

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 2 : SITE CLEARANCE						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
2.1	SABS 1200 C	SITE CLEARANCE				
		CLEAR SITE				
2.1.1	8.2.1	Clear and grub Site	m2	1 106.00		
2.1.2	8.2.4	Reclear surfaces (provisional) (where ordered by Engineer)	m2	1 894.00		
2.2	PSC 8.2.11	DEMOLITIONS				
		<u>Demolish and remove structures, buildings, etc.</u>				
		(a) Remove and dispose of Reinforced or Unreinforced Concrete,	m ³	65.00		
		(b) Brickwork Structures	m ³	25.00		
		(c) Precast concrete interlocking paving blocks maximum thickness 80mm, stockpile for reuse	m ²	110.00		
		(d) Remove and dispose of asphalt, to an average thickness of 40mm.	m ²	1 000.00		
		(e) Remove and dispose of concrete kerbing and channelling (varies types)	m	195.00		
2.3	PSC 8.2.12	(a) Reinstat e block paving from stockpile (varies types)	m ²	125.00		
		(b) Reinstat e unreinforced concrete surfacing's	m ³	rate only		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 3 : EARTHWORKS (ROADS, PAVING)						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS 1200 DM	EARTHWORKS (ROADS & PAVING)				
		SITE CLEARANCE				
3.1	8.3.1	Clear site	m ²	800.00		
3.2	8.2.3	Remove trees	No.	10.00		
3.2	8.3.2	(a) Remove topsoil up to 50mm to stockpile and maintenance thereof	m ³	320.00		
		TREATMENT OF ROAD-BED				
3.4	8.3.3	(a) Road-bed preparation and compaction of material				
3.4.1		(i) Compact to 90 % mod. AASHTO maximum density	m ³	750.00		
		EARTHWORKS				
3.5	8.3.4	Cut to fill				
3.5.1		(a) Compact to 90 % mod. AASHTO maximum density	m ³	3 250.00		
3.6	8.3.4	Borrow to fill (Borrow pit located 17.5km from site in Kempton Park)				
3.6.1		(a) Compact to 90 % mod.AASHTO maximum density	m ³	150.00		
3.7	8.3.5	Selected Commercially Sourced G7 layer compacted to 93 % mod. AASHTO maximum density	m ³	420.00		
3.8	8.3.6	Extra-over items 5.5 to 6.6 inclusive for excavating and breaking down material in:				
3.8.1		(a) Intermediate excavation	m ³	100.00		
3.8.2		(b) Hard excavation	m ³	375.00		
3.8.3		(c) Boulder excavation Class A	m ³	15.00		
3.8.4		(d) Boulder excavation Class B	m ³	15.00		
3.9	8.3.7	Cut to spoil or stockpile from				
3.9.1		(a) Soft excavation	m ³	850.00		
3.9.2		(b) Intermediate excavation	m ³	140.00		
3.9.3		(c) Hard excavation	m ³	325.00		
TOTAL CARRIED FORWARD						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 3 : EARTHWORKS (ROADS, PAVING)						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
BROUGHT FORWARD						
	SABS 1200 DM	EARTHWORKS (ROADS, PAVING)				
3.9.4		(d) Boulder excavation Class A	m ³	10.00		
3.9.5		(e) Boulder excavation Class B	m ³	10.00		
3.9.6	8.3.8	Removal of oversize material	m ³	45.00		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

