

GERT SIBANDE DISTRICT MUNICIPALITY

**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

Contract Number GSDM 79/2021

SECTION 1 - PROVISIONAL AND GENERAL ITEMS							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	SABS1200A		<b>GENERAL ITEMS</b>				
	8.3		<b>FIXED-CHARGE ITEMS</b>				
1.1	<b>PSA 8.3.1</b>		Contractor's Contractual Requirements.	Sum	1		
	<b>8.3.2</b>		<b>Establish Facilities on the Site:</b>				
	<b>PSA8.3.2.1</b>		<b>Facilities for Employer's Agent:</b>				
1.2			a) Furnished Air Conditioned Engineers Office made Covid 19 Safe	No	1		
1.3			b) Name board	No	2		
1.4			c) Photostatic Facilities to be print A3	No	1		
1.5			d) Boardroom Made Covid19 safe (15 people)	No	1		
1.6			e) Ablution Facilities	No	2		
1.7			f) Parking Bay	No	1		
	<b>PSA 8.3.2.2</b>		<b>Facilities for Contractor: to comply with the Disaster Management Act, Covid 19 Regulations</b>				
1.8			a) Offices and storage sheds.	Sum	1		
1.10			b) Workshops.	Sum	1		
1.11			c) Change Rooms, Male and Female with Sanitisers	Sum	2		
1.12			d) Eating Area, Ventilated and Ensuring Social Distancing, with Sanitisers	Sum	1		
1.13			e) Laboratories	Sum	1		
1.14			f) Ablution and latrine facilities with Sanitisers	Sum	1		
1.15			g) Tools and equipment	Sum	1		
1.16			h) Water supplies, electric power and communication.	Sum	1		
1.17			i) Dealing with water. (sub 5.5)	Sum	1		
1.18			j) Access. (sub-clause 5.8)	Sum	1		
1.19			k) Plant.	Sum	1		
1.20	8.3.3		Other fixed-charge obligations.	Sum	1		
	PSA 8.3.5		Cost of Survey in Terms of the Land Survey Act	Sum	1		
1.21	PSA 8.3.6		Issuing of notices to consumer for water interruptions etc.	No	10		
1.22	PS 9.3		Compile and Submit Health and Safety Plan	Sum	1		
1.23	PSA 8.3.8		Environmental Management Plan Obligations	Sum	1		
1.24	8.3.4		Remove Contractor's Site Establishment.	Sum	1		
1.25	PSA 9.5		Compile and submit for approval by Employer's Agent, a realistic construction programme within the stated period and before commencement of construction.	Sum	1		
	8.4		<b>TIME-RELATED ITEMS</b>				
1.26	PSA 8.4.1		Contractual Requirements.	Sum	1		
	8.4.2		Operate and maintain facilities on the Site for duration of Construction:				
			<b>Facilities for the Employer's Agent:</b>				
1.27	PSA 8.4.2.1		a) Maintain printing facilities	Month	18		
1.28			b) Accomodation for the employers agent	Prov Sum	1	R180 000.00	R180 000.00
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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Contract Number GSDM 79/2021

SECTION 1 - PROVISIONAL AND GENERAL ITEMS							
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1.29			c) Overheads, charges and profit on item 1.28	%		R180 000.00	
1.30			d) Cellphone and internet connectivity min 5Mb/s	Prov Sum	1	R16 200.00	R16 200.00
1.31			e) Overheads, charges and profit on item 1.29	%		R16 200.00	
1.32			f) Ablution Facilities	Month	18		
1.33			g) Survey Assistants and Materials	Hrs	300		
1.34			h) Name Boards	Month	18		
	8.4.2.2		<b>Facilities for Contractor:</b>				
1.35			a) Office and storage sheds.	Month	18		
1.36			b) Workshops.	Month	18		
1.37			c) Change Rooms, Male and Female	Month	18		
1.38			d) Eating Area	Month	18		
1.39			f) Laboratories.	Month	18		
1.40			g) Ablution and latrine facilities.	Month	18		
1.41			h) Tools and equipment.	Month	18		
1.42			i) Water supplies, electric power and communication.	Month	18		
1.43			j) Dealing with water.	Month	18		
1.44			i) Access.	Month	18		
1.45			k) Plant.	Month	18		
1.40	8.4.3		Contractor's supervision for duration of construction.	Month	18		
1.42	8.4.4		Company and Head Office overhead costs for the duration of construction.	Month	18		
1.43	8.4.5		Other time related obligations.	Month	18		
1.44	PSA 9.4		Implement Health and Safety including Covid 19 requirements based on approved H&S Plan and submit monthly reports as prescribed by SACPCMP by a registered CHSO	Sum	1		
1.45	PSA 8.4.6.2		Security Services	Month	18		
1.46	PSA 8.4.6.3		Monthly EMP Obligations	Month	18		
1.47	PSA 8.2.2.1		Standing time due to riots outside the Contractors control.	Days	30		
1.48	PSA 8.8.2		Accommodation of Traffic. (Local - Within Construction Footprint)	Lump Sum	1		
1.49	PSA 8.3.5		Cost of Survey in terms of the Land Survey Act	Month	18		
			Adherence to safety regulations and protective clothing for local labour, based upon a 3 monthly rotation period. Supply of Safety Apparel (Safety Boots, Reflector Vests, Orange Overalls bearing the EPWP logo and large EPWP on the back of safety gloves for all targeted labour (2 sets of uniform per person)				
	PSA 9.4		a) Protective clothing on a rotation of 3 month period	Lump Sum	1		
	PSA 9.4		b) Extra over sub-item for branding of EPWP PPE	Lump Sum	1		
	<b>PSA 8.9</b>		<b>SUMS STATED PROVISIONALLY BY THE Employer's Agent</b>				
1.50			a) Labour, materials and plant to be used during execution of dayworks.	Prov Sum	1	R300 000.00	R300 000.00
1.51			b) Percentage allowance on cost on item No. 1.50 or Contractor's cost and profit.	%		R300 000.00	
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WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
Contract Number GSDM 79/2021

SECTION 1 - PROVISIONAL AND GENERAL ITEMS							
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1.50			c) Employment of a Community Liaison Officer (CLO) to be identified by the Project Steering Committee (PSC) in consultation with the Ward Councillor and ISD Consultant.	Prov Sum	1	R450 000.00	R450 000.00
1.51			d) Percentage allowance on cost on item No. 1.50 for Contractor's cost and profit.	%		R450 000.00	
1.52			e) Control tests by independent laboratory. Additional tests that may be required by the Engineer over and above normal quality control tests performed by the Contractor.	Prov Sum	1	R500 000.00	R500 000.00
1.53			f) Overheads, charges and profit on items 1.52	%		R500 000.00	
1.54			g) Additional surveying requested by the Employers Agent.	Prov Sum	1	R350 000.00	R350 000.00
1.55			h) Overheads, charges and profit on items 1.54	%		R350 000.00	
1.57			i) Provide indemnity for unused materials on site (bond cost)	Prov Sum	1	R400 000.00	R400 000.00
1.58			j) Overheads, charges and profit on items 1.57	%		R400 000.00	
1.59			k) Relocation of existing services and fences where ordered	Prov Sum	1	R800 000.00	R800 000.00
1.60			l) Overheads and profits on item 1.59	%		R800 000.00	
1.61			m) Inspection of materials by inspectors appointed by the Engineer	Prov Sum	1	R800 000.00	R800 000.00
1.62			n) Overheads and profits on item 1.61	%		R800 000.00	
1.63			o) Allowance for 2 No local students for in-service training	Prov Sum	1	R400 000.00	R400 000.00
1.64			p) Overheads and profits on item 1.63	%		R400 000.00	
1.65			q) Allowance for Environmental Control Officer (ECO) to inspect, monitor, assess construction site and prepare monthly site audit reports to the client and to be appointed under the Engineer	Prov Sum	1	R1 200 000.00	R1 200 000.00
1.65			r) Overheads and profits on item 1.65	%		R1 200 000.00	
1.66			s) Allowance for SHE Officer to inspect, monitor, assess construction site and prepare monthly site audit reports to the client and to be appointed under the Engineer	Prov Sum	1	R1 200 000.00	R1 200 000.00
1.67			t) Overheads and profits on item 1.66	%		R1 200 000.00	
1.68			u) Provisional Sum for procuring an ISD Consultant	Prov Sum	1.00	R2 500 000.00	R2 500 000.00
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Contract Number GSDM 79/2021

