

CONSTRUCTION PROJECT COST (SUMMARY PAGE)**UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

SECTION	SECTION	DESCRIPTION	AMOUNT
A	1	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS	
A	2	PRELIMINARY AND GENERAL - TIME RELATED OBLIGATIONS	
A	3	PRELIMINARY AND GENERAL - PROVISIONAL SUMS AND PRIME COST	
A	4	PRELIMINARY AND GENERAL - DAYWORKS	
B	1	EARTHWORKS FOR PIPE TRENCHES AND PIPE BEDDING	
B	2	MEDIUM PRESSURE PIPELINES AND ANCILLARIES	
B	3	ERF CONNECTIONS	
D	1	PUMP STATION	
SUBTOTAL			
10% CONTINGENCIES			
5% CPA			
SUB-TOTAL			
ADD 15% VAT:			
TOTAL CONSTRUCTION COST			

SCHEDULE A: PR THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 1
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A.1		FIXED CHARGE AND VALUE RELATED ITEMS: (As specified in SABS 1200 A, SABS 1200 AB and the Project Specifications.)				
1.1		Contractual Requirements:				
1.1.1	8.3.1	Fixed charge contractual requirements.	Sum	1		
1.1.2	8.3.1	Value related contractual requirements.	Sum	1		
1.1.3		Site disestablishment	sum	1		
1.1.4		Site re-establishment	sum	1		
1.2		Facilities for Engineer:				
1.2.1	8.3.2.1 a	Furnished office - 1 No.	Sum	1		
1.2.2	8.3.2.1 b	Telephone - 4g Cell phone and Airtime	Prov Sum	1	R 25,000.00	R 25,000.00
1.2.3	8.3.2.1 c	Name board	No.	2		
1.2.4	PSA 4.6.5	Provision of survey equipment.	Prov Sum	1	R 10,000.00	R 10,000.00
1.2.5		A3 colour printer	sum	1		
1.3		Facilities for Contractor:				
1.3.1	8.3.2.2 a	Offices and storage sheds	Sum	1		
1.3.2	8.3.2.2 b	Workshops	Sum	1		
1.3.3	8.3.2.2 c	Laboratories	Sum	1		
1.3.4	8.3.2.2 d	Living accommodation	Sum	1		
1.3.5	8.3.2.2 e	Ablution and latrine facilities	Sum	1		
1.3.6	8.3.2.2 f	Tools and equipment	Sum	1		
1.3.7	8.3.2.2 g	Water supplies, electric power and communications	Sum	1		
1.3.8	8.3.2.2 h	Dealing with water	Sum	1		
1.3.9	8.3.2.2 i	Access	Sum	1		
1.3.10	8.3.2.2 j	Plant	Sum	1		
1.3.11	PSA 4.2	Materials on site storage and protection.	Sum	1		
1.3.12		Accommodation of traffic.	Sum	1		
1.4	8.3.4	Removal of Site Establishment:	Sum	1		
TOTAL SECTION 1 CARRIED TO SUMMARY						

SCHEDULE A: TIM THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A.2		TIME RELATED ITEMS: (As specified in SABS 1200 A, SABS 1200 AB and the Project Specifications.)				
2.1		Contractual Requirements:				
2.1.1	8.4.1	Time related contractual requirements.	Month	12		
2.2		Facilities for Engineer:				
2.2.1	8.4.2.1 a	Furnished office - 1 No.	Month	12		
2.2.2		A3 Colour printer	Month	12		
2.3		Facilities for Contractor:				
2.3.1	8.4.2.2 a	Offices and storage sheds.	Month	12		
2.3.2	8.4.2.2 b	Workshops.	Month	12		
2.3.3	8.4.2.2 c	Laboratories.	Month	12		
2.3.4	8.4.2.2 d	Living accommodation.	Month	12		
2.3.5	8.4.2.2 e	Ablution and latrine facilities.	Month	12		
2.3.6	8.4.2.2 f	Tools and equipment.	Month	12		
2.3.7	8.4.2.2 g	Water supplies, electric power and communications.	Month	12		
2.3.8	8.4.2.2 h	Dealing with water.	Month	12		
2.3.9	8.4.2.2 i	Access.	Month	12		
2.3.10	8.4.2.2 j	Plant.	Month	12		
2.4	8.4.3	Supervision for Duration of the Contract:	Month	12		
2.5	8.4.4	Overhead Costs for the Duration of the Contract:	Month	12		
2.6	8.4.5	Other Time Related Obligations - Covid 19& PPE Obligations	Month	12		
2.7	PSA 4.6.7	Environmental Management:	Month	12		
2.8						
SUB-TOTAL SCHEDULE A - SECTION 2 CARRIED FORWARD:						

