14	Description	11 14	0.00-44	Det-	SECTION 1300
13.00		Unit	Quantity	Kate	Amount R
13.00	Contractor's general obligations				
10.01	(a) Fixed obligations	L/sum	1.0		
	(b) Value-related obligations	L/sum	1.0		
	(a) Time related obligations	month	10.0		
	(d) Cantract clar boards (b) information band and standard drawings)	m²	10,0		
50040.00	(d)Contract sign boards (zx information boad, see standard drawings)	m-	19,2		
PSC13.02	Stakenoiders				
	Community Laison officer for the duration of project	PC Sum	1,0	105 000,00	105 000,00
	Handling cost, profit and all other charges in respect of item	%	105 000,00		
PSC13.03	Safety obligation on site				
	Health and safety plan	L/sum	1,0		
	Implementation of health and safety plan for the duration of project .□	month	10,0		
	Monthly Audit, Site inspection and safety committee meeting conducted by the Employer's agent.Only payable if Contractor scores above 90% score per month and no serious offences occurred.				
PSC13.04	Environmental Management Programme				
	a) Compile Environmental Management Plan and attain approval. (Item is only payable where the Contractors Plan is approved)	PC sum	1,0	10 800,00	10 800,00
	b) Implement approved Environmental Management Plan, only payable if Contractors scores above 90% score per month and no serious offences exists	PC sum	1,0	10 800,00	10 800,00
Total Carrier	Leoward To Summon				
TOTAL CALLER	a rorwaru ro Sullillidiy	1			

Item	Description	Unit	Quantity	Rate	Amount R
14.00	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL				
14.01	Office and laboratory accommodation				
	(a) Offices (interior floor space only)	m²	70,0		
	(e) Ablution units	No	4,0		
14.02	Office and laboratory furniture				
	(a) Chairs	No	10,0		
	(d) Desks, complete with drawers and locks	No	2,0		
	(f) Conference tables	No	1,0		
14.03	Office and laboratory fittings Installations and equipment				
	(a) Items measured by number				
	(1) 220/250 volt power points	No	2,0		
	(4) Double 55 watt fluorescent light fittings complete with ballast and tubes	No	2,0		
	(6) Hand wash basins complete with taps and drains	No	2.0		
	(10) Fire extinguishers 9.0 kg all purpose dry powder type complete mounted on wall with	No	2.0		
	brackets	NO	2,0		
	(11) Air conditioning units with 2,2 kW minimum capacity, mounted and with own power connection	No	2,0		
	(14) General-purpose steel cupboards with shelves	No	2,0		
	(16) Refrigerators	No	1,0		
	(b) Prime-cost items and items paid for in a lump sum:				
	(1) Provision of telephone service, including the cost of calls in connection with contract administration and telephone rental	PC sum	1,0	25 000,00	25 000,00
	(2) Handling costs and profit in respect of subsubitem 14.03(b)(1) above	%	25 000,00		
	<ul> <li>(7) The provision of 400/231 volt 3-phase electrical power installations, including all wiring, switchboards, mains connections, etc</li> </ul>	L/sum	1,0		
	(c) Items measured by area				
	(8) Notice boards as specified□	m²	0.7		
			- ,		
14.04	Car ports				
	(a) Car ports, as specified, at offices and laboratory buildings	No	6,0		
14.07	Rented, hotel and other accommodation				
	(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subsubclause $14.03(c)(2)$	PC sum	1,0	64 400,00	64 400,00
	(b) Handling costs and profit in respect of subitem 14.07(a)	%	64 400,0		
Total Carried	Forward To Summary				

Item	Description	Unit	Quantity	Rate	SECTION 1500 Amount R
15.00	ACCOMMODATION OF TRAFFIC				
15.01	Accommodating traffic and maintaining temporary deviations	km	5,0		
15.03	Temporary traffic-control facilities (one-lane width closures)				
	(a) Flagmen	man-day	1 440,0		
	(b) Portable STOP and GO-RY signs	No	4,0		
	(c) Temporary traffic-control signals as specified or as shown on the drawings	No	6,0		
	(d) Amber flicker lights	No	2,0		
	(e) Road signs, R- and TR-series, (size indicated)	No	10,0		
	(f) Road signs, TW-series, (size indicated)	No	10,0		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	m²	10,0		
	(h) Delineators (DTG50J) (size indicated):				
	(2) Mounted back to back	No	250,0		
	(i) Moveable barricade/road sign combination (size indicated)	No	10,0		
	(j) Traffic cones (size indicated)	L/sum	1,0		
	(m) Two-way communication devices	No	2,0		
15.04	Relocation of traffic-control facilities	L/sum	1,0		
15.12	Temporary culverts				
	(a) Provision and laying of temporary prefabricated culverts complete (state size, type and bedding)	m	5,0		Rate Only
	(d) Overhaul on excavated material carted to spoil, backfill material (but excluding portland cement), prefabricated culverts removed and reinstalled, and prefabricated culverts removed and stacked, for haul in excess of a free-haul distance of 1,0 km	m³-km	2 500,0		Rate Only
15.13	In situ preparation and compaction of existing gravel shoulders to 93% of modified AASHTO density	m³	850,0		Rate Only
Total Carried	I Forward To Summary	1	I		

Item	Description	Unit	Quantity	Rate	Amount R
16.00	OVERHAUL				
16.01	Overhaul on material hauled in excess of a free-haul distance of 0,5 km for haul up to or through 1,0 km (restricted overhaul)	m³	1 280,0		
16.02	Overbaul on material bauled in excess of 1.0 km (ordinany overbaul)	m <sup>3</sup> km	19 200 0		
10.02	Overhadi on material nauleu in excess of 1,0 km (ordinary overhadi)	III -KIII	19 200,0		
Total Carried	Forward To Summary				

Item	Description	Unit	Quantity	Rate	Amount R
17.00	CLEARING AND GRUBBING				
17.01	Clearing and grubbing	ha	1,5		
17.02	Removal and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1m up to and including 2m	No	1,0		
	(b) Girth exceeding 2m up to and including 3m	No	1,0		
17.03	Re-clearing of surfaces (on the written instructions of the Engineer only)	ha	1,5		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m²	420,0		
17.05	Cleaning out of hydraulic structures				
	(a) Pines with an internal diameter up to and including 750 mm	m <sup>3</sup>	200.0		
	(b) Direct with an internal diameter exceeding 750 mm	m <sup>3</sup>	500.0		
	(b) Pipes with an internal diameter exceeding 750 mm	III-	500,0		
Total Carried	Forward To Summary				