SECTION 1 - PROVISIONAL AND GENERAL ITEMS							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
1.69			v) Overheads and profits on item 1.68	%		R2 500 000.00	
1.70			w) Provisional Sum for paying Project Steering Committee members for monthly attending meetings	Prov Sum	1.00	R350 000.00	R350 000.00
1.71			x) Percentage charges and profit on item 1.70	%		R350 000.00	
1.72			y) Provisional Sum for repair to unknown services by local authority/ service provider	Prov Sum	1.00	R350 000.00	R350 000.00
1.73			z) Overheads and profits on item 1.72	%		R350 000.00	
1.74			aa) Provisional Sum for relocation of services by local authority/service provider as Directed by the Engineer	Prov Sum	1.00	R800 000.00	R800 000.00
1.75			ab) Overheads and profits on item 1.74	%		R800 000.00	
1.76			ac) Provisional Sum for preparing and proving of pipe joint integrity	Prov Sum	1.00	R250 000.00	R250 000.00
1.77			ad) Overheads and profits on item 1.76	%		R250 000.00	
1.78			ae) Provisional Sum for the supply and installation of approved locks/ keys	Prov Sum	1.00	R50 000.00	R50 000.00
1.79			af) Overheads and profits on item 1.78	%		R50 000.00	
1.80			ag) Provisional Sum for the supply and installation of approved safety equipment and signage	Prov Sum	1.00	R35 000.00	R35 000.00
1.81			ah) Overheads and profits on item 1.80	%		R35 000.00	
1.82			ai) Allowance for lightning protection	Prov Sum	1.00	R450 000.00	R450 000.00
1.83			aj) Overheads and profits on item 1.81	%		R450 000.00	
1.84			ak) Provisional Sum for Procuring, Mentoring of CPG subcontractors	Prov Sum	1.00	R500 000.00	R500 000.00
1.85			al) Overheads and profits on item 1.84	%		R500 000.00	
1.86			am) Allowance for telemetry system and software	Prov Sum	1.00	R1 050 000.00	R1 050 000.00
1.87			an) Overheads and profits on item 1.86	%		R1 050 000.00	
1.88			ao) Allowance for Administration Costs for Wayleave liaison with Transnet, Sanral, Eskom etc	Prov Sum	1.00	R350 000.00	R350 000.00
1.89			ap) Overheads and profits on item 1.87	%		R350 000.00	
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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
			<b>TRAINING</b>				
			a) Generic Skills				
1.91			(i) Training Costs/Support Cost	Prov Sum	1.00	R2 200 000.00	R2 200 000.00
1.92			(ii) Handling cost and profit in respect of sub-item	%		R2 200 000.00	
1.93			Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site.(Provisional sum)	Prov Sum	1.00	R150 000.00	R150 000.00
1.94			(ii) Handling cost and profit in respect of sub-item	%		R150 000.00	
			<b>TEMPORARY WORKS</b>				
1.95	PSA 5.4		Excavate and backfill by hand in soft material to expose existing services - only on approval of Employer's Agent, within freehaul distance of 5.5km.	Prov Sum	1	R550 000.00	R550 000.00
1.96	PSA 9.1		Submit detail As-built drawings of all existing services and adjustments to construction drawings at completion.	Prov Sum	1	R250 000.00	R250 000.00
1.97	PS 2.6.5		Control of ground water, sub-surface, stormwater or spoiled water during construction.	Prov Sum	1	R600 000.00	R600 000.00
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 2: FORTUNA WTW to ELEVATED BREAK PRESSURE TANK							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
	<b>SABS 1200 C</b>		<b>CLEAR SITE</b>				
	PSC 8.2.1		Clear and grub all shrubs and vegetation for areas as required and instructed by Employer's Agent for construction:				
2.1	PSC 8.2.1 a)	LI	Rising Main. (8m Wide Strip)	m <sup>2</sup>	100000		
	8.2.2		Remove and grub large trees (including tree stumps and roots) of girth over:				
2.2	8.2.2 a)	LI	and up to 1,0 m	No.	10		
2.3	8.2.2 b)	LI	1,0 m - 2,0 m	No.	6		
2.4	8.2.2 c)	LI	2,0 m - 3,0 m	No.	2		
2.5	PSDB 3.1	LI	Removal of Boulders Class A and B and dispose.	m <sup>3</sup>	10		
			<b>Demolish and remove structures / buildings</b>				
2.6	PSC 8.2.11	LI	Take down, dispose of or re-erect existing fences.	m	1 000		
2.7	PSC 8.2.11	LI	New fencing as removed/demolished in Item 2.1.8 above.	m	1 000		
	<b>SABS 1200 DB</b>		<b>EARTHWORKS (PIPE TRENCHES)</b>				
	8.3		Scheduled Earthworks Items:				
	8.3.2 a)		<b>Excavation:</b> All excavations to be carried out using Labour Based Construction Methods unless otherwise agreed with the Engineer				
			a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material for pipes:				
			Over 125mm Ø and up to and including 355mm Ø for trench depth:				
2.8		LI	i) Exceeding 0.0m but not exceeding 1.0m	m	3750		
2.9		LI	ii) Exceeding 1.0m but not exceeding 2.0m	m	5000		
2.10			iii) Exceeding 2.0m but not exceeding 3.0m	m	3750		
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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
2.11			b) Extra Over Items 3.1.1 to 3.1.3				
			i) Intermediate excavation	m <sup>3</sup>	5927		
2.12			ii) Hard rock excavation (Blasting or Pneumatic Drilling)	m <sup>3</sup>	3951		
2.13			iii) Boulder excavation Class A	m <sup>3</sup>	3951		
2.14			iv) Boulder excavation Class B	m <sup>3</sup>	3951		
2.15		LI	c) Excavate and dispose of unsuitable material to spoil from trench bottom (Provisional)	m <sup>3</sup>	3951		
	<b>8.3.3</b>		<b>Excavation Ancillaries</b>				
2.16	8.3.3.1a)		Make up deficiency in backfill by importation from commercial Sources. Rate to include Haulage and Royalties	m <sup>3</sup>	550		
2.17	PSD 8.3.3 a)	LI	<b>Restricted Excavations:</b> Excavate in all materials and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	100		
2.18	PSD 5.2.5.1		Overhaul: Extra-over items 3.2.4 for hauling of material in excess of the freehaul distance (5,5km), only if instructed by Employer's Agent.	m <sup>3</sup> .km	59 807		
	8.3.6 8.3.6.1		Finishing: Reinstate road surfaces complete with all courses				
2.19	8.3.6.1 a)		Natural gravel material (G5) compacted to 95% MOD AASHTO in layers of 150mm rate to include haulage and royalties	m <sup>3</sup>	250		
2.20			Bituminous prime	m <sup>2</sup>	40		
2.21			G2 compacted to 98% MOD AASHTO in layers of 150mm rate to include haulage and royalties	m <sup>3</sup>	90		
2.22	8.3.6.1 d)		Asphalt of thickness 80mm in roadway	m <sup>2</sup>	40		
2.23	8.3.5.a)		Existing services that intersect a pipe trench Overhead powerlines.	No.	5		
2.24			Existing water pipelines up to 300mmø.	No.	5		
2.25			Existing stormwater pipelines or culverts	No.	20		
2.26			Existing sewer lines up to 300mmø.	No.	20		
	8.3.5.b)		Existing services that adjoin a pipe trench				
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**Contract Number GSDM 79/2021**

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
2.27			Existing water pipelines (all diameters)	m	7500		
2.28			Existing stormwater pipelines or culverts (all sizes)	m	2000		
	<b>SABS 1200 LB</b>		<b>BEDDING (PIPES)</b>				
	8.2.1		Provision of bedding from Trench Excavation:				
2.29	8.2.1.a)	LI	Selected granular material.	m <sup>3</sup>	100		
2.30	8.2.1.b)	LI	Selected fill material.	m <sup>3</sup>	50		
	8.2.2.2		Supply only of Bedding by Importation from commercial sources: rate to include haulage and royalties				
2.31	8.2.2.2.a)	LI	Selected granular material.	m <sup>3</sup>	7 820		
2.32	8.2.2.2.b)	LI	Selected fill material.	m <sup>3</sup>	2 600		
	8.2.3		<b>Concrete Bedding Grader:</b>				
2.33			Rate shall include full compensation for placing of 25Mpa concrete including formwork. (Where insured by Employer's Agent)	m <sup>3</sup>	10		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	<b>SABS 1200 L</b>		<b>MEDIUM PRESSURE PIPELINES</b>				
	8.2.1		<b>PIPEWORK - BULK SUPPLY</b> Supply, Deliver, Lay, Bed and Test on Class B Bedding for Pipes, Complete with Couplings, Bends and Supports:				
	PSL 3.7.3		oPVC Pipes: (Class B Bedding. Spigot and Socket or similar approved to be used )				
2.34		LI	DN 355 class 25	m	12 570		
	8.2.2		Extra-over 4.1.1 for the supplying, laying and bedding of specials (all flange drillings to SANS1123, Table 25) complete with couplings / welds for:				
			<b>o-PVC Pipeline - DN 355</b>				
2.35		LI	i) 0 - 11,25°	No.	18		
2.36		LI	ii) 11,25 - 22,5°	No.	15		
2.37		LI	iii) 22,25 - 45°	No.	8		
2.38		LI	iv) > 45°	No.	18		
			<b>Sleeve Pipes</b>				
2.39			750 ND Concrete interlocking joint pipes class 100D	m	40		
			<b>Galvanised Steel Bends</b> Klambon Type with cast SP couplings:				
2.40			350mm dia. - 90°	No	8		
			<b>Galvanised Flange Adaptors</b> for Klambon Pipe and associated Couplings				
2.41			350mm dia (Drilling Table 2500)	No	8		
			<b>GMS Flanged puddle pipe</b> at change over from uPVC/HDPE to Steel pipe, as detailed on drawings				
2.42			350mm dia (Drilling Table 2500)	No	8		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
2.43	8.2.2	LI	<b>Air Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 25) suitable for: 80mm double acting air valve "Vent-O-Mat" RBX type or similar approved.	No.	18		
2.44			80mm GMS straight to fit flange, threaded one end, flanged one end to 80mm flange.	No.	18		
2.45	8.2.5.a)		80mm NB RSV Gate Valve.	No.	18		
2.46	8.2.5.a)		80mm GMS straight, flanged both ends	No.	18		
2.47	8.2.5.b)		350mm Equal tee flanged	No.	18		
2.48	8.2.5.b)		350mm Flange adaptor	No.	36		
	8.2.2	LI	<b>Scour Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 25) suitable for:				
2.49			80mm Equal T-Piece, branch planged	No.	12		
2.50			80mm GMS straight, flanged both ends	No.	12		
2.51			80mm NB 45° Elbow	No.	12		
2.52			80mm GMS straight, flanged both ends	No.	12		
2.53			80mm RSV Gate Valve	No.	12		
2.54			80mm NB Straight Pipe Piece, flanged both ends	No.	12		
2.55			350mm T-piece with 100mm branch	No.	12		
2.56			355mm Flange adaptor	No.	24		
	8.2.13	LI	<b>Valve Chambers</b> Construction of complete Chamber as per drawings. Rate shall include compaction of backfill, floor slab, reinforced concrete walls, sealants, pipe supports and roof slab. (excluding valves and fittings)				
2.57			Air Valve Chamber complete refer to detail. Size as per Longitudinal Section.	No.	18		
2.58			Scour Valve Chamber complete refer to detail. Size as per Longitudinal Section.	No.	12		
2.59			Inlet Meter Chamber complete refer to detail	No.	1		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