SCHEDULE A: TIM THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE A - SECTION 2 BROUGHT FORWARD:						
2.9	4.6	Community Liaison Officer:				
2.9.1	PSA 4.6.1	Provision for the employment of CLO and Stipend for PSC Members.	Month	12	R 15,200.00	R 182,400.00
2.9.2		Overheads, charges and profit on item 2.9	%	R 76,000.00		
2.11	8.5 b	Basic Skills and Construction Training:				
2.11.1	PSA 8.5 (c)	Provision for basic skills and construction site safety training.	Prov. Sum	1	R 200,000.00	R 200,000.00
2.11.2	PSA 8.5 (c)	Overheads, charges and profit on item 2.11	%	R 200,000.00		
2.12	8.5 b	Relocation/Protection of Existing Services:				
2.12.1	PSA 4.4.1	Provision for relocation/protection of existing services.	Prov. Sum	1	R 200,000.00	R 200,000.00
2.12.2		Overheads, charges and profit on item 2.12.1	%	R 200,000.00		
2.13	4.6	Routine Tests required by Engineer:				
2.13.1	PSA 4.6	Provision for routine tests.	Prov. Sum	1	R 60,000.00	R 60,000.00
2.13.2		Overheads, charges and profit on item 2.13.1	%	R 60,000.00		
2.14	PSA 8.3.5	OCCUPATIONAL HEALTH AND SAFETY				
2.14.1	PSA B.8.3.5. 1	Contractor's initial obligations in respect of the Occupation Health and Safety Act and Contractual Regulations	Sum	1		
2.14.2	PSA B.8.3.5. 2	Occupational Health and Safety Act (a) Provision of a qualified full time occupational health and safety personel	Month	12		
2.14.3	PSA B.8.3.5. 3	Contractor's time related obligation in respect of the OH & S Act and Construction Regulation	Month	12		
TOTAL SECTION 2 CARRIED TO SUMMARY						

**SCHEDULE A: THEMBISILE HANI LOCAL MUNICIPALITY
UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

SECTION 3

ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A.3		PRIME COST ITEMS: (As specified in SABS 1200 A and the Project Specifications.)				
3.1	8.6	Pipe Specials:				
3.1.1	PSA 8.6 e	Provision of pipe specials, valves and fittings for main connectionsn as per Designs specified by the engineer specifications.	PC Sum	1	R 50,000.00	R 50,000.00
3.1.2	PSA 8.6 f	Overheads, charges and profit on item 4.3.1.	%	R 50,000.00		
TOTAL SECTION 3 CARRIED TO SUMMARY						

