordance with ISO 6396 water bowser internal cab sound level does not exceed 76DB.</p> <p>PROVIDE / INFORMATION REQUIRED:</p> <p>Verification water bowser cab internal sound level does not exceed 76DB.</p> <p>WEIGHTING:</p> <ul style="list-style-type: none"> - Not comply, no information, no details or no specifications = 0.0 - Comply, internal cab sound level does not exceed 76DB = 1.0 	2%	Attach and reference if space for requested information is insufficient

15.	<p>In accordance with the MHSC mandate, noise emitted by water bowser does not exceed 107DB.</p> <p>PROVIDE / INFORMATION REQUIRED: Verification noise emitted by water bowser does not exceed 107DB.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, noise emitted by water bowser does not exceed 107DB = 1.0</p>	2%	<i>Attach and reference if space for requested information is insufficient</i>
16.	<p>RTS model DV2066 two-way radio installed in overhead console.</p> <p>PROVIDE / INFORMATION REQUIRED: Verification that DV2066 two-way radio will be installed in overhead console.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, two-way radio will be installed in overhead console = 1.0</p>	1%	<i>Attach and reference if space for requested information is insufficient</i>
17.	<p>Air-conditioner able to handle extreme given Phalaborwa summer conditions</p> <p>PROVIDE / INFORMATION REQUIRED: i. Verification that air-conditioner will handle extreme Phalaborwa summer conditions. ii. Provide air-conditioner operating specifications.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, can handle extreme Phalaborwa summer conditions = 1.0</p>	2%	<i>Attach and reference if space for requested information is insufficient</i>
18.	<p>Seats, doors and sun visor covered in heavy duty rip-stop material</p> <p>PROVIDE / INFORMATION REQUIRED: Verification that seats, doors and sun visor will be covered in heavy duty rip-stop material.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, rip-stop material will be applied = 1.0</p>	0.5%	<i>Attach and reference if space for requested information is insufficient</i>
19.	<p>Rims and tires suited for the water bowser and rough terrain compatible</p> <p>PROVIDE / INFORMATION REQUIRED: i. Verification that rims and tires are rough terrain compatible. ii. Provide tire specification (Size, compound, tread pattern, etc.).</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, rims and tires are rough terrain compatible = 1.0</p>	2%	<i>Attach and reference if space for requested information is insufficient</i>

20.	Fail safe brake system fitted PROVIDE / INFORMATION REQUIRED: i. Verification fail-safe brake system fitted. ii. Provide description and specifications of fail-safe brake system iii. SIMRET BRAKE TEST certifying that the functional performance requirements of brakes were tested by a competent authority WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, fail-safe brake system installed = 1.0	4%	Attach and reference if space for requested information is insufficient
21.	Fuel tank fitted with Wiggins in-tank receiver with check valve and dust cap PROVIDE / INFORMATION REQUIRED: Verification that fuel tank will be fitted with Wiggins in-tank receiver. WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, Wiggins in-tank receiver with check valve installed = 1.0	0.5%	Attach and reference if space for requested information is insufficient
22.	1) Conspicuity marking (tape) requirements. 2) Three 400x300 and one 750x250 "Blank" identification labels. (Supply loose) PROVIDE / INFORMATION REQUIRED: Verification that conspicuity tape and labels will be supplied. WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, conspicuity tape and labels supplied = 1.0	0.5% 0.5%	Attach and reference if space for requested information is insufficient
23.	1) Main and reverse lights HELLA MEGA BEAM LED 2) Two rear facing working lights HELLA MEGA BEAM LED 3) Tail-, stop-, hazard- and directional indicators HELLA LED lamps 4) Mounted HELLA LED flood lights for safe water dispensing operation. Independent ON-OFF switch in cab. 5) Heavy duty amber LED strobe light with independent on-off switch PROVIDE / INFORMATION REQUIRED: i. Verification that requested HELLA LED lights will be supplied. ii. Confirm, illumination certificate will be included WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, HELLA LED lights supplied with illumination certificate = 1.0	0.5% 0.5% 0.5% 0.5% 0.5%	Attach and reference if space for requested information is insufficient

