

C 2.2. BILL OF QUANTITIES

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TENDER NO. JSM/WB-O&M/05 22-23

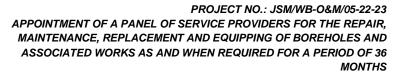
APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR THE REPAIRS, MAINTENANCE, REPLACEMENT AND EQUIPPING OF BOREHOLES AND ASSOCIATED WORKS AS AND WHEN REQUIRED FOR A PERIOD OF 36 MONTHS (Rates Only).

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 the repairs, maintenance and equipping of boreholes and associated works for small schemes of the specified items in the Bill of Quantities.
- NOTE 4: All the items in the Bill of Quantities must comply with SABS standards.

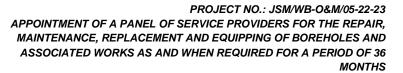
REPAIRS, MAINTENANCE, REPLACEMENT AND EQUIPING OF BOREHOLES AND ASSOCIATED WORKS FOR SMALL SCHEMES

QUANTITY	TOTAL



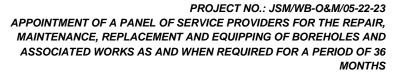


BALANCE CARRIED OVER BALANCE BROUGHT FORWARD 2.BENDS:Supply Fitting to be suitable for coupling directly(mechanically) onto pipes-for the repairs 2.1 90 degree 50 mm diameter 63 mm diameter
BALANCE BROUGHT FORWARD 2.BENDS:Supply Fitting to be suitable for coupling directly(mechanically) onto pipes-for the repairs 2.1 90 degree 50 mm diameter 63 mm diameter
2.BENDS:Supply Fitting to be suitable for coupling directly(mechanically) onto pipes-for the repairs 2.1 90 degree 50 mm diameter 63 mm diameter
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2.1 90 degree 90 mm diameter 50 mm diameter 90 mm diameter 63 mm diameter 90 mm diameter
50 mm diameter 63 mm diameter
63 mm diameter
75 mm diameter
90 mm diameter
2.2 Tees(Equal)
50 mm diameter
63 mm diameter
75 mm diameter
90 mm diameter
2.3 Scour Tee(flanged)
50 mm diameter
63 mm diameter
75 mm diameter
90 mm diameter
2.4 Repair coupling
50 mm diameter
63 mm diameter
75 mm diameter
90 mm diameter
2.5 Flange Adaptors
50 mm diameter
63 mm diameter
75 mm diameter
Tenderer Witness 1 Witness 2 Employer Witness 1 Witness 2



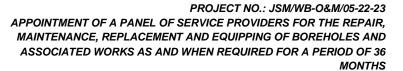


90 mm diameter			
Balance Carried Forward			
Balance brought Forward			
2.6 Gate Valves			
50 mm diameter			
80 mm diameter			
90 mm diameter			
100 mm diameter			
2.7 Nipple			
50 mm diameter			
63 mm diameter			
75 mm diameter			
90 mm diameter			
2.8 Socket			
50 mm diameter			
63 mm diameter			
75 mm diameter			
90 mm diameter			
2.9 Reducing Bush			
50 x 20 mm diameter			
63 x 20 mm diameter			
75 x 20mm diameter			
90 x 20 mm diameter			
2.9 Reducing Bush			
50 x 20 mm diameter			
63 x 20 mm diameter			
75 x 20mm diameter			
90 x 20 mm diameter			
BALANCE CARRIED FORWARD			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	