SCHEDULE A: DA THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 4
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A.4		DAYWORK: (As specified in SABS 1200 A and the Project Specifications.)				
4.1	8.7	Labour - Normal Working Hours: [Provisional]				
4.1.1		Skilled Labour (Artisan).	hr	20		
22.5		Semi-skilled Labour.	hr	20		
4.1.3		Unskilled Labour.	hr	20		
4.1.4		Foreman.	hr	20		
4.2	8.7	Materials: [Provisional]				
4.2.1		Allowance for Materials used under Dayworks.	Prov. Sum	1	R 50,000.00	R 50,000.00
4.2.2		Overheads, Handling and all Charges on Item 4.2.1.	%	50000		
4.3	8.7	Plant - Heavy Equipment: [Provisional] (Plant shall not be more than 3 years old or have more than 3000 hrs logged. Operator to be qualified and competency certified.)				
4.3.1		Excavator - Size Cat 225.	hr	20		
4.3.2		Excavator - TLB.	hr	20		
4.3.3		Grader 140G or similar.	hr	20		
4.3.4		Front end loader - bucket capacity ≤ 1.5 m3.	hr	20		
4.3.5		Front end loader - bucket capacity ≤ 1.5 m3.	hr	20		
4.3.6		Tip truck - 5 m3 capacity.	hr	20		
4.3.7		Tip truck - 10 m3 capacity.	hr	20		
4.3.8		Vibratory compaction roller - 13.5 ton.	hr	20		
4.3.9		Transport cost per any unit of plant to deliver to site and remove from site for items 4.3.1 to 4.3.8 Handling fee	Prov. Sum %	1	R 25,000.00	R 25,000.00
4.4	8.7	Plant - Small Equipment: [Provisional]				
4.4.1		Pedestrian roller - BW90 or similar.	hr	20		
4.4.2		Vibratory plate compactor.	hr	20		
4.4.3		Vibratory rammer.	hr	20		
4.4.4		Transport cost per any unit of plant to deliver to site and remove from site for items 4.4.1 to 4.4.3.	Sum	1	R 15,000.00	R 15,000.00
		TEMPORARY WORKS: (As specified in SABS 1200 A and the Project Specifications.)				
4.5	8.8	Access Roads to the Works.				
4.5.1	PSA 8.8.2 (b)	Provision and maintenance of construction access to sites, camp or pipeline routes as required by the contractor.	Prov. Sum	1	R 30,000.00	R 30,000.00
4.6	8.8					
4.6.1	PSA 8.8.2(c)	Safety Measures at Excavations: Provision of all safety measures required to fully protect all excavations against public access, injury or any other possible accident.	Prov. Sum	1	R 50,000.00	R 50,000.00
TOTAL SECTION 4 CARRIED TO SUMMARY						

SCHEDULE B: E THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 1
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B.1	1200 DB	EARTHWORKS: (As specified in SABS 1200 DB and the Project Specifications.)				
1.1	PSC 1	Site Clearance:				
		Clear vegetation, 1200 mm wide and removal of trees of girth up to 1m.	m	28000		
1.1.1	8.3.1 a					
1.1.2	8.3.1 b	Clear trees of girth over 1.0 m.	No.	5		
1.1.3	8.3.1 c	Remove 150 mm topsoil.	m ²	800		
1.1.4		Demolish existing concrete.	m ³	10		
1.1.5		Clear and shape roads and side drains.	m ³			Rate only
1.1.6		Shape to grade for trench excavation.	m ³			Rate only
	8.3.2	Excavation				
1.2	PSDB	Excavation using Plant:				
1.2.1	8.3.2 (a)	Excavate in all materials for trench depths up to 1200 mm, 900 mm wide, backfill, compact and dispose of surplus material.	m ³	22680		
		Excavate in all materials for trench depths exceeding 1200 mm up to 2500 mm, 900 mm wide, backfill, compact and				
1.2.3	8.3.2 (a)	dispose of surplus material.	m ³	3780		
	8.3.2 (b)	Extra-over for				
1.2.4	1	Extra-over items 1.2.1, 1.2.2 and 1.2.3 for excavation in intermediate material.	m ³	6804		
	8.3.2 (b)	Extra-over items 1.2.1, 1.2.2 and 1.2.3 for excavation in hard				
1.2.5	2	material. (Provisional)	m ³	2646		
1.2.6	8.3.2 (c)	Excavate and dispose of unsuitable material from trench bottom.	m ³	590		
	8.3.3	Excavation Ancillaries				
1.2.7	8.3.3.1	Make up deficiency in backfill material				
	8.3.3.1					
1.2.8	(a)	From other necessary excavation on site	m ³	472		
1.2.9	8.3.3.1	by importing from commercial or off-site sources selected by the Contractor	m ³	236		
	(c)					
1.2.10	8.3.3.2		Pov.			
		Opening and closing designated borrow pits.	Sum	1	R 15,000.00	R 15,000.00
1.2.11	8.3.3.3	Compaction within road reserve to 90 % of Modified AASHTO density clause 5.7.1.	m ³			
1.2.12	8.3.3.3	Compaction within road reserve to 93 % of Modified AASHTO density, as per clause 5.7.2.	m ³	135		
	8.3.3.4	Overhaul:				
1.3	8.3.3.4					
1.3.1	(a)	Limited overhaul	m ³	100		
1.3.2	8.3.3.4					
	(b)	Long overhaul	m ³ -km	1200		
	1.4	Existing Services that Intersect or Adjoin a pipe trench:				
1.4.1	8.3.5 a	Services that intersect a trench.	No.	100		
	8.3.5 b	Services that Adjoin a trench.	m	500		
SUB-TOTAL SCHEDULE B - SECTION 1 CARRIED FORWARD:						