24.	<p>1) Audible back-up warning device (ECCO 787), audible at 90 meters.</p> <p>2) Bosch 4 pole master switch and isolator locking bracket (Trysome part.T170015403)</p> <p>3) Set (2) off emergency warning triangles in dedicated storage rack</p> <p>4) Set (2) off stop-blocks externally mounted in steel bracket for easy access</p> <p>5) Two (2) 9.0kg charge, 45° externally mounted (Left and Right of cab) fire extinguishers in heavy duty quick release brackets.</p> <p>PROVIDE / INFORMATION REQUIRED: Verification that requested safety devices will be supplied.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, requested safety devices supplied / installed = 1.0</p>	<p>0.5%</p> <p>0.5%</p> <p>0.5%</p> <p>0.5%</p> <p>0.5%</p>	<p><i>Attach and reference if space for requested information is insufficient</i></p>
25.	<p>Guard, case or similar locking mechanism to prevent battery theft</p> <p>PROVIDE / INFORMATION REQUIRED: Battery locking mechanism to prevent battery theft provided (Included) in official quotation.</p> <p>WEIGHTING: - No information. Battery anti-theft mechanism not provided = 0.0 - Battery anti-theft mechanism provided = 1.0</p>	<p>0.5%</p>	<p><i>Attach and reference if space for requested information is insufficient</i></p>
26.	<p>1) On-site training for twenty (20) maintenance personnel (Mechanical and electrical), including training certificates.</p> <p>2) On-site training for ten (10) operational personnel, including training certificates.</p> <p>PROVIDE / INFORMATION REQUIRED: Verification that requested operational and maintenance training will be supplied.</p> <p>WEIGHTING: - Not comply, no information, no details or no specifications = 0.0 - Comply, requested training will be supplied / provided = 1.0</p>	<p>5%</p> <p>3%</p>	<p><i>Attach and reference if space for requested information is insufficient</i></p>
27.	<p>Requested information to be submitted together with the official quotation</p> <p>PROVIDE / INFORMATION REQUIRED: Closet service/parts center to Phalaborwa, other client details, maintenance- and running costs, guarantees, etc.</p> <p>WEIGHTING: - No information provided = 0.0 - All requested information provided = 1.0</p>	<p>0.5%</p>	<p><i>Attach and reference if space for requested information is insufficient</i></p>

28.	<p>Provide first on-site scheduled service and inspection of the water bowser, including the supply of labour, travelling, accommodation and service kits.</p> <p>PROVIDE / INFORMATION REQUIRED: First on-site schedule service and inspection provided (Included) in official quotation.</p> <p>WEIGHTING: - No information. Service not included = 0.0 - Yes, bidder/supplier to conduct first scheduled service on-site = 1.0</p>	2%	Attach and reference if space for requested information is insufficient
29.	<p>Three (3) full sets of mechanical and electrical workshop maintenance, wiring (Including wiring diagrams) and spares parts manuals. Only hard copies</p> <p>PROVIDE / INFORMATION REQUIRED: Three (3) full sets of workshop spares parts- and maintenance manuals provided for (Included) in official quotation.</p> <p>WEIGHTING: - No information. Manuals not provided = 0.0 - Only service manuals, soft copy = 0.1 - Only service manuals, hard copy = 0.2 - Full workshop maintenance- and parts manuals, soft copy = 0.9 - Full workshop maintenance- and parts manuals, hard copy = 1.0</p>	5%	Attach and reference if space for requested information is insufficient
30.	<p>Three (3) full sets operator and training manuals</p> <p>PROVIDE / INFORMATION REQUIRED: Three (3) full sets operator and training manuals provided (Included) in official quotation.</p> <p>WEIGHTING: - No information. Manuals not provided = 0.0 - Training and -operator manuals provided = 1.0</p>	2%	Attach and reference if space for requested information is insufficient
31.	<p>Guarantees and after sale support service</p> <p>PROVIDE / INFORMATION REQUIRED: Guarantees and after sales support service provide in official quote.</p> <p>WEIGHTING: - No information, no guarantees, no after sales support provided = 0.0 - < 6 months / 2000 hours = 0.2 - < 12 months / 4000 hours = 0.7 - >12 months / 4000 hours = 1.0</p>	1%	Attach and reference if space for requested information is insufficient

