



**APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT, REPAIR AND
MAINTENANCE OF BULK WATER PIPES AROUND DR J.S MOROKA LOCAL
MUNICIPALITY AS AND WHEN REQUIRED FOR A PERIOD OF 36 MONTHS
(Rates Only)**

C 2.2. BILL OF QUANTITIES

C2.2: BILL OF QUANTITIES

TENDER NO. JSM: REPLACEMENT,REPAIR AND MAINTENANCE OF BULK WATER INFRASTRUCTURE-JSM/MB-WP/04/22-23

APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT, REPAIR AND MAINTENANCE OF BULK WATER INFRASTRUCTURE AS AND WHEN REQUIRED FOR A PERIOD OF 36 MONTHS (Rates Only)

PRICE SCHEDULE

NOTE 1: The tender will be evaluated and awarded FOR THE WHOLE BILL OF QUANTITIES. Tenderers must tender on all sub-items per section. Tenderers, who did not tender on all sub-items per section, will automatically be disqualified.

NOTE 2: The quantities indicated are only approximate figures for evaluation purposes and the Municipality does not guarantee to purchase this or any quantity.

NOTE 3: The tendered rate shall include auxiliary services for the specified items in the Bill of Quantities.

NOTE 4: All the items in the Bill of Quantities must comply with SABS standards.

REPAIRS AND MAINTENANCE OF BULK WATER INFRASTRUCTURE

ITEM	SERVICE	CLASS/TYPE	UNIT	SIZE/QUANTITY PER RATE	RATE
1.	uPVC PIPES (SABS 966 Part 1)				
	Diameter 160 mm	16	meter	Per meter	
	Diameter 200 mm	20	meter	Per meter	
	Diameter 315 mm	20	meter	Per meter	
	Diameter 355 mm	20	meter	Per meter	
	Diameter 400 mm	20	meter	Per meter	
	Diameter 450 mm	20	meter	Per meter	

Tenderer

Witness 1

Witness 2

Employer

Witness 1

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	Diameter 500 mm	20	meter	Per meter	
	Diameter 250 mm	20	meter	Per meter	
	Diameter 160 mm	9	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 200 mm	9	meter	Per meter	
	Diameter 315 mm	9	meter	Per meter	
	Diameter 355 mm	9	meter	Per meter	
	Diameter 400 mm	9	meter	Per meter	
	Diameter 450 mm	9	meter	Per meter	
	Diameter 500 mm	9	meter	Per meter	
	Diameter 160 mm	12	meter	Per meter	
	Diameter 200 mm	12	meter	Per meter	
	Diameter 315 mm	12	meter	Per meter	
	Diameter 355 mm	12	meter	Per meter	
	Diameter 400 mm	12	meter	Per meter	
	Diameter 450 mm	12	meter	Per meter	
	Diameter 500 mm	12	meter	Per meter	

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TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 63 mm	16	meter	Per meter	
	Diameter 160 mm	16	meter	Per meter	
	Diameter 200 mm	16	meter	Per meter	
	Diameter 125 mm	16	meter	Per meter	
	Diameter 200 mm	16	meter	Per meter	
	Diameter 250 mm	16	meter	Per meter	
	Diameter 315 mm	16	meter	Per meter	
	Diameter 355 mm	16	meter	Per meter	
	Diameter 400 mm	16	meter	Per meter	
	Diameter 160 mm	20	meter	Per meter	
	Diameter 200 mm	20	meter	Per meter	

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	Diameter 250 mm	20	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
2.	mPVC PIPES (SABS 966 Part 2)				
	Diameter 160 mm	6	meter	Per meter	
	Diameter 200 mm	6	meter	Per meter	
	Diameter 315 mm	6	meter	Per meter	
	Diameter 355 mm	6	meter	Per meter	
	Diameter 400 mm	6	meter	Per meter	
	Diameter 450 mm	6	meter	Per meter	
	Diameter 500 mm	6	meter	Per meter	
	Diameter 560 mm	6	meter	Per meter	
	Diameter 630 mm	6	meter	Per meter	
	Diameter 160 mm	9	meter	Per meter	
	Diameter 200 mm	9	meter	Per meter	
	Diameter 315 mm	9	meter	Per meter	
	Diameter 355 mm	9	meter	Per meter	
	Diameter 400 mm	9	meter	Per meter	
	Diameter 450 mm	9	meter	Per meter	
	Diameter 500 mm	9	meter	Per meter	
	Diameter 560 mm	9	meter	Per meter	
	Diameter 630 mm	9	meter	Per meter	