				SECTION 4 : STORMWATER DRAINAGE		
ITEM	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS	STORMWATER DRAINAGE				
4.1	8.2.1	Supply, handle, lay, bed Class C bedding,				
4.1.1		(a) Class 100 D				
		(i) 450mm dia. Spigot and Socket 100D	m	400.00		
		(ii) 525mm dia. Spigot and Socket 100D	m	100.00		
		(iii) 600mm dia. Spigot and Socket 100D	m	100.00		
		(iv) 675mm dia. Spigot and Socket 100D	m	100.00		
		(v) 750mm dia. Spigot and Socket 100D	m	125.00		
		(vi) 825mm dia. Spigot and Socket 100D	m	80.00		
		(vii) 900mm dia. Spigot and Socket 100D	m	rate only		
		(vii) 1050mm dia. Spigot and Socket 100D	m	rate only		
		(viii) 1200mm dia. Spigot and Socket 100D	m	rate only		
		(ix) 1350mm dia. Spigot and Socket 100D	m	rate only		
		(ix) 1500mm dia. Spigot and Socket 100D	m	rate only		
	8.2.8	Supply and install manholes, catchpit and like				
		(a) manhole (concrete manhole as per detailed drawings 1624-SW-D-002 TO 1624-SW-D-005)	no	3.00		
	8.2.10	Accessories				
		(a) Manhole cover including frame (not complete in previous phase)	no	30.00		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 5 : SUBBASE						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS 1200 ME	SUBBASE				
		Rip and re-compact 150mm	m ³	1 000.00		
		Fill (150mm layers) G7 to 93%	m ³	2 500.00		
5.1	8.3.3	Construct subbase course with materials from designated Excavations				
5.1.1		(a) Excavate in all materials from Designated excavations, select and stockpile or place on the road for the subbase course	m ³	150.00		
5.2	8.3.3	Construct subbase course with materials from commercial sources				
5.2.1		(a) 150mm C4 compacted to 95%	m ³	750.00		
	8.3.3	Construct subbase course with materials from commercial sources				
		(a) 150mm C3 compacted to 97%	m ³	750.00		
5.3	8.3.5	Process subbase material by the following processes				
5.3.1		(d) Stabilization	m ³	750.00		
5.4	8.3.8	Stabilizing agent				
5.4.1		(c) Portland Cement: CEM II B-V 32.5N	ton	30.00		
	8.3.3	Construct natural upper selected subgrade with materials from commercial sources				
		(a) 150mm G7 compacted to 93%	m ³	750.00		
	8.3.3	Construct natural upper selected subgrade with materials from commercial sources				
		(a) 150mm G9 compacted to 93%	m ³	750.00		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 6 : BASE						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
6.1	SABS 1200 MF	BASE				
6.1.1	8.3.3	Construct base with material from commercial sources b) Graded crushed stone - G2 150 mm Compacted to 88% ARD	m ³	105.00		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 7 : ASPHALT BASE AND SURFACING						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS 1200 MH	ASPHALT BASE AND SURFACING				
		PRIME COAT				
7.1	8.5.1	Prime coat using:				
7.1.1		(a) Type MSP Grade 1 or similar approved	m ²	1 300.00		
7.2	8.5.5	Variations in quantities of prime:				
7.2.1		(a) Type MSP Grade 1		50.00		
		TACK COAT				
7.3	8.5.3	Spray surface using emulsion				
		(a) SS60	m ²	1 300.00		
7.3.2	8.5.5	Variations in quantity of emulsion:				
		(a) SS60		75.00		
7.4		ASPHALT BASE				
7.4.1	8.5.4	Continuously graded asphalt surfacing				
		(a) bitumen 50/70 Medium grade (40 mm thickness) (AE2 BITUMEN BINDER)	m ²	1 250.00		
		(b) AE1 BTB Base (Aggregate 26.5mm, Max Layer Thickness - 80mm)	m ²	1 000.00		
7.5	8.5.5	Variation in quantities of bituminous				
7.5.1		(a) bitumen 50/70		100.00		
7.6	PSMH 8.5.6	2m Speed bump complete	no	25.00		
		<i>Rate for the installation of complete 2m speedbump as per JRA standard detail JRA-SD-RD-120. Rate to include procurement, labour and installation complete including roadmaking and road signs as per detail drawing</i>				