GERT SIBANDE DISTRICT MUNICIPALITY

**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER  
SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

Contract Number GSDM 79/2021

SECTION 2: FORTUNA WTW to ELEVATED BREAK PRESSURE TANK							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	8.2.2 8.2.3		<b>SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS</b>				
			Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 25) suitable for:				
		LI	<b>Inlet Meter Chamber</b> refer to detail				
2.60			315mm Flange Adaptor	No.	2		
2.61			300mm ±1200mm Long Puddle Pipe With Puddle Flange Located Centrally Flanged Both Ends.	No.	2		
2.62			300mm Flanged Rsv Non-Rising Spindle Gate Valve	No.	1		
2.63			300mm Spool Piece ±400mm Long Flanged On One End	No.	1		
2.64			300mm Level Control Valve With Float Pilot	No.	1		
2.65			300mm VJ Coupling	No.	1		
2.66			300mm ±750mm Long Puddle Pipe With Puddle Flange Located Centrally	No.	1		
2.67			300mm Diameter Steel Spool Piece ±4000mm Long Both Ends Of The Spool Piece Welded Into 90 Degrees Bends, Either Ends Of Bends Flanged	No.	1		
2.68			300mm Puddle Pipe, ±1800mm Long Flanged Both Ends With Puddle Flange Located Centrally	No.	1		
2.69			300mm Spool Piece ±3700mm Long With One End Welded Into 450x300mm Ansi Concentric Reducer And The Other End Welded Into 90 Degrees Long Radius Bend, One End Of The Bend Flanged	No.	1		
			<b>ANCILLARIES</b>				
			Supply and construct Anchor/Thrust blocks refer to detail with class 25MPa/19mm Concrete for:				
2.70	PSL 8.2.11 a)	LI	Concrete thrust blocks up to and including 0.5m³.	No.	19		
2.71	PSL 8.2.11 b)	LI	Over 0.5m³ up to and including 1.0m³.	No.	3		
2.72	PSL 8.2.11 c)	LI	Over 1.0m³ up to and including 1.5m³.	No.	11		
2.73	PSL 8.2.11 d)	LI	Over 1.5m³ up to and including 2.0m³.	No.	5		
2.74	PSL 8.2.17	LI	Supply and install concrete marker block refer to detail , including lettering and painting as specified, at positions indicated by the Employer's Agent.	No.	150		
2.75	8.2.12	LI	Encasing of pipe in 20/19 Mpa Concrete	m³	25		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER  
SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

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SECTION 2: FORTUNA WTW to ELEVATED BREAK PRESSURE TANK							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	PSHA 8.3.12		<b>Access, Openings and Covers:</b> Supply, deliver and install hot dipped galvanized cover as per drawing (Rate to include anchoring in concrete or steel and all accessories required for installation)				
2.76	PSHA 8.3.12.a)	LI	a) Manhole Cover.	No.	31		
2.77	PSHA 8.3.3		Internal cat ladder (hot dipped galvanized)	No.	31		
2.78			Air Vents Supply and install galvanised air vent as shown on drawings complete with stainless steel vermin mesh etc.	No.	18		
	<b>SABS1200 DK</b>		<b>GABIONS AND PITCHING</b>				
	8.2.2		<b>GABION MATTRESSES</b> (including material and delivery)				
2.79	8.2.1	LI	Surface preparation for bedding of gabions	m <sup>2</sup>	108		
	8.2.2		Gabions				
2.80	8.2.2 (a)	LI	Galvanized and PVC coated gabion boxes using 150mm stone and 80mm x 100mm x 2,5mm mesh: 1 m x 1 m x 1 m	m <sup>3</sup>	48		
	8.2.2 (b)		Reno Mattresses				
2.81	8.2.2 (b) (ii)	LI	Galvanized and PVC coated gabions boxes using 150mm stone and 80mm x 100mm x 2,5mm mesh: 3 m x 1 m x 0,3 m	m <sup>3</sup>	10		
2.82	8.2.2 (b) (iii)	LI	3 m x 1 m x 0,15 m	m <sup>3</sup>	5		
2.83	8.2.4	LI	Bidim Geotextile (Kaytech Bidim A4 or similar approved type) placed where ground water seepage occurs or where directed by Engineer	m <sup>2</sup>	65		
	8.2.5		Pitching				
2.84	8.2.5 (b)	LI	Stone pitching: Grouted stone pitching	m <sup>2</sup>	10		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

GERT SIBANDE DISTRICT MUNICIPALITY

**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER  
SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

**Contract Number GSDM 79/2021**

SECTION 2: FORTUNA WTW to ELEVATED BREAK PRESSURE TANK							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	SABS1200LG		<b><u>PIPE JACKING AND STREAM CROSSING</u></b>				
2.85	8.2.1		Jacking/Drilling Establishment a) Fixed Charged	Sum	2		
2.86			b) Time Related	Day	11		
2.87	8.2.2		Supply of pipes to be Jacked and sleeve	m	40		
2.88	8.2.3		Jacking/Drilling of Pipes	m	40		
2.89	8.2.4		Excavation for Jacking in soft material, backfilling by hand and compacting.	m <sup>3</sup>	192		
2.90	8.2.5		Extra-Over 6.1.5 for Jacking/Drilling in hard material	m	80		
2.91	8.2.6		Extra-Over 6.1.5 for Excavation in Rock	m <sup>3</sup>	10		
2.92	8.2.3		Provisional Sum for the Cost of Horizontal Directional Drilling where highly expansive soils are encountered	Prov Sum	1	R3 850 000.00	R3 850 000.00
2.93			Overheads, charges and proffit on items 3.100	%		R3 850 000.00	
2.94			Stream Crossing to Detail	Sum	4		
<b>TOTAL CARRIED TO SUMMARY</b>							

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**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
Contract Number GSDM 79/2021

SECTION 3: ELEVATED BREAK PRESSURE TANK to TIE IN POINT ON EXISTING 315mm o-PVC PIPELINE							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
	<b>SABS 1200C</b>		<b>CLEAR SITE</b>				
	PSC 8.2.1		Clear and grub all shrubs and vegetation for areas as required and instructed by Engineer for construction:				
3.1	PSC 8.2.1 a)	LI	Gravity Main (8m Wide Strip)	m <sup>2</sup>	28 000		
	8.2.2		Remove and grub large trees (including tree stumps and roots) of girth over:				
3.2	8.2.2 a)	LI	and up to 1,0 m.	No.	5		
3.3	8.2.2 b)	LI	1,0 m - 2,0 m.	No.	8		
3.4	8.2.2 c)	LI	2,0 m - 3,0 m.	No.	10		
3.5	PSDB 3.1	LI	Removal of Boulders Class A and B and dispose.	m <sup>3</sup>	15		
3.6	PSC 8.2.11	LI	Take down, dispose of or re-erect existing fences.	m	2000		
3.7	PSC 8.2.11	LI	New fencing as removed/demolished in Item 2.1.8 above.	m	2000		
	<b>SABS 1200 D</b>		<b>BULK EARTHWORKS FOR METER CHAMBERS</b>				
	8.3.2		<b>Meter Chambers:</b>				
3.8		LI	Excavate by hand in all materials for foundations and pipe trenches and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	126		
	PSD 8.3.2 b)		Extra-over for:				
3.9	PSD 8.3.2 b) 1)		Hard rock excavation. (Blasting or Pneumatic Drilling)	m <sup>3</sup>	13		
3.10	PSD 8.3.2 b) 2)		Boulder excavation and dump, Class A and B.	m <sup>3</sup>	5		
			<b>Landscaping and Grassing:</b>				
3.11	8.3.10	LI	Apply topsoil obtained from stockpile where ordered.	m <sup>3</sup>	100		
			<b>Supply and saw grass seeds as specified:</b>				
3.12	8.3.11 a)	LI	Buffalo grass or similar approved.	m <sup>2</sup>	100		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**

Contract Number GSDM 79/2021

SECTION 3: ELEVATED BREAK PRESSURE TANK to TIE IN POINT ON EXISTING 315mm o-PVC PIPELINE							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	<b>SABS 1200 DB</b>		<b>EARTHWORKS (PIPE TRENCHES)</b>				
	8.3.2 a)		<b>Excavation:</b> All excavations to be carried out using Labour Based Construction Methods unless otherwise agreed with the Engineer				
			a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material for pipes: Over 125mm Ø and up to and including 315mm Ø for trench depth:				
3.13		LI	i) Exceeding 0.0m but not exceeding 1.0m	m	1500		
3.14		LI	ii) Exceeding 1.0m but not exceeding 2.0m	m	2000		
3.15			iii) Exceeding 2.0m but not exceeding 3.0m	m	1500		
			b) Extra Over Items 3.1.1 to 3.1.3				
3.16		LI	i) Intermediate excavation (Blasting or Pneumatic Drilling)	m <sup>3</sup>	656		
3.17			ii) Hard rock excavation	m <sup>3</sup>	219		
3.18			iii) Boulder excavation Class A	m <sup>3</sup>	109		
3.19			iv) Boulder excavation Class B	m <sup>3</sup>	109		
3.20		LI	c) Excavate and dispose of unsuitable material to spoil from trench bottom (Provisional)	m <sup>3</sup>	109		
3.21	PSD 8.3.3 a)	LI	<b>Restricted Excavations:</b> Excavate in all materials and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	100		
3.22	PSD 5.2.5.1		<b>Overhaul:</b> Extra-over items 3.2.4 for hauling of material in excess of the freehaul distance (5,5km), only if instructed by Employer's Agent.	m <sup>3</sup> .km	16882		
3.23	8.3.5.a)		Existing services that adjoin a pipe trench Existing water pipelines (all diameters)	m	2000		
3.24			Existing stormwater pipelines or culverts	m	2000		
	<b>SABS 1200 LB</b>		<b>BEDDING (PIPES)</b>				
	8.2.2.2		Supply only of Bedding by Importation from commercial Sources rate to include haulage and royalties:				
3.25	8.2.2.2.a)	LI	Selected granular material.	m <sup>3</sup>	1 600		
3.26	8.2.2.2.b)	LI	Selected fill material.	m <sup>3</sup>	700		
3.27	8.2.3	LI	<b>Concrete Bedding Grader:</b> Rate shall include full compensation for placing of 25Mpa concrete including formwork. (Where insured by Employer's Agent)	m <sup>3</sup>	10		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
Contract Number GSDM 79/2021