Nem         Output         Quantity         Rate         Amount R           PSC17.2         EXENTNG ROAM MATTERUS         Image: Control output provements and discant materials to an approved dumping late to be image: control output provements and discant materials to an approved dumping late to be image: control output provement dispose of realing asphale proves and dispose of realing block paring (various types within readwary) along Works					PSC EXISTIN	G ROAD MATERIALS
BOBTING ROAD MATERIALS       Image: Section of the secti	Item	Description	Unit	Quantity	Rate	Amount R
PRC172-11 prediction using parameters and discuss materials to an approved durping fees. Use 1 and 1 a	PSC17-2	EXISTING ROAD MATERIALS				
in Remove and dispose of existing spatial panel surfaces on walkways up for mow pavement works and accountion for new dramage and dispose of unreinforced concrete along works area (channels, edge)       m <sup>2</sup> 1000         i) Remove and dispose of unreinforced concrete along works area (channels, edge)       m <sup>2</sup> 11200         i) Remove and dispose of unreinforced concrete along works area (channels, edge)       m <sup>2</sup> 11200         i) Remove and dispose of unreinforced concrete along works area (channels, edge)       m <sup>2</sup> 11200         i) Remove and dispose of kerts (all types precisit and cast-inshil) deemed to be in poor condition and or unversal access range af interectors, including all haulege and dumping site (b be beated by the Contractor, including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated by the Contractor), including all haulege and dumping site (b be beated b	PSC17-2.1	Demolish existing pavements and discard materials to an approved dumping site to be located by the Contractor, including all haulage and dumping fees:				
b) Remove and dispose of turnsificous concrete along works area (channels, edge beams, edging around fotures, edc.)       image of the second dispose of works (all types provide) (various types within read/way) along Works area       image of the second dispose of works (all types provide) (various types for walkways and dirveways) along Works area       image of the second dispose of works (all types provide) (various types for walkways and dirveways) along Works area       image of the second dispose of works (all types provide) (various types for walkways and dirveways) along Works area       image of the second dispose of works (all types provide) (various types for walkways and dirveways) along Works area       image of the second dispose of works (all types provide) (various types for walkways and dirveways) along Works area       image of the second dispose of works (all types provide) to dispose of works (all types provide) to dispose of works (all types provide) the contractor, including all havinge and dumping fees.       image of the be located by the Contractor, including all havinge and dumping fees.       image of the be located by the Contractor, including all havinge and dumping fees.       image of the be located by the Contractor, including all havinge and dumping fees.       image of the be located by the Contractor, including all havinge and dumping fees.       image of the be located by the Contractor, including all havinge and thickwork.       image of the be located by the Contractor, including all havinge and thickwork.       image of the be located by the Contractor, including all havinge interprotein the type barder, the contractor, including all havinge and thickwork.       image of the be located by the Contractor, including all havinge interprotein the type barder, the contractor, including the type of the contractor, i		<ul> <li>a) Remove and dispose of existing asphalt paved surfaces on walkways up to 80mm thick (average) along Works area (from roadway for new pavement works and excavations for new drainage and sleeves)</li> </ul>	m²	1 680,0		
Spoling of paving blocks and road edging in spol sites designated by the Empkyer:       Image: Spoling of paving blocks and road edging in spol sites designated by the Empkyer:       Image: Spoling of paving blocks and road edging in spol sites designated by the Empkyer:       Image: Spoling of paving blocks and road edging in spol sites designated by the Empkyer:       Image: Spoling of paving blocks and road edging in spol sites designated by the Spoling block paving (various types for walkways and driveways) and II 1200.       Image: Spoling of paving blocks and road edging in spol sites designated by the Spoling bioling benches are and spose of kerts (all types precased and cast-insible) deemed to be in poor of contron and for universal coords and subcets and subcets by the Contractor, including all hausge and dumping biols, so contron and for universal encodes in subcets (all types precased in concrete), electricity transmission lines, PC sun       1.0       30 000.00         PSC17-23       apmonte and ferrows pipelines (not encased in concrete), electricity transmission lines, PC sun       1.0       30 000.00       30 000.00         e) Dismantie and remove pipelines (not encased in concrete), electricity transmission lines, PC sun       1.0       32 000.00       32 000.00         e) Dismantie attentions, etc. (atel bins, bolards, benches, kerb inlet)       PC sun       1.0       32 000.00       32 000.00         e) Dismantie attentions, etc. (atel bins, bolards, benches, kerb inlet)       Image: State sta		<ul> <li>b) Remove and dispose of unreinforced concrete along works area (channels, edge beams, edging around fixtures, etc.)</li> </ul>	m²	100,0		
a) Emrove and dispose existing block paving (various types for walkways and diveways) along Works area       m <sup>2</sup> 11 20.0         c) Remove and dispose of korbs (all types procast and cast-institu) deemed to be in poor along Works area       m       2150.0         c) Remove and dispose of korbs (all types procast and cast-institu) deemed to be in poor metalism and for universal access maps at interacetions.       m       2150.0         PSC17-2.3       Dimantle and Dumolish of existing structures, the contractort to discard materials to an feese.       m       0.2         a) Take down existing fences and dispose of material       lom       0.2       0.30 000.00       30 000.00         b) Dimantle and remove sing fences and dispose of material       lom       0.2       0.30 000.00       30 000.00         c) Removing the covers sing the covers enclose of noncrieb, electricity transmission lines, existing bolards, benches, painters, dustitins, etc.       PC sum       1.0       32 000.00       227 000.00         c) Bernolita and remove singulards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         c) biolards, benches, jainters, dustitins, etc.       intervine dispose of lines, bolards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         c) and polards, benches, painters, dustitins, etc.       intervine dispose of lines bolards, benches, kerb inlet)       intervintervine dispose of lines bolards, benches	PSC17-2.2	Spoiling of paving blocks and road edging in spoil sites designated by the Employer:				
b) Remove and dispose existing block paying (various types for walkways and driveways) along Works area       m <sup>2</sup> 111 200.0         c) Remove and dispose of kerbs (all types precast and cast-insitu) deemed to be in poor condition and for universal access ramps at intersections.       m       2 150.0         PSC17-2.3       Dimentle and Demolish of existing structures, the contractor to discard materials to an grees.       m       0.0       0.0         a) Take down existing fences and dispose of material       km       0.0       0.0       0.000.00         b) Demantle and remove populations (not encased in concrete), electricity transmission lines, existing damaged linet covers etc.       PC sum       1.0       0.0       0.0         c) Demoniting and remove populations, dots, benches, kerb inlet)       PC sum       1.0       0.0       0.0       0.0         c) Demonitie active, etc. (steel bins, boliards, benches, kerb inlet)       PC sum       1.0       0.0       0.0       0.0         c) Demonitie active, etc. (steel bins, boliards, benches, kerb inlet)       PC sum       1.0       0.0       0.0       0.0         c) Demonitie active, etc. (steel bins, boliards, benches, kerb inlet)       Intervine access remove attructure, reflored and unreinforced concrete and birkwort, including boliards, benches, faither intervine access in concrete), etc.       Intervine access remove attructure, reflored and unreinforced concrete and birkwort, including boliards, benches, faither intervine ac		a) Remove and dispose existing block paving (various types within roadway) along Works area	m²	1 120,0		
c) Remove and diapose of karbs (all types present and cast-insitu) deemed to be in poor condition and for universal access ramps at intersections.       m       2150,0         PSC17-2.3       anaportved dumping site to be located by the Contractor, including all haulage and dumping fees.       km       0.2         a) Take down existing fences and dispose of material       km       0.2         b) Dismantle and remove pipelines (not encased in concrete), electricity transmission lines, cables, exising damaged inter covers etc.       PC sum       1.0       30 000.00       27 000.00         c) Demolish and remove structures, reinforced and unreinforced concrete and brickwork, cables, exising damaged inter covers etc.       PC sum       1.0       32 000.00       32 000.00         d) Diamantle steelwork, etc. (steel bins, bolards, benches, kerb intet)       PC sum       1.0       32 000.00       32 000.00         d) Diamantle steelwork, etc. (steel bins, bolards, benches, kerb intet)       PC sum       1.0       32 000.00       32 000.00         diamantle steelwork, etc. (steel bins, bolards, benches, kerb intet)       PC sum       1.0       32 000.00       32 000.00         diamantle steelwork, etc. (steel bins, bolards, benches, kerb intet)       PC sum       1.0       32 000.00       32 000.00         diamantle steelwork, etc. (steel bins, bolards, benches, kerb intet)       Inter the steelwork, etc. (steel bins, bolards, benches, etc. to the steel bins, bolards, benches,		<ul> <li>b) Remove and dispose existing block paving (various types for walkways and driveways) along Works area</li> </ul>	m²	11 200,0		
PSC17-23       Dimanile and Demolish of existing structures, the contractor, including all haulage and dumping life       Image: Contractor, including all haulage and dumpi		c) Remove and dispose of kerbs (all types precast and cast-insitu) deemed to be in poor condition and for universal access ramps at intersections.	m	2 150,0		
a) Take down existing fences and dispose of material       km       0.2         b) Dismantile and remove pipelines (not encased in concrete), electricity transmission lines, cables, existing damaged inter covers etc.       PC sum       1.0       30 000.00       27 000.00         c) Demolish and remove structures, reinforced and unreinforced concrete and brickwork, incluing bolards, benches, pletters, dustins, etc.       PC sum       1.0       32 000.00       32 000.00         d) Dismantile steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         under the steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         under the steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         under the steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       32 000.00       32 000.00         under the steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       1.0       1.0       1.0         under the steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       1.0       1.0       1.0         under the steelwork (steel bins, bollards, benches, kerb inlet)       PC sum       1.0       1.0       1.0       1.0	PSC17-2.3	Dimantle and Demolish of existing structures, the contractort to discard materials to an approved dumping site to be located by the Contractor, including all haulage and dumping fees:				
b) Dismantile and remove pipelines (not encased in concrete), electricity transmission lines, cables, exising damaged infet covers etc.       PC sum       1,0       30 000,00       27 000,00         c) Demoish and remove structures, reinforced and unreinforced concrete and brickwork, including bollards, benches, planters, dustbins, etc.       PC sum       1,0       27 000,00       27 000,00         d) Dismantile steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         unreinforced and unreinforced concrete and brickwork, including bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         d) Dismantile steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         unreinforced       unreinforced       unreinforced       unreinforced       unreinforced       unreinforced         unreinforced       unreinforced       unreinforced       unreinforced       unreinforce		a) Take down existing fences and dispose of material	km	0,2		
c) Demolish and remove structures, reinforced and unreinforced concrete and brickwork,       PC sum       1.0       27 000,00       27 000,00         d) Dismantle steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00       32 000,00         Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, benches, kerb inlet)       Image: Steelwork, etc. (steelwork, etc. (steelwork, etc. (steelwork, etc. (steelwork, etc. (s		b) Dismantle and remove pipelines (not encased in concrete), electricity transmission lines, cables, exising damaged inlet covers etc.	PC sum	1,0	30 000,00	30 000,00
d) Dismantile steelwork, etc. (steel bins, bollards, benches, kerb inlet)       PC sum       1,0       32 000,00         Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steel bins, bollards, benches, kerb inlet)       Image: Steelwork, etc. (steelwork, e		c) Demolish and remove structures, reinforced and unreinforced concrete and brickwork, including bollards, benches, planters, dustbins, etc.	PC sum	1,0	27 000,00	27 000,00
Total Carried Forward To Summary       Total Carried Forward To Summary		d) Dismantle steelwork, etc. (steel bins, bollards, benches, kerb inlet)	PC sum	1,0	32 000,00	32 000,00
Total Carried Forward To Summary						
Total Carried Forward To Summary       Image: Summary       Image: Summary       Image: Summary						
Total Carried Forward To Summary       Image: State Stat						
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					SECTION 2100
Item	Description	Unit	Quantity	Rate	Amount R
21.00	DRAINS				
21.01	Excavation for open drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(1) 0 m up to 1,5 m	m³	60,0		
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(1) 0 m up to 1,5 m	m³	60,0		
	(2) Exceeding 1.5 m and up to 3.0 m	m <sup>3</sup>	20.0		
			20,0		
21.12	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems: (a) Outlet structures	No	6,0		
	(b) Manholes boxes	No	6,0		
21.14	Repairing or replacing existing drainage systems	PC sum	1,0	20 000,00	20 000,00
Total Carried	Forward To Summary				

