

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP
Contract No.: GSDM 54/2022

Schedule Of Quantity

PRELIMINARY AND GENERAL

Item No	Description	Unit	Qty	Rate	Amount (Rand)
1	PRELIMINARY & GENERAL				
1.1	FIXED-CHARGES AND VALUE RELATED ITEMS				
1.1.1	Contractual Requirements	Sum	1.00		
1.2	ESTABLISHMENT OF FACILITIES ON SITE				
	Facilities for the Engineer				
1.2.1	Name Board/s	Sum	1.00		
1.2.2	Offices	Sum	1.00		
1.2.3	Carports	Sum	1.00		
1.2.4	Computer	Sum	1.00		
1.2.5	Cellphone	Sum	1.00		
1.2.6	Printer	Sum	1.00		
	Facilities for the Contractor				
1.2.7	Offices, storage sheds and fencing	Sum	1.00		
1.2.8	Portable Latrines	Sum	1.00		
1.2.9	Tools and Equipment	Sum	1.00		
1.2.10	Water Supply, Electric Power and Communications	Sum	1.00		
1.2.11	Access	Sum	1.00		
1.2.12	Other Fixed-charge Obligations	Sum	1.00		
1.2.13	Removal of Site Establishment	Sum	1.00		
1.3	TIME-RELATED ITEMS				
1.3.1	Contractual Requirements	Month	8.00		
	Operation and Maintain of Facilities on site for the Duration of the Construction				
	Facilities for the Engineer				
1.3.2	Name Board/s	Month	8.00		
1.3.3	Offices	Month	8.00		
1.3.4	Carports	Month	8.00		
1.3.5	Computer	Month	8.00		
1.3.6	Cellphone	Month	8.00		
1.3.7	Printer	Month	8.00		
1.3.8	Survey assistant/s	hours	100.00		
Total Carried Forward					

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PRELIMINARY AND GENERAL

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
	Facilities for the Contractor				
1.3.9	Offices and storage sheds	Month	8.00		
1.3.10	Portable latrines	Month	8.00		
1.3.11	Tools and equipment	Month	8.00		
1.3.12	Water supplies, electric power and communications	Month	8.00		
1.3.13	Access	Month	8.00		
1.3.14	Supervision for Duration of Construction	Month	8.00		
1.3.15	Company and Head Office Overhead Costs for the Duration of the Construction	Month	8.00		
1.3.16	Other Time-related Obligations	Month	8.00		
1.4	PROVISIONAL AMOUNTS BY ENGINEER				
1.4.1	Independent testing specified by the Engineer	Prov Sum	1.00	50,000.00	50,000.00
1.4.2	Overheads, Charges and Profit on item above	%	50,000.00		
1.4.3	Survey and prepare "As- built" drawings	Prov Sum	1.00	25,000.00	25,000.00
1.4.4	Overheads, Charges and Profit on item above	%	25,000.00		
1.4.5	Provision for specialist testing, detection and repair of services	Prov Sum	1.00	25,000.00	25,000.00
1.4.6	Overheads, Charges and Profit on item above	%	25,000.00		
1.4.7	Locating existing services, only where ordered by the Engineer	Prov Sum	1.00		
1.5	DAYWORKS				
1.5.1	Materials	Prov Sum	1.00	35,000.00	35,000.00
1.5.2	Overheads, Charges and Profit on item above	%	35,000.00		
	Labour				
1.5.3	Skilled	hr			Rate Only
1.5.4	Semi-skilled	hr			Rate Only
1.5.5	General Labour	hr			Rate Only
	Plant and Equipment				
1.5.6	Crawler excavator (70 - 80 kW)	hr			Rate Only
1.5.7	Backhoe loader (50 - 60 kW)	hr			Rate Only
1.5.8	Walk-behind vibrating roller	hr			Rate Only
Total Carried Forward					