SCHEDULE B: E THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 1
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE B - SECTION 1 BROUGHT FORWARD:						
1.5	8.3.6	Finishing:				
1.5.1	8.3.6.1 c	Reinstate road surfaces using 30 mm asphalt in roadway, including prime and tack coat.	m ²	80		
1.5.2	8.3.6.1 c	Takedown, transport, store, restate 40m ² 80mm interlocking concrete paving blocks and 4m kerbs.	No.	5		
1.5.3		upto 300mm Pipe Diameter crossing Asphalt road. The rate shall cover for removing, transporting and storing 8m kerb, saw cutting asphalt, excavation on the paved road, lay pipe, backfill and replace a maximum of 3 pavement road layers using imported material (150mm G7, 150mm C4 and 150mm C3 material), reinstall kerbs and dispose unwated material. Construction works to acceptable SANS1200 standard NB: test results for processed layers will be required	No	6		
1.5.4		Road crossing traffic control, including road signage, 2 x flagman	No	6		
1.6	1200 LB	BEDDING: (As specified in SABS 1200 LB and the Project Specifications.)				
	8.2.1	Bedding from Trench Excavations: (Bedding to be Class C for flexible pipes as indicated in the contract drawings)				
1.6.1	8.2.1 (a)	Provision of bedding from pipe trench excavation within 1.0 km, using selected granular material.	m ³	1890		
1.6.2	8.2.1 (b)	Provision of bedding from pipe trench excavation within 1.0 km, using selected fill material.	m ³	5670		
1.7	8.2.2	Supply only of bedding by Importation				
	8.2.2.3	From offsite sources (Provisional) (Bedding to be Class C for flexible pipes as indicated in the contract drawings)				
1.7.1	8.2.2.3	Selected granular material	m ³	1890		
1.7.2	8.2.2.3	Selected fill material	m ³	5670		
1.8	PSDA	Overhaul:				
1.8.1		Overhaul of material for bedding from trench excavations. Free-haul distance is 1.0 km.				
1.8.2		Overhaul of material for bedding from designated borrow pit. Free-haul distance is 5.0 km.	m ³ -km	37800		
1.9	8.2.3	Concrete bedding cradle	m ³	6		
1.10	8.2.4	Encasing of Pipes in Concrete	m ³	10		
1.11	1200 LG	PIPE JACKING				
1.11.1	8.2.1	Jacking Establishment	sum			
1.11.2	8.2.6	Supply and Install Pipes by Jacking Method, complete with Excavations of up to 300 mm diameter uPVC	m			
TOTAL SECTION 1 CARRIED TO SUMMARY						