					SECTION 2200
Item	Description	Unit	Quantity	Rate	Amount R
22.00	PREFABRICATED CULVERTS				
22.01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(1) 0 m up to 1.5 m	m³	3 705,0		
	(2) Exceeding 1,5 m and up to 3,0 m	m³	1 850,0		
	(3) Exceeding 3,0 m and up to 4,5 m	m³	460,0		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m³	250,0		Rate Only
22.02	Backfilling:				
	(a) Using the excavated material	m³	6 500,0		
22.03	Concrete nine culverts:				
22.00					
	(c) On class C bedding □ Type S/C 100D-load pipes with spigot and socket joints:				
	(2) 450mm dia.	m	500,0		
	(3) 600mm dia.	m	200,0		
B22.17	Manholes, catchpits, precast inlet and outlet structures complete				
	(a) Manholes				
	(3) Brick manholes for drainage: constructed on all pipes up to 675 mm diameter				
	Construct complete with covers and frames, benching, etc, as per Engineer's drawings				
	a) Manhole at kerb inlet				
	Exceeding 1,0 m but not exceeding 2,5 m	No	2,0		
	Rectangular box Manhole				
	Exceeding 1.0 m but not exceeding 2.5 m	No	2.0		
	Manhole Skew hox		_,-		
	Manhole (skew box)	No	2.0		
22.20	Benching	m²	0.2		
22 21	Accessories		0,2		
	(a) Manhole covers including frames				
	(3) Type 4. SABS 558/1973	No	2.0		
	(b) Inlet arids including frames				
	(2) TPA type 40	No	2.0		
	(2) 1FA (ype +0	NO	2,0		
Total Carrie	d Forward To Summary				