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Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
1.5.9	Compressor (175 cfm), including hoses and breakers	hr			Rate Only
1.5.10	Concrete Mixer (150 - 250 litre)	hr			Rate Only
1.5.11	Water Pump (75mm), including suction and delivery hoses	hr			Rate Only
1.5.12	Tipper trucks (6 m3)	hr			Rate Only
1.5.13	1 ton bakkie	hr			Rate Only
1.5.14	Plate compactor	hr			Rate Only
1.5.15	220 Volt generator	hr			Rate Only
1.6	TEMPORARY WORKS				
1.6.1	Deal with traffic and maintain road (or accommodation of traffic)	Sum	1.00		
1.7	HEALTH AND SAFETY:				
	Compliance with the Occupational Health and Safety Act (Act 85 of 1993) and applicable regulations (Construction Regulations, 2014), and the Employers Health and safety Specification bound into this document				
1.7.1	Preparation of a Health and Safety Plan	Lump Sum	1.00		
1.7.2	Provision of a Health and Safety file	Lump Sum	1.00		
1.7.3	Provision of construction supervisors	Lump Sum	1.00		
1.7.4	Provision of a Safety Officer (full-time)	Lump Sum	1.00		
1.7.5	Provision of Safety Representatives	Lump Sum	1.00		
1.7.6	Health and Safety training	Lump Sum	1.00		
1.7.7	Provision of personnel protective clothing and equipment (PPE)	Lump Sum	1.00		
1.7.8	Provision of safety fences, signs and barricades	Lump Sum	1.00		
1.7.9	Safety Audit (once a month during construction period)	Prov Sum	1.00		
1.8	COMMUNITY LIAISON OFFICER (CLO)				
1.8.1	Community Liaison Officer	Month	8.00		
Total Carried Forward To Summary					

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PRIME COST ITEMS

Item No	Description	Unit	Qty	Rate	Amount (Rand)
2	PRIME COST ITEMS				
2.1	NOMINATED SUB-CONTRACTOR BY THE CLIENT				
2.1.1	Supply and Delivery of Non-Revenue Water Specialist Technical Services to be provided by the Sub-Contractor nominated by the Client	PC Sum	1.00	853,400.00	853,400.00
2.1.2	Company and Head Office Overhead Costs	%	853,400.00		
2.2	PRESSURE & FLOW LOGGING				
2.2.1	Pressure & Flow Logging (Specialist works to be carried by the Nominated Specialist Professional Sub-Contractor nominated by the Client)	PC Sum	1.00	225,375.00	225,375.00
2.2.2	Monthly Safety Audits by nominated OHS Consultant.	PC Sum	1.00	120, 000.00	120, 000. 00
2.2.3	Monthly ECO Audits by nominated ECO Consultant. construction period) Nomited by Client	PC Sum	1.00	120, 000.00	120, 000.00
2.2.4	Company and Head Office Overhead Costs	%	46,537.50		
Total Carried Forward To Summary					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

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CONSUMER METER AUDIT & REPLACEMENT

