	<p align="center">REQUEST FOR QUOTATION</p> <p align="center">RFQ Number: Q24/024/LD</p>	<p>Form No: UW-RFQ-2 Version No: 3/2023 Effective Date: Jul 2023</p>
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TERMS OF REFERENCE

1. Background

Umngeni Uthukela Water requires to rehabilitate its vandalized fencing in order to protect its critical spars and infrastructure.

Umngeni Uthukela Water is therefore requiring services of fencing contractors for the rehabilitation and re construction/ erecting of damaged and in some section new fencing and gates at Umlaas road Pipe yard and the 45 ML reservoir.

2. Description of goods/ services required

The service provider is expected to supply and erect and repair fencing at Umlaas.

3. Technical Specification

The scope involves the following:

- Clearance of fence route
- Supply and install 220 m x 2.4 m height standard density ripper welded razor diamond mesh fencing
 - 76 mm round tube main post hot –dip galvanised
 - 50 mm round tube intermediate posts hot dip galvanised
 - 38 mm round tube support stays
- Supply and Install 285 m X 2.4 m height welded mesh fencing
 - 76 mm round tube main post hot –dip galvanised
 - 50 mm round tube intermediate posts hot dip galvanised
 - 38 mm round tube support stays
- Repairs to existing fencing – 2.4 m welded mesh fencing
 - Precast concrete post
 - Barbed wire strand
- Supply and installation of razor diamond mesh wire
- Installation of 4 no. of gates
- All completed fences shall be plumb, taut to line and ground contour, with all posts, standards and stays firmly set.


Removal of Existing Fences

- Contractor will be responsible to remove and dispose of existing fence if the fence needs to be replaced. If old fence is still in a condition to be used elsewhere it needs to be transported to the Umngeni water civil workshop for safekeeping. Contractor must provide a price per running meter to remove and dispose of existing fence and poles.

Site works

- The Contractor shall, on completion of each section of fence, remove all cut-offs and other loose wire so as not to create a hazard. The contractor must remove and dispose of any spoil materials and rocks and leave the works neat and tidy on completion. Contractors need to provide a rate for rock excavation per cubic meter in the pricing schedule.

Ad-hoc / Minor Repairs / General works

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- This work needs to be done on fences that are still in good condition but need minor repairs or adjustments. This would include fixing holes in fences, straightening fencing, wires and replanting of poles. The contractor shall be required to submit a quote for the cost of the transport and materials + % mark-up + will have to supply us with labour prices in order to do the works based on the various labour components that will be used ex. Foreman/driver, Artisans, semi-skilled labour and general labourer to complete the works. Supply all labour and material for the works.

Foundations:

- Foundation sizes for 2.4 m high fences: 400mm x 400mm x 600mm deep.

Bolts for Stays

All bolts for stays shall be galvanized steel bolts of the required length and diameter, which shall not be less than 12mm diameter. The contractor must supply all the necessary bolts together with nuts and washers. Above-mentioned items must be hot dipped galvanized in accordance with SANS 763 type C1.

Wire

- Smooth wire shall comply with the requirements of SANS 675 and shall be of the types specified below:
- Fencing wire shall be 3.15mm diameter heavy-duty galvanized wire to SANS 675
- Specification or in the case of PVC coated fences PVC coated wire must be used. Tying wire shall be 2mm diameter mild steel heavy galvanized wire or PVC coated for tying fencing wire to post and droppers and 1.6mm mild steel heavy galvanized wire or PVC coated for tying netting and mesh wire to fencing wire.
- All fencing wire shall be wired to the sides of posts to prevent the wires from being displaced or becoming loose. The wire shall be carefully stretched and hung without sag, and with true alignment, care being exercised not to stretch the wire so tightly that it will break or that end, corner, straining posts will be pulled up.
- Each strand of fencing wire shall be securely fastened in the correct position to each post with soft galvanized binding wire or wire staples. The binding wire for each horizontal fence wire shall pass through a hole or notch in the post to prevent slipping of the fence wire in a vertical direction, while the ends of the wire shall be wound at least four times around the fencing wire to prevent it moving in a vertical direction.

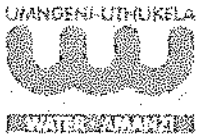
Galvanized Welded Mesh (2.4m)

Weld mesh 50mm x 50mm x 3.15mm (class C) thick shall be used. The welded mesh shall comply with the requirements of SANS 1024. Weld mesh shall be stretched against the fence and properly tied to the fencing wire. Weld mesh shall be secured by means of soft binding wire at 1.0m centres along all the fencing wires.

Anti-climb/Ripper Welded Razor mesh fencing (2.4m) and Standard Density

Welded Razor Mesh (2.4m) (Cochrane or similar) (and panel sizes for Welded Razor Mesh

Item	Description	Width	Height
7.8.1.	Standard:		
(a)	Centre to Centre	150mm	300mm
(b)	Aperture	125mm	250mm

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7.8.2.	High density:		
(a)	Centre to Centre	75mm	150mm
(b)	Aperture	50mm	95mm
(c)	Panel size	6m	2400mm

Barb Wire Fences and Smooth wire fence

- Barb Wire 2 x 2.00mm diameter wire to be used and must be fully galvanized. Smooth wire 4mm diameter stainless steel wire to be used. Wire must comply with the SANS requirements. The number of strands of fence wires for a 2.4 meter high fence is 12. Barb wire shall be stretched and securely fastened to the fence poles. Fence wires may be either barbed wire or smooth wire or a combination of barbed and smooth wire.
- 1 Strand Barb Wire be erected on top of a Welded Mesh Fence and Diamond mesh fence and must be priced accordingly.

Flat wrap razor wire and barbed tape razor wire

The flat wrap consists of a 500 mm single strand spring steel wire 2.5mm diameter heavy galvanized to which a razor tape has been attached. Flat wrap razor wire or barbed tape wire to be securely fixed at the top of the fences where necessary.

If necessary extended arm brackets must be secured on top of the fence to enable the contractor to fix the razor wire or barbed tape to the top of the fence. The coils shall be securely tied to the extension arms with 1.6mm galvanized steel wire at each post. Steel strands (3) (top, middle and bottom) to be stretched and secured to the extended arm brackets and razor wire fixed onto it. Razor wrap shall be securely tied to the steel strands using 1.6mm wire. Each 500mm circle of razor wire shall be tied at three places..

Gates (galvanized, standard pipe diameters)

All Gates installed need to be securely fixed to fencing poles. All gates to be hot dip Galvanized.

All Gates must be covered with welded mesh unless diamond mesh, Anti Climb welded mesh or welded razor mesh is specified in the requirements whereby a per meter rate would apply for other material other than welded mesh.

Item	Pipe Diameter	Type	Width (mm)	Height (mm)
a	43	Double Leaf Gate	5000	2400+450

Applicable national and international standards

SANS 675

SANS 763

SANS 1024

The Manufacturer should be ISO 9001 certified and the product should be SABS certified.

The sourced material should comply to SANS 1200 certified.

Format of communications

Communication will be conducted telephonically and via e-mail.