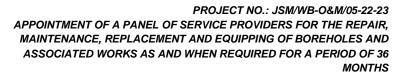
BALANCE BROUGHT FORWARD			
2.10 Ball Valve			
20 mm			
2.11 Pressure Gauge:63 mm			
2.12 SUPPLY HDPE PIPE FOR LOW YIELD BOREHOLES			
32 mm			
40 mm			
2.13 SUPPLY THREADED CASING PIPE FOR HIGH YIELD			
BOREHOLES			
75 mm			
90 mm			
110 mm			
2.14 SUPPLY COMPRESSION FITTING TO REPAIR			
32 mm male adaptor			
40 mm male adaptor			
32 mm straight adaptor			
40 mm straight adaptor			
2.15 SUPPLY TO REPAIR USING BASE-PLATE			
32 mm			
40 mm			
2.16 SUPPLY TO REPAIR THE SUPPLY LINE			
63 mm			
75 mm			
90 mm			
BALANCE CARRIED FORWARD			
			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	





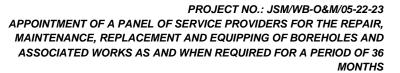
BALANCE BROUGHT FORWARD		
2.17 NON-RETURN VALVES		
SUPPLY,DELIVER,HANDLE,REMOVE,SERVICE/REPAIR,CLEAN AND		
RE-ASSEMBLE INCLUDING THE NEW GASKET,BOLTS,NUTS AND		
WASHERS		
50 mm		
80 mm		
100 mm		
2.18 SCOUR VALVE/BUTTERFLY		
SUPPLY,DELIVER,HANDLE,REMOVE AND REPLACE WITH THE		
NEW SCOUR		
VALVE INCLUDING THE NEW GASKET,BOLTS,NUTS AND		
WASHERS.		
50 mm		
80 mm		
100 mm		
2.19 BULK METERS		
SUPPLY,DELIVER,HANDLE,REMOVE AND REPLACE WITH THE		
NEW WATER		
METER WITH GASKET,BOLTS,NUTS AND WASHERS		
50 mm		
80 mm		
100 mm		
2.20 FENCING		

Witness 1



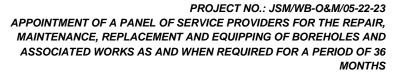


SUPPLY AND ERECT COMPLETE WELDED RIBBON MESH			
SECURITY FENCING			
2.0m HEIGHT INCLUDING 4mm GALVANISED STRAINING WIRE			
AND BINDING WIRE			
SUPPLY AND ERECT ON TOP COMPLETE FLAT WRAP RAZOR			
RIPPER INCLUDING			
4mm GALVANISED STRAINING WIRE AND BINDING WIRE			
SUPPLY AND INSTALL GALVANISED CORNER POST 100mm x			
2mm including			
EXCATION, CONCRETE AND BACKFILL FOR 2M HIGH FENCE(no.			
of)			
SUPPLY AND INSTALL GALVANISED GATE POST 100mm x 2mm			
including			
EXCATION ,CONCRETE AND BACKFILL FOR 2M HIGH FENCE			
BALANCE CARRIED FORWARD			
BALANCE BROUGHT FORWARD			
SUPPLY AND INSTALL GALVANIZED CORNER CORNER POST			
DIAMETER			
100MM X 2MM INCLUDING EXCAVATION, CONCRETE AND			
BACKFILL FOR 2M HIGH			
FENCE			
SUPPLY AND INSTALL GALVANIZED GATE POST DIAMETER			
100MM X 2MM			
INCLUDING EXCAVATION, CONCRETE AND BACKFILL FOR 2M			
HIGH FENCE			
SUPPLY AND INSTALL Y SECURITY STATION 2M HEIGHT			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	