Item No	Description	Unit	Qty	Rate	Amount (Rand)
3	CONSUMER METER AUDIT & REPLACEMENT				
3.1	CONSUMER METER AUDIT				
3.1.1	Training of locals on data capture	PC Sum	1.00	28,000.00	28,000.00
3.1.2	Identify consumer meter requiring replacement	Sum	1.00		
3.1.3	Identify consumer meter requiring calibration	Sum	1.00		
3.1.4	Identify new consumer meters	Sum	1.00		
3.2	CONSUMER METER REPLACEMENT				
3.2.1	Supply, Deliver & Installation of new consumer meters (15mm - 40mm), inclusive of pipe specials and fittings, labour, etc	No	150.00		
3.2.2	Replace existing consumer meters	No	320.00		
Total Carried Forward To Summary					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
4	DMA - SQUARE RESERVOIR: ESTABLISHMENT OF DMA's AND PMA's				
	DMA - SQUARE RESERVOIR: ESTABLISHMENT OF DMA's AND PMA's				
4.1	ESTABLISHMENT OF DISTRICT METERED AREA AND PRESSURE MANAGEMENT ZONE				
4.1.1	Excavate and/or Expose existing services and determine the size of existing pipes as indicated on the Layout Plans (Engineer/Main Contractor to indicate, verify and confirm together with the Special Workman areas to be worked on)	No	9.00		
4.1.2	Supply and deliver 75mm Boundary (Isolating) Valves, with Captop	No	3.00		
4.1.3	Supply and deliver reducers/couplings for 75mm Boundary (Isolating) Valves, with Captop as indicated on the drawing	No	6.00		
4.2	CAST IRON VALVE BOX / PLASTIC VALVE BOX (DWG NO. P21386-500-005)				
4.2.1	Supply and deliver 160mm diameter uPVC pipeline as indicated on the drawing	m	18.00		
4.2.2	Supply and deliver 175mm x 115mm Cast Iron Valve Box / Plastic Valve Box as indicated on the drawing	No	3.00		
4.2.3	Install flanged, anti-clockwise closing "RSV" Valves to fit existing pipes, as indicate on Drawing, complete with Cast Iron Valve Box / Plastic Valve Box, 200mm uPVC pipe, 160mm uPVC pipe, bricks, concrete collar, etc	No	3.00		
4.3	80MM PRESSURE REDUCING VALVE				
	Cost of Survey				
4.3.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.3.2	Special water control, including pump hire	Sum	1.00		
4.4	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.4.1	Excavation in all material and dispose	m ³	37.40		
4.5	CONCRETE (STRUCTURAL)				
4.6	SCHEDULED FORMWORK				
	Rough:				
4.6.1	Rough vertical planes to walls and footings of chamber and sumps below ground	m ²	28.82		
	Smooth:				
4.6.2	Vertical plane internal walls	m ²	20.00		
Total Carried Forward					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.6.3	Horizontal plane to roof slab soffit of chambers Box Out Holes / Form Voids a) Small circular of diameter up to and including 0,65m (boxing of roof vents) Over and up to and including	m ²	6.00		
4.6.4	1) - 0,5 m deep b) Large, other than circular, of area over 0,1 m2 and up and including to 1,5 m2 (boxing of roof manhole cover & sump in sump) Over and up to and including	Sum	1.00		
4.6.5	1) - 0,5 m deep	Sum	1.00		
4.7	SCHEDULED REINFORCEMENT ITEMS Steel bars:				
4.7.1	High tensile steel bars	t	1.15		
4.7.2	Mild steel bars	t			Rate Only
4.7.3	High-tensile welded mesh	t			Rate Only
4.8	SCHEDULED CONCRETE ITEMS				
4.8.1	Blinding layer in class 15/19 concrete (50mm thick) Strength Concrete:	m ³	0.58		
4.8.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers Unformed surface finishes	m ³	9.50		
4.8.3	To top of chamber floor slabs	m ²			Rate Only
4.8.4	To top of chamber roof	m ²			
4.8.5	Grouting of pipes / specials through walls Miscellaneous Supply and install as detailed on drawings	No	2.00		
4.8.6	screed to fall or (water proofing) on roof slab	m ²			Rate Only
4.8.7	plinths and thrust blocks of various sizes	m ³			Rate Only
4.9	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.9.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
Total Carried Forward					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.9.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.9.3	Step Irons, complete as indicated on the drawings	Sum	1.00		
4.9.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.10	80MM PRESSURE REDUCING VALVE - PIPE FITTINGS AND SPECIALS				
	Supply & Delivery of the following items as indicated on the Drawing:				
4.10.1	Item 1 - 80mm diameter step coupling/reducer	No	2.00		
4.10.2	Item 2 - 80mm diameter Mild Steel Pipe with puddle flange, plain one end, flanged the other to SABS 1123 - 1600/3	No	2.00		
4.10.3	Item 3 - 80mm diameter mild steel tee-piece, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.10.4	Item 4 - 80mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	5.00		
4.10.5	Item 4A - 80mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.10.6	Item 5 - 80mm diameter RSV Gate Valve (PN16) with Handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.10.7	Item 6 - 80mm diameter STRAINER, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.10.8	Item 7 - 80mm diameter PRESSURE REDUCING VALVE, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.10.9	Item 8 - 80mm MAGFLOW Water Meter, Battery Operated (Comprising of Flow Sensor and Converter, Remote Mount, Capacity for 1 pressure input, On Board Data Logger and GPRS Module, Pressure Sensor, Grounding Rings, Mating Flanges, bolts and Gaskets, etc. & Commissioning by the Specialist) both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.10.10	Item 9 - 80mm diameter x 90 degree bend, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.10.11	Item 10 - 80mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.10.12	Item 11 - 80mm diameter Mild Steel Pipe, plain one end, flanged the other to SABS 1123 - 1600/3	No	1.00		
4.10.13	Item 12 - 80mm "Viking Johnson" flange adaptor	No	1.00		
4.10.14	REGULO V3: GSM SMART-PRV Controller Kit, Complete	No	1.00		
4.10.15	Item A - 50mm diameter Air Release & Vacuum Break Valve (as per Specification), PN16, flanged to SABS 1123 - 1600/3	No	1.00		
Total Carried Forward					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.10.16	Item B - 50mm diameter RSV gate valve (PN16) with handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3.	No	1.00		
4.10.17	Item C - 80mm diameter x 50mm diameter steel reducer, both ends flanged SABS 1123 - 1600/3	No	1.00		
4.10.18	Assembly and Installation of Items above	Sum	1.00		
4.11	<u>150MM PRESSURE REDUCING VALVE</u>				
	Cost of Survey				
4.11.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.11.2	Special water control, including pump hire	Sum	1.00		
4.12	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.12.1	Excavation in all material and dispose	m ³	50.15		
4.13	CONCRETE (STRUCTURAL)				
4.14	SCHEDULED FORMWORK				
	Rough:				
4.14.1	Rough vertical planes to walls and footings of chamber and sumps below ground	m ²	32.12		
	Smooth:				
4.14.2	Vertical plane internal walls	m ²	26.00		
4.14.3	Horizontal plane to roof slab soffit of chambers	m ²	9.00		
	Box Out Holes / Form Voids				
	a) Small circular of diameter up to and including 0,65m (boxing of roof vents)				
	Over and up to and including				
4.14.4	1) - 0,5 m deep	Sum	1.00		
	b) Large, other than circular, of area over 0,1 m2 and up and including to 1,5 m2 (boxing of roof manhole cover & sump in sump)				
	Over and up to and including				
4.14.5	1) - 0,5 m deep	Sum	1.00		
4.15	SCHEDULED REINFORCEMENT ITEMS				
	Steel bars:				
Total Carried Forward					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.15.1	High tensile steel bars	t	1.48		
4.15.2	Mild steel bars	t			Rate Only
4.15.3	High-tensile welded mesh	t			Rate Only
4.16	SCHEDULED CONCRETE ITEMS				
4.16.1	Blinding layer in class 15/19 concrete (50mm thick)	m ³	0.81		
	Strength Concrete:				
4.16.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers	m ³	12.74		
	Unformed surface finishes				
4.16.3	To top of chamber floor slabs	m ²			Rate Only
4.16.4	To top of chamber roof	m ²			Rate Only
4.16.5	Grouting of pipes / specials through walls	No	2.00		
	Miscellaneous				
	Supply and install as detailed on drawings				
4.16.6	screed to fall or (water proofing) on roof slab	m ²			Rate Only
4.16.7	plinths and thrust blocks of various sizes	m ³			Rate Only
4.17	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.17.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
4.17.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.17.3	Step Irons installed complete as indicated on the drawings	No	1.00		
4.17.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.18	150MM PRESSURE REDUCING VALVE - PIPE FITTINGS AND SPECIALS				
	Supply & Delivery of the following items as indicated on the Drawing:				
4.18.1	Item 1 - 150mm diameter step coupling/reducer	No	2.00		
4.18.2	Item 2 - 150mm diameter Mild Steel Pipe with puddle flange, plain one end, flanged the other to SABS 1123 - 1600/3	No	2.00		
4.18.3	Item 3 - 150mm diameter mild steel tee-piece, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.18.4	Item 4 - 150mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	5.00		
Total Carried Forward					

