



SECTION 1: PRELIMINARY AND GENERAL							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1		SANS 1200 A	<b>PRELIMINARY AND GENERAL</b>				
		8.3	<b>SCHEDULED FIXED-CHARGE AND VALUE RELATED ITEMS</b>				
1.1.1		8.3.1	Contractual requirements.	Sum	1		
		8.3.2	<b>Establishment of Facilities on the Site:</b>				
			<b>Facilities for Employer's Agent:</b>				
1.1.2		PSA8.3.2.1	a) Furnished office (No. 1)	Sum	1		
1.1.3		PSA8.3.2.1	b) Name board (No. 2)	Sum	1		
		8.3.2.2	<b>Facilities for Contractor:</b>				
1.1.4			a) Offices and storage sheds.	Sum	1		
1.1.5			b) Ablution and latrine facilities.	Sum	1		
1.1.6			c) Tools and equipment.	Sum	1		
1.1.7		PSA 8.3.2.2	d) Water supplies, electric power and communications.	Sum	1		
1.1.8			e) Dealing with water (Sub-clause 5.5).	Sum	1		
1.1.9			f) Access (Sub-clause 5.8).	Sum	1		
1.1.10			g) Plant.	Sum	1		
1.1.11		8.3.3	h) Other fixed-charge obligations.	Sum	1		
1.1.12		8.3.4	i) Removal of Site establishment.	Sum	1		
1.1.13		PSA 8.3.3.1	j) Issuing of notices to consumers.	Sum	1		
1.2		PSA 8.3.3.2	<b>OHS ACT OBLIGATIONS:</b>				
1.2.1			a) General Safety obligations (incl. provision of personal protective equipment).	Sum	1		
1.2.2			b) Health and Safety plan/file including health and safety training.	Sum	1		
1.2.3			c) Implement Health and Safety requirements based on approved H&S Plan and submit monthly reports as prescribed.	Month	3		
1.2.4		PSA 8.3.5.3	Environmental Management Plan Obligations.	Sum	1		
1.3		8.4	<b>TIME-RELATED ITEMS</b>				
1.3.1		PSA 8.2.1.2	Contractual requirements.	Month	3		
		PSA 8.4.2.1	<b>Operate and maintain facilities on the Site for duration of Construction for the Engineer.</b>				
1.3.2			a) Cellular Telephone Cost.	PSum/Month	3	R900,00	R2 700,00
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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1.3.3			b) Accommodation for the Employer's Agent Representative.	PSum/Month	3	R6 000,00	R18 000,00
1.3.4			c) Administrative assistance to the Contractor.	PSum/Month	3	R5 000,00	R15 000,00
1.3.5			d) Health and Safety Inspections on Site.	PSum/Month	3	R1 500,00	R4 500,00
1.3.6			e) Environmental Management Plan Audits.	PSum/Month	3	R2 500,00	R7 500,00
		<b>8.4.2.2</b>	<b>Facilities for Contractor:</b>				
1.3.7			a) Offices and storage sheds.	Month	3		
1.3.8			b) Workshops.	Month	3		
1.3.9			c) Laboratories.	Month	3		
1.3.10			d) Ablution and latrine facilities.	Month	3		
1.3.11			e) Tools and equipment.	Month	3		
1.3.12		PSA 8.4.2.2.	f) Water supplies, electric power and communications.	Month	3		
1.3.13			g) Dealing with water (Sub-clause 5.5).	Month	3		
1.3.14			h) Access (Sub-clause 5.8).	Month	3		