Item	Description	Unit	Quantity	Rate	SECTION 2300 Amount R
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing				
	(a) Precast kerbing to SABS 927				
	(12) Figure 12 kerb	m	600,0		
23.01	Concrete kerbing				
23.02	Concrete kerbing-channelling combination				
	(c) Precast kerb to SABS 927 and cast in situ channel (concrete class 20/19)				
	(3) Figure 3 barrier kerb	m	1 300,0		
	(8) Figure 8(b) kerb	m	800,0		
	(d) Cast in-situ concrete transition kerbs				
	<ul> <li>(i) Cast in-situ concrete transition kerbs for any combination of kerbs. Concrete class 25/19.</li> </ul>	m	50,0		
	<ul> <li>(ii) Cast in-situ concrete transitions for pedestrian scoops, etc. Concrete class 25/19, 125mm thick, including finishing.</li> </ul>	m	30,0		
	iii) Cutting bitumuous surfacing and pavement layers (150mm deep) for concrete kerbing.				
	1) Straight sections	m	20,0		
	2) Curved sections	m	20,0		
Total Carried	Forward To Summary				

Item	Description	Unit	Quantity	Rate	SECTION 3300 Amount R
33.00	MASS EARTHWORKS				
33.07	Removal of unsuitable material (including free-haul of 0.5 km):				
	(a) In layer thicknesses of 200 mm and less:				
	(2) Unstable material	m <sup>3</sup>	100		
			100		
33.11	Three-roller-passes compaction:				
	(a) Vibratory roller	m²	2000		
Total Carried	Forward To Summary	l			
i otai Cameu	r orward to Guillinary				1

					SECTION 3400
Item	Description	Unit	Quantity	Rate	Amount R
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01	Pavement layers constructed from gravel taken from cut or borrow , including free haul up to 1,0 km				
	(f) Gravel base (chemically stabilized material) compacted to:				
	(2) 98% of modified AASHTO density (C3 layer) (for walkways)	m³	1 280,0		
	(i) BTB base compacted to 93% of Mod. RICE, 150 mm thick	m²	10500		
34.06	Extra over item 34.04 for adding extra materia as specified in subsubclause 3207(b)(iii):				
	(c) Gravel base	m³	50,0		
34.07	Extra over item 34.04 for temporarily blading the material to windrow	m³	180,0		
34.10	(a) Vibratory rollers	m²	8 510,0		
	(c) Grid rollers	m²	8 510,0		
34.11	Watering the pavement excavation floor	kł	15 000,0		
Total Carried	- i Forward To Summary		•		

Item	Description	Unit	Quantity	Rate	Amount R
35.00	STABILIZATION				
35.01	Chemical stabilization extra over unstabilized compacted layers				
	(c) Base				
	(2) 150mm thickness	m³	2250		
35.02	Chemical stabilizing agent:				
	(a) Ordinary portland cement	t	2565		
B35.04	Provision and application of water for curing	m²	15000		
35.03	Bitumen stabilization				
	(i) BTB base	m²	10500		
35.04	בגוום טיפו ונפווז + ו.ט דוט מעטיווע נווב עווווב נטמנ ווו מוכמא מטנפאוטיב טוווע נט וומווע וופוע	litre	1 149,0		
Total Carried	L Forward To Summary				

					SECTION 3800	
Item	Description	Unit	Quantity	Rate	Amount R	
38.00	BREAKING UP EXISTING PAVEMENT LAYERS					
38.0	Milling out existing bituminous material with an average milling depth:					
	(a) Not exceeding 30 mm	m³	315			
	(c) Exceeding 60 mm	m³	630			
38.03	Milling out cemented material:					
	(b) Average milling depth exceeding	m³	1050			
	50mm but not exceeding 100mm:					
38.04	Excavating and spoiling material from an existing pavement and/or the underlying fill:					
	(b) Cemented material	m <sup>3</sup>	1050			
	(d) Bituminous material (RAP)	m <sup>3</sup>	630,00			
38.13	Drilling cores:					
			00.00			
	(a) in asphait	NO	20,00			
D20 42	Everyting milled stabilized material to stacknike and back to the read again	2	10 500 00			
B38.13	Excavating milled stabilized material to stockpile and back to the road again	m²	10 500,00			
D20 14	Browiding the milling mechine on the site (1.5 to 2m wide)	L/Sum	1.00			
D30.14		L/ Sum	1,00			
38.1	Moving the milling machine on the site for a distance exceeding 1 0km (1.5 to 2m wide)	No	1			
00.1		NO				
Total Carried	Total Carried Forward To Summary					

14	Description	11-34	Quantity	Dete	SECTION 4100
Item	Description	Unit	Quantity	Rate	Amount R
41.00					
41.01	Prime coat:				
	(f) Bitumen emulsion bases prime	litre	7659		
	()				
Total Carried	Forward To Summary	ı			
	orward to Guillinary				

ltana	Description	Linit	Quantity	Dete	SECTION 4200
42.00	ASPHALT BASE AND SUBFACING	Unit	Quantity	Rale	Amount R
42.00					
42.02	Asphalt surfacing (state specified thickness and type of bitumen)				
	(a) Continuously graded				
	(2) Medium graded				
	(iii) 30 mm thick	m²	10 500,0		
42.04	Tack coat of 30% stable-grade emulsion 0,8/m <sup>2</sup>	litre	7 659,0		
Total Carried	d Forward To Summary				