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DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.18.5	Item 4A - 150mm x 50mm diameter Mild Steel Pipe reducer, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.18.6	Item 5 - 150mm diameter RSV Gate Valve (PN16) with Handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.18.7	Item 5A - 50mm diameter RSV Gate Valve (PN16) with Handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.18.8	Item 6 - 150mm diameter STRAINER, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.18.9	Item 7 - 150mm diameter PRESSURE REDUCING VALVE, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.18.10	Item 8 - 150mm diameter MS Steel Spool Piece both ends flanged to SABS 1123 - 1600/3 (NB: SPOOL PIECE TO REPLACE WATER METER)	No	1.00		
4.18.11	Item 9 - 150mm diameter x 90 degree bend, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.18.12	Item 10 - 150mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.18.13	Item 11 - 150mm diameter Mild Steel Pipe, plain one end, flanged the other to SABS 1123 - 1600/3	No	1.00		
4.18.14	Item 12 - 150mm "Viking Johnson" flange adaptor	No	1.00		
4.18.15	Item 13 - 150mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.18.16	REGULO V3: GSM SMART-PRV Controller Kit, Complete	No	1.00		
4.18.17	Item A - 50mm diameter Air Release & Vacuum Break Valve (as per Specification), PN16, flanged to SABS 1123 - 1600/3	No	1.00		
4.18.18	Assembly and Installation of Items above	Sum	1.00		
4.19	<u>200MM PRESSURE REDUCING VALVE</u>				
	Cost of Survey				
4.19.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.19.2	Special water control, including pump hire	Sum	1.00		
4.20	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.20.1	Excavation in all material and dispose	m ³	50.15		
4.21	CONCRETE (STRUCTURAL)				
4.22	SCHEDULED FORMWORK				
Total Carried Forward					