SCHEDULE B: BU THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B.2		MEDIUM PRESSURE PIPES: (As specified in SABS 1200 L, SABS 1200 GA and the Project Specifications.)				
2.1(a)	8.2.1 PSDB 13.1	Supply, Lay and Bed uPVC Pipes Complete: uPVC SANS 966 (The rates shall include disinfecting of pipes after completion of hydraulic pipe test.)				
2.1.1		63 mm uPVC medium pressure pipes - Class 9.	m	14,300		
2.1.2		75 mm uPVC medium pressure pipes - Class 9.	m			Rate only
2.1.3		110 mm uPVC medium pressure pipes - Class 9	m	12,300		
2.1.4		160 mm uPVC medium pressure pipes - Class 9	m	800		
2.1.5		200 mm uPVC medium pressure pipes - Class 9	m	600		
2.1.6	PSL 5. 10	Disinfecting Pipe Works & Hydraulic Pipe Testing: Pipes.				
2.1.6.1		63 mm uPVC medium pressure pipes - Class 9	m	14,300		
2.1.6.2		75 mm uPVC medium pressure pipes - Class 9	m			
2.1.6.3		110 mm uPVC medium pressure pipes - Class 9	m	12,300		
2.1.6.4		160 mm uPVC medium pressure pipes - Class 9	m	800		
2.1.6.5		200 mm uPVC medium pressure pipes - Class 9	m	600		
2.2	8.2.2	Fittings and Specials - uPVC Bends: (Extra-over rate to Items 2.1.1 to 2.1.7.) The rate shall include supply, store, lay, bed, joint, test and disinfect				
2.2.1		63 mm uPVC Class 9:				
2.2.1.1		uPVC bends less than 11.25 degree angle.	No.	18		
2.2.1.2		uPVC bends less than 22.5 degree angle.	No.	14		
2.2.1.3		uPVC bends with 45 degree angle.	No.	20		
2.2.1.4		uPVC bends with 90 degree angle.	No.	20		
2.2.4		110 mm uPVC Class 9:				
2.2.4.1		uPVC bends less than 11.25 degree angle.	No.	14		
2.2.4.2		uPVC bends less than 22.5 degree angle.	No.	12		
2.2.4.3		uPVC bends with 45 degree angle.	No.	12		
2.2.4.4		uPVC bends with 90 degree angle.	No.	10		
2.2.5		160 mm uPVC Class 9:				
2.2.5.1		uPVC bends less than 11.25 degree angle.	No.	6		
2.2.5.2		uPVC bends less than 22.5 degree angle.	No.	8		
2.2.5.3		uPVC bends with 45 degree angle.	No.	8		
2.2.5.4		uPVC bends with 90 degree angle.	No.	8		
2.3	8.2.2	Specials and Fittings -Extra over for connections of items 2.1.1,2.1.2,2.1.3,2.1.4,2.1.5,2.1.6,2.1.7.				
	2.3.1	uPVC Equal Tees				
2.3.1.1		63 mm dia Class 12.	No.	35		
2.3.1.2		75 mm dia Class 12.	No.			Rate Only
2.3.1.3		90 mm dia Class 9.	No.			Rate Only
2.3.1.4		110 mm dia Class 12.	No.	12		
2.3.1.5		160 mm dia Class 9.	No.			Rate Only
2.3.1.6		200 mm dia Class 9.	No.			Rate Only
2.3.1.7		250 mm dia Class 9.	No.			Rate Only
SUB-TOTAL SCHEDULE B - SECTION 2 CARRIED FORWARD:						