		-			SECTION 5200
Item	Description	Unit	Quantity	Rate	Amount R
52.00	GABIONS				
52.01	Foundation trench excavation and backfilling:				
	·				
52.02	Surface preparation for bedding the gabions□ Cavities filled with approved excavated material Cavities filled with approved excavated material	m²	200,0		
52.03	Gabions:				
	(a) Galvanized gabion boxes				
	(2) 1,0 m wide by 0,5 m deep				
	(ii) by 2,0 m long mesh Gabions Boxes (As per Engineers Drawings)	m³	400,0		
52.05	Filter fabric				
	(a) Bidim U14 or similiar	m²	200,0		
Total Carried	Forward To Summary				

					SECTION 5600
Item	Description	Unit	Quantity	Rate	Amount R
56.00	ROAD SIGNS				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:				
	(a) Aluminium sheet (2,0 mm thick)				
	(1) Area not exceeding 2 m <sup>2</sup>	m²	18,0		
56.03	Road sign supports (overhead road sign structures excluded):				
	(b) Steel tubing D shape 76mm OD with 2mm wall thickness galvanized.	m	130,0		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m³	15,0		
56.06	Extra over item 56.05 for cement-treated soil backfill	m³	15,0		
56.07	Extra over item 56.05 for rock excavation	m³	2,0		Rate Only
56.08	Dismantling, storing and re-erecting road signs with a surface area of (reinstallation of complete of road signs):				
	(a) Up to 2 m <sup>2</sup>	No	3,0		
	(b) Exceeding 2 m <sup>2</sup> but not 10 m <sup>2</sup>	No	10,0		
56.09	Dismantling and storing road signs with a surface area of:				
	(a) Up to 2 m <sup>2</sup>	No	3,0		Rate Only
Total Carried	Forward To Summary				

					SECTION 5700
Item	Description	Unit	Quantity	Rate	Amount R
57.00	ROAD MARKINGS				
57.01	Road marking paint:				
	(a) White lines (broken or unbroken)				
	(1) 100 mm wide	km	1,5		
	(b) Yellow lines (broken or unbroken)				
	(2) 150 mm wide	lana	1 5		
	(2) 150 mm wide	KIII	1,5		
57.08	Removal of existing, temporary or permanent road markings by:				
	(a) Sandblasting	m²	50,0		
Total Carried	Forward To Summary				

					SECTION 5800
Item	Description	Unit	Quantity	Rate	Amount R
58.00	LANDSCAPING AND PLANTING PLANTS				
B58.09	Trees and shrubs:				
	(a) Providing the trees and shrubs $\Box$				
	Supply and Planting of trees complete as per specifications: Incl. excavations and backfill				
	with specified material, geotextile, drainex pipe and timber stakes, all as specified on				
	Architect's drawings.				
	a) COMBRETUM ERYTHROPHYLLUM [BUSH WILLOW] Tree height: 2.7m to 3.15m;	No	53,0		
	Stem thickness: 45 to 55mm;				
	b) Allow for maintaining landscaping and tress, this includes watering, deweeding, cutting,	No	6,0		
	mowing, pruning, replacing dead plants, application of nerbicides, applying refuilizer (in				
	and debris, maintaining monthly records, etc. The maintenance period shall commence				
	upon issue of the Certificate of Practical Completion. Maintenance frequency to be once				
	per week for 6 months.				
B58.10	Extra work for landscaping and street Furniture				
	Provide and install complete as per specifications/drawings:				
	a) New concrete Bench:				
	As per Detail. Refer to Detail for mosaic	No	41.0		
		110	-1,0		
	b) New Way Finding Signage:				
	Way Finding Signage as per Detail. 4 way finding signs per Pole. Sign Post setting out as	No	4,0		
	per Detail.				
	-> New Dellands (True A).				
	c) New Bollards (Type A):				
	Steel Bin:	No	30.0		
			,-		
	d) New Bollards (Type B):				
	1200mm Steel Bollard or equally approved; Height above ground: 900mm Mitre-top	No	182,0		
	45degrees. Diameter: 150mm. Finish: Polyurethane Paint Colour: Dark Grey Tarnished Iron				
	e) New Steel Bin				
	72 litre steel swing bin as per Detail, Diameter: 402mm; Height: 798mm; Options Detail:	No	21,0		
	Planted, Galvanised Mild Steel, Perforated Plate; Material: Galvanised Mild Steel.				
	f) Double Arm Street Light (Street level and Pedestrian level light head):				
	Street Light to match ovisting. Top Arm at 9m Low Arm at 4m. Street Lighting to Electrical	No	8.0		
	Street Light to match existing. Top Arm at on, Low Arm at 4m. Street Lighting to Electrical Engineer and manufactures specification	INO	0,0		
	g) Post Top Light:				
	LED 30w, 4.5mh Buried MOQ 50 seamless cylindrical GRP column with integrated	No	30,0		
	luminaire on top; Standard colour: Black (RAL 9017).				
	h) Tree Dianter				
	ny nee manter.				
	4 rectangular interlocking pieces pre-cast concrete Tree ring, 50mm thick 25MPa, complete	No	53.0		
	as per specifications. Refer to Architect's drawings.		55,0		
	•				
Total Carrie	d Forward To Summary				

Item	Description	Unit	Quantity	Rate	SECTION 5900 Amount R
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01	Finishing the road and road reserve:				
	(a) Dual corriggoment road	km	2.0		
	(a) Dual carnageway load	NIII	3,0		
Total Carried	I Forward To Summary				