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Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.22.1	Rough: Rough vertical planes to walls and footings of chamber and sumps below ground	m ²	32.12		
4.22.2	Smooth: Vertical plane internal walls	m ²	26.00		
4.22.3	Horizontal plane to roof slab soffit of chambers	m ²	9.00		
	Box Out Holes / Form Voids				
	a) Small circular of diameter up to and including 0,65m (boxing of roof vents)				
	Over and up to and including				
4.22.4	1) - 0,5 m deep	Sum	1.00		
	b) Large, other than circular, of area over 0,1 m ² and up and including to 1,5 m ² (boxing of roof manhole cover & sump in sump)				
	Over and up to and including				
4.22.5	1) - 0,5 m deep	Sum	1.00		
4.23	SCHEDULED REINFORCEMENT ITEMS				
	Steel bars:				
4.23.1	High tensile steel bars	t	1.48		
4.23.2	Mild steel bars	t			Rate Only
4.23.3	High-tensile welded mesh	t			Rate Only
4.24	SCHEDULED CONCRETE ITEMS				
4.24.1	Blinding layer in class 15/19 concrete (50mm thick)	m ³	0.81		
	Strength Concrete:				
4.24.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers	m ³	12.74		
	Unformed surface finishes				
4.24.3	To top of chamber floor slabs	m ²			Rate Only
4.24.4	To top of chamber roof	m ²			Rate Only
4.24.5	Grouting of pipes / specials through walls	No	2.00		
	Miscellaneous				
	Supply and install as detailed on drawings				
4.24.6	screed to fall or (water proofing) on roof slab	m ²			Rate Only
Total Carried Forward					