SCHEDULE B: BU THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE B - SECTION 2 BROUGHT FORWARD:						
2.3.2		uPVC Non-Equal Tees				
2.3.2.1		75mm x 75mm x 63mm dia.	No.			Rate Only
2.3.2.2		90mm x 90 mm x 63mm dia.	No.			Rate Only
2.3.2.3		110mm x 110 mm x 63mm dia.	No.	30		
2.3.2.4		110mm x 110 mm x 75mm dia.	No.			Rate Only
2.3.2.5		110mm x 110 mm x 90mm dia.	No.			Rate Only
2.3.2.6		160mm x 160 mm x 63mm dia.	No.	6		
2.3.2.7		160mm x 160 mm x 110mm dia.	No.	8		
2.3.2.8		200mm x 200 mm x 110mm dia.	No.			Rate Only
2.3.2.9		200mm x 200 mm x 160mm dia.	No.			Rate Only
2.3.3		uPVC Equal Cross				
2.3.3.1		63 mm dia.	No.	4		
2.3.3.2		75 mm dia.	No.			Rate Only
2.3.3.3		110 mm dia.	No.	4		
2.3.3.5		160 mm dia.	No.			Rate Only
2.3.3.6		200 mm dia.	No.			Rate Only
2.3.4		uPVC Non-Equal Cross				
2.3.4.1		75mm x 63 mm dia.	No.			Rate Only
2.3.4.2		90mm x 63mm dia.	No.	2		
2.3.4.3		110mm x 63mm dia.	No.	2		
2.3.4.4		110mm x 75mm dia.	No.			
2.3.4.5		110mm x 90mm dia.	No.			Rate Only
2.3.4.6		160mm x 75mm dia.	No.			
2.3.4.7		160mm x 110mm dia.	No.	6		
2.5	8.2.2	Specials and Fittings - Cast Iron Scour Tees: (Cast iron scour tee, Bitumen dipped and LYNG sockets to SABS 546 and SABS 966 with flanged branch, 100 mm dia, drilled to SABS 1123, Table 16.)				
2.5.1		63 mm dia.	No.			Rate Only
2.5.2		75 mm dia.	No.	1		
2.5.3		110 mm dia.	No.			Rate Only
2.6	8.2.2	Specials and Fittings - uPVC Class 12 End Caps:				
2.6.1		63 mm dia.	No.	4		
2.6.2		75 mm dia.	No.			Rate only
2.6.3		110 mm dia.	No.			Rate only
2.7	8.2.2	Specials and Fittings - uPVC Reducers for Extra over on connection of items 2.1.1,2.1.2,2.1.3,2.1.4,2.1.5,2.16,2.1.7				
2.7.1		75 mm x 63 mm dia uPVC Class 12.	No.			
2.7.2		90 mm x 75 mm dia uPVC Class 12.	No.			
2.7.3		110 mm x 63 mm dia uPVC Class 12.	No.	20		
2.7.4		110 mm x 75 mm dia uPVC Class 12.	No.			
SUB-TOTAL SCHEDULE B - SECTION 2 CARRIED FORWARD:						

