

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 A	SCHEDULE 1: PRELIMINARY AND GENERAL				
	8,3	FIXED-CHARGE AND VALUE-RELATED ITEMS				
1,1	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	<u>Establish facilities on the Site</u>				
1,2	8.3.2.3	<u>Facilities for Engineer:</u>				
1.2.1	PSAB 3.2	(a) Furnished offices (1 No.)	Sum	1		
1.2.2		(b) Telephone	Sum	1		
1.2.3		(c) Nameboard (1 No.)	Sum	1		
1.2.4		(d) Provision of survey equipment	Sum	1		
1.2.5		(e) Engineers Equipment: G15 5530 15.6-inch Core i7-13650HX 16GB RAM 1TB SSD GeForce RTX 4060 Win 11 Pro Laptop with Microsoft 365 Business Standard 1-Year Subscription.	Sum	1		
1,3		<u>Facilities for Contractor for duration of construction except where otherwise stated</u>				
1.3.1		(a) Offices, workshops and storage sheds	Sum	1		
1.3.2		(b) Ablution and latrine facilities	Sum	1		
1.3.3		(c) Laboratories	Sum	1		
1.3.4		(d) Living Accomodation	Sum	1		
1.3.5		(e) Tools and equipment	Sum	1		
1.3.6		(f) Water supplies, electric power and communications	Sum	1		
1.3.7		(g) Refuse bins at the site camp	Sum	1		
1.3.8		(h) Dealing with water (Subclause 5.5)	Sum	1		
1.3.9		(i) Access (see 5.8)	Sum	1		
1.3.10		(j) Plant	Sum	1		
1,4	8.3.3	Other Fixed-Charge Obligations	Sum	1		
1,5	8.3.4	Removal of Engineer's and Contractor's site establishment on completion	Sum	1		
1,6	PSA 8.4.6	Compliance with Occupational Health & Safety. The sum shall cover the fixed cost associated with the Contractor's Health & Safety Obligations	Sum	1		
1,7	PSHSS 6.1.2; CR 5(1)(l)	i) Preparation of the Contractor's site specific Health and Safety Plan	Sum	1		
1,8	CR 7(1)(b)	ii) Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Sum	1		
1,9	CR 7(1)(g)	iii) Cost of medical certificates and medical surveillance				
1.9.1	PSHSS 7.2	(a) Initial (baseline) medical examinations	No	20		
1.9.2		(b) Exit medical examinations	No	20		
1.9.3		iv) Allowance for Health and Safety Officer	Sum	1		
TOTAL CARRIED FORWARD						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGHT FORWARD						
1,10	GSR 2; PSHSS 7.7	<u>v) Provision of EPWP Branded SABS Personal Protective Equipment</u>				
1.10.1		(a) Hard Hats	No	20		
1.10.2		(b) Reflective vests	No	20		
1.10.3		(c) Protective foot wear	Pair	20		
1.10.4		(d) Dust masks FFP2	No	20		
1.10.5		(e) Gloves	Pair	20		
1,11	PSA 8.4.7	Compliance with Environmental Management Obligations. The sum shall cover the fixed cost associated with the Contractor's Environmental Management Obligations	Sum	1		
1,12		Compliance with As-Built Requirements	Sum	1		
	8,4	SCHEDULED TIME-RELATED ITEMS				
1,13	8.4.1	Contractual Requirements	Sum	1		
	8.4.2	Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated for engineer				
1,14	8.4.2.1	<u>Facilities for the Engineer:</u>				
1.14.1		(a) Furnished Office	Sum	1		
1.14.2		(c) Nameboard (1 No.)	Sum	1		
1,15	8.4.2.2	<u>Facilities for Contractor:</u>				
1.15.1		(a) Offices, workshops and storage sheds	Sum	1		
1.15.2	PS 7.2	(b) Ablution and latrine facilities	Sum	1		
1.15.3	PS 7.6	(c) Living Accomodation	Sum	1		
1.15.4		(d) Tools and equipment	Sum	1		
1.15.5	PS 7.1	(e) Water supplies, electric power and communications	Sum	1		
1.15.6		(f) Dealing with water (Subclause 5.5)	Sum	1		
1.15.7		(g) Access (see 5.8)	Sum	1		
1.15.8		(h) Plant	Sum	1		
1,16	8.4.3	Supervision for the Duration of Construction	Sum	1		
1,17	8.4.5	Other Time-Related Obligations:	Sum	1		
1,18	PD	Compliance with Occupational Health & Safety. The sum shall cover the fixed cost associated with the Contractor's Health & Safety Obligations	Sum	1		