SECTION 3: ELEVATED BREAK PRESSURE TANK to TIE IN POINT ON EXISTING 315mm o-PVC PIPELINE							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	SABS 1200 L		<b>MEDIUM PRESSURE PIPELINES</b>				
	8.2.1		<b>PIPEWORK</b> Supply, Deliver, Lay, Bed and Test on Class B Bedding for Pipes, Complete with Couplings, Bends and Supports:  oPVC Pipes: (Class B Bedding. Spigot and Socket or similar approved to be used )				
	8.2.2		Extra over items 4.1.1 for supplying, laying, and bedding of specials complete with couplings:				
3.28		LI	DN 315 class 12.5	m	3 500		
	8.2.2 a)		<b>Bends - 315mm ND:</b>				
3.29	8.2.2 a) i)		11.25°	No.	5		
3.30	8.2.2 a) ii)		22.5°	No.	5		
3.31	8.2.2 a) iii)		45°	No.	2		
3.32	8.2.2 a) iv)		90°	No.	3		
			<b>Sleeve Pipes</b>				
3.33			750 ND Concrete interlocking joint pipes class 100D	m	80		
			<b>Galvanised Steel Bends</b> Klambon Type with cast SP couplings:				
3.34			300mm dia. - 90°	No	16		
			<b>Galvanised Flange Adaptors</b> for Klambon Pipe and associated Couplings				
3.35			300mm dia (Drilling Table 2500)	No	16		
			<b>GMS Flanged puddle pipe</b> at change over from uPVC/HDPE to Steel pipe, as detailed on drawings				
3.36			300mm dia (Drilling Table 2500)	No	16		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	<b>SANS 1200 L</b>		<b>MEDIUM PRESSURE PIPE LINES Valves, Meters, Specials and Fittings</b>				
	8.2.2	LI	<b>Air Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
3.37			50mm double acting air valve "Vent-O-Mat" RBX type or similar approved.	No.	5		
3.38			50mm GMS straight to fit flange, threaded one end, flanged one end to 80mm flange.	No.	5		
3.39	8.2.5.a)		80mm NB RSV Gate Valve.	No.	5		
3.40	8.2.5.a)		80mm GMS straight, flanged both ends	No.	5		
3.41	8.2.5.b)		300mm Equal tee flanged	No.	5		
3.42	8.2.5.b)		300mm Flange adaptor	No.	10		
	8.2.5		<b>Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings:				
3.43			315mm Flange adaptor	No.	8		
3.44			300mm NB Class 16 RSV Gate Valve.	No.	4		
	8.2.2		<b>Scour Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
3.45			80mm Equal T-Piece, branch planged	No.	4		
3.46			80mm GMS straight, flanged both ends	No.	4		
3.47			80mm NB 45° Elbow	No.	4		
3.48			80mm GMS straight, flanged both ends	No.	4		
3.49			80mm RSV Gate Valve	No.	4		
3.50			80mm NB Straight Pipe Piece, flanged both ends	No.	4		
3.51			300mm T-piece with 100mm branch	No.	4		
3.52			315mm Flange adaptor	No.	8		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	8.2.2 8.2.3		<b>SPECIALS AND FITTINGS FOR METER AND FLOW CONTROL CHAMBERS</b>  Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:  <b>Outlet Meter Chamber</b> as per detail				
3.53			1) 300mm dia 90° radius GMS bend FBE	No.	3		
3.54			2) 250mmØ uPVC Spool piece 3.5m long	No.	2		
3.55			3) 300mmØ GMS Spool piece 3.0m long, FBE	No.	2		
3.56			4) 300mmØ langed RSV non-rising spindle gate valve	No.	2		
3.57			5) 300mmØ GMS Ppuddle pipe 600mm long FBE, puddle flanged central	No.	2		
3.58			6) 300mmØ equal all ends flanged	No.	1		
3.59			7) 300mmØ GMS spool piece 3.5m long,FBE	No.	1		
3.60			8) 300mm dia fusion bonded epoxy coated dirt trap	No.	1		
3.61			9) 300mmØ GMS spool piece 1.650m long, flanged one end and one plain end	No.	1		
3.62			10) 300mm V.J adaptor	No.	3		
3.63			11) 300mm fusion bonded epoxy coated flow control meter	No.	1		
3.64			12) 300mmØ GMS spool piece 1m long,FBE	No.	1		
3.65			13) 300mm x 250mmØ galvanised mild steel reducer, FBE	No.	1		
3.66			14) 250mmØ flanged RSV non-rising spindle gate valve	No.	1		
3.67			15) 250mmØ fusion bonded epoxy coated dirt trap	No.	1		
3.68			16) 250mmØ GMS spool piece 1400m long, FOE and one plain end	No.	1		
3.69			17) 250mm V.J flange adaptor	No.	2		
3.70			18) 250mm fusion bonded epoxy coated flow control meter	No.	1		
3.71			19) 300mmØ GMS spool piece 1.5m long,FBE	No.	1		
3.72			20) 250mmØ GMS puddle pipe 600mm long, FBE, puddle flange central	No.	1		
3.73			21) 300mm x 80mmØ galvanised mild steel tee FAE	No.	1		
3.74			22) 250mm x 80mmØ galvanised mild steel tee, FAE	No.	1		
3.75			23) GMS 80mmØ straight FBE to suite tee flange & RSV valve, 300mm long.	No.	2		
3.76			24) GMS 80mmØ straight FBE to suit tee flange & RSV valve, 200mm long	No.	1		
3.77			25) 80mm flanged double acting Airvalve with anti-shock orifice	No.	1		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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SECTION 3: ELEVATED BREAK PRESSURE TANK to TIE IN POINT ON EXISTING 315mm o-PVC PIPELINE							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	8.2.13		<b>VALVE CHAMBERS AND COVERS</b>				
		LI	<b>Valve Chambers:</b> Construction of complete valve chambers complete with pipes and fittings as detailed on respective drawings, excluding excavation and Manhole Cover and main valve :				
3.78	PSL 8.2.13		a) Air Valve Chamber complete refer to detail. Size as per Longitudinal Section.	No.	5		
3.79	PSL 8.2.13		b) Isolating Valve Chamber complete refer to detail. Size as per Longitudinal Section.	No.	6		
3.80	PSL 8.2.13		c) Scour Valve Chamber complete refer to detail. Size as per Longitudinal Section.	No.	4		
3.81	PSL 8.2.13		c) Outlet Meter Chamber complete refer to detail	No.	4		
	PSHA 8.3.12		<b>Access, Openings and Covers:</b> Supply, deliver and install hot dipped galvanized cover as per drawing . (Rate to include anchoring in concrete or steel and all accessories required for installation)				
3.82	PSHA 8.3.12.a)		a) Manhole Cover.	No.	19		
3.83	PSHA 8.3.3		Internal cat ladder (hot dipped galvanized)	No.	19		
3.84			<b>Air Vents</b> Supply and install galvanised air vent as shown on drawings and per clients details complete with stainless steel vermin mesh etc.	No.	16		
	<b>SABS1200 DK</b>		<b>GABIONS AND PITCHING</b>				
	8.2.2		<b>GABION MATRESSES</b> (including material and delivery)				
3.85	8.2.1		Surface preparation for bedding of gabions	m <sup>2</sup>	108		
	8.2.2		<b>Gabions</b>				
3.86	8.2.2 (a)		Galvanized and PVC coated gabion boxes using 150mm stone and 80mm x 100mm x 2,5mm mesh: 1 m x 1 m x 1 m	m <sup>3</sup>	48		
	8.2.2 (b)		<b>Reno Mattresses</b>				
3.87	8.2.2 (b) (ii)		Galvanized and PVC coated gabions boxes using 150mm stone and 80mm x 100mm x 2,5mm mesh: 3 m x 1 m x 0,3 m	m <sup>3</sup>	10		
3.88	8.2.2 (b) (iii)		3 m x 1 m x 0,15 m	m <sup>3</sup>	5		
3.89	8.2.4		<b>Bidim</b> Geotextile (Kaytech Bidim A4 or similar approved type) placed where ground water seepage occurs or where directed by Engineer	m <sup>2</sup>	65		
	8.2.5		<b>Pitching</b>				
3.90	8.2.5 (b)		Stone pitching: Grouted stone pitching	m <sup>2</sup>	10		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
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SECTION 3: ELEVATED BREAK PRESSURE TANK to TIE IN POINT ON EXISTING 315mm o-PVC PIPELINE							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
	<b>SABS1200LG</b>		<b><u>PIPE JACKING AND HORIZONTAL DIRECTIONAL DRILLING</u></b>				
3.91	8.2.1 8.2.1 a)		Jacking/Drilling Establishment Fixed Charged	Sum	1		
3.92	8.2.1 b)		Time Related	Day	14		
3.93	8.2.2		Supply of pipes to be Jacked and sleeve	m	40		
3.94	8.2.3		Jacking/Drilling of Pipes	m	40		
3.95	8.2.4		Excavation for Jacking in soft material, backfilling by hand and compacting.	m <sup>3</sup>	200		
3.96	8.2.5		Extra-Over 6.1.6 for Jacking/Drilling in hard material	m	3		
3.97	8.2.6		Extra-Over 6.1.6 for Excavation in Rock	m <sup>3</sup>	20		
3.98	8.2.2		Provisional Sum for the Cost of Horizontal Directional Drilling where highly expansive soils are encountered when Directed by Engineer on Site	Prov Sum	1	R3 850 000.00	R3 850 000.00
3.99			Overheads, charges and proffit on items 3.98	%		R3 850 000.00	
3.100			Allowance Transnet Rail Supervisory Costs for Pipe Jacking activities	Prov Sum	1.00	R350 000.00	R350 000.00
3.101			Overheads, charges and proffit on items 3.100	%		R350 000.00	
			<b>ANCILLARIES</b> Anchor/Thrust Blocks and Pedestals:				
			Supply and construct Anchor/Thrust blocks refer to detail with class 20MPa/22mm Concrete for:				
3.102	PSL 8.2.11 a)		Concrete blocks up to and including 0.5m <sup>3</sup> .	No.	23		
3.103	PSL 8.2.11 b)		Over 0.5m <sup>3</sup> up to and including 1.0m <sup>3</sup> .	No.	2		
3.104	PSL 8.2.11 c)		Over 1.0m <sup>3</sup> up to and including 1.5m <sup>3</sup> .	No.	5		
3.105	PSL 8.2.17		Supply and install concrete marker block refer to detail, including lettering and painting as specified, at positions indicated by the Engineer.	No.	25		
	PSL 8.2.18		Connect to New or Existing Pipework complete including all excavation, pipes, fittings, labour, welding, delivery and installation to suit the position described and shown on the drawing for:				
3.106	PSL 8.2.18 a)		315m ND	No.	2		
<b>TOTAL CARRIED TO SUMMARY</b>							