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TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 160 mm	12	meter	Per meter	
	Diameter 200 mm	12	meter	Per meter	
	Diameter 315 mm	12	meter	Per meter	
	Diameter 355 mm	12	meter	Per meter	
	Diameter 400 mm	12	meter	Per meter	
	Diameter 450 mm	12	meter	Per meter	
	Diameter 500 mm	12	meter	Per meter	
	Diameter 560 mm	12	meter	Per meter	
	Diameter 630 mm	12	meter	Per meter	
	Diameter 50 mm	16	meter	Per meter	
	Diameter 63 mm	16	meter	Per meter	
	Diameter 160 mm	16	meter	Per meter	
	Diameter 200 mm	16	meter	Per meter	
	Diameter 315 mm	16	meter	Per meter	
	Diameter 355 mm	16	meter	Per meter	
	Diameter 400 mm	16	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					

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ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 160 mm	20	meter	Per meter	
	Diameter 200 mm	20	meter	Per meter	
	Diameter 315 mm	20	meter	Per meter	
	Diameter 160 mm	25	meter	Per meter	
	Diameter 200 mm	25	meter	Per meter	
	Diameter 250 mm	25	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 150 mm	CID/30	meter	Per meter	
	Diameter 200 mm	CID/30	meter	Per meter	
4.	GLASS FIBER REINFORCED PLASTIC (GRP) PIPES				
	Diameter 400 mm	GRP/16	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					

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ITEM	SERVICES	CLASS/T YPE	UNIT	SIZE/QUANTITY PER RATE	
	Diameter 400 mm	GRP/25	meter	Per meter	
5.	STAINLESS STEEL PIPES		meter	Per meter	
	Diameter 350 mm	4mm/B	meter	Per meter	
	Diameter 150 mm	4.5mm/B	meter	Per meter	
	Diameter 250 mm	4.5mm/B	meter	Per meter	
	Diameter 600 mm	4.5mm/B	meter	Per meter	
	Diameter 700 mm	6mm/B	meter	Per meter	
	Diameter 150 mm	4.5mm/C	meter	Per meter	
	Diameter 250 mm	4.5mm/C	meter	Per meter	
	Diameter 600 mm	4.5mm/C	meter	Per meter	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	150mm	146-155	mm	Each	
	150mm	150-161	mm	Each	
	150mm	174-183	mm	Each	
	160mm	155-168	mm	Each	
	200mm	196-205	mm	Each	

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	200mm	229-238	mm	Each	
	200mm	236-245	mm	Each	
	250mm	281-290	mm	Each	
	250mm	288-298	mm	Each	
	250mm	298-309	mm	Each	
	250mm	304-314	mm	Each	
	300mm	312-322	mm	Each	
	300mm	331-337	mm	Each	
	300mm	332-343	mm	Each	
	300mm	342-356	mm	Each	
	300mm	356-365	mm	Each	
	350mm	342-356	mm	Each	
	400mm	392-406	mm	Each	
	400mm	492-506	mm	Each	
	600mm	592-606	mm	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
11.	PVC BACKING FLANGE GALVANISED				
	160mm		mm	Each	
	180mm		mm	Each	
	200mm		mm	Each	
	225mm		mm	Each	
	250mm		mm	Each	
	280mm		mm	Each	
	315mm		mm	Each	
	355mm		mm	Each	

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	400mm		mm	Each	
	450mm		mm	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	63mm		mm	Each	
	160mm		mm	Each	
	180mm		mm	Each	
	200mm		mm	Each	
	225mm		mm	Each	
	250mm		mm	Each	
	280mm		mm	Each	
	315mm		mm	Each	
	355mm		mm	Each	
	400mm		mm	Each	
	450mm		mm	Each	
13.	PVC PIPES BACKING FLANGE				
	160mm		mm	Each	
	180mm		mm	Each	
	200mm		mm	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					