1,19	PE	Compliance with Environmental Management Obligations. The sum shall cover the fixed cost associated with the Contractor's Environmental Management Obligations	Sum	1		
TOTAL CARRIED FORWARD						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGHT FORWARD						
1,20	PSA 8.4.6.2	Security Services Costs	Month	10		
1,21	8.3.7	Compliance with As-Built Requirements	Sum	1		
1,22		External full-time SACPCMP registered Construction Health and Safety Officer supervision for the duration of the contract	Prov. Sum	1	R 200 000,00	R 200 000,00
1,23		Overheads, charges & profit on above provisional sum	%	R200 000,00		
1,24		Allowance for Social Facilitation (ISD) services for the duration of the contract	Prov. Sum	1	R 250 000,00	R 250 000,00
1,25		Overheads, charges & profit on above provisional sum	%	R250 000,00		
1,26		Allowance for ECO for the duration of the contract	Prov. Sum	1	R 200 000,00	R 200 000,00
1,27		Overheads, charges & profit on above provisional sum	%	R200 000,00		
1,28		<u>Sums stated provisionally by Engineer:</u>				
1.28.1	PS12	Employment of CLO for the duration of the Contract (R8500 pm plus R500 pm cellphone allowance)	Prov. Sum	1	R 90 000,00	R 90 000,00
1.28.2		Overheads, charges & profit on above provisional sum	%	R90 000,00		
1.28.3		Reimbursement / Payment of PSC members for attendance of meetings for the duration of the contract (5 No members at R500 per member per meeting)	Prov. Sum	1	R 25 000,00	R 25 000,00
1.28.4		Overheads, charges & profit on above provisional sum	%	R25 000,00		
1.28.5		Allow for Civil Engineering, Environmental and Health & Safety trainee student (3 No of Young Graduates)	Prov. Sum	1	R 285 000,00	R 285 000,00
1.28.6		Overheads, charges & profit on above provisional sum	%	R285 000,00		
1.28.7		Telephone for Employers Agent & Assistant	Prov. Sum	1	R 20 000,00	R 20 000,00
1.28.8		Overheads, charges & profit on above provisional sum	%	R20 000,00		
1.28.9		Allow for Additional Construction Monitoring - Level 3 for the full duration of the contract	Prov. Sum	1	R 400 000,00	R 400 000,00
1.28.10		Overheads, charges & profit on above provisional sum	%	R400 000,00		
1.28.11		Allow for the provision of the Engineer's Bakkie for the duration of the Contract. The amount allowed for is inclusive of fuel	Prov. Sum	1	R 144 000,00	R 144 000,00
1.28.12		Overheads, charges & profit on above provisional sum	%	R144 000,00		
1.28.13		Employer's Agent cost for Environmental Management Plan, Method Statement and Contractor Training	Prov. Sum	1	R 80 000,00	R 80 000,00
1.28.14		Overheads, charges & profit on above provisional sum	%	R80 000,00		
1.28.15		Allow provisional sum for the specialised testing of the works, either material or completed works as instructed by the Employers Agent	Prov. Sum	1	R 30 000,00	R 30 000,00
1.28.16		Overheads, charges & profit on above provisional sum	%	R30 000,00		
1.28.17		Allow provisional sum for the accredited training of selected potential local labourers	Prov. Sum	1	R 120 000,00	R 120 000,00
1.28.18		Overheads, charges & profit on above provisional sum	%	R120 000,00		
TOTAL CARRIED FORWARD						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGHT FORWARD						
1.28.19		Allow provisional sum for the non-accredited training of selected potential local labourers	Prov. Sum	1	R 50 000,00	R 50 000,00
1.28.20		Overheads, charges & profit on above provisional sum	%	R50 000,00		
	8,7	Dayworks (Provisional)				
