

Tender No.: RWXXXX
Description: Installation of meter connection at klipfontein view

H21 VALVE CHAMBER
SCHEDULE A: P&G

Item No.	Payment Refers	Description	Unit	Qty	Rate	Amount
A	SABS 1200AA	SECTION 1: PRELIMINARY & GENERAL FIXED CHARGES				
A1.1	8.3.1	Contractual Requirements				
A1.1.1		Contractual Requirements	Sum	1		
A1.2	8.3.2.	Provision of Facilities on Site				
	a)	Facilities required by Contractor	Sum	1		
A1.3	8.3.3	General Responsibilities and Other Fixed-term Obligations	Sum	1		
A1.4	8.3.4	Removal of Site Establishment	Sum	1		
A1.5	PSA 8.10	HIV / AIDS awareness				
A1.5.1		Conduct HIV/AIDS awareness programme workshops on site for not less than 90% of the workers inclusive of all direct and indirect costs	Sum	1		
A1.5.1.1		Provide and maintain condom dispenser	Sum	1		
A1.5.1.2		Provide and maintain HIV/AIDS awareness posters	Sum	1		
A1.5.1.3		Provide information regarding voluntary testing of construction workers and counselling, support and care in a monthly report.	Sum	1		
Carried Forward						

Tender No.: RWXXXX
Description: Installation of meter connection at klipfontein view

H21 VALVE CHAMBER
SCHEDULE A: P&G

Item No.	Payment Refers	Description	Unit	Qty	Rate	Amount
Brought Forward						
	SABS 1200AA	SECTION 1: PRELIMINARY & GENERAL TIME RELATED ITEMS				
A1.6	8.4.1	Contractual Requirements				
A1.6.1		Contractual Requirements	Sum	1		
A1.7	8.4.2	Operation and Maintenance of Facilities on Site				
A1.7.2	a)	Facilities for Contractor	sum	1		
A1.7.3	8.4.3	Genral Responsibilities and other Time-related Obligations	Sum	1		
A1.8		HIV / AIDS awareness				
A1.8.1	PSA 8.10	Conduct HIV/AIDS awareness programme workshops on site for not less than 90% of the workers inclusive of all direct and indirect costs	Sum	0		
A1.8.2	PSA 8.10	Provide and maintain condom dispenser	Sum	1		
A1.8.3	PSA 8.10	Provide and maintain HIV/AIDS awareness posters	Sum	1		
A1.8.4	PSA 8.10	Provide information regarding voluntary testing of construction workers and counselling, support and care in a monthly report.	Sum	1		
A1.9	8,8	TEMPORARY WORKS				
	8.8.4	Existing services				
A1.9.2		(a) Supply or hire of specialist equipment for the detection of existing cables and pipelines on site (for verifications as may be directed by an Engineer)	Sum	1		
A1.9.3		(b) The use of equipment referred to in item (a) above	Sum	1		
A1.9.4		(c) Excavation by hand in soft material to expose services as directed by the Engineer	Sum	1		
A1.9.5		(d) Temporary protection of services as directed by the Engineer	Sum	1		
A1.10		Pumping of water in case of flooding of excavations	Sum	1		
SCHEDULE A SUBTOTAL CARRIED FORWARD TO SUMMARY						

Contract No.: RWXXXX		H21 VALVE CHAMBER				
Description: Installation of meter connection at klipfontein view		SCHEDULE B: Environment				
Item No.	Payment Refers	Description	Unit	Qty	Rate	Amount
	PSAA 8.12	Schedule B : ENVIRONMENT				
B.1		Signage and baricading. :A4 corex boards, no go sign, A4 corex board for top soil. A4 corex board of environmental emergency numbers,	Lump sum	1		
B.2		Pollution prevention (Dust, smoke, spillage, litter and any material that might be deemed as causing pollution.)	Lump sum	1		
B.3	TS 1.26	Storm water deflection berms / cross embankments/erosion control berms for steep slope erosion protection or for the protection of topsoil stockpiles. This must include silt traps and sand bags to control storm water	Lump sum	1		
B.4		Waste disposal provision at an approved location, including the arrangements for sanitation removal.	Lump sum	1		
B.5		Administration and documentation. To include an environmental risk assessmemnt with mitigations which will be followed, all waste disposal certificates, monitoring of environmental maters.	Lump sum	1		
B.6		Emergency reaction funding. The safe environmental removal of snakes, bees and other fauna, Fire,large oil spillages, and the event you discover something of archaeological significance and it requires an archaeologist to come to site.	Lump sum	1		
SCHEDULE B SUBTOTAL CARRIED FORWARD TO SUMMARY						