SCHEDULE B: BU THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE B - SECTION 2 BROUGHT FORWARD:						
2.7.5		110 mm x 90 mm dia uPVC Class 12.	No.			Rate only
2.7.6		125 mm x 110 mm dia uPVC Class 12.	No.			Rate only
2.7.7		160 mm x 90 mm dia. uPVC Class 9	No.			Rate only
2.7.8		160 mm x 110 mm dia uPVC Class 9	No.	4		
2.7.9		200 mm x 110 mm dia uPVC Class 9.	No.			Rate only
2.7.10		200 mm x 160 mm dia uPVC Class 9.	No.			Rate only
2.8	8.2.2	Specials and Fittings - Flang Adaptors: (Bitumen dipped and LYNG sockets to SABS 546 and SABS 966 with flange drilled to SABS 1123, Table 16.)				
2.8.1		75 mm dia.	No.			Rate only
2.8.2		110 mm dia.	No.			Rate only
2.8.3		160 mm dia.	No.			Rate only
2.8.4		200 mm dia.	No.			Rate only
2.90	8.2.3	Specials and Fittings - Socketed gate Valves - PN 12: (socketed RSV steel isolating valves. Valves to be non-rising spindles with cap top.)				
2.9.1		63 mm dia. Class 12	No.	20		
2.9.2		75 mm dia. Class 16	No.			Rate only
2.9.3		110 mm dia. Class 16	No.	23		Rate only
2.9.4		160 mm dia. Class 16	No.	2		
2.9.5		200 mm dia. Class 16	No.			Rate only
2.9.6		250 mm dia. Class 16	No.			Rate only
		200mm diameter Flanged Butterfly	No.	2		
2.10	8.2.3	Specials and Fittings - Non return Valves:				
2.10.1		160 mm dia Flanged	No.	2		
		110 mm dia. Flanges	No.	2		
		63 mm dia Flanged	No.	2		
		200mm dia flanged	No.	2		
2.10	8.2.3	Specials and fittings -Flanged Y type Strainer (socket ends trainer.)				
2.10.1		150mm diameter langed y type strainer Tekflo or similar	No	2		
2.12	8.2.3	Specials and Fittings - Bulk Water Meter: (Kent or similar approved, flanged and drilled to SABS 1123, Table 16)				
2.12.1		110 mm dia. In-Line Bulk Water Meter.	No.	4		
		160 mm dia. In-Line Bulk Water Meter.	No.	1		
2.13	8.2.13	Valve Chambers:				
2.13.1		1250mm Diameter Precast Concrete Valve chamber - complete including excavation, Concrete slab, concrete cover with a minimum of 600mm diameter manhole cover slab & 600mm lockable lid, 150mm layer of 19mm crushed stones, materials, plant, labour and incidentals	No.	50		
SUB-TOTAL SCHEDULE B - SECTION 2 CARRIED FORWARD:						

SCHEDULE B: BU THEMBISILE HANI LOCAL MUNICIPALITY UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE						SECTION 2
ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE B - SECTION 2 BROUGHT FORWARD:						
2.13.3		Concrete Valve chamber, 2x2m area and a maximum of 2m depth - complete including excavation, Concrete slab, concrete cover with a minimum of 0.6 diameter manhole lid, materials. plant. labour and incidentals.	no	2		
2.14		Thrust Blocks:				
2.14.1		Excavation.	m ³	60		
2.14.2		Formwork.	m ²	80		
2.14.3		Concrete. [Class 25/19 MPa]	m ³	60		
2.15		Supply and Install Pipe Markers as per contract drawings details: SML-MP-032-001-007-T-00 Markers and thrust blocks.	No.			
2.20		Fire Hydrant Tee				
2.20.1		Supply and install Fire Hydrant Tee complete including labour and all fittings as per Sembcorp Silulumanzi details.	No.	25		
2.16		Fire hydrant Supply and installation of fire hydrant including all fittings as per drawing SML-MP-032-001-008-T-00 Fire Hydrants				
		100mm	No	15		
		TOTAL SECTION 1 CARRIED TO SUMMARY				

**SCHEDULE B: C THEMBISILE HANI LOCAL MUNICIPALITY
UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

SECTION 3

ITEM NO		DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
B.3	SABS 1200LF	ERF CONNECTIONS (WATER)				
1.1	8.2.1	Supply and install single yard connection complete with all fittings but excluding standpipe as per Detail Drawing SML-MP-032-001-006-T-00 communication pipes				
1.1.1		0-5m single connection	No			Rate only
1.1.2		5-10m single connection	No			Rate only
1.1.3		10-20m single connection	No			Rate only
1.2		Supply and Install double yard connection complete with all fittings, but excluding standpipe as per Detail Drawing				
1.2.1		0-5m double connection	No			Rate only
1.2.2		5-10m double connection	No			Rate only
1.2.3		10-20m double connection	No			Rate only
		Yard Connection: Supply and install domestic yard standpipe complete, including KSM RDP4 M+BX 20l SANS 1529-1 1994 water meter, communication pipes and saddle, specials and fittings, all labour, plant, materials and incidentals, as per detail drawing Ref. SML-MP-040-001-005-T-00 Yard Standpipe and pipe bedding details	No.	1760		R -
TOTAL CARRIED TO SUMMARY						