1,29	PSA8-5	a) Labour				
1.29.1		i) Foreman	hrs	50		
1.29.2		ii) Skilled	hrs	50		
1.29.3		iii) Semi-skilled	hrs	50		
1.29.4		iv) Unskilled	hrs	50		
1,30		b) Plant				
1.30.1		i) 6m ³ Tip Truck	hrs	50		
1.30.2		ii) 10m ³ Tip Truck	hrs	50		
1.30.3		iii) Tractor-Loader-Backhoe	hrs	30		
1.30.4		iv) Compactors (Wacker or similar approved)	hrs	30		
1,31		c) Materials				
1.31.1		i) Allow for net cost of goods or materials actually used	Prov. Sum	1	R 50 000,00	R 50 000,00
1.31.2		ii) Overheads, charges & profit on above provisional sum	%	R 50 000,00		
1,32		Temporary Works				
1.32.1		(a) Verification and protection of existing services	Sum	1		
TOTAL OF SCHEDULE 1 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 C	SCHEDULE 2: SITE CLEARANCE				
2,1		<u>Clear Site</u>				
2.1.1	8.2.1	Clear and grub for pipeline routes up to a width of 2m.	m	51975		
2.1.2	8.2.2	Remove and grub large trees and tree stumps of girth:				
2.1.3		a) Over 1.0m and up to 2.0m	No.	0		Rate Only
2.1.4	PSC1	Remove topsoil in 600mm wide strip to depth of 150mm, stockpile, maintain and reinstate.	m ³	3776,3		
	8.2.5	<u>Take down existing fences:</u>				
2,2	PSC3	<u>Remove and/or secure existing fences that intersect a trench</u>				
2.2.1		Diamond mesh fencing up to 2m high	m			Rate Only
2,3	PSC3	<u>Remove and secure existing fences that adjoin a trench</u>				
2.3.1		Diamond mesh fencing up to 2m high	m			Rate Only
2,4	PSC 8.2.13	<u>Remove existing gravel layer works to stockpile and maintain (for use as selected layers) as instructed by the Engineer.</u>				
2.4.1		Gravel layer works to District Roads.	m ³	554,4		
2.4.2		Fill material	m ³	74,8		
2,5		MISCELLANEOUS				
2.5.1		Diversion berm, to detail, across road inclusive of imported gravel, compaction and shaping	m ³	15		
2.5.2		UngROUTED stone pitching, to detail, to from shallow ditch drain at berm outlet	m ²	20		
2.5.3		Construct concrete V-drain, to detail, inclusive of excavation and re-inforcement	m ²	0		Rate Only
TOTAL OF SCHEDULE 2 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200 DB	SCHEDULE 3: EARTHWORKS (PIPE TRENCHES)				
		Excavation (Provisional)				
		<u>Excavate in all materials for trenches backfill, compact, and dispose of surplus/unsuitable material, for pipes up to 400mm dia for total trench depth: (ref. PSDB1, PSDB2, PSDB3 and PSDB5)</u>				
3,1	8.3.2(a)					
3.1.1		0.0 m to 1.5 m	m³	62 370,00		
3.1.2		1.5 m to 3.5 m	m³	26,24		
3,2	8.3.2(b)	Extra over items C.1.1 for excavation (provisional) in: (ref. PSDB3)				
3.2.1		Hard Rock Material	m³	1 449,90		
3.2.2		Boulder excavation, class A	m³			Rate Only
3.2.3	8.3.2(c)	Excavate unsuitable material from bottom of trench, incl. backfill compact and dispose of surplus material within freehaul distance of 1 km (Ref PSDB4)	m³	2 319,84		
3,3	8.3.3	Excavation ancillaries				
3.3.1	8.3.3.1 (c)	Make up deficiency in backfill material, by importation from borrow pit selected by Contractor	m³	5 218,60		
3,4	8.3.3.3	<u>Compaction in road reserves (ref. PSDB 3.5)</u>				
3.4.1		Compact with material from commercial source to 95% Mod AASHTO	m³	1 565,60		
3.4.2	PSDB1	Backfilling trenches using 13mm washed stone	m³			Rate Only
3.4.3	8.3.3.4	Extra-over Items 8.3.3.1 (c) for overhaul, in excess of freehaul distance of 1 km	m³.km	4 435,81		
		8.3.5 Existing Services that Intersect or Adjoin a Pipe Trench				
3,5		(a) Services that intersect a trench a pipe trench				
3.5.1		i) ESKOM cables	No.	3		Rate Only
3.5.2		iii) Watermains up to 300mm dia	No.			Rate Only