Contract No.: RWXXXX		H21 VALVE CHAMBER				
Description: Installation of meter connection at klipfontein view		SCHEDULE C: Health and Safety				
Item No.	Payment Refers	Description	Unit	Qty	Rate	Amount
	PSAA 8.11	SCHEDULE C: OCCUPATIONAL HEALTH AND SAFETY				
C1		Preparation of the Contractor's site specific Health and Safety Plan	Lump sum	1		
C2		Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Lump sum	1		
C3		Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month	1		
C4		Provision of full Personal Protective Equipment (PPE)	Lump sum	1		
C5		Provision of a full time Construction Health and Safety Officer	Month	1		
C6		Cost of medical certificates and medical surveillance				
C6.1		(a) Initial (baseline) medical examinations	Lump sum	1		
C6.2		(b) Periodic and exit examinations	Lump sum	1		
C7		Induction Training	Lump sum	1		
C8		Provision of First Aid Boxes and other emergency safety equipment such as fire extinguishers.	Lump sum	1		
C9		Transportation of Workers	Lump sum	1		
C10		Welfare Facilities (Clean drinking water, clean and usable ablution systems, eating area etc.)	Lump sum	1		
C11		Occupational Hygiene Surveys	Lump sum	1		
C12		Training (OH & S requirements)	Lump sum	1		
C13		Employee wellness programs	Lump sum	1		
C14		Submission of the Health and Safety File (hard and soft copies)	Lump sum	1		
C15		Provision of a safety officer	Lump sum	1		
SCHEDULE C SUBTOTAL CARRIED FORWARD TO SUMMARY						

Tender No.:	RWXXXX	H21 VALVE CHAMBER
Description:	Installation of meter connection at klipfontein view	SCHEDULE E: Civil

Item No	Payment Refers	Description	Unit	Qty	Rate	Amount
D1	SANS 1200 C	SECTION C: SITE CLEARANCE 1) H21 valve chamber				
D1.1	8.2.1	Clear and grub	ha	0,00257		
D1.2	8.2.4	Reclear surfaces (only on instructions from the engineer)	ha	0,00128		
D1.2.1	8.2.8	<u>Demolish and remove structures/buildings and dismantle steelworks, etc</u>				
D1.2.3		Existing brick chamber with reinforced concrete base and roofslab	Sum	-		
D1.3	8.2.10	Remove topsoil to nominal depth of 150mm and stockpile	m ³	2		
Carried Forward						

Brought Forward						
D2	SABS 1200DA	SECTION DA: EARTHWORKS				
		1) H21 valve chamber				
D2.1		Rip and recompact 150mm insitu material to 93% MOD AASHTO density	m ³	4		
D2.2	8.3.1(b)	Excavate in all materials and use for backfill (• In-situ backfill of selected suitable G7 material from excavations, compacted in layers not exceeding 150mm to 93% MOD AASHTO	m ³	116		
D2.3	8.3.1 (c)	Extra-over for:				
D2.3.1		1) hard rock excavation (Provisional)	m ³	12		
D2.4	8.3.4	Importing of material from a commercial source				
D2.4.1	8.3.4.1	Importing of backfill G7 Material compacted in layers not exceeding 150mm in thickness compacted to 93% MOD AASHTO density AT -1% to +2% OMC	m ³	63		
D2.4.2	8.3.4.2	Extra over for 8.3.1(b)	m ³	12		
D2.4.3	8.3.4.2	G5 Material compacted in layers not exceeding 100 mm in thickness compacted to 95% MOD AASHTO density AT -1% to +2% OMC	m ³	5		
D2.5	8.3.6	Topsoiling from stockpile	m ²	13		
D2.6	8.3.7	Planting of grass from commercial sources to match what is on site	m ²	13		
D2.7	8.8	Shoring of excavations	Sum	1		
D2.8	PSDA 8.3.10	Take and provide photographic records	sum	1		
Carried Forward						