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Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.24.7	plinths and thrust blocks of various sizes	m ³			Rate Only
4.25	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.25.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
4.25.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.25.3	Step Irons installed complete as indicated on the drawings	No	1.00		
4.25.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.26	200MM PRESSURE REDUCING VALVE - PIPE FITTINGS AND SPECIALS				
	Supply & Delivery of the following items as indicated on the Drawing:				
4.26.1	Item 1 - 200mm diameter step coupling/reducer	No	2.00		
4.26.2	Item 2 - 200mm diameter Mild Steel Pipe with puddle flange, plain one end, flanged the other to SABS 1123 - 1600/3	No	2.00		
4.26.3	Item 3 - 200mm diameter mild steel tee-piece, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.26.4	Item 4 - 200mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	5.00		
4.26.5	Item 4A - 200mm x 50mm diameter Mild Steel Pipe reducer, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.26.6	Item 5 - 200mm diameter RSV Gate Valve (PN16) with Handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3	No	3.00		
4.26.7	Item 5A - 50mm diameter RSV Gate Valve (PN16) with Handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.26.8	Item 6 - 200mm diameter STRAINER, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.26.9	Item 7 - 200mm diameter PRESSURE REDUCING VALVE, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.26.10	Item 8 - 200mm diameter MAGFLOW Water Meter, Battery Operated (Comprising of Flow Sensor and Converter, Remote Mount, Capacity for 1 pressure input, On Board Data Logger and GPRS Module, Grounding Rings, Mating Flanges, bolts and Gaskets, etc. & Commissioning by the Specialist), both ends flanged	No	1.00		
4.26.11	Item 9 - 200mm diameter x 90 degree bend, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.26.12	Item 10 - 200mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	1.00		
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.26.13	Item 11 - 150mm diameter Mild Steel Pipe, plain one end, flanged the other to SABS 1123 - 1600/3	No	1.00		
4.26.14	Item 12 - 150mm "Viking Johnson" flange adaptor	No	1.00		
4.26.15	Item 13 - 150mm diameter Mild Steel Pipe, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.26.16	REGULO V3: GSM SMART-PRV Controller Kit, Complete	No	1.00		
4.26.17	Item A - 50mm diameter Air Release & Vacuum Break Valve (as per Specification), PN16, flanged to SABS 1123 - 1600/3	No	1.00		
4.26.18	Assembly and Installation of Items above	Sum	1.00		
4.27	80MM MAGFLOW WATER METER CHAMBER				
	Cost of Survey				
4.27.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.27.2	Special water control, including pump hire	Sum	1.00		
4.28	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.28.1	Excavation in all material and dispose	m³	28.90		
4.29	CONCRETE (STRUCTURAL)				
4.30	SCHEDULED FORMWORK				
	Rough:				
4.30.1	Rough vertical planes to walls and footings of chamber and sumps below ground	m²	23.92		
	Smooth:				
4.30.2	Vertical plane internal walls	m²	16.00		
4.30.3	Horizontal plane to roof slab soffit of chambers	m²	4.00		
	Box Out Holes / Form Voids				
	a) Small circular of diameter up to and including 0,65m (boxing of roof vents)				
	Over and up to and including				
4.30.4	1) - 0,5 m deep	Sum	1.00		
	b) Large, other than circular, of area over 0,1 m² and up and including to 1,5 m² (boxing of roof manhole cover & sump in sump)				
	Over and up to and including				
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.30.5	1) - 0,5 m deep	Sum	1.00		
4.31	SCHEDULED REINFORCEMENT ITEMS				
	Steel bars:				
4.31.1	High tensile steel bars	t	0.93		
4.31.2	Mild steel bars	t			Rate Only
4.31.3	High-tensile welded mesh	t			Rate Only
4.32	SCHEDULED CONCRETE ITEMS				
4.32.1	Blinding layer in class 15/19 concrete (50mm thick)	m ³	0.43		
	Strength Concrete:				
4.32.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers	m ³	7.30		
	Unformed surface finishes				
4.32.3	To top of chamber floor slabs	m ²			Rate Only
4.32.4	To top of chamber roof	m ²			Rate Only
4.32.5	Grouting of pipes / specials through walls	No	2.00		
	Miscellaneous				
	Supply and install as detailed on drawings				
4.32.6	screed to fall or (water proofing) on roof slab	m ²			Rate Only
4.32.7	plinths and thrust blocks of various sizes	m ³			Rate Only
4.33	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.33.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
4.33.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.33.3	Step Irons installed complete as indicated on the drawings	No	1.00		
4.33.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.34	80MM MAGFLOW - PIPE FITTINGS AND SPECIALS				
	Supply & Delivery of Pipe Specials and Fittings as indicated on the drawings				
4.34.1	Item 1 - 80mm diameter step coupling/reducer	No	2.00		
4.34.2	Item 2 - 80mm diameter MS Pipe with puddle flange, plain one and flanged the other	No	1.00		
4.34.3	Item 3 - 80mm diameter MS Tee-piece	No	1.00		
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.34.4	Item 4 - 80mm diameter RSV Gate Valve (PN16) with handwheel	No	2.00		
4.34.5	Item 5 - 80mm diameter MS Pipe, both ends flanged	No	2.00		
4.34.6	Item 6 - 80mm diameter MAGFLOW Water Meter, Battery Operated (Comprising of Flow Sensor and Converter, Remote Mount, Capacity for 1 pressure input, On Board Data Logger and GPRS Module, Grounding Rings, Mating Flanges, bolts and Gaskets, etc. & Commissioning by the Specialist), both ends flanged	No	1.00		
4.34.7	Item A - 50mm diameter Air Release and Vacuum Breaker Valve, flanged, as per Specification	No	1.00		
4.34.8	Item B - 50mm diameter RSV gate valve (PN16) with handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 1600/3.	No	1.00		
4.34.9	Item C - 100mm x 50mm Steel reducer, both ends flanged to SABS 1123 1600/3.	No	1.00		
4.34.10	Assembly and Installation of Items above	Sum	1.00		
4.35	150MM MAGFLOW WATER METER CHAMBER				
	Cost of Survey				
4.35.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.35.2	Special water control, including pump hire	Sum	1.00		
4.36	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.36.1	Excavation in all material and dispose	m ³	37.40		
4.37	CONCRETE (STRUCTURAL)				
4.38	SCHEDULED FORMWORK				
	Rough:				
4.38.1	Rough vertical planes to walls and footings of chamber and sumps below ground	m ²	28.82		
	Smooth:				
4.38.2	Vertical plane internal walls	m ²	20.00		
4.38.3	Horizontal plane to roof slab soffit of chambers	m ²	6.00		
	Box Out Holes / Form Voids				
	a) Small circular of diameter up to and including 0,65m (boxing of roof vents)				
	Over and up to and including				
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.38.4	1) - 0,5 m deep b) Large, other than circular, of area over 0,1 m2 and up and including to 1,5 m2 (boxing of roof manhole cover & sump in sump) Over and up to and including	Sum	1.00		
4.38.5	1) - 0,5 m deep	Sum	1.00		
4.39	SCHEDULED REINFORCEMENT ITEMS				
	Steel bars:				
4.39.1	High tensile steel bars	t	1.15		
4.39.2	Mild steel bars	t			Rate Only
4.39.3	High-tensile welded mesh	t			Rate Only
4.40	SCHEDULED CONCRETE ITEMS				
4.40.1	Blinding layer in class 15/19 concrete (50mm thick)	m³	0.58		
	Strength Concrete:				
4.40.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers	m³	9.50		
	Unformed surface finishes				
4.40.3	To top of chamber floor slabs	m²			Rate Only
4.40.4	To top of chamber roof	m²			Rate Only
4.40.5	Grouting of pipes / specials through walls	No	2.00		
	Miscellaneous				
	Supply and install as detailed on drawings				
4.40.6	screed to fall or (water proofing) on roof slab	m²			Rate Only
4.40.7	plinths and thrust blocks of various sizes	m³			Rate Only
4.41	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.41.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
4.41.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.41.3	Step Irons installed complete as indicated on the drawings	No	1.00		
4.41.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.42	150MM MAGFLOW WATER METER				
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
	Supply & Delivery of Pipe Specials and Fittings as indicated on the drawings				
4.42.1	Item 1 - 150mm diameter step coupling/reducer	No	2.00		
4.42.2	Item 2 - 150mm diameter MS Pipe with puddle flange, plain one and flanged the other	No	1.00		
4.42.3	Item 3 - 150mm diameter MS Tee-piece, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.42.4	Item 4 - 150mm diameter RSV Gate Valve (PN16) with handwheel	No	2.00		
4.42.5	Item 5 - 150mm diameter MS Pipe, both ends flanged to SABS 1123 - 1600/3	No	2.00		
4.42.6	Item 6 - 150mm diameter MAGFLOW Water Meter, Battery Operated (Comprising of Flow Sensor and Converter, Remote Mount, Capacity for 1 pressure input, On Board Data Logger and GPRS Module, Grounding Rings, Mating Flanges, bolts and Gaskets, etc. & Commissioning by the Specialist), both ends flanged	No	1.00		
4.42.7	Item A - 50mm diameter Air Release and Vacuum Breaker Valve, flanged, as per Specification	No	1.00		
4.42.8	Item B - 50mm diameter RSV gate valve (PN16) with handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 1600/3.	No	1.00		
4.42.9	Item C - 150mm x 50mm Steel reducer, both ends flanged	No	1.00		
4.42.10	Assembly and Installation of Items above	Sum	1.00		
4.43	200MM MAGFLOW WATER METER CHAMBER				
	Cost of Survey				
4.43.1	Survey and setting out the works	Sum	1.00		
	Water Control				
4.43.2	Special water control, including pump hire	Sum	1.00		
4.44	EARTHWORKS (SMALL WORKS)				
	Excavation:				
4.44.1	Excavation in all material and dispose	m ³	37.40		
4.45	CONCRETE (STRUCTURAL)				
4.46	SCHEDULED FORMWORK				
	Rough:				
4.46.1	Rough vertical planes to walls and footings of chamber and sumps below ground	m ²	28.82		
	Smooth:				
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP
Contract No.: GSDM 54/2022