1.3.15		8.4.3	i) Supervision for the Duration of Construction.	Month	3		
1.3.16		8.4.4	Company and Head Office Overhead Costs for Duration of Contract.	Month	3		
1.3.17		8.4.5	Other time-related obligations.	Month	3		
1.3.18		PSA 8.4.6.2	Security services.	Month	3		
<b>1.4</b>		<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
1.4.1			a) 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	R10 000,00	R10 000,00
1.4.2			b) Overheads, charges and profit on item 1.4.1 above.	%		R10 000,00	
1.4.3			c) Relocation of existing services (water mains, electricity cables/poles, etc.) by Services utility.	Prov Sum	1	R30 000,00	R30 000,00
1.4.4			d) Overheads, charges and profit on item 1.4.3 above.	%		R30 000,00	
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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<b>SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE</b>							
1.4.5			e) Supply or hire specialist equipment for the detection of a particular service. (Provisional).	Prov Sum	1	R20 000,00	R20 000,00
1.4.6			f) Overheads, charges and profit on item 1.4.5 above.	%		R20 000,00	
1.4.7			g) Employment of a Community Liason Officer (CLO) to be identified by the Project Steering Committee (PSC) in consultation with the Ward Councillor and ISD Consultant.	PSum/Month	3	R 5 500,00	R 16 500,00
1.4.8			h) Overheads, charges and profit on item 1.4.11.	%		R16 500,00	
1.4.9			m) Labour, materials and plant to be used during execution of dayworks.	Prov Sum	1	R 10 000,00	R 10 000,00
		8.3.8.2	<b>Dealing with services that are at risk because of the construction activities:</b>				
1.4.10			n) Permanent protection of services as required or indicated by the Engineer.	Prov Sum	1	R20 000,00	R20 000,00
1.4.11			o) Temporary protection of services as required or indicated by the Engineer.	Prov Sum	1	R10 000,00	R10 000,00
1.5		PD 5.1	<b>EPWP ALIGNMENT (PROVISION OF STRUCTURED TRAINING)</b>				
			<b>Provison for Training:</b>				
1.5.1			a) General Skills Training:	Person days of Training	0		Rate Only
1.5.2			b) Entrepreneurial skills.	Sum	0		Rate Only
1.5.3			c) Handling cost and profit in respect of sub item (a) and (b) above.	%	0		Percentage Only
1.5.4			d) Training Venue.	L Sum	0		Rate Only
1.5.5			e) Transportation and accommodation of workers for training where it is not possible to undertake the training in close proximaty to the site.	Sum	0		Rate Only
1.6			<b>EXTRA OVER SUB-ITEM FOR BRANDING OF EPWP PPE:</b>				
1.6.1			The tendered rate shall include full compensation for branding the PPE as determined in the risk assessments and as required for full duration of the contract.	Sum	1		
<b>SUB-TOTAL CARRIED FORWARD TO NEXT PAGE</b>							