Brought Forward						
D3	SABS 1200GA	SECTION GA: CONCRETE (SMALL WORKS)				
D3.1	8.2	SCHEDULED FORMWORK ITEMS				
		1) H21 valve chamber				
D3.1.1	8.2.1	Rough formwork (sides of base slab)	m ²	6		
D3.1.2	8.2.2	Smooth formwork (Walls and Roof Soffit)	m ²	134		
D3.1.3	8.2.3	Narrow widths				
D3.1.3.1		Sides of roof slab (250-280mm high)	m	15		
D3.1.3.2		To form sides of sump below floor (150mm high)	m	2		
D3.1.4	8.2.4	Box out Holes / Form Voids				
D3.1.4.1		a) Box out hole for 500mm x 500mm x 150mm (deep) sump	No.	1		
D3.1.4.2		b) Box out hole for 550mm x 550mm x 300mm (deep)	No.	1		
D3.1.4.3		c) Box out hole for 1450mm x 1450mm x 300mm (deep)	No.	2		
D3.2	8.3	<u>SCHEDULED REINFORCEMENT ITEMS</u>				
		1) H21 valve chamber				
D3.2.1	8.3.1	<u>Steel bars</u>				
D3.2.1.1		a) Mild steel reinforcement	kg	453		
D3.2.1.2		b) High tensile steel reinforcement	kg	4528		
D3.3	8.4	<u>SCHEDULED CONCRETE ITEMS</u>				
		1) H21 valve chamber				
D3.3.1	8.4.2	<u>Blinding Layer in Base Concrete</u>				
D3.3.1.1		50mm Class 15/19MPa Blinding Layer	m ²	18		
D3.3.2	8.4.3	<u>Strength Concrete</u>				
D3.3.2.1		a) Grade 35MPa/19mm	m ³	27		
D3.3.2.2		b) Grade 60MPa/19mm	m ³	3		
D3.3.2.3		c) Grade 15MPa mass concrete (access steps)	m ³	1,0		
D3.3.3	8.4.4	Unformed surface finishes				
D3.3.3.1		Wood-floated finish to floor and roof slabs	m ²	21		
Carried Forward						

Brought Forward						
D3.4	8.8	<u>MISCELLANEOUS</u>				
		1) H21 valve chamber				
D3.4.1		<u>Cast in PVC sleeves:</u>				
D3.4.1.1		a) 110mm diameter x 400mm long including vermin proof mesh	No.	4		
D3.4.1.2		b) Cast in 150mm diameter x 250mm long PVC sleeves above valve caps	No.	1		
D3.4.1.3		c) 50mm diameter x 250mm long PVC sleeves on removable roof panel	No.	4		
D3.4.1.4		Cast in standard Rand Water manhole frame and cover (supplied by Rand Water)	No.	1		
D3.4.1.5		Supply and cast in standard Rand Water frame and sump cover (as per DGR No. A8879)	No.	1		
D3.4.1.6		Crystalline admixture to be added to concrete mix (e.g. Xypex)	Sum	1		
D3.4.1.7		Rigid polymer modified liquid waterproofing (Apply on both sides of the walls)	m ²	121		
D3.4.1.8		Gundle brickgrip DPC 375 bond breaker or similar approved for removable roof panels	m ²	2		
D3.4.1.9	SANS 2001-CC1- 5.1.6	Water tightness test of the concrete valve chamber	Sum	1		
Carried Forward						