32.	Data pack provided with water bowser delivery. PROVIDE / INFORMATION REQUIRED: Confirmation in official tender that the following certificates to confirm compliance will be supplied upon delivery of the water bowser: <ul style="list-style-type: none"> • Guarantees, warranty and after-sales service • Internal cab and machine noise level compliance • Automatic fire suppression system installation • CAS level 9 installation • Brake test functionality • Illumination functionality WEIGHTING: - No information. Data pack not included = 0.0 - Yes, bidder/supplier will provide requested data pack = 1.0	2%	<i>Attach and reference if space for requested information is insufficient</i>
33.	Water bowser delivered and unloaded at Foskor mine, Phalaborwa, South Africa PROVIDE / INFORMATION REQUIRED: Water bowser delivery provided (Included) in official quotation. WEIGHTING: - No information. Will not deliver = 0.0 - Will deliver = 1.0	2%	<i>Attach and reference if space for requested information is insufficient</i>
34.	Water bowser delivered fully fuelled PROVIDE / INFORMATION REQUIRED: Water bowser delivered fully fuelled provided (Included) in official quotation. WEIGHTING: - No information. Water bowser not delivered fully fuelled = 0.0 - Will be delivered fully fuelled = 1.0	0.5%	<i>Attach and reference if space for requested information is insufficient</i>
		100%	

13.2. PRICING AND COMMERCIAL EVALUATION

THE FOLLOWING PRICING SCHEDULE (Or equivalent compiled document) WILL BE REGARDED AT THE PRIMARY QUOTATION. FAILURE TO COMPLETE THE PRICING SCHEDULE IN FULL MAY RESULT IN REJECTION OF THE SUBMITTED QUOTE/TENDER.

- All quoted process to be exclusive of VAT (Value Added Tax)
- If any minimum requirements may alter or be added for whatever reason, it will be brought to the attention of the bidder/service provider before the closing date for the submission of tenders.
- Detailed description of any items or conditions that the bidder does not meet to be attached to the official quotation.
- The bidders standard service warranty agreement to be attached to the official tender.
- Any other optional support, spares, training or guarantee not mentioned in this scope may be noted on the official tender.
- If any minimum requirements that may alter or be added for whatever reason, it will be brought to the attention of the bidder before the closing date for the submission of the tender.
- Foskor reserves the right to remove any listed item.

PRICING SCHEDULE

PARAGRAPH REFERENCE	ITEM DESCRIPTION	PRICING (Excl VAT)
5.1 5.5 5.6 5.8	6x6, self propelled, articulated truck (Chassis-Cab)	R
5.2	35,000 liter mounted water tank (Fabricated from 3CR12 Material)	R
5.3	Road wetting spray attachment	R
5.4	Water cannon attachment for fire fighting	R
5.6.d	2.3kg fire extinguisher fitted in cab	R
5.6.i	Seats and all padding in rip-stop material	R
5.6.k	High quality floor mats	R
5.7	RTS model DV2066 two-way radio	R
5.11	Water bowser painting and color requirements	R
5.9.f	Brake compliance test and certification (SIMRET)	R
5.12	Conspicuity marking film and labels	R
5.13	Wiggins in-tank fuel receiver with check valve	R
5.15	All working lights Hella LED	R
5.15.f	Illumination compliance test and certification	R
5.16.a	Bosch 4 pole master lockout switch	R
5.16.c	Electrical audible back-up warning device	R
5.16.d	Heavy-duty amber LED strobe light	R
5.16.e	Emergency warning triangles in dedicated storage compartment	R
5.16.f	Set (2) of stop-blocks (chock-blocks) in heavy-duty steel bracket	R
5.17	CAS level 9 installed and commissioned by FAVORSEA AFRICA	R
5.18	AMS Saver / Protection system (Only if no factory fitted system)	R
5.19.a	FIREMATIC automatic fire suppression system	R
5.19.c	Two (2) externally mounted 13.9 kg fire extinguishers	R
5.20	Battery anti-theft prevention guard	R
6	DATA PACK (Warranty-, noise-, auto-fire-, CAS L9-, brake test- and lighting certificates)	R
7.a	On-site training for 20 maintenance personnel	R
7.b	On-site training for 10 operational personnel	R
8	First on-site full scheduled service and inspection	R
10	Three (3) full sets maintenance and other requested manuals in HARD copy format	R
10	One (1) full set maintenance and other requested manuals in USB soft copy format	R
2	Water bowser delivered to and unloaded at site in Foskor, Phalaborwa	R
2	Water bowser delivered fully fueled	R
	ANY OTHER ITEMS NOT LISTED ABOVE	R
	1	R
	2	R
	3	R
	4	R
	5	R
TOTAL		R