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ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
18.	PVC PIPE SADDLES WITH COUPLINGS				
	160 mm x 20 mm		mm ²	Each	
	150 mm x 20mm		mm ²	Each	
	200 mm x 20mm		mm ²	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	150 mm Diameter		mm	Each	
	200 mm Diameter		mm	Each	
	250 mm Diameter		mm	Each	
	300 mm Diameter		mm	Each	
	350 mm Diameter		mm	Each	
	400 mm Diameter		mm	Each	
	500 mm Diameter		mm	Each	
	600 mm Diameter		mm	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	150 mm Diameter		mm	Each	

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26.	H4000 WOLTMANN COLD WATER METER				
	125 mm Diameter		mm	Each	
	150 mm Diameter		mm	Each	
	200 mm Diameter		mm	Each	
	250 mm Diameter		mm	Each	
	300 mm Diameter		mm	Each	
	350 mm Diameter		mm	Each	
	400 mm Diameter		mm	Each	
	450 mm Diameter		mm	Each	
27.	H4000P WOLTMANN COLD WATER METER				
	150 mm Diameter		mm	Each	
	200 mm Diameter		mm	Each	
	250 mm Diameter		mm	Each	
	300 mm Diameter		mm	Each	
28.	H4200 WOLTMANN COLD WATER METER				
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	150 mm Diameter		mm	Each	
	200 mm Diameter		mm	Each	
29.	S2000 COMMERCIAL SINGLE-JET COLD WATER METER				
30.	C4000 COMMERCIAL SINGLE-JET COLD WATER METER				
31.	AC PIPES SADDLES WITH COUPLINGS				
	250mm x 25mm		mm ²	Each	
	200mm x 25mm		mm ²	Each	

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	150mm x 20mm		mm ²	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
32.	REPAIR COUPLING STRAIGHT (PLASSON ADAPTOR)				
	160mmx160mm		mm ²	Each	
33.	PVC/AC ADAPTOR-REDUCES(WITH ONE RUBBER ONE SIDE)				
	160mm PVC- A/C 160mm		mm	Each	
	200mm PVC- A/C 150mm		mm	Each	
	300mm PVC- A/C 300mm A/C (315/328)		mm	Each	
	250mm PVC- A/C 250mm A/C (250/272)		mm	Each	
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
	160mm PVC- 140mm A/C		mm	Each	
36.	PVC BEND CLASS 16				
	160mm x90 ⁰		mm	Each	
	200mm x 90 ⁰		mm	Each	

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37.	MALE ADAPTORS WITH COUPLINGS				
TOTAL BROUGHT FORWARD					
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
TOTAL CARRIED FORWARD					
TOTAL BROUGHT FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
41.	PVC TEE JUNCTIONS				
	160mm x 160mm		mm ²		
	200mm x 200mm		mm ²		
42.	PVC TEE JUNCTION (REDUCER)				
	160mm x 110mm				
	200mm x 160mm				
	260mm x 200mm				
	Coupling 50mm		mm	Each	
	Coupling 63mm		mm	Each	
	Coupling 75mm		mm	Each	
	Coupling 90mm		mm	Each	
	Coupling 110mm		mm	Each	
TOTAL CARRIED FORWARD					

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ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
TOTAL BROUGHT FORWARD					
	Coupling 160mm		mm	Each	
47.	VALVES FLANGED WITH COUPLINGS				
	50mm		mm	Each	
	160mm		mm	Each	
	200mm		mm	Each	
48.	ISOLATION GATE VALVES WITH COUPLINGS				
	160mm		mm	Each	
	200mm		mm	Each	
	260mm		mm	Each	
	300mm		mm	Each	
	400mm		mm	Each	
	450mm		mm	Each	
49.	GALVANISED JOHNSON COUPLING				
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
TOTAL BROUGHT FORWARD					
	150mm		mm	Each	
	200/225mm		mm	Each	
	250mm		mm	Each	
	300/325mm		mm	Each	
	350mm		mm	Each	
	400mm		mm	Each	
	450mm		mm	Each	
50.	AQUALOCKS				