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SECTION 4: CONNECTION PIPEWORK ON THE EXISTING 250mm u-PVC PIPELINE						
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	SCHEDULED AMOUNT
	<b>SABS 1200 C</b> PSC 8.2.1		<b>CLEAR SITE</b> Clear and grub all shrubs and vegetation for areas as required and instructed by Employer's Agent for construction:			
4.1	PSC 8.2.1 a)		Gravity Main. (8m Wide Strip)	m	427	
			8.2.2			
4.2	8.2.2 a)		Remove and grub large trees (including tree stumps and roots) of girth over: and up to 1,0 m	No.	2	
4.3	8.2.2 b)		1,0 m - 2,0 m	No.	2	
4.4	8.2.2 c)		2,0 m - 3,0 m	No.	2	
4.5	PSDB 3.1		Removal of Boulders Class A and B and dispose.	m <sup>3</sup>	5	
			<b>Demolish and remove structures / buildings</b>			
4.6	PSC 8.2.11		Take down, dispose of or re-erect existing fences.	m	20	
4.7	PSC 8.2.11		New fencing as removed/demolished in Item 2.1.8 above.	m	20	
	<b>SABS 1200 DB</b>		<b>EARTHWORKS (PIPE TRENCHES)</b>			
			<b>Excavation:</b>			
	8.3.2 a)		All excavations to be carried out using Labour Based Construction Methods unless otherwise agreed with the Engineer			
			a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material for pipes:			
			Over 125mm Ø and up to and including 315mm Ø for trench depth:			
4.8			i) Exceeding 0.0m but not exceeding 1.0m	m	47	
4.9			ii) Exceeding 1.0m but not exceeding 2.0m	m	190	
4.10			iii) Exceeding 2.0m but not exceeding 3.0m	m	190	
			b) Extra Over Items 3.1.1 to 3.1.3			
4.11			i) Intermediate excavation (Blasting or Pneumatic Drilling)	m <sup>3</sup>	56	
4.12			ii) Hard rock excavation	m <sup>3</sup>	19	
4.13			iii) Boulder excavation Class A	m <sup>3</sup>	9	
4.14			iv) Boulder excavation Class B	m <sup>3</sup>	9	
	8.3.3		<b>Excavation Ancillaries</b>			
4.15	8.3.3.1a)		Make up deficiency in backfill by importation from commercial Sources. Rate to include Haulage and Royalties	m <sup>3</sup>	30	
			<b>Restricted Excavations:</b>			
4.16	PSD 8.3.3 a)		Excavate in all materials and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	30	
			Overhaul:			
4.17	PSD 5.2.5.1		Extra-over items 3.2.4 for hauling of material in excess of the freehaul distance (5,5km), only if instructed by Employer's Agent.	m <sup>3</sup> .km	750	
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>						-

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							-
4.18	8.3.5.a)		Existing services that intersect a pipe trench				
4.19			Overhead powerlines.	No.	5		
4.20			Existing water pipelines up to 300mmø.	No.	5		
4.21			Existing stormwater pipelines or culverts	No.	5		
			Existing sewer lines up to 300mmø.	No.	5		
4.22	8.3.5.b)		Existing services that adjoin a pipe trench				
4.23			Existing water pipelines up to 300mmø.	m	30		
			Existing stormwater pipelines or culverts	m	30		
	<b>SABS 1200 LB</b>		<b>BEDDING (PIPES)</b>				
4.24	8.2.1		Provision of bedding from Trench Excavation:				
	8.2.1.a)		Selected granular material.	m³	50		
4.25	8.2.1.b)		Selected fill material.	m³	10		
	8.2.2.2		Supply only of Bedding by Importation from commercial sources: rate to include haulage and royalties				
4.26	8.2.2.2.a)		Selected granular material.	m³	160		
4.27	8.2.2.2.b)		Selected fill material.	m³	70		
	<b>SABS 1200 L</b>		<b>MEDIUM PRESSURE PIPELINES PIPEWORK - BULK SUPPLY</b>				
4.28	8.2.1		Supply, handle, lay, bed on bedding for flexible pipes, join, test and disinfect, as detailed on the drawings. uPVC potable water pipeline, complete with rubber seals and sockets according to SABS 966.				
	PSL 3.7.3		<b>u-PVC</b> DN 250 mm Class 16. Tie in positions at positions indicated by the Engineer on site.	m	400		
	8.2.2		Extra-over 4.1.1 for the supplying, laying and bedding of specials (all flange drillings to SANS1123, Table 16) complete with couplings / welds for:				
			<b>uPVC Pipeline - DN 250mm</b>				
4.29			i) 0 - 11,25°	No.	3		
4.30			ii) 11,25 - 22,5°	No.	3		
4.31			iii) 22,25 - 45°	No.	3		
4.32			iv) > 45°	No.	3		
	8.2.5		<b>Isolation Valve Chamber</b> refer to detail				
4.33			Extra-over for supply, deliver, lay, bed and install specials and fittings:				
4.34			250mm Flange adaptor	No.	8		
			250mm NB Class 16 RSV Gate Valve.	No.	4		
	8.2.2		<b>Air Valve Chambers</b> refer to detail				
4.35			Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
4.36			50mm double acting air valve "Vent-O-Mat" RBX type or similar approved.	No.	3		
			50mm GMS straight to fit flange, threaded one end, flanged one end to 80mm flange.	No.	3		
4.37	8.2.5.a)		80mm NB RSV Gate Valve.	No.	3		
4.38	8.2.5.a)		80mm GMS straight, flanged both ends	No.	3		
4.39	8.2.5.b)		250mm Equal tee flanged	No.	3		
4.40	8.2.5.b)		250mm Flange adaptor	No.	6		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							-

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							-
	8.2.2		<b>Scour Valve Chambers</b> refer to detail Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
4.41			80mm Equal T-Piece, branch planged	No.	1		
4.42			80mm GMS straight, flanged both ends	No.	1		
4.43			80mm NB 45° Elbow	No.	1		
4.44			80mm GMS straight, flanged both ends	No.	1		
4.45			80mm RSV Gate Valve	No.	1		
4.46			80mm NB Straight Pipe Piece, flanged both ends	No.	1		
4.47			250mm T-piece with 100mm branch	No.	1		
4.48			250mm Flange adaptor	No.	2		
	8.2.2 8.2.3		<b>SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS</b> Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
			<b>Outlet Meter Chamber</b> refer to detail				
4.49			250mm Flange Adaptor.	No.	1		
4.50			250mm ±618mm Long Puddle Pipe With Puddle Flange Located Centrally Flanged Both Ends	No.	1		
4.51			250mm X 80 Mm Reducing Tee The All Ends Flanged	No.	1		
4.52			80mm Flanged Rsv Non-Rising Spindle Gate Valve	No.	2		
4.53			80mm Flanged Vento-Mat Air Valve	No.	1		
4.54			250mm Flanged Rsv Non-Rising Spindle Gate Valve	No.	1		
4.55			250mm Vj Coupling	No.	1		
4.56			250mm X 80 Mm Reducing Tee The Other End Welded Into 80 Mm X 90 Degrees Radius Bend, One End Of The Bend Flanged	No.	1		
4.57			250mm ±1800mm Long Puddle Pipe With Puddle Flange Located Centrally One End Of The Puddle Welded Into 90 Degrees Bend, Either Ends Flanged	No.	2		
4.58			250mm X 250mm Reducer Flanged On One End	No.	2		
4.59			250mm X 200mm Reducer Flanged On One End	No.	1		
4.60			250mm Diameter Steel Spool Piece ±2390mm Long Both Ends Flanged	No.	2		
4.61			250mm Puddle Pipe, ±600mm Long Pipe With Puddle Flange Located Centrally One End Of The Puddle Welded Into 90 Degrees Bend, Either Ends Flanged	No.	1		
4.62			250mm ±1300mm Long Steel Overflow Pipe Flanged On One End , To Discharge In Outlet Chamber	No.	1		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							-