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.46.2	Vertical plane internal walls	m ²	20.00		
4.46.3	Horizontal plane to roof slab soffit of chambers	m ²	6.00		
	Box Out Holes / Form Voids				
	a) Small circular of diameter up to and including 0,65m (boxing of roof vents)				
	Over and up to and including				
4.46.4	1) - 0,5 m deep	Sum	1.00		
	b) Large, other than circular, of area over 0,1 m ² and up and including to 1,5 m ² (boxing of roof manhole cover & sump in sump)				
	Over and up to and including				
4.46.5	1) - 0,5 m deep	Sum	1.00		
4.47	SCHEDULED REINFORCEMENT ITEMS				
	Steel bars:				
4.47.1	High tensile steel bars	t	1.15		
4.47.2	Mild steel bars	t			Rate Only
4.47.3	High-tensile welded mesh	t			Rate Only
4.48	SCHEDULED CONCRETE ITEMS				
4.48.1	Blinding layer in class 15/19 concrete (50mm thick)	m ³	0.58		
	Strength Concrete:				
4.48.2	Grade 25/19 concrete for floor slabs, walls and roof slabs of chambers	m ³	9.50		
	Unformed surface finishes				
4.48.3	To top of chamber floor slabs	m ²			Rate Only
4.48.4	To top of chamber roof	m ²			Rate Only
4.48.5	Grouting of pipes / specials through walls	No	2.00		
	Miscellaneous				
	Supply and install as detailed on drawings				
4.48.6	screed to fall or (water proofing) on roof slab	m ²			Rate Only
4.48.7	plinths and thrust blocks of various sizes	m ³			Rate Only
4.49	<u>CHAMBER ACCESS AND VENTILATION - SUPPLY, DELIVERY AND INSTALLATION:</u>				
4.49.1	Manhole Concrete Cover (900 x 900) and Steel frame for chamber access complete with locking mechanism	No	1.00		
Total Carried Forward					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