ltem	Description	Unit	Quantity	Rate	SECTION 7300
73.00	CONCRETE BLOCK PAVING FOR ROADS	Offic	Quantity	Nate	Amount N
10.00					
B73.01	Concrete block paving				
	Inclusive of 20 mm layer bedding sand imported from commercial sources, with sand and cement mixture swept into joints and lightly hosed down, and cutting of units to fit edge restraint all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months. (A sample must be provided of all materials to be approved by the architect before placing orders.)				
	a) Walkways Concrete Pavers:				
	in basket weave pattern, @ intersections in herringbone pattern: Concrete Paving Block Type: "Technicrete" Double Zigzag o.e. a (or equal approved); Thickness: 60mm; Colour: Red paving blocks; Pattern: laid to standard basket weave pattern, in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	14 490,0		
	b) Driveways Pavers:				
	in basket weave pattern: Concrete Paving Block Type: "Technicrete" Double Zigzag o.e.a (or equal approved); Thickness: 80mm; Colour: Grey paving blocks; Pattern: laid to standard basket weave pattern, in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	1 712,0		
	c) Clay Pavers Type A:				
	c) diay ravers type A.				
	Clay Paver Type: Corobrik® Springs Factory 52MPa Cederberg Paver PA clay paving bricks; Traffic Type: Light Traffic/ Medium to Heavy Traffic; Size/ Thickness: 200 x 98,5 x 65mm thick; Pattern: laid in Basket Weave Bond pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.				
	d) Clay Pavers Type B:				
	Corobrik® Springs Factory 83.7MPa Onyx Paver PA clay paving bricks; Traffic Type: Light Traffic/ Medium to Heavy Traffic; Size/ Thickness: 200 x 98,5 x 65mm thick; Pattern: laid in Basket Weave Bond pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	284,0		
	d) Tactile and warning payers:				
	PAVING- CONCRETE- DIRECTIONAL TACTILES (400x400mm): Directional tactiles to SANS 784 laid as per Engineers specification; PAVING- CONCRETE- WARNING TACTILES (400x400mm): Warning tactiles to SANS 784 laid as per Engineers specification	m²	200,0		
73.02	Cast in situ concrete edge and intermediate beams				
	a) Concrete edge beam 150 x 150 mm, in-situ cast concrete class 25/19. At edge of sidewalks against building line and between walkway paving and driveway paving.	m	720,0		
	b) Concrete edge beam 200 x 150 mm, insitu cast concrete class 25/19. At edge of driveways against building line.	m	220,0		
Total Carried	Forward				

Item	Description	Unit	Quantity	Rate	SECTION 7300 Amount R
Brought Forw					
73.03	Provision of approved herbicide and ant poison:				
	(a) Provision of materials	PC sum	1,0	5 000,00	5 000,00
	(b) Contractor's charges and profit added to the prime cost sum	%	5 000,00		
Total Carried	Forward To Summary				

Item	Description	Unit	Quantity	Rate	Amount R
81.00	TESTING MATERIALS AND WORKMANSHIP				
81.02	Other special tests requested by the engineer	Prov sum	1,0	150 000.00	150 000.00
				,	
Total Carried	Forward To Summary				150 000,00

Contract : Watt Street PEU Schedule 1 25

PROVISIONAL SUM

Item	Description	Unit	Quantity	Rate	Amount R
PSC1	PROVISIONAL SUM				
PSC1.1	Training:				
PSC1.1.1	Provision of Accredited and Approved Training (Entreprenual and Generic)	Prov sum	1,0	250 000,00	250 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1	%	250 000,00		
PSC1.1.2	Training obligation				
	(a) Technical skills	Prov sum	1,0	300 000,00	300 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.2(a)	%	300 000,0		
	(b) Student Training	Prov sum	1,0	200 000,00	200 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.2(b)	%	300 000,0		
PSC1.1.3	Obligation for SMMEs				
	a) Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related. (Must be 10% of P&Gs) $$	Prov sum	1,0	451 250,00	451 250,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.3(a)	%	451 250,0		
PSC1.1.4	Sums stated Provisionally by Engineer				
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	180 000,00	180 000,00
	a) Relocation of existing services (raising/lowering of manholes/valve chambers/etc., relocating water meters/electrical poles/etc.), protection of existing sevices and including attaining wayleaves from Service Authorities.	%	180 000,00		
	Overheads, charges and profit on item above PSC1.1.4(a)				
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	268 300,00	268 300,00
	<ul> <li>a) Provision for soft landscaping and street furniture additional to items described elsewhere in the bills of quantities.</li> </ul>	%	268 300,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract				
	a) Design and construction for new electricity installation	Prov sum	1,0	530 000,00	530 000,00
	Overheads, charges and profit on item above	%	530 000,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract				
	b) Design and construction for Structural works	Prov sum	1,0	500 000,00	500 000,00
	Overheads, charges and profit on item above	%	500 000,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	53 700,00	53 700,00
Total Carried	Forward				
		26			

Contract	:	Watt	Street PEU	
Schedule	1			

ltem	Description Unit Quantity Rate					
Brought Forw	ard	- Crim	Quantity		, another t	
	Overheads, charges and profit on item above	%	53 700,00			
	b) Provision for additrional Stormwater work	Prov sum	1,0	107 300,00	107 300,00	
	Overheads, charges and profit on item above	%	107 300,00			
	a) Provision for Removal & Relocation of existing Fence line	Prov sum	1,0	107 300,00	107 300,00	
	Overheads, charges and profit on item above	%	107 300,0			
Total Carried Forward To Summary						

			0 "	<b>D</b> (	SMME's
Item	Description	Unit	Quantity	Rate	Amount R
PSC2	SMME's				
PSC2.1	Scope of Works Reserved for SMMEs Development⊟ Manholes, Kerbing, Paving, Edge Beams, Guard Rails				
PSC2.1.1	Accommodation of Traffic	Prov sum	1,0	345 600,00	345 600,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	345 600,00		
PSC2.1.2	Clearing and Grubbing	Prov sum	1,0	200 000,00	200 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	200 000,00		
PSC2.1.3	Concrete Kerbing, Concrete Channeling, Chutes and Downpipes and Concrete linings for open drains	Prov sum	1,0	150 000,00	150 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	150 000,00		
PSC2.1.4	Mass Earthworks	Prov sum	1,0	450 000,00	450 000,00
	SMMEs Preliminary & Generals	%	450 000,00		
PSC2.1.5	Road Signs	Prov sum	1,0	35 000,00	35 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	35 000,00		
PSC2.1.6	Road Markings	Prov sum	1,0	10 000,00	10 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	10 000,00		
PSC2.1.7	Concrete Block Paving	Prov sum	1,0	1 100 000,00	1 100 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	1 100 000,00		
PSC2.1.8	Drains	Prov sum	1,0	160 000,00	160 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	160 000,00		
Total Carrie	d Forward				

ltem	Description	Unit	Quantity	Rate	SMME's
Prought For		0.111	Quantity	, luito	,
BOUGHT FOR	landecoping and Planting Planta	Broy oum	1	57000	57000
F302.1.9		FIOV Sull		57900	57900
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23 00	%	57900		
Total Carried	Forward To Summary				