Brought Forward						
D4	SABS 1200HA	SECTION HA: STRUCTURAL STEELWORK (SUNDRY ITEMS)				
D4.1	8.3	SCHEDULED ITEMS				
		1) H21 valve chamber				
D4.1.1	8.3.1	<u>Structural Steel</u>				
D4.1.1.1		a) Supply all materials and install the Steel valve supports as detailed on Rand Water Detail Drg A12210:	t	0,03		
D4.1.2	8.3.3	<u>Ladders complete and installed</u>				
D4.1.2.1		Supply and Install Standard Rand Water Internal Catladder (Height =4000mm) (as per DRG No. A7406)	No.	1		
D4.1.2.2		Supply and Install Standard Rand Water Grab Rail (as per DRG No: A9858)	No.	1		
SUBTOTAL FOR H21 VALVE CHAMBER						

H27 VALVE CHAMBER

Tender No.: RWXXXX		KLIPFONTEIN VIEW METER CONNECTION				
Description: Installation of meter connection at klipfontein view		SCHEDULE E: Civil				
Item No	Payment Refers	Description	Unit	Qty	Rate	Amount
D1	SANS	SECTION C: SITE CLEARANCE				
		1) H27 valve chamber				
D1.1	8.2.1	Clear and grub	ha	0,00331		
D1.2	8.2.4	Reclear surfaces (only on instructions from the	ha	0,00165		
D1.2.1	8.2.8	<u>Demolish and remove structures/buildings and</u>				
D1.2.3		Existing brick chamber with reinforced concrete	Sum	-		
D1.3	8.2.10	Remove topsoil to nominal depth of 150mm and stockpile	m ³	2		
Carried Forward						

Brought Forward						
D2	SABS 1200DA	SECTION DA: EARTHWORKS				
		1) H27 valve chamber				
D2.1		Rip and recompact 150mm insitu material to 93% MOD AASHTO density	m ³	5		
D2.2	8.3.1(b)	Excavate in all materials and use for backfill (• In-situ backfill of selected suitable G7 material from excavations, compacted in layers not exceeding 150mm to 93% MOD AASHTO density at -1% to +2% OMC) or dispose as ordered. All haul for this contract shall be regarded as freehaul. The cost of transportation of all materials will be deemed to be included in the rates and prices tendered.	m ³	175		
D2.3	8.3.1 (c)	Extra-over for:				
D2.3.1		1) hard rock excavation (Provisional)	m ³	18		
D2.4	8.3.4	Importing of material from a commercial source				
D2.4.1	8.3.4.1	Importing of backfill G7 Material compacted in	m ³	122		
D2.4.2	8.3.4.2	Extra over for 8.3.1(b)	m ³	18		
D2.4.3	8.3.4.2	G5 Material compacted in layers not exceeding	m ³	7		
D2.5	8.3.6	Topsoiling from stockpile	m ²	17		
D2.6	8.3.7	Planting of grass from commercial sources to match what is on site	m ²	17		
D2.7	8.8	Shoring of excavations	Sum	1		
D2.8	PSDA 8.3.10	Take and provide photographic records	sum	1		
Carried Forward						