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
4.63			<b>Inlet Meter Chamber</b> refer to detail				
			250mm Flange Adaptor	No.	4		
4.64			250mm ±1200mm Long Puddle Pipe With Puddle Flange Located Centrally Flanged Both Ends.	No.	4		
4.65			250mm Flanged Rsv Non-Rising Spindle Gate Valve	No.	2		
4.66			250mm Spool Piece ±400mm Long Flanged On One End	No.	2		
4.67			250mm Level Control Valve With Float Pilot	No.	2		
4.68			250mm Vj Coupling	No.	2		
4.69			250mm ±750mm Long Puddle Pipe With Puddle Flange Located Centrally	No.	2		
4.70			250mm Diameter Steel Spool Piece ±4000mm Long Both Ends Of The Spool Piece Welded Into 90 Degrees Bends, Either Ends Of Bends Flanged	No.	2		
4.71			250mm Puddle Pipe, ±1800mm Long Flanged Both Ends With Puddle Flange Located Centrally	No.	2		
4.72			250mm Spool Piece ±3700mm Long With One End Welded Into 450x300mm Ansi Concentric Reducer And The Other End Welded Into 90 Degrees Long Radius Bend, One End Of The Bend Flanged	No.	2		
	8.2.13		<b>VALVE CHAMBERS AND COVERS</b> <b>Valve Chambers:</b>  Construction of complete valve chambers complete with pipes and fittings as detailed on respective drawings, excluding excavation and Manhole Cover and main valve :				
4.73	PSL 8.2.13		a) Air Valve Chamber complete as per drawing Size as per Longitudinal Section.	No.	1		
4.74	PSL 8.2.13		b) Isolating Valve Chamber complete as per drawing .	No.	9		
4.75	PSL 8.2.13		c) Scour Valve Chamber complete as per drawing .	No.	2		
4.76	PSL 8.2.13		c) Outlet Meter Chamber complete as per drawing .	No.	1		
4.77	PSL 8.2.13		c) Inlet Meter Chamber complete as per drawing .	No.	2		
	PSHA 8.3.12		<b>Access, Openings and Covers:</b> Supply, deliver and install hot dipped galvanized cover as per drawing . (Rate to include anchoring in concrete or steel and all accessories required for installation)				
4.78	PSHA8.3.12		a) Manhole Cover.	No.	13		
4.79	PSHA 8.3.3		Internal cat ladder (hot dipped galvanized)	No.	13		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							-
4.80			Air Vents Supply and install galvanised air vent as shown on drawings and per clients details complete with stainless steel vermin mesh etc.	No.	6		
			<b>ANCILLARIES</b> Supply and construct Anchor/Thrust blocks refer to detail with class 20MPa/22mm Concrete for:				
4.81	PSL 8.2.11 b)		Over 0.5m <sup>3</sup> up to and including 1.0m <sup>3</sup> .	No.	1		
4.82	PSL 8.2.17		Supply and install concrete marker block as detailed on drawings , including lettering and painting as specified, at positions indicated by the Employer's Agent.	No.	3		
4.83			Clean, Disinfect and Pressure test existing 250mm diameter pipeline	Prov Sum	1	R1 500 000.00	R1 500 000.00
4.84			(ii) Handling cost and profit in respect of sub-item	%		R1 500 000.00	
		SABS1200LG	<b>PIPE JACKING</b>				
4.85	8.2.1 8.2.1 a)		Jacking/Drilling Establishment Fixed Charged	Sum	1		
4.86	8.2.1 b)		Time Related	Day	7		
4.87	8.2.2		Supply of pipes to be Jacked and sleeve	m	30		
4.88	8.2.3		Jacking/Drilling of Pipes	m	30		
4.89	8.2.4		Excavation for Jacking in soft material, backfilling by hand and compacting.	m <sup>3</sup>	200		
4.90	8.2.5		Extra-Over 6.1.5 for Jacking/Drilling in hard material	m	10		
4.91	8.2.6		Extra-Over 6.1.5 for Excavation in Rock	m <sup>3</sup>	10		
	PSL 8.2.18		Connect to New or Existing Pipework complete including all excavation, pipes, fittings, labour, welding, delivery and installation to suit the position described and shown on the drawing for:				
4.92	PSL 8.2.18 a)		250m ND	No.	2		
<b>TOTAL CARRIED TO SUMMARY</b>							

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SECTION 5: 1.5ML ELEVATED BREAK PRESSURE TANK							
ITEM	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	Rate	SCHEDULED AMOUNT
5.1	<b>SABS 1200C</b> 8.2.1		<b>Site Clearance</b> Clear and Grub Reservoir Site	m <sup>2</sup>	400		R -
5.2	8.2.2		Remove and grub large trees and tree stumps of girth: a) over 1m and up to and including 2m	No	1		R -
5.3			b) over 2m and up to and including 3m	No	1		R -
5.4	PSC 8.2.5		Take down existing fences	m	106		R -
5.5	8.2.6		Clear Hedge	m	50		R -
5.6	8.2.10		Remove topsoil to a nominal depth of 150mm and stockpile	m <sup>3</sup>	400		R -
	<b>SABS 1200D</b> 8.3.2		<b>Earthworks</b> <u>Bulk Excavation</u>				
			a) Excavate in all materials and use for embankment or backfill or dispose of as ordered for:				
5.7			i) For concrete footings	m <sup>3</sup>	1 050		R -
			b) Extra-over for:				R -
5.8			i) Intermediate excavation	m <sup>3</sup>	315		R -
5.9			ii) Hard rock excavation	m <sup>3</sup>	315		R -
5.10			iii) Boulder Excavation - Class A	m <sup>3</sup>	210		R -
5.11			iv) Boulder Excavation - Class B	m <sup>3</sup>	210		R -
5.12	8.3.4		Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	300		R -
5.13	8.3.4		Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	165		R -
5.14	8.3.4		Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	85		R -
5.15			Compacted fill from excavations	m <sup>3</sup>	420		R -
	<b>SANS 1200ME</b>		<b>SUBBASE (STABILIZATION UNDER STRUCTURE) -PROVISIONAL</b>				
	8.3.5		Process material by the following process, as relevant and use under structure on instruction by Engineer				
5.16			a) Screening	m <sup>3</sup>	52		R -
5.17			b) Heavy grid rolling	m <sup>3</sup>	52		R -
5.18			c) Stabilization (6% Cement)	m <sup>3</sup>	52		R -
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							-

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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							-
	8.3.8	Stabilising Agent					
5.19		a) Portland Cement	t	1		R	-
	8.3.3	Overhaul					
5.20		a) Limited Overhaul (Provisional)	m <sup>3</sup>	630		R	-
5.21		b) Long Overhaul (Provisional)	m <sup>3</sup> .km	3 780		R	-
	<b>SANS1200G</b>	<b>Concrete, Grade 30MPa/ 19mm for:</b>					
5.22	8.4	i) Tank Stand Footings	m <sup>3</sup>	80		R	-
	8.3.1	<b>Reinforcement</b>					
5.23		a) Mild steel	ton	5		R	-
5.24		b) High tensile steel	ton	199		R	-
5.25		Supply and install 1 No sectional steel elevated tank (18.3 x 18.3 x 4.88m high on a 16m high tank stand with 1No. 355 dia. Inlet and outlet pipes complete.	No	1		R	-
		<b>Fencing</b>					
		Supply and erect new fencing material for reservoir site as per					
5.26		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate to include supply, delivery from source and installation	m	150		R	-
5.27		ii) Gates 8m wide	No.	2		R	-
5.28		iii) Barbed tape concertina	m	152		R	-
<b>TOTAL CARRIED TO SUMMARY</b>							-

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SECTION 6: 500KL GROOTVLEI POWER STATION COMMUNITY ELEVATED TANK							
ITEM	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	Rate	SCHEDULED AMOUNT
6.1	<b>SABS 1200C</b> 8.2.1 8.2.2		<b>Site Clearance</b> Clear and Grub Reservoir Site Remove and grub large trees and tree stumps of girth:	m <sup>2</sup>	250		R -
6.2			a) over 1m and up to and including 2m	No	2		R -
6.3			b) over 2m and up to and including 3m	No	2		R -
6.4	PSC 8.2.5		Take down existing fences	m	80		R -
6.5	8.2.6		Clear Hedge	m	20		R -
6.6	8.2.10		Remove topsoil to a nominal depth of 150mm and stockpile	m <sup>3</sup>	38		R -
	<b>SABS 1200D</b> 8.3.2		<b>Earthworks</b> <u>Bulk Excavation</u> a) Excavate in all materials and use for embankment or backfill or dispose of as ordered for:				
6.7			i) For concrete footings	m <sup>3</sup>	480		R -
6.8			b) Extra-over for: i) Intermediate excavation	m <sup>3</sup>	144		R -
6.9			ii) Hard rock excavation	m <sup>3</sup>	144		R -
6.10			iii) Boulder Excavation - Class A	m <sup>3</sup>	96		R -
6.11			iv) Boulder Excavation - Class B	m <sup>3</sup>	96		R -
6.12	8.3.4		Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	100		R -
6.13	8.3.4		Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	68		R -
6.14	8.3.4		Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	34		R -
	<b>SANS 1200ME</b> 8.3.5		<b>SUBBASE (STABILIZATION UNDER STRUCTURE) - PROVISIONAL</b> Process material by the following process, as relevant and use under structure on instruction by Engineer				
6.15			a) Screening	m <sup>3</sup>	17		R -
6.16			b) Heavy grid rolling	m <sup>3</sup>	17		R -
6.2.11			c) Stabilization (6% Cement)	m <sup>3</sup>	17		R -
	8.3.8		Stabilising Agent				
6.17			a) Portland Cement	t	100		R -
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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	<b>8.3.3</b>	Overhaul				
6.18		a) Limited Overhaul (Provisional)	m <sup>3</sup>	60	R	-
6.19		b) Long Overhaul (Provisional)	m <sup>3</sup> .km	1 500	R	-
	<b>SANS1200G</b>	<b>Concrete, Grade 30MPa/ 19mm for:</b>				
6.20	8.4	i) Tank Stand Footings	m <sup>3</sup>	30	R	-
	<b>8.3.1</b>	<b>Reinforcement</b>				
6.21		a) Mild steel	ton	1.5	R	-
6.22		b) High tensile steel	ton	80.0	R	-
6.23		Supply and install 1 No.500kL sectional steel elevated tank on a 16m high tank stand with 1No. 250 dia. inlet pipe complete	No	1	R	-
		<b>Fencing</b> Supply and erect new fencing material for reservoir site				
6.24		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate to include supply, delivery from source and installation	m	180	R	-
6.25		ii) Gates 8m wide	No.	1	R	-
6.26		iii) Barbed tape concertina	m	180	R	-
<b>TOTAL CARRIED TO SUMMARY</b>						