SCHEDULE B - CIVIL AND STRUCTURAL

TOTAL CARRIED FORWARD TO SUMMARY	
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CIVIL WORKS

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 8: SEGMENTED PAVING						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS 1200 MJ	SEGMENTED PAVING				
8.1	8.2.1.	Provision of Edge restraints	m		rate only	
8.2	8.2.2	150mm (OR AS INDICATED) CEMENTED GRAVEL SUBBASE IN WALKWAYS of C4 material from commercial sources	m3		950.00	
8.2	8.2.2	CONSTRUCT PRECAST CONCRETE SEGMENTED PAVING COMPLETE				
		(a) Type grey 60mm S-A units (interlocking) on 20mm bedding sand	m ²		1 000.00	
8.2.1		(i) Walkways	m ²		rate only	
		(b) Type grey 80mm S-A units (interlocking) on 20mm bedding sand	m ²		500.00	
8.2.2		(ii) Panhandles grey 80mm	m ²		rate only	
8.2.3		1.5m x 2m x 0.15m 25 Mpa concrete ramps (Including ref 195 mesh) in sidewalks at pan handles S	no		50.00	
8.3	8.2.3	Cutting units to fit edge restraints	m		rate only	
8.4	PSC 8.2.6	Provision of approved herbicide and ant poison:				
		(a) Provision of materials	PC Sum		1.00	
		(b) Contractor's charges and profit added to the prime cost sum	10%		100 000.00	
8.5	PSMJ 8.2.6	Construction of pedestrian ramps for the disabled according to JRA specs	No		rate only	
		CONSTRUCT GUIDANCE/WARNING TACTILE as per JRA Specification				
		(a) Guidance Tactiles	m2		500.00	
		(b) Warning Tactile	m2		500.00	
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 9 : KERBING & CHANNELLING						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
9.1	SABS 1200 MK 8.2.2	CONCRETE KERBING				
		Fig.3 Kerb				
		(a) on straights	m	1 500.00		
		(b) on curves	m	700.00		
		Fig.12 Kerb restraint				
		(a) on straights	m	1 000.00		
		(b) on curves	m	700.00		
		Provision of custom made kerbs and channels:				
		(a) Provision of materials	PC Sum	1.00		
		(b) Contractor's charges and profit added to the prime cost sum	10%	-		
9.2		BUS SHELTER CONCRETE WORKS				
		Concrete for bus shelters				
9.2.1		Formwork Rough	m ²	130.00		
9.2.2	8.1.2	Reinforcement (high tensile steel)	ton	2.50		
9.2.3	8.1.3	Concrete (grade 25/19)	m ³	50.00		
9.3		CHANELLING				
		Formwork Rough	m ²	1 200.00		
	8.1.2	Reinforcement (high tensile steel)	ton	5.00		
	8.1.3	Concrete (grade 25/19)	m ³	100.00		
TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE B - CIVIL AND STRUCTURAL

SECTION 10 : ANCILLARY ROADWORKS						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
	SABS 1200 MM	ANCILLARY ROADWORKS				
		PERMANENT TRAFFIC SIGNS				
10.1	8.3.1	Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
10.1.1		(a) Aluminium sheet (2,0 mm thick), of area over 2 m ² and up to 10 m ²	m ²	80.00		
10.1.2		(b) Aluminium extrusions (alloy and temper condition stated), all sizes	m ²	80.00		
10.1.3		(c) Sheet steel (1,6 mm thick),of area Over and Up to				
		(i) up to 2 m ²	m ²	20.00		
		(ii) 2 m ² to 10 m ²	m ²	5.00		
		(iii) 10 m ² to 15 m ²	m ²	5.00		
10.1.4		d) Weather-resistant particle board (12,7 mm thick), of area Over and Up to				
		- 2 m ²	m ²	9.00		
		2 m ² to 10 m ²	m ²	6.00		
10.2	8.3.2	Extra-Over Item 15.1 for Provision and Application of Retro-reflective Material				
10.2.1		(a) Engineering grade retroreflective background (Prov.)	m ²	5.00		
10.2.2		(b) High intensity grade retroreflective background, characters, symbols, legend and borders. (Prov)	m ²	5.00		
10.2.3		(c) High intensity grade characters, symbols, legend and borders. Engineering grade retroreflective background (Prov.)	m ²	5.00		
10.3	PSMM 8.3.3	Sign Supports				
10.3.1		(a) Structural steel painted	No.	50.00		
10.3.2		(c) Timber diameter 145 mm - 175 mm pine	m	10.00		
TOTAL CARRIED FORWARD						

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SECTION 10 : ANCILLARY ROADWORKS						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	TENDER		
				QTY	RATE	AMOUNT
BROUGHT FORWARD						
	SABS 1200 MM	ANCILLARY ROADWORKS				
10.4	8.1.1 & 8.3.4	Excavation for sign supports and backfilling with in-situ material	m ³	35.00		
10.5	8.3.6	Statutory signs, street names, and the like, supplied and erected complete (Specifically	No.	45.00		
		ROAD MARKINGS				
10.6	8.4.1	Non-reflectorized paint applied at nominal rate of 0,42 l/m ²				
10.6.1		(a) White lines (broken or unbroken) (width 150 mm)	km	10.00		
10.6.2		(b) Yellow lines (broken or unbroken) (width 150 mm)	km	5.00		
10.6.3		(c) White characters and symbols	m ²	500.00		
10.6.4		(d) Yellow characters and symbols	m ²	500.00		
10.7	8.4.2	Variation in rate of application from that stated for item 13.3				
10.7.1		(a) White paint	l	Rate Only		
10.7.2		(b) Yellow paint	l	Rate Only		
10.7.3		(c) Glass beads	kg	Rate Only		
10.7.4		(d) Proprietary brand roadmaking material	l	Rate Only		
10.8	8.4.4	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)	km	13.00		
TOTAL CARRIED FORWARD TO SUMMARY						