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	150mmA/Cx110mmPVC		mm	Each	
	302mmA/C X 318mm PVC		mm	Each	
	159mmA/C X 182mmPVC		mm	Each	
	150mmA/C X 165mmPVC		mm	Each	
	315mmA/C X 260mmPVC		mm	Each	
	390mmA/C X 410mmPVC		mm	Each	
	391mmA/C X 407mmPVC		mm	Each	
51.	COUPLING FOR A/C PIPES				
	150mm	CID/18	mm	Each	
	150mm	CID/24	mm	Each	
	150mm	CID/30	mm	Each	
	150mm	CID/C	mm	Each	
	150mm	CID/D	mm	Each	
	150mm	CID/34	mm	Each	
	200mm	CID/18	mm	Each	
	200mm	COD/C	mm	Each	
	250mm	CID/18	mm	Each	
	250mm	CID/24	mm	Each	
	250mm	CID /30	mm	Each	
	250mm	CID/36	mm	Each	
	300mm	CID/18	mm	Each	
	300mm	CID/24	mm	Each	
	300mm	CID/30	mm	Each	
	350mm	CID/18	mm	Each	
	350mm	CID/24	mm	Each	
	350mm	CID/C	mm	Each	
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	

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TOTAL BROUGHT FORWARD					
52.	STEP DOWN KLAMFLEX RANGER COUPLING FROM A/C TO PVC WITH COUPLING				
	200mm x 200mm	C/ID/18			
	200mm x 200mm	COD/C			
	250mm x250mm	CID/24			
	250mm x250mm	CID/18			
	250mm x 250mm	CID/30			
	250mm x250mm	CID/36			
	300mm x300mm	CID/18			
TOTAL CARRIED FORWARD					
ITEM	SERVICES	CLASS	UNIT	SIZE/QUANTITY PER RATE	
TOTAL BROUGHT FORWARD					
	300mm x30mm	CID/24			
	350mm x350mm	CID/18			
	350mmx350mm	CID/24			
	350mm x 400mm	CID/C 09			
	400mm x 400mm	CID/18 /12			
53.	EQUAL TEES STEEL FLANGED				
	160mm				
	200mm				
	250mm				
	300mm				
54.	SCOUR TEE FLANGED				
	250mm/80mm				
	300mm/80mm	16			

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	400mm/80mm				
	450mm/80mm				
	AIR RELEASE VALVE (stainless steel body and tie rods, epoxy coated ductile iron ends flanged)				
	50mm	16			
	80mm				
	100mm	16			
56	GATE VALVES FLANGED				
	150mm	25			
	180mm				
	200mm	16			
	250mm	25			
	300mm				
	325mm				
	350mm				
	400mm				
	450mm				
57.	CONCRETE CIRCULAR RINGS				
	1500mm	250			
	1100mm	500			
58.	COVER SLAB				
	1500mm				
59	NON-RETURN VALVE				
	150mm				
	180mm				
	200mm				
	225mm				
	250mm				

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	300mm				
	350mm				
	400mm				
	401mm				
60	CAST IRON BUTTERFLY VALVE				
	150mm				
	180mm				
	200mm				
	225mm				
	250mm				
	300mm				
61	GASKET RUBBER SHEET				
	3mm x 1.2m Roll				
63	AUXILIARY TOOLS AND EQUIPMENT				
	<p>WATER PUMP</p> <p>Operate : Unleaded Petrol Maximum Power : 6,5 Hp Start : Recoil Fuel Tank : 3,6 L Pump Inlet/Outlet : 80 mm Pump, Lift : 28 m Suction Height : 7 m Maximum Capacity : 60 meter cube per hour = 16,67L/s</p>				