GERT SIBANDE DISTRICT MUNICIPALITY

**APPOINTMENT OF A SERVICE PROVIDER FOR THE UPGRADING AND REFURBISHMENT OF BALFOUR/SIYATHEMBA BULK WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
Contract Number GSDM 79/2021

<b>3.5 MI CONCRETE RESERVOIR AT GROOTVLEI</b>							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7.1	<b>SABS 1200C</b> 8.2.1		<b>Site Clearance</b> Clear and Grub Reservoir Site	m <sup>2</sup>	2 000		R -
	8.2.2		Remove and grub large trees and tree stumps				
7.2			a) over 1m and up to and including 2m	No	8		R -
7.3			b) over 2m and up to and including 3m	No	8		R -
7.4	PSC 8.2.5		Take down existing fences	m	150		R -
7.5	8.2.6		Clear Hedge	m	10		R -
7.6	8.2.10		Remove topsoil to a nominal depth of 150mm	m <sup>3</sup>	300		R -
7.7			Demolish existing brick and mortar reservoirs and dispose rubble. Rate to include overhaul @ 25kms.	m <sup>3</sup>	1 000		R -
	<b>SABS 1200D</b> 8.3.2		<b>Earthworks</b> <u>Bulk Excavation</u>				
			a) Excavate in all materials and use for embankment or backfill or dispose of as				
7.8			i) For reservoir platform	m <sup>3</sup>	10 952		R -
			b) Extra-over for:				
7.9			i) Intermediate excavation	m <sup>3</sup>	4 000		R -
7.10			ii) Hard rock excavation	m <sup>3</sup>	6 400		R -
	8.3.3		<u>Restricted Excavation</u>				
7.11			i) Inlet, outlet, scour and overflow chambers	m <sup>3</sup>	160		R -
7.12			ii) Reservoir	m <sup>3</sup>	320		R -
	8.3.8		<u>Existing Services</u>				
7.13			a) Excavate by hand in soft material to expose underground services	m <sup>3</sup>	80		R -
7.14	<b>8.3.4</b>		Importation, placing and compaction of G7 gravel to grade level to 98% MOD AASHTO (at OMC) in layers not exceeding 200mm to replace pockets or layers of unsuitable material where directed by Engineer (Prov)	m <sup>3</sup>	681		R -
	8.3.3		Overhaul				
7.15			a) Limited Overhaul (Provisional)	m <sup>3</sup>	681		R -
7.16			b) Long Overhaul (Provisional)	m <sup>3</sup> .km	273 800		R -
	<b>SANS 1200DM</b> 8.3.3		<b>EARTHWORKS (ROADS, SUB-GRADE) - UNDER STRUCTURE</b> Treatment of Roadbed (Under Structure)				
7.17			a) Road-bed preparation and compaction of i) minimum of 90% modified AASHTO	m <sup>3</sup>	681		R -
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							<b>R -</b>

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							R -
	<b>SANS 1200ME</b>		<b>SUBBASE (STABILIZATION UNDER STRUCTURE) -PROVISIONAL</b>				
	8.3.5		Process material by the following process, as relevant and use under structure on instruction by Engineer				
7.18			a) Screening	m <sup>3</sup>	341	R	-
7.19			b) Heavy grid rolling	m <sup>3</sup>	341	R	-
7.20			c) Stabilization (6% Cement)	m <sup>3</sup>	341	R	-
	8.3.8		Stabilising Agent				
7.21			a) Portland Cement	t	300	R	-
	<b>SANS 1200DK</b>		<b>Gabions and Pitching</b>				
	8.2.2		Reno Mattresses (PVC coated)				
7.22			a) 0,3m x 1,0m x 2,0m	m <sup>3</sup>	10	R	-
7.23	8.2.4		Geotextile (U24 bidim)	m <sup>2</sup>	20	R	-
	8.2.5		Pitching				
7.24			a) Grouted stone pitching	m <sup>2</sup>	10	R	-
	8.2.1		<b>FORMWORK</b>				
			Rough :				
7.25			i) Vertical plane to internal chamber walls	m <sup>2</sup>	65	R	-
7.26		LI	ii) Reservoir footings	m <sup>2</sup>	100	R	-
	8.2.2		Smooth :				
7.27		LI	i) Vertical plane to external reservoir walls	m <sup>2</sup>	570	R	-
7.28			ii) Roof upstand beam for reservoir	m <sup>2</sup>	535	R	-
7.29			iii) Vertical plane to external chamber walls	m <sup>2</sup>	85	R	-
	8.2.4		Special off form to:				
7.30			a) Internal wall for reservoir	m <sup>2</sup>	550	R	-
7.31			b) Internal columns	m <sup>2</sup>	100	R	-
7.32			c) Soffit to roof slab for reservoir	m <sup>2</sup>	440	R	-
	8.2.5		Narrow widths (up to 300mm wide)				
7.33			a) Reservoir walls - 100mm kicker	m	360	R	-
7.34		LI	c) Internal column head and pedestal	m	45	R	-
7.35		LI	d) Chamber roof slab edge	m	25	R	-
	PSG8.2.6		<b>Box out holes/ Form Voids</b>				
			<u>Small circular holes, of diameter up to and including 0.35 m</u>				
7.36			200mm diameter through reservoir roof slab for ultrasonic depth meter	No	2	R	-
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							R -

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							R -
7.37			200mm diameter through reservoir roof slab for air vent	No	8		R -
7.38			Square box outs for reservoir, inlet, outlet, scour and overflow	No	6		R -
			<u>Large, other than circular, of area greater than 0.5 m2 and up to and including 1 m2</u>				
7.39			i) 1000 x 1000mm opening in roof slab	No	1		R -
7.40			ii) 750 x 600mm opening in roof slab	No	1		R -
	8.3		<b>Reinforcement</b>				
	8.3.1		Steel Bars				
7.41			a) Mild Steel	t	1		R -
7.42			b) High tensile steel	t	60		R -
	8.4		<b>Concrete</b>				
7.43			Screed - 1:3 Cement/ Sand	m <sup>2</sup>	700		R -
7.44			No fines concrete to underfloor drain system	m <sup>3</sup>	53		R -
7.45	8.4.3		15MPa concrete for platforms, steps, pipe supports etc	m <sup>3</sup>	50		R -
	8.4.3		<b>Concrete, Grade 35MPa/ 19mm for:</b>				
7.46			i) Reservoir base	m <sup>3</sup>	115		R -
7.47			ii) reservoir walls	m <sup>3</sup>	200		R -
7.48			iii) internal column, column head and pedestal	m <sup>3</sup>	22		R -
7.49			iv) roof and upstand beam	m <sup>3</sup>	130		R -
	8.4.3		<b>Concrete, Grade 25MPa/ 19mm for:</b>				
7.50			Chamber Roof Slabs	m <sup>3</sup>	6		R -
7.51			Chamber Floor Slabs	m <sup>3</sup>	7		R -
7.52			Chamber walls	m <sup>3</sup>	15		R -
	8.4.4		Unformed surface finishes:				
7.53			a) Wood floated	m <sup>2</sup>	650		R -
7.54			b) Steel floated	m <sup>2</sup>	600		R -
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							R -

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							<b>R -</b>
7.55	8.5		<b>Joints</b> Construct construction joints for: (rate to include for the supply and fixing of the waterstop where provided, provision of the split stop ends to accommodate the waterstop and perforated stop ends where necessary for continuous reinforcing)				
7.56			a) Horizontal base/wall construction joint at base of reservoir wall. Rate to be inclusive of supply and installing 100mm wide bandage type sealant (Sikadur Combiflex or similar approved) and for the 150mm wide dumbbell waterstop - (Expandite "Waterfoil" or similar approved)	m	250		R -
7.57			b) Vertical construction joint in floor slab (with continuous reinforcing), Rate to be inclusive of supply and installing 100mm wide bandage type sealant ( Sikadur Combiflex or similar approved) and 150mm wide uPVC waterstop. (Expandite Supercast rearguard R or similar approved)	m	700		R -
7.58			Roof slab construction joint (with continuous reinforcement), Rate to be inclusive of supply and installation of 100mm wide self adhesive aluminum backed sealing strip(Bostik Ditsit or similar approved) on top and 2 coats of "Sikatoop 107" or similar approved.	m	160		R -
7.59			Vertical construction joint in wall (100mm widebandage type selant sikadur combiflex	m	300		R -
7.60			Horizontal roof sliding joint on top of wall. "KILCHER" Teflon sliding bearing for a safe working load of 3t/m	m	150		R -
7.61			Supply all material and labour and apply two coats of "Valdex Super" 100 mm wide at construction joint between floor and pedestal	m	280		R -
7.62			Allow for the ponding and water tightness testing of the roof	No.	4		R -
7.63	PSG 8.4.7		Pipes and conduits embedded in concrete	No.	6		R -
7.64	PSG 8.4.8		Grouting of Pipes/ Specials through walls				
7.65			a) 250mm Ø diameter pipe with flange	No.	18		R -
7.66	PSG 8.9		Testing for watertightness (3 No. Reservoirs)	Sum	1		R -
7.67	PSG 8.10		Cleansing and Disinfection (3 No. Reservoirs)	Sum	1		R -
<b>TOTAL CARRIED TO FORWARD</b>							<b>R -</b>