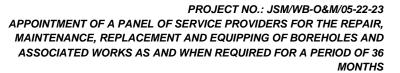


SUPPLY AND INSTALL COMPLETE DOUBLE SECURITY GATE 5M			
WIDTH AND 2M			
HEIGHT			
2.21. CONTROL BOX			
SUPPLY AND INSTALL RECTANGULAR BULKHEAD FITTING			
WITH ENERGY			
SAVING LIGHT, 220V WEATHERPROOF PLUG			
SUPPLY AND INSTALL HEAVY DUTY PADDLOCKS			
2.22. RISER PIPEWORK			
50 mm class 16 hdpe			
65 mm class 16 hdpe			
50 mm Bore Quip			
80 mm Bore Quip			
50 mm Top and Bottom Connector			
100 mm Top and Bottom Connector			
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2.23. BOREHOLE DRILLING AND CLEANING			
CLEAN THE BOREHOLE UPON THE INSTRUCTION BY THE			
MUNICIPALITY			
DRILL THE BOREHOLE UPON THE INSTRUCTION BY THE			
MUNICIPALITY			
Ream the Borehole			
BALANCE CARRIED FORWARD			
BALANCE BROUGHT FORWARD			
Casing 200mm to the new Borehole			
Re-Sleeve the cleaned Borehole			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	



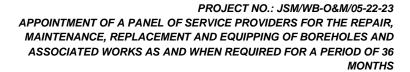


Camera Testing			
Geo Siting			
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2.24 SUPPLY, DELIVERY AND ERECT 10 KL WITH 3 – 4 METER			
GALVANIZED STEEL			
STAND			
2.25 BULK METERS			
Supply, deliver, remove and replace the water meter with gasket,			
bolt, nuts and			
washers			
50 mm			
80 mm			
100 mm			
2.26 YIELD TESTING			
Supply pump,2500l tank and lay flat for testing			
2.27 CABLING			
Supply, fit, test complete submersible pump for core cabling			
including cable joints			
and glands for:			
2.5mm2			
4mm2			
6mm2			
10mm2			
16mm2			
25mm2			
BALANCE CARRIED FORWARD			
BALANCE BROUGHT FORWARD			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	





2.28 ELECTRICAL ACCESORIES			
Surge arrestors, Motor scope protection unit, Time switch, Pilots			
Light, Volt			
Selector Voltmeter, Amp meter, On-Off-Auto selector switch,			
Isolator, circuit			
breaker and wiring including cabling and glands for connection			
to main supply			
1.1 kW;400V			
1.5 KW;400V			
2.2 KW;400 V			
3.7 kW;400 V			
5.6 kW;400 V			
7.5 kW;400 V			
11 kW;400 V			
15 kW;400 V			
18 kW;400 V			
22 kW;400 V			
30kW;400 V			
Submit Electrical certification and manuals			
2.29 Supply, deliver the new electric motor and remove the old motor			
pump and replace			
with the new one			
1.1 kW;			
2.2 kW;			
1.5 kW			
3.7 kW;			
5.6 kW;			
7.5 kW;			
Tenderer Witness 1 Witness 2 Employer	Witness 1	Witness 2	





11 kW;				
15 kW;				
18 kW;				
22 kW:				
30kW;				
3. HAND PUMPS				
Supply and Install hand pumps(Mono Head T5 and T7)				
Supply and Install hand pump with force rod				
4. Supply the following components of the hand pumps to repair				
4.1 Force Rod				
Piston Rod				
Cylinder				
Water Outlet				
Piston				
Check Valve				
Sealing O-ring				
4.2 Rod pump electro plated – 16 mm x 700/800				
- 20 mm x 700/800				
- 25 mm x 700/800				
- 32 mm x 700/800				
Lock-Nut electro plated Range				
Socket Rod electro Plated Range				
Rod pump electro plated				
TOTAL (including VAT)				
TOTAL AMOUNT (INCLUDING VAT) TO BE FO	RWARDED TO F	FORM C 1.1 (FORM	OF OFFER)	

Tenderer	Witness 1	Witness 2	Employer	Witness 1	Witness 2



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

Item	Description	Unit	Rate	Over time	AMOUNT
1.	OTHER OPERATIONAL COSTS				
1.1	Labour rate [working hours]	hour			
1.2	Skilled Labour – Artisan Electrical	hour			
1.3	Skilled Labour – Artisan Plumber	hour			
1.4	Hydrologist	hour			
1.5	TLB	hour			
1.6	Crane Truck	hour			
1.7	Suction water pump (size)	hour			

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 %.

itness 2