DMA - SQUARE RESERVOIR

Item No	Description	Unit	Qty	Rate	Amount (Rand)
Brought Forward					
4.49.2	Hot dipped galvanised roof ventilators to the chamber roof as detailed on the drawings	No	1.00		
4.49.3	Step Irons installed complete as indicated on the drawings	No	1.00		
4.49.4	Hot dip galvanised internal sump cover frame and grating	No	1.00		
4.50	200MM MAGFLOW - PIPE FITTINGS AND SPECIALS				
	Supply & Delivery of Pipe Specials and Fittings as indicated on the drawings				
4.50.1	Item 1 - 200mm diameter step coupling/reducer	No	2.00		
4.50.2	Item 2 - 200mm diameter MS Pipe with puddle flange, plain one and flanged the other	No	1.00		
4.50.3	Item 3 - 200mm diameter MS Tee-piece, both ends flanged to SABS 1123 - 1600/3	No	1.00		
4.50.4	Item 4 - 200mm diameter RSV Gate Valve (PN16) with handwheel	No	2.00		
4.50.5	Item 5 - 200mm diameter MS Pipe, both ends flanged	No	2.00		
4.50.6	Item 6 - 200mm diameter MAGFLOW Water Meter, Battery Operated (Comprising of Flow Sensor and Converter, Remote Mount, Capacity for 1 pressure input, On Board Data Logger and GPRS Module, Grounding Rings, Mating Flanges, bolts and Gaskets, etc. & Commissioning by the Specialist), both ends flanged	No	1.00		
4.50.7	Item A - 50mm diameter Air Release and Vacuum Breaker Valve, flanged, as per Specification	No	1.00		
4.50.8	Item B - 50mm diameter RSV gate valve (PN16) with handwheel and anti-clockwise closing to SABS 664, both ends flanged to SABS 1123 1600/3.	No	1.00		
4.50.9	Item C - 200mm x 50mm Steel reducer, both ends flanged	No	1.00		
4.50.10	Assembly and Installation of Items above	Sum	1.00		
Total Carried Forward To Summary					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

ACTIVE LEAK MANAGEMENT

Item No	Description	Unit	Qty	Rate	Amount (Rand)
5	ACTIVE LEAK MANAGEMENT				
5.1	LEAK REPAIRS - MATERIALS				
5.1.1	Supply and delivery of material for leak repairs	Prov Sum	1.00	50,000.00	50,000.00
5.1.2	Overheads, Charges and Profit on item above	%	50,000.00		
5.2	LEAK REPAIRS - IDENTIFICATION OF LEAK				
5.2.1	Identify leaks per established DMA and quantify	Prov Sum	1.00	35,000.00	35,000.00
5.2.2	Overheads, Charges and Profit on item above	%	35,000.00		
5.2.3	Repair of Leaks on pipes	Prov Sum	1.00	20,000.00	20,000.00
5.2.4	Overheads, Charges and Profit on item above	%	20,000.00		
Total Carried Forward To Summary					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

TESTING OF DISCREETNESS OF DISTRICT METERED AREAS

Item No	Description	Unit	Qty	Rate	Amount (Rand)
6	TESTING OF DISCREETNESS OF DISTRICT METERED AREAS: SQUARE RESERVOIR (OLD STANDERSKOP)				
6.1	DMA - SQUARE RESERVOIR (OLD STANDERSKOP)	Sum	1.00		
Total Carried Forward To Summary					

WATER CONSERVATION AND DEMAND MANAGEMENT IN STANDERTON: STANDERSKOP**Contract No.: GSDM 54/2022**

Schedule Of Quantity

SUMMARY OF SECTIONS

Section	Description	Amount (Rand)
1	PRELIMINARY AND GENERAL	.....
2	PRIME COST ITEMS	.....
3	CONSUMER METER AUDIT & REPLACEMENT	.....
4	DMA - SQUARE RESERVOIR	.....
5	ACTIVE LEAK MANAGEMENT	.....
6	TESTING OF DISCREETNESS OF DISTRICT METERED AREAS	.....
	Subtotal A	.....
(a)	Add 10% Contingencies	.....
	Subtotal B	.....
(b)	Add 5% Contract Price Adjustment	.....
	Subtotal C	.....
(c)	Add 15% Value Added Tax (VAT)	.....
Total Carried Forward To Summary Of Schedules		.....