### Contract : Watt Street PEU Structural Schedule 1

ltem	Pav	Description	Linit	Quantity	Rate	Amount
nom	i ay	Description	Onic	Quantity	Nate	Amount
N°	Ref.					(Rand)
		SECTION 1 : EARTHWORKS & DEMOLITION				
	SABS	SITE CLEARANCE				
	1200C					
1,1		Demolish and remove debris off site to approved dumping area:				
4.4.4		Demonstral of of demonstrate of other setures	3	ante entre		
1.1.1		Removal of of demolished structures	mĭ	rate only		
1.1.2		Wall on 4th Street				
		Demolition and remove briek well	3	00.00		
		Demonition and remove blick wait	m⁻	00,32		
	SABS					
	12000					
	1200D					
1,2	8.3.2	EXCAVATION				
.,_						
	8.3.3 (a)	Excavate for foundations in all materials and dispose of				
		within freehaul distance for :				
1.2.1		Pedestrian Access - Main Lift Road Level				
1011			m <sup>3</sup>	25.0		
1.2.1.1		Callopy bases Types A & C	III.	23,0		
1.2.1.2		Turnstile Base Type "B"	m³	1.6		
		51		1-		
1.2.2		Pedestrian Access - Western Service Road				
1001			m <sup>3</sup>	11		
1.2.2.1		Callopy bases Types A & C	m.			
1.2.2.2		Turnstile Base Type "B"	m³	1.6		
		51				
1.2.2.3		Retaining Wall foundation	m³	122,7		
1004		"Clearl/II" Eanas Blintha	m <sup>3</sup>	2 5		
1.2.2.4			m.	3,5		
1.2.3		Pedestrian Access - New Staircase at Road Level				
-						
1.2.3.1		Canopy Bases Types "A" & "C"	m³	7,4		
1232		Turnstile Base Tyne "B"	m <sup>3</sup>	16		
1.2.0.2		ranoulo buoo rype b		1,0		
	1					
1.2.3.3		"ClearVU" Fence Plinths	m³	25.9		
				-,-		
1.2.4		Gates at North and Southe Ends of the Station: Bases				
1341		Base Type "B"	m <sup>3</sup>	64		
1.5.4.1		Dubb 1390 D		0,4		
1.3.4.2		Base Type "D"	m³	4		
		Extra-over items 1.4.3 up to 1.4.5 for excavation in :				
	8.3.3(b)					
125		Intermediate material	m <sup>3</sup>	rate only		
1.2.5		Internediate Hateria		Tate only		
		Carried Forward				
		ounieur orwaite				

		SECTION 1 : EARTHWORKS & DEMOLITION			
126		Hard rock material	m <sup>3</sup>	rato only	
1.2.0				rate only	
1.2.7		Boulder material, Class A	m³	rate only	
100					
1.2.8		Boulder material, Class B	m	rate only	
1,3	8.3.4	IMPORT MATERIAL			
		G5 compacted in max. 150mm layers to 95% Mod ASHTO			
131		Pedestrian Access - Main Lift Road Level			
1.3.1.1		Canopy Bases Types "A" & "C"	m³	23,1	
1212		Turpatila Paga Turpa "D"	m <sup>3</sup>	1.2	
1.3.1.2		Turnsule dase Type D	m	1,3	
1.3.2		Pedestrian Access - Western Service Road			
1.3.2.1		Canopy Bases Types "A" & "C"	m³	8,4	
1.3.2.2		Turnstile Base Type "B"	m³	1,3	
1.3.2.3		Retaining Wall foundation	m³	73,7	
1.3.2.4		"ClearVU" Fence Plinths	m³	2.8	
				1.	
1.3.3		Pedestrian Access - New Staircase at Road Level			
1331		Canony Bases Types "A" & "C"	m <sup>3</sup>	6.6	
1.0.0.1				0,0	
1.3.3.2		Turnstile Base Type "B"	m³	1,3	
1000					
1.3.3.3		"Clearvu" Fence Plintns	m²	2,8	
1.3.4		Gates at North and Southe Ends of the Station: Bases			
1.3.4.1		Вазе Туре "В"	m³	5,1	
1.3.4.2		Base Type "D"	m³	2	
1,6	8.3.6	Overhaul ( provisional )			
1.6.1		Limit overhaul	m³	rate only	
				· ·	
1.6.2		Long overhaul	m³.km	rate only	
		Carried Forward to Summary			

	SABS	SECTION 2 - CONCRETE (STRUCTURAL)			
	1200 G				
	8.1.3	CONCRETE			
2,1	1 8.4.2	Blinding layer in 20 MPa / 19 mm concrete			
		50mm minimum thickness			
2.1.1		Pedestrian Access - Main Lift Road Level			
2.1.1.1		Canopy Bases Types "A" & "C"	m³	0,35	
2.1.1.2		Turnstile Base Type "B"	m³	0,05	
2.1.2		Pedestrian Access - Western Service Road			
2.1.2.1		Canopy Bases Types "A" & "C"	m³	0,15	
2.1.2.2		Turnstile Base Type "B"	m³	0,05	
2.1.2.3		Retaining Wall foundation	m³	10	
2.1.2.4		Wall of 4th street foundation	m³	2,14	
2.1.2.5		"ClearVU" Fence Plinths	m³	0,04	
2.1.3		Pedestrian Access - New Staircase at Road Level			
2.1.3.1		Canopy Bases Types "A" & "C"	m³	0,1	
2.1.3.2		Turnstile Base Type "B"	m³	0,05	
2.1.3.3		"ClearVU" Fence Plinths	m <sup>3</sup>	0,3	
2.1.4		Gates at North and Southe Ends of the Station: Bases			
2.1.4.1		Base Type "B"	m³	0,2	
2.1.4.2		Base Type "D"	m³	0,15	
2,2	2 8.4.3	Strength concrete: 30 MPa / 19 mm			
2.2.1		Pedestrian Access - Main Lift Road Level			
2.2.1.1		Canopy Bases Types "A" & "C" and Plinths	m³	5,34	
2.2.1.2		Turnstile Base Type "B"	m³	0,35	
2.2.2		Pedestrian Access - Western Service Road			
2.2.2.1		Canopy Bases Types "A" & "C" and Plinths	m³	1,42	
2.2.2.2		Turnstile Base Type "B"	m³	0,35	
		Carried Forward			