**SCHEDULE D: CLEAR WATER PUMP STATION
UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

ITEM	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PS	SANS	PUMP STATION 2: CLEAR WATER				
	1200 D					
PS 1		Earthworks				
		Restricted excavation in all materials, stockpile for backfilling and dispose of excess and/or unsuitable material:				
PS1.1	8.3.3					
PS1.1.1		Pump Station Soft excavation	m ³	150		
PS1.1.2		Further excavation as instructed by the Engineer below structures and dispose.	m ³	2		
PS1.1.3		Reinforcement				
PS1.1.4		Mild steel bars:	t	3		
PS1.1.5		High-tensile steel bars:	t	3		
PS1.1.6	8.3.2	High-tensile welded mesh:				
PS1.1.7		Type reference 395	m ²	140		
PS1.1.8		Type reference 617	m ²	50		
PS 2	8.1.3.3	Concrete				
PS2.1.1	8.4.2	Blinding layer in 15 MPa/19 mm concrete:				
PS2.1.2		50 mm minimum thickness	m ²	105		
PS2.1.3	8.4.3	Strength concrete: 30 MPa/19 mm to:				
PS2.1.4		Pump station foundation slabs	m ³	6		
PS2.1.5		Pump station Walls	m ³	15		
PS2.1.6	8.4.3	Wet Well Concrete Roof	m ³	52		
PS2.1.7		Brickwork as detailed on the pump house drawing	m ²	540		
PS 3		<u>GATEHOUSE GATE MOTOR</u>				
PS3.1.1		Provide the amount of R70 000,00 (Seventy Thousand Rand) for electrical gate works installed complete.	PC Sum	1.00		
PS3.1.2		Profit on above item.	%			
SUB-TOTAL SCHEDULE D - SECTION 15 CARRIED FORWARD						

**SCHEDULE D: CLEAR WATER PUMP STATION
UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

ITEM	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL SCHEDULE D - SECTION 15 BROUGHT FORWARD						
ITEM	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PS 4		PUMPS AND PIPE WORK				
PS4.1		Supply equipment (Items 9.4.1 to 9.4.6) (See Item 9.4.7 For delivery to site and item 9.4.8 for installation) Hoist				
PS4.1.1		Travelling trolley to suit 203 x 133 x 25l i-beam	No	1		
PS4.1.2		Removable 0.5ton hand operated chain hoist for inside pumpstation use, fitted with suitable connection to connect to trolley	No	1		
PS4.1.3		5 ton capacity R1 Morris beam crawl	No	1		
PS4.1.4		Pipe Supports				
PS4.1.5		Design, manufacture, deliver, install complete with corrosion protection pipe support frames to suit pipework	Sum	1		
PS 5		<u>MECHANICAL / HVAC WORKS</u>				
PS5.1.1		Provide the amount of R300,000 for Mechanical works installed complete.	PC Sum	R	1.00	
PS5.1.2		Profit on above item.	%			
PS5.1.3		Attendance on ditto.	Sum		1.00	
PS 6		<u>SIGNAGE</u>				
PS6.1.1		Provide the amount of R 50 000 (Fifty Thousand) for signage installed complete.	PC Sum	R	1.00	
PS6.1.2		Profit on above item.	%	R	50,000.00	
PS6.1.3		Attendance on ditto.	Sum		1.00	
L1.9	8.2.3	Specials and Fittings - Level and Flow control valve with surge protection including Vport and large area filter:				
		(Supply, install level and Flow control valve with surge protection including Vport and large area filter, including bolts, gaskets, couplings and adaptors) all valves are to be coated internally and externally with a fusion bonded epoxy with a 250 microns thickness, in compliance with EN 14901:2006)				
L1.9.1		200 mm dia. Class 16	No.	1		
		Supply and Install telemetry system to operate the pump station and concrete tower	No.	1		

**SCHEDULE D: CLEAR WATER PUMP STATION
UPGRADING OF THEMBALETHU WATER INFRASTRUCTURE**

ITEM	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL SECTION 15 CARRIED TO SUMMARY						