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ELECTRIC GENERATOR Operate :Unleaded Petrol Rated Power : 6000 W Maximum Power : 7000 W Tank Capacity : 25 L Start : Electric Key and Recoil				
4 Pounds Hammer				
Mass - 1,8 kg Forged Carbon Steel Head Hardened Black Baked 2 Faced with fibreglass handle 2 – tone TPR grip				
Cantilever Tool Box Set(Complete)				
Shovel Round Nose				
Pick Handle Poly Rubber				
Pick Head C D 2,8 Kg				
Crow Bar 20mm X 1,8m				
Pipe wrench 300mm				
Pipe Wrench 600mm				
Pipe wrench 900mm				

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	Pliers Will fencing 136/250				
	Rigid dice pipe ½ bspt				
	Rigid dice pipe ¾ bspt				
	450mm claw hammer				
	Hacksaw blades				
	350mm rasper				
	Axes				
	Spade shovels				
	Angle grinders				
	Cordless Drill				
	Hand drill				
	CUTTING DISC MASONRY & STEEL				
	230mm x 22.23mm				
	180mm x 22.23mm				
	115mm x 22.23mm				
	DRILL BITS MASONRY & STEEL				
	41 piece (15-40mm dia.)				
	Industrial demolition Jack hammer 2100W DH-85K				
	Pipe cutter(16-32)mm				
	Pipe cutter(63-110)mm				
	Tree cutting saws 52cc Chainsaw				
	Tree cutting saws 45cc 2stroke petrol Chainsaw				
	Panga(302 poly handle machete)				
	Grass cutting Machine(52cc split-shaft brush cutter with line trimmer attachment)				
	Lawn mower				
	Thread Seal tape				
	Soap Soap Multi-purpose lubricants 5L				
	Q20 Multi-purpose lubricant 300g				
	Podger ratchet socket wrench set				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT, REPAIR AND
MAINTENANCE OF BULK WATER PIPES AROUND DR J.S MOROKA LOCAL
MUNICIPALITY AS AND WHEN REQUIRED FOR A PERIOD OF 36 MONTHS
(Rates Only)**

	20-210Nm pre-set adjustable auto repairs set torque wrench				
	Industrial Hemp 1Kg				
	Safety Barricade Tape-Roll				
	Safety Barricade Net-Roll				
	Fiberglass Measuring Tape (100m)				
	Steel Measuring Tape (10m)				
	Snake Repellent 500mL				
	Snake Repellent 20L				
	Foldable Snake Catcher Tongs clamps - 1m				
	LED flashlight waterproof Torch				
	Pneumatic Compaction Rammer Machine				
	Smooth drum Compaction Roller Machine				
	Stainless steel Bolts & Nuts (M8-M40)(100mm)				
	Stainless steel Bolts & Nuts (M8-M40)(200mm)				
	Stainless steel Bolts & Nuts (M8-M40)(300mm)				
	Hydraulic Mechanical Strainer(Water Meters)				
	150 mm Diameter				
	200 mm Diameter				
	250 mm Diameter				
	300 mm Diameter				
	350 mm Diameter				
	400 mm Diameter				
	500 mm Diameter				
	600 mm Diameter				
	Pre-Cast Concrete Service Pipe Markers; Base 300mmx75mm, Height 1200mm				
	Concrete Manhole covers(550mm Diameter type 4)				
	Square Stainless Steel Manhole covers Seal Frame				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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	Rectangular Stainless Steel Manhole covers Seal Frame				
	Brass Padlocks (76mm)insurance keyed				
	Chisel set 6 piece				
	Underground Services Water Leak detecting device				
	10 000 L Green Vertical Water Storage Tank				
	5 000 L Green Vertical Water Storage Tank				
	Two Way Radio Licence Free (Hockey Tockey)				
	Aluminium Heavy duty Extension Ladder 6.3m – 12.0 m				
SUB-TOTAL					
VAT (15%)					
TOTAL					

TOTAL AMOUNT (INCLUDING VAT) TO BE FORWARDED TO FORM C 1.1 (FORM OF OFFER)

Service providers must provide the following information [not to be included in the offer amount but to be reflected in the detailed proposals]:

NB: Pricing must comply with the requirements as set in the scope of work.

Items not covered on the BOQ will be required to quote the municipality in line with MRI market related prices and with a mark-up of 20 %.

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2