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL CARRIED FORWARD							R -
			<b>Sundry Items</b>				
			Supply and place clean, crushed, washed igneous stone:				
7.68			a) 25mm nominal size on reservoir roof in 100mm layer	m <sup>2</sup>	550	R	-
7.69			Supply and install 1000 x 100mm PAM cover and frame or similar approved	No.	3	R	-
7.70			Supply and install 700 x 800 PAM cover and frame or similar approved	No.	1	R	-
7.71			Supply and install air ventilator as per detail	No.	12	R	-
			<b>Structural Steelwork (Sundry Items)</b>				
7.72			a) Internal stainless steel ladder 6.800mm long with fall protection cage complete and installed as per drawing	No.	3	R	-
7.73			b) External galvanised steel ladder 6500mm long with fall protection cage and handrail complete	No.	1	R	-
			<b>Sundry Items (Fencing)</b>				
			Fencing				
			Supply and erect new fencing material for new fences as per detail				
7.74			i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate to include supply, delivery from source and installation	m	400	R	-
7.75			ii) Gate (8m long)	No.	2	R	-
7.76			iii) Barbed tape concertina	m	400	R	-
	<b>SANS 1200L</b>		<b>Medium Pressure Pipelines</b>				
	8.2.5		Supply and place pipes, valves and specials including all jointing materials such as nuts,				
			<u>1) Inlet Chamber As Shown on Drawing</u>				
7.77			a) 250mm Ø flange adaptor or similar approved for uPVC	No.	2	R	-
7.78			b) 50mm Ø gas socket welded into 250mm Ø spool piece with puddle flange, F.B.E, L = 1460mm	No.	2	R	-
TOTAL CARRIED TO FORWARD							R -

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL CARRIED FORWARD							R -
7.79			c) 50mm Ø VOSA RSV Gate valve or similar approved	No.	2		R -
7.80			d) 250mm Ø VOSA RSV gate valve or similar approved	No.	4		R -
7.81			e) 250 mm dia flanged strainer, BERMAD MODEL 70F or similar approved	No.	2		R -
7.82			f) 250 mm dia flanged flow & level control valve, BERMAD MODEL 757-V-66-U or similar approved	No.	2		R -
7.83			g) 250 X150 mm dia reducer ,F.B.E	No.	4		R -
7.84			h) 150mm Ø spool piece, F.B.E, L=750mm	No.	2		R -
7.85			i) 150mm Ø flanged water meter, MEINECKE or similar approved	No.	2		R -
7.86			j) 150 mm Ø VJ flange adaptor for steel pipe	No.	2		R -
7.87			k) 150mm Ø spool piece, F,O.E, L=500mm	No.	2		R -
7.88			l) 250mm Ø spool piece, F.B.E, L=945mm	No.	2		R -
7.89			m) 250 mm dia 90 degree stainless steel	No.	4		R -
7.90			n) 250mm Ø spool piece, F.O.E, ,L=2200mm	No.	4		R -
7.91			o) 250 mm dia stainless steel spool piece with puddle flange, F.O.E, L=1400mm	No.	2		R -
7.92			p) 250mm Ø spool piece, F.B.E, L=1100mm	No.	2		R -
7.93			q) 50mm Vent-O-Mat Air valve RBX 1601 or similar approved	No.	2		R -
7.94			r) 50mm Ø blank flange with 50NB threaded socket welded centrally	No.	2		R -
7.95			s) 50mm Ø spool piece, F.B.E, L=200mm with 15NB threaded socket welded to at middle	No.	2		R -
7.96			t) 50mm Ø spool piece, F.O.E, L=250mm threaded 50NB socket welded to pipe at middle	No.	2		R -
7.97			u) 15mm Ø steel pipe, threaded both ended,	No.	2		R -
7.98			v) 15mm Ø female valve (ball-o-stop) or	No.	2		R -
7.99			w) 15mm Ø male stop end	No.	2		R -
7.100			<u>2) Outlet Chamber</u> a) 50mm Ø Vent-O-Mat Air valve RBX 1601 or similar approved	No.	2		R -
7.101			b) 50mm Ø gas socket welded into 250mm Ø spool piece with puddle flange, F.B.E, L=1450mm	No.	2		R -
TOTAL CARRIED TO FORWARD							R -

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3.5 MI CONCRETE RESERVOIR AT GROOTVLEI							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL CARRIED FORWARD							R -
7.102			c) 50mm Ø VOSA RSV gate valve with hand wheel or similar approved	No.	2		R -
7.103			d) 250mm Ø VOSA RSV gate valve with hand wheel or similar approved	No.	4		R -
7.104			e) 250mm Ø flanged strainer, Bermad Model 70F or similar approved	No.	2		R -
7.105			f) 250mm Ø spool piece, F.B.E ,L=605mm	No.	2		R -
7.106			g) 250 x 150 mm dia reducer , F.B.E	No.	4		R -
7.107			h) 150mm Ø spool piece, F.B.E , L=750mm	No.	2		R -
7.108			i) 150mm Ø flanged water meter, Meinecke or similar approved	No.	2		R -
7.109			j) 150 mm VJ flange adaptor for steel pipe	No.	2		R -
7.110			k) 150mm spool piece, F.O.E, L=500mm	No.	2		R -
7.111			l) 250mm dia stainless steel spool piece with puddle flange, L=1310mm	No.	2		R -
7.112			m) 250mm dia stainless steel, L=3195mm	No.	2		R -
7.113			n) 250mm dia 90 degree stainless steel L.R elbow	No.	2		R -
7.114			o) 250mm dia stainless steel spool pieces with puddle flange,L=845mm	No.	2		R -
7.115			p) 250mm X 300 mm stainless steel bell mouth,L=50mm	No.	2		R -
7.116			q) 250mm blank flange	No.	2		R -
7.117			r) 250mm dia flange adaptor or similar approved for uPVC	No.	2		R -
7.118			s) 250mm Ø spool piece with puddle flange,f.b.e,L=1000mm	No.	2		R -
7.119			t) 250mm dia. 90 degree stainless steel L.R	No.	2		R -
7.120			u) 250mm dia VOSA RSV gate valve with hand wheel or similar approved	No.	2		R -
7.121			v) 250mm spool piece with puddle flange, F.B.E, L=1920mm	No.	2		R -
7.122			w) 250mm dia flange adaptor or similar approved for GRP pipe	No.	2		R -
7.123			x) 250mm dia GRP pipe,L=11025mm	No.	2		R -
7.124			y) 250mm Ø GRP pipe with puddle flange, L = 11000mm	No.	2		R -
7.125			z) 50mm Ø blank flange with 50NB threaded socket welded centrally	No.	2		R -
TOTAL CARRIED TO FORWARD							R • -

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<b>3.5 MI CONCRETE RESERVOIR AT GROOTVLEI</b>							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>TOTAL CARRIED FORWARD</b>							R -
7.126			aa) 50mm Ø spool piece, F.B.E, L=200mm with 15NB threaded socket welded to pipe at	No.	2		R -
7.127			ab) 50mm Ø spool piece, F.O.E, L=250mm threaded 50NB socket welded to pipe at	No.	2		R -
7.128			ac) 15mm Ø steel pipe, threaded both ends, L=75mm	No.	2		R -
7.129			ad) 15mm Ø female valve (ball-o-stop) or similar approved	No.	2		R -
7.130			ae) 15mm Ø male stop end	No.	2		R -
<b>3) Overflow and Scour Chamber</b>							
7.131			a) 250 mm Ø uPVC pipe,L=18000mm	No.	2		R -
7.132			b) 250 mm dia stainless steel with puddle flange,L=2320mm	No.	2		R -
7.133			c) 250mm dia 90 degree stainless steel L.R elbow	No.	4		R -
7.134			d) 250mm spool piece, F.O.E ,L=2200mm	No.	4		R -
7.135			e) 250mm dia stainless steel with puddle flange , F.B.E, L=1400mm	No.	2		R -
7.136			f) 250 mm Ø spool piece, F.O.E, L=1900 mm	No.	2		R -
<b>Stormwater Drainage</b>							
7.137			Construct overflow chamber complete as per detail as detailed	No.	2		R -
7.138			Construct headwall complete as per detail as per drawing no.	No.	2		R -
<b>TOTAL CARRIED TO SUMMARY</b>							

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WATER SUPPLY SCHEME PHASE 4 CONSTRUCTION OF A PIPELINE**  
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SECTION 8: DAYWORKS							
	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	Rate	SCHEDULED AMOUNT
			<u>No dayworks will be carried out without an instruction from the Engineer</u>				
	PAA.5.1		<b>DAYWORKS</b>				
			Allow for dayworks for sundry items not covered by measured items:				
			<b>LABOUR</b>				
8.1			Site Agent	hrs	200	R	-
8.2			Gang Supervisor	hrs	200	R	-
8.3			Unskilled Labourers	hrs	200	R	-
8.4			Bricklayer	hrs	200	R	-
8.5			Pipe Fitter	hrs	200	R	-
8.6			Semi Skilled Labourers	hrs	200	R	-
8.7			Construction Hand and Operator	hrs	200	R	-
8.8			Carpenter	hrs	80	R	-
8.9			Clerk	hrs	240	R	-
8.10			Artisans	hrs	200	R	-
8.11			Foreman	hrs	200	R	-
8.12			Welder	hrs	80	R	-
8.13			Painter	hrs	80	R	-
8.14			Electrician	hrs	80	R	-
			<b>MATERIALS</b>				
8.15			Provisional sum for cost of material	Prov Sum	1	R 600 000.00	R 600 000.00
8.16			Contractors mark-up on material	%		R 600 000.00	R -
			<b>PLANT</b>				
8.17			T L B	hrs	150	R	-
8.18			Light delivery vehicles (1t or equivalent)	km	200	R	-
8.19			10 Ton Truck with Crane	km	200	R	-
8.20			Generator Set	hrs	200	R	-
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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SECTION 8: DAYWORKS							
	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	Rate	SCHEDULED AMOUNT
<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
8.21			Pipe Cutting Machine (steel)	hrs	200		R -
8.22			Welding Machine	hrs	200		R -
8.23			Compressor and Jack Hammer	hrs	200		R -
8.24			Tip Truck	hrs	200		R -
8.25			Water Tanker	hrs	200		R -
8.26			Plate Compactor	hrs	200		R -
<b>TOTAL CARRIED TO SUMMARY</b>							