3.5.3		(b) Services that adjoin a trench a pipe trench				
3.5.4		i) ESKOM cables	m	6		
3.5.5		iii) Watermains up to 300mm dia	m	5		
TOTAL OF SCHEDULE 3 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SABS 1200 L	SCHEDULE 4: MEDIUM-PRESSURE PIPELINES				
4,1	8.2.1	<u>Supply, bed, lay, disinfect, join and test potable water pipelines on flexible bedding, complete with couplings. All works inclusive in the rate, except where specific items are provided. All activities in accordance with project specifications:</u>				
		<u>HDPE Pipes</u>				
4.1.1		50mm dia. HDPE Class PN 10	m	35 380,00		
4.1.2		63mm dia. HDPE Class PN 10	m	1 590,00		
4.1.3		75mm dia. HDPE Class PN 10	m	3 080,00		
		<u>PVC-U Pipes</u>				
4.1.4		90mm dia. uPVC Class 9	m	585,00		
4.1.5		110mm dia. uPVC Class 9	m	2 405,00		
4.1.6		160mm dia. uPVC Class 9	m	5 980,00		
4.1.7		200mm dia. uPVC Class 9	m	1 960,00		
4.1.8		250mm dia. uPVC Class 9	m	995,00		
4,3	8.2.2	Anchor/thrust blocks and pedestals				
4.3.1		a) Concrete (15MPa/19)	m ³	32		
4,4		<u>Marker Posts</u>				
4.4.1		Supply, paint and install precast concrete marker post as directed by the Engineer. Work to be executed by a nominated SMME sub contractor	No	100		
4,5		Supply and install standpipe complete including HDPE saddle, 32mm HDPE pipe (20m), tap and galvanised riser pipe, concrete work including shuttering, elbows, nipples, etc, as per standard drawings. Work to be executed by a nominated SMME sub contractor	No	200		
4,6		Install Aqua Flow limiters where instructed by the Engineer complete as per detailed drawings. Work to be executed by a nominated SMME sub contractor	No	32		
TOTAL OF SCHEDULE 4 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 L	SCHEDULE 5: PIPE FITTINGS AND SPECIALS				
	8.2.2	<u>Extra-over 8.2.1 for the Supplying, Laying and Bedding of Specials complete with Couplings as follows:</u>				
	PSL 8.2.4					
	PSL 8.2.5					
	8.2.4	<u>Supply, lay, joint and bed including cutting pipes where required for the following:</u>				
	PSL 8.2.6					
5,1		uPVC Pipe Bends (Class 16)				
5.1.1		90mm dia. x 11.25° bends.	No.	5		
5.1.2		90mm dia. x 22.5° bends.	No.	1		
5.1.3		110mm dia. x 11.25° bends.	No.	17		
5.1.4		110mm dia. x 22.5° bends.	No.	6		
5.1.5		110mm dia. x 45° bends.	No.	1		
5.1.6		160mm dia. x 11.25° bends.	No.	21		
5.1.7		160mm dia. x 11.25° bends.	No.	1		
5.1.8		160mm dia. x 45° bends.	No.	1		
5.1.9		200mm dia. x 11.25° bends.	No.	2		
5.1.10		250mm dia. x 11.25° bends.	No.	5		
5.1.11		250mm dia. x 22.5° bends.	No.	2		
5.1.12		250mm dia. x 45° bends.	No.	2		
5.1.13		250mm dia. x 90° bends.	No.	1		
		HDPE Reducers				
5,2		HDPE PE100 reducer with a SDR of 11 and a pressure rating of 16 bar. The reducers must be suitable for butt welding on to PE100 HDPE pipe. All reducers must comply with SANS/ISO 4427				
5.2.1		63mm x 50 mm	No.	54		
5.2.2		75mm x 50mm	No.	7		
5.2.3		75mm x 63mm	No.	1		
5.2.4		90mm x 50mm	No.	3		
5.2.5		90mm x 75mm	No.	1		
5.2.6		110mm x 63mm	No.	13		
5.2.7		110mm x 75mm	No.	0		Rate Only
5.2.8		140mm x 90mm	No.	3		
5.2.9		200mm x 140mm	No.	3		
5,3		uPVC Reducers (Class 16)				
5.3.1		110mm x 50mm	No.	1		
TOTAL CARRIED FORWARD						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGHT FORWARD						
5.3.2		110mm x 75mm	No.			Rate Only
5.3.3		110mm x 90mm	No.	2		
5.3.4		160mm x 90mm	No.	1		
5.3.5		160mm x 110mm	No.	4		
5.3.6		200mm x 160mm	No.	2		
5.3.7		250mm x 200mm	No.	3		
5,4		Equal Tees (PN16)				
5.4.1		50mm x 50mm	No.	28		