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1.7			<b>TEMPORARY WORKS</b>				
1.7.1	LI	PSDB 8.3.7	Accommodation of Traffic.(Accommodation of traffic by constructing the road in half widths and maintaining access to properties).	Sum	1		
1.7.2		PSD 5.1.2.2	Excavate and backfill by hand in soft material to expose existing services - only on approval of Engineer, within freehaul distance of 5.5km.	m <sup>3</sup>	200		
1.7.3		PSA 9.1	Submit detail As-built drawings of all existing services and adjustments to construction drawings at completion.	Sum	1		
1.7.4		PSA 9.2	Detail setting out of the Works from survey beacons by a registered surveyor and all other survey related work.	Sum	1		
1.7.5		PSA 9.5	Compile and submit for approval by Engineer, a realistic construction programme within the stated period and before commencement of construction.	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 2: SITE CLEARANCE							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.1		SANS1200 C	<b>SITE CLEARANCE</b>				
2.1.1		8.2.1	<b>Clear and Grub Area:</b> a) Within road reserves.	m <sup>2</sup>	20		
2.2		8.2.2	<b>Remove and grub large trees and tree stumps of girth:</b>				
2.2.1			a) Over 1m and up to and including 2m.	No	2		
2.2.2			b) Over 2m and up to and including 3m.	No	0		Rate Only
2.2.3			c) Over 3m and up to and including 4m.	No	0		Rate Only
2.3		8.2.4	Reclear surfaces (only on instruction from the Engineer).	ha	0,5		
2.4		PSC 8.2.11	<b>Taking down and re-erecting existing fences:</b>				
2.4.1	LI		a) All wire and wire mesh fences up to 2.4m high.	m	100		
2.4.2	LI		b) All brick type fences up to 2.4m high.	m	10		
2.4.3	LI		c) All palisade/"clearview" type fences up to 2.4m high.	m	2		
2.5		PSC 8.2.11	<b>New fencing as removed / demolished in Item C4 above:</b>				
2.5.1			a) All wire and wire mesh fences up to 2.4m high.	m	25		
2.5.2			b) All palisade/"clearview" type fences up to 2.4m high.	m	0		Rate Only
2.6		8.2.8	<b>Demolish and remove structures/buildings or steel structures and dispose of at approved site within 10km distance:</b>				
2.6.1	LI		a) Segmented paving.	m <sup>2</sup>	10		
2.6.2	LI	PSC 8.2.11	b) Take down and dipose of exsisting fences.	m	25		
2.6.3		8.2.9	Transport material and debris beyond the freehaul distance of 10km.	m <sup>3</sup> .km	90		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 3: EARTHWORKS (ERF DRIVEWAYS)							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.1		SANS1200 D	<b>EARTHWORKS</b>				
3.1.1		8.3.2	<b>Excavation:</b> Excavate by machine in all materials and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	700		
3.1.2		8.3.2	<b>Extra-over for:</b> a) Intermediate excavation.	m <sup>3</sup>	70		
3.1.3			b) Hard rock excavation. (Blasting or Pneumatic Drilling).	m <sup>3</sup>	35		
3.1.4			c) Boulder excavation and dump, Class A and B.	m <sup>3</sup>	7		
3.1.5		8.2.9	Transport material and debris beyond the freehaul distance of 10km.	m <sup>3</sup> .km	170		
3.2		SANS1200 DM	<b>EARTHWORKS (ROADS) SUBGRADE</b>				
3.2.1		8.3.3	<b>Treatment of Roadbed:</b> a) Rip roadbed to a depth of 150mm, remove oversize material and compact to 93% Mod AASHTO density.	m <sup>3</sup>	450		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 4: PIPE TRENCHES							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4.1		SANS1200 DB	<b>PIPE TRENCHES</b>				
			<b>Excavation:</b>				
4.1.1		8.3.2a	a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material.	m <sup>3</sup>	40		
			<b>Extra-over items DB1.1 for excavation in: (Provisional)</b>				
4.1.2		8.3.2b	a) Intermediate excavation.	m <sup>3</sup>	12		
4.1.3			b) Hard rock excavation. (Blasting or Pneumatic Drilling).	m <sup>3</sup>	2		
4.1.4			c) Boulder excavation and dump, Class A and B.	m <sup>3</sup>	4		
4.2		8.3.3	<b>EXCAVATION ANCILLARIES:</b>				
			<b>Make up deficiency in backfill material:</b>				
4.2.1		8.3.3.1	a) From other necessary excavations on site.	m <sup>3</sup>	0		Rate Only
4.2.2			b) By importation from borrow pits.	m <sup>3</sup>	0		Rate Only
4.2.3			c) By importation from commercial sources selected by the Contractor.	m <sup>3</sup>	0		Rate Only
4.3		8.3.5	<b>EXISTING SERVICES:</b>				
			<b>Services that intersect a trench:</b>				
4.3.1			a) Overhead powerlines.	No	1		
4.3.2			b) House water connections.	No	100		
4.3.3			c) Water mains up to 300mmØ.	No	1		
4.3.4			d) Sewer pipes up to 300mmØ.	No	1		
			<b>Existing services that adjoin a pipe trench:</b>				
4.3.5		8.3.5	a) Existing water pipelines up to 300mmØ.	m	10		
4.3.6			b) Sewer pipes up to 300mmØ.	m	10		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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**SECTION 5: EARTHWORKS ROADS**

ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5.1		SANS1200 DM	<b>EARTHWORKS (ROADS) SUBGRADE</b>				
5.1.1		8.3.2	<b>Excavation:</b> Excavate by machine in all materials and use for embankment or backfill or dispose, as ordered.	m <sup>3</sup>	2700		
5.1.2		8.3.2	<b>Extra-over for:</b> a) Intermediate excavation.	m <sup>3</sup>	270		
5.1.3			b) Hard rock excavation. (Blasting or Pneumatic Drilling).	m <sup>3</sup>	135		
5.1.4			c) Boulder excavation and dump, Class A and B.	m <sup>3</sup>	25		
5.1.5		8.3.3	<b>Treatment of Roadbed:</b> Rip roadbed to a depth of 150mm, remove oversize material and compact to 93% Mod AASHTO density.	m <sup>3</sup>	1320		
5.2			<b>EARTHWORKS</b>				
5.2.1		8.3.4	<b>Cut to Fill:</b> a) Compact to 95% Mod AASHTO.	m <sup>3</sup>	243		
5.2.2			b) Rockfill, process and compact.	m <sup>3</sup>	0		Rate Only
5.2.3		8.3.7	<b>Cut to Stockpile:</b> a) Cut to required depth of excavation materials selectively to stockpile.	m <sup>3</sup>	243		
5.3		PSDM 8.3.18	<b>FINAL FINISHING AND CLEANING UP OF THE SITE OF WORKS.</b>	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 6: GABIONS AND PITCHING							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6.1		SANS1200 DK	<b>GABIONS AND PITCHING</b>				
		8.2.2 (a)	<b>Gabions:</b>  <b>Galvanized and PVC coated gabions boxes using 150mm stone and 80mm x 100mm x 2,7mm mesh:</b>				
6.1.1	LI		a) 2m x 1m x 1m.	m <sup>3</sup>	0		Rate Only
6.1.2	LI		b) 2m x 1.5m x 1m.	m <sup>3</sup>	0		Rate Only
6.1.3	LI		c) 1m x 1m x 1m.	m <sup>3</sup>	0		Rate Only
		8.2.2 (b)	<b>Reno Mattresses:</b>  <b>Galvanized and PVC coated gabions boxes using 150mm stone and 80mm x 100mm x 2,7mm mesh:</b>				
6.1.4	LI		a) 2m x 1m x 0.3m.	m <sup>3</sup>	5		
6.1.5	LI		b) 3m x 1m x 0.17m.	m <sup>3</sup>	0		Rate Only
6.1.6	LI		c) 6m x 2m x 0.3m.	m <sup>3</sup>	0		Rate Only
6.1.7	LI	8.2.4	<b>Geotextile:</b> Geotextile (Kaytech Bidim A4 or similar approved type) placed where ground water seepage occurs or where directed by Engineer.	m <sup>2</sup>	25		
6.1.8	LI	8.2.5	<b>Stone Pitching:</b> a) Plain pitching.	m <sup>2</sup>	5		
6.1.9	LI		b) Grouted stone pitching.	m <sup>2</sup>	0		Rate Only
6.2		SABS 1200 G	<b>CONCRETE STRUCTURAL</b>				
6.2.1		8.1.3 8.4.1	<b>Concrete:</b> Prescribed mortar concrete 3:1 (sand:cement) mix.	m <sup>3</sup>	2		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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**SECTION 7: BEDDING FOR PIPES**

ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7.1		SANS1200 LB	<b>BEDDING FOR PIPES</b>				
		8.2.1	<b>Available from Trench Excavation:</b>				
			<b>Concrete Pipes (Class B Bed):</b>				
7.1.1			a) Selected granular material.	m <sup>3</sup>	0		Rate Only
7.1.2			b) Selected fill material.	m <sup>3</sup>	0		Rate Only
		8.2.2	<b>Supply of Imported Bedding Material From:</b>				
7.2		8.2.2.2 & 8.2.2.3	<b>Borrow pits or commercial sources (Provisional):</b>				
7.2.1			a) Selected granular material.	m <sup>3</sup>	0		Rate Only
7.2.2			b) Selected fill material.	m <sup>3</sup>	0		Rate Only
7.3		8.2.4	<b>Encasing of pipes in Concrete:</b>				
7.3.1			a) Class 20MPa/22 mm.	m <sup>3</sup>	15		
7.3.2			b) Class 30MPa/22 mm.	m <sup>3</sup>	25		
7.3.3		PSLB 8.2.6	Extra over items LB1 & LB2 for bedding stabilized with 5% cement.	m <sup>3</sup>	0		Rate Only
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SECTION 8: STORMWATER DRAINAGE							
ITEM NO.	LI	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.1		SANS1200 LE	<b>STORMWATER DRAINAGE</b>				
		8.2.1	<b>Concrete Pipe Culverts:</b>				
		8.2.1	<b>Supply, handle, and lay Class 75D interlocking concrete pipes on Class B bedding:</b>				
8.1.1			a) 450 mm dia.	m	0		Rate Only
8.1.2			b) 600 mm dia.	m	0		Rate Only
8.1.3			c) 750 mm dia.	m	0		Rate Only
8.1.4			d) 1050 mm dia.	m	0		Rate Only
8.2		8.2.4	<b>EXTRA-OVER ITEMS LE1 FOR CUTTING END UNITS FOR CULVERTS ON SITE:</b>				
			<b>Straight cut:</b>				
8.2.1			a) 450-600 Ø pipe.	No	0		Rate Only
8.2.2			b) 750-1050 Ø pipe.	No	0		Rate Only
			<b>Skew cut:</b>				
8.2.3			a) 450-600 Ø pipe.	No	0		Rate Only
8.2.4			b) 750-1050 Ø pipe.	No	0		Rate Only
8.3		SANS1200 G	<b>CONCRETE (STRUCTURAL)</b>				
		8.2	<b>SCHEDULED FORMWORK ITEMS</b>				
		8.2.1	<b>Rough (Measured to 150mm below FGL where applicable):</b>				
			<b>Vertical:</b>				
8.3.1			Sides of concrete drift.	m <sup>2</sup>	2		
8.4			<b>SCHEDULED REINFORCEMENT ITEMS</b>				
		8.3.2	<b>High Tensile Welded Mesh:</b>				
8.4.1			Ref. 395.	m <sup>2</sup>	3		
8.5		8.4	<b>CONCRETE</b>				
		8.4.3	<b>Strength Concrete:</b>				
			<b>Class 25/19:</b>				
8.5.1			Concrete drift	m <sup>3</sup>	1		
8.6		8.4.4	<b>UNFORMED SURFACE FINISHES:</b>				
			<b>Wood-floated finishes to:</b>				
8.6.1			Top of cover beam (stormwater drainage).	m <sup>2</sup>	3		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>							

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SUMMARY OF SCHEDULES		
SCHECULE	SANS DESCRIPTION	BUDGET
SECTION 1	PRELIMINARY AND GENERAL	
SECTION 2	SITE CLEARANCE	
SECTION 3	EARTHWORKS	
SECTION 4	PIPE TRENCHES	
SECTION 5	EARTHWORKS (ROADS) SUBGRADE	
SECTION 6	GABIONS AND PITCHING	
SECTION 7	BEDDING FOR PIPES	
SECTION 8	STORMWATER DRAINAGE	
<b>SUB-TOTAL: A</b>		
Plus 10% Contingencies		
<b>SUB-TOTAL: B</b>		
Plus 15% VAT		
<b>TOTAL: CONSTRUCTION COST</b>		

(CARRIED FORWARD TO TENDER COVER PAGE)

TENDERER: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CELL: \_\_\_\_\_

FAX: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

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