Brought Forward						
D3	SABS 1200GA	SECTION GA: CONCRETE (SMALL WORKS)				
D3.1	8.2	<u>SCHEDULED FORMWORK ITEMS</u>				
		1) H27 valve chamber				
D3.1.1	8.2.1	Rough formwork (sides of base slab)	m ²	8		
D3.1.2	8.2.2	Smooth formwork (Walls and Roof Soffit)	m ²	170		
D3.1.3	8.2.3	Narrow widths				
D3.1.3.1		Sides of roof slab (250-280mm high)	m	17		
D3.1.3.2		To form sides of sump below floor (150mm high)	m	2		
D3.1.4	8.2.4	Box out Holes / Form Voids				
D3.1.4.1		a) Box out hole for 500mm x 500mm x 150mm (deep) sump	No.	1		
D3.1.4.2		b) Box out hole for 550mm x 550mm x 300mm (deep)	No.	1		
D3.1.4.3		c) Box out hole for 1450mm x 1450mm x 300mm (deep)	No.	2		
D3.2	8.3	<u>SCHEDULED REINFORCEMENT ITEMS</u>				
		1) H27 valve chamber				
D3.2.1	8.3.1	<u>Steel bars</u>				
D3.2.1.1		a) Mild steel reinforcement	kg	722		
D3.2.1.2		b) High tensile steel reinforcement	kg	7219		
D3.3	8.4	<u>SCHEDULED CONCRETE ITEMS</u>				
		1) H27 valve chamber				
D3.3.1	8.4.2	<u>Blinding Layer in Base Concrete</u>				
D3.3.1.1		50mm Class 15/19MPa Blinding Layer	m ²	24		
D3.3.2	8.4.3	<u>Strength Concrete</u>				
D3.3.2.1		a) Grade 35MPa/19mm	m ³	44		
D3.3.2.2		b) Grade 60MPa/19mm	m ³	4		
D3.3.2.3		c) Grade 15MPa mass concrete (access steps)	m ³	1,0		
D3.3.3	8.4.4	Unformed surface finishes				
D3.3.3.1		Wood-floated finish to floor and roof slabs	m ²	27		
Carried Forward						

Brought Forward						
D3.4	8.8	<u>MISCELLANEOUS</u>				
		1) H27 valve chamber				
D3.4.1		<u>Cast in PVC sleeves:</u>				
D3.4.1.1		a) 110mm diameter x 400mm long including vermin proof mesh	No.	4		
D3.4.1.2		b) Cast in 150mm diameter x 250mm long PVC sleeves above valve caps	No.	1		
D3.4.1.3		c) 50mm diameter x 250mm long PVC sleeves on removable roof panel	No.	4		
D3.4.1.4		Cast in standard Rand Water manhole frame and cover (supplied by Rand Water)	No.	1		
D3.4.1.5		Supply and cast in standard Rand Water frame and sump cover (as per DGR No. A8879)	No.	1		
D3.4.1.6		Crystalline admixture to be added to concrete mix (e.g. Xypex)	Sum	1		
D3.4.1.7		Rigid polymer modified liquid waterproofing (Apply on both sides of the walls)	m ²	153		
D3.4.1.8		Gundle brickgrip DPC 375 bond breaker or similar approved for removable roof panels	m ²	2		
D3.4.1.9	SANS 2001-CC1- 5.1.6	Water tightness test of the concrete valve chamber	Sum	1		
Carried Forward						

Brought Forward						
D4	SABS 1200HA	SECTION HA: STRUCTURAL STEELWORK (SUNDRY ITEMS)				
D4.1	8.3	SCHEDULED ITEMS				
		1) H27 valve chamber				
D4.1.1	8.3.1	<u>Structural Steel</u>				
D4.1.1.1		a) Supply all materials and install the Steel valve supports as detailed on Rand Water Detail Drg A12210:	t	0,04		
D4.1.2	8.3.3	<u>Ladders complete and installed</u>				
D4.1.2.1		Supply and Install Standard Rand Water Internal Catladder (Height =4000mm) (as per DRG No. A7406)	No.	1		
D4.1.2.2		Supply and Install Standard Rand Water Grab Rail (as per DRG No: A9858)	No.	1		
SUBTOTAL FOR H27 VALVE CHAMBER						
CARRIED FORWARD TO SUMMARY						

H21 VALVE CHAMBER		
Tender No.: Description:	RWXXXX Installation of meter connection at klipfontein view	Summary
	SUMMARY	
SCHEDULE	Description	Amount
A	PRELIMINARY AND GENERAL	
B	ENVIRONMENT	
C	OCCUPATIONAL HEALTH AND SAFETY	
D	CIVIL	
SUBTOTAL A		
VALUE ADDED TAX Add 15% of Subtotal A (Provisional sum based on current rate of VAT)		
TOTAL CARRIED TO FORM C1.1, FORM OF OFFER		
SIGNED ON BEHALF OF TENDERER:		