5.4.2		75mm x 75mm	No.	3		
5.4.3		110mm x 110mm	No.	1		
5.4.4		160mm x 160mm	No.	1		
5.4.5		250mm x 250mm	No.	1		
5,5		Reducing Tees (PN16)				
5.5.1		63mm x 50 mm	No.	1		
5.5.2		75mm x 50mm	No.	2		
5.5.3		90mm x 63mm	No.	1		
5.5.4		90mm x 75mm	No.	1		
5.5.5		110mm x 63mm	No.	10		
5.5.6		110mm x 75mm	No.	3		
5.5.7		160mm x 63mm	No.	27		
5.5.8		160mm x 110mm	No.	0		Rate Only
5.5.9		200mm x 110mm	No.	14		
5.5.10		250mm x 200mm	No.	3		
5,6		Cross				
5.6.1		50mm x 50mm	No.	1		
5.6.2		63mm x 63mm	No.	1		
5.6.3		160mm x 50mm	No.	1		
5.6.4		160mm x 75mm	No.	1		
5.6.5		250mm x 50mm	No.	1		
5,7		Concrete Encasing				
5.7.1		(a) Pipe protection Concrete cover slab (25 MPa) accross roadways where indicated by engineer, inclusive of Ref 395 mesh as per eThekwini Standard Details	m³	80		
TOTAL OF SCHEDULE 5 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 LB	SCHEDULE 6: BEDDING (PIPES)				
6,1	8.2.1 & PS LB 3.1	Provision of Bedding from Trench Excavation				
6.1.1	8.2.1 (a)	Selected granular material	m ³	7529,8		
6.1.2	8.2.1 (b)	Selected fill material	m ³	5491,8		
6,2	8.2.2.2	Bedding from Borrow Pits				
6.2.1	8.2.2.2 (a)	Selected granular material	m ³	1882,45		
6.2.2	8.2.2.2 (b)	Selected fill material	m ³	1372,95		
6,3	8.2.2.3	Imported from commercial source (including haul).				
6.3.1	8.2.2.3 (a)	Selected granular material	m ³	470,6		
6.3.2	8.2.2.3 (b)	Selected fill material	m ³	343,2		
TOTAL OF SCHEDULE 6 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SCHEDULE 7: VALVES AND CHAMBERS				
	8.2.3	<u>Extra-over 8.2.1 for the supplying, fixing and Bedding of Valves as indicated below:</u>				
		<u>Isolation Valves Complete</u>				
7,1	PSL 3.13.2	Supply and install the following flanged Resilient seal Gate valves complete with valve chamber, PN 12 with non-rising spindle, Clockwise closing, including all gaskets, bolts, nuts and washers as per detailed drawings. All valve chambers will be installed by SMME contractors				
7.1.1		50mm	No.	0		Rate Only
7.1.2		75mm	No.	2		
7.1.3		100mm	No.	2		
7.1.4		150mm	No.	3		
7.1.5		200mm	No.	0		Rate Only
		<u>Check / Non Return Valves Complete</u>				
7,4	8.2.5	Supply and install Check / Non Return Valve assemblies complete with precast chamber as per detailed drawings. Rate is inclusive of valve chamber and all specials. All valve chambers will be installed by SMME contractors				
7.4.1		200mm	No.	0		Rate Only
		<u>Bulk Water Meter Complete</u>				
7,5	8.2.5	Supply and install Bulk Water Meter assemblies complete with protective meter chamber as per detailed drawings. Note: All valve chambers will be installed by SMME contractors				
7.5.1		200mm	No.	2		
7,6		<u>Fire Hydrants</u>				
7.6.1		(a) Supply and install cast iron underground-type fire hydrant conforming to SANS 1128, complete with cast iron/polymer cover and frame. 80mm Isolating valve and 100mm x 80mm dia. reducer measured elsewhere.	No.	4		
TOTAL OF SCHEDULE 7 CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SCHEDULE 8: GABIONS				
8,1	SABS 1200DK	<u>Gabion/Reno mattresses. using 6x8 mesh with 1.0m diaphragm spacing. of sizes</u>				
8.1.1	8.2.2	2,0 x 2,0 x 0,17m	m ³	15		
8.1.2		2,0 x 1,0 x 1,0m	m ³	15		
8,2	PSDK5	Excavation and compaction in all classes of materials	m ³	8		
8,3		Surface preparation for bedding the gabions	m ²	100		
8,4	8.2.4	Filter fabric Grade 4 geotextile with minimum 2.5kN penetration load and at least 235 l/s/m ² through flow (ref. PSDK1)	m ²	105		
TOTAL OF SCHEDULE 8 CARRIED FORWARD TO SUMMARY						