	SABS	SECTION 2 - CONCRETE (STRUCTURAL)				
2.1.2.3		Retaining Wall foundation	m³	12,3		
2.1.2.4		Retaining Wall Concrete In-fill	m³	36,8		
2.1.2.5		"ClearVU" Fence Plinths	m³	0,65		
2.2.3		Pedestrian Access - New Staircase at Road Level				
2.2.3.1		Canopy Bases Types "A" & "C"	m³	1,42		
2.2.3.2		Turnstile Base Type "B"	m³	0,35		
2.2.3.3		"ClearVU" Fence Plinths	m³	0,65		
2.2.4		Gates at North and South Ends of the Station: Bases				
2241		Rase Type "B"	m <sup>3</sup>	0.35		
2.2.7.1				0,00		
2.2.4.2		Base Type "D"	m³	0,65		
2,3	3 8.1.1	FORMWORK				
		Including all support work.				
2.3.1	8.2.1	Rough bases below ground: vertical plane				
2.3.1.1		Pedestrian Access - Main Lift Road Level				
2.3.1.1.1		Canopy Bases Types "A" & "C"	m <sup>2</sup>	0,56		
23112		Turnstile Rase Type "R"	<sup>2</sup>	1 38		
2.0.1.1.2			m	1,00		
2.3.1.2		Pedestrian Access - Western Service Road				
0.04.04						
2.3.1.2.1		Canopy Bases Types "A" & "C"	m²	4,14		
2.3.1.2.2		Turnstile Base Type "B"	m <sup>2</sup>	1,38		
2.3.1.2.3		Retaining Wall foundation	m²	39,85		
2.3.1.2.4		"ClearVU" Fence Plinths	m <sup>2</sup>	5,8		
				0		
2.3.1.3		Pedestrian Access - New Staircase at Road Level				
23131		Canony Bases Types "A" & "C"	m <sup>2</sup>	4 14		
2.0.1.0.1			111	7,14		
2.3.1.3.2		Turnstile Base Type "B"	m <sup>2</sup>	1,38		
00100		"Class)// II" Fance Dijetha	2	40.47		
2.3.1.3.3		Carried Forward	m <sup>+</sup>	43,47		
1	1		1	1	1	

			Brought Forward			
2.3.1.4			Gates at North and South Ends of the Station: Bases			
2.3.1.4.1			Base Type "B"	m <sup>2</sup>	4,14	
2.3.1.4.2			Base Type "D"	m <sup>2</sup>	1,73	
0.0.0		0.0.0				
2.3.2		8.2.2	Smooth vertical plane to:			
2.3.2.1			Pedestrian Access - Main Lift Road Level			
2.3.2.1.1			Plinth Detail D1	m²	3,11	
0 0 0 4 0				2		
2.3.2.1.2			Plinth Detail D2	m²	2,9	
2.3.2.2			Pedestrian Access - Western Service Road: Plinth D1	m <sup>2</sup>	3,11	
2.3.2.3			Pedestrian Access - New Staircase at Road Level: Plinth D1	m <sup>2</sup>	2,07	
	0.4	0.0.0			unte amb :	
	2,4	2.2.3	Smooth nonzontal plane to:	m-	rate only	
	2,5	2.2.4	Chamfers exceeding 20 mm x 20 mm and grooves			
2.5.1			Pedestrian Access - Main Lift Road Level			
0544					0.01	
2.5.1.1				m	6,21	
2.5.1.2			Plinth Detail D2	m	8,28	
2.5.2			Pedestrian Access - Western Service Road: Plinth D1	m	6,21	
0.5.0						
2.5.3			Pedestrian Access - New Staircase at Road Level: Plinth D1	m	4,14	
		8.1.2	REINFORCEMENT			
	2,8	8.12.3	Mild steel bars			
0.0.4			in to 40 mm the			
2.8.1			up to 12mm dia.			
2.8.1.1			Pedestrian Access - Main Lift Road Level	kg	12	
				0		
2.8.1.2			Pedestrian Access - Western Service Road	kg	233	
2.8.1.3			Pedestrian Access - New Staircase at Road Level	кд	4	
	2,9	8.3.1	High-tensile steel bars			
			sizes up to 40mm			
2.9.1.1			Pedestrian Access - Main Lift Road Level	kg	213	
			Carried Forward			1

		Brought Forward			
2.9.1.2		Pedestrian Access - Western Service Road	kg	720	
2.9.1.3		Pedestrian Access - New Staircase at Road Level	kg	77	
2.9.1.4		Gates at North and South Ends of the Station: Bases	kg	158	
	2,1 8.3.2	High-tensile welded mesh reinforcement			
2.10.1		Type reference 193 in 6m x 2.4m standard sheets	m²	rate only	
2.10.2		Type reference 245 in 6m x 2.4m standard sheets	m²	rate only	
2.10.3		Type reference 311 in 6m x 2.4m standard sheets	m²	rate only	
2.10.4		Type reference 395 in 6m x 2.4m standard sheets	m²	rate only	
2.10.5		Type reference 500 in 6m x 2.4m standard sheets for	m²	rate only	
2.11	8.4.4	UNFORMED SURFACE FINISHES			
2.11.1		Wood-floated finish ( see PSG 7.1 )	m²	rate only	
2.11.2		Steel-floated finish ( see PSG 7.2 )	m²	rate only	
2.11.3		Pedestrian Access - Main Lift Road Level			
2.11.3.1		Plinth Detail D1	m²	0,68	
2.11.3.2		Plinth Detail D2	m²	0,56	
2.11.4		Pedestrian Access - Western Service Road			
2.11.4.1		Plinth Detail D1	m²	0,86	
2.11.4.2		"ClearVU" Fence Plinths	m²	0,93	
2.11.4		Pedestrian Access - New Staircase at Road Level			
2.11.4.1		Plinth Detail D1	m <sup>2</sup>	0,58	
2.11.4.2		"ClearVU" Fence Plinths	m <sup>2</sup>	6,99	
2.12.4		Power-floated finish ( see PSG 7.1 )	m²	rate only	
2.12.5		Special-Surface finish ( see PSG 7.1 )	m²	rate only	
		Carried Forward			

		Brought Forward			
2.13	8.4.4	JOINTS	m	rate only	
2.14	8,7	GROUTING			
2 14 1		Dedestrian Assess Main Lift Bood Level			
2.14.1		redestrian Access - Iviain Lin Road Level			
2 14 1 1		Plinth Detail D1	no	3	
				0	
2.14.1.2		Plinth Detail D2	m	4	
2.14.2		Pedestrian Access - Western Service Road: Plinth D1	m	3	
2.14.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	m	2	
2.15	8,8	HD BOLTS			
		Supply and Install Holding Down Bolts for:			
0.45.4					
2.15.1		M20 Grade 8.8 and 450mm long			
2 15 1 1		Pedestrian Access Main Lift Pead Level			
2.13.1.1		redestrian Access - Iviain Liit Noad Lever			
2.15.1.1.1		Plinth Detail D1	ka	18.5	
				,-	
2.15.1.1.2		Plinth Detail D2	kg	24,7	
			-		
2.15.1.2		Pedestrian Access - Western Service Road: Plinth D1	kg	18,5	
2.15.1.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	kg	12,3	
2.15.1.4		Gates at North and South Ends of the Station: Bases	kg	49,3	
0.45.0					
2.15.2		M20 anchor bolts to be HILTI HIT-V threaded			
2.15.2.1		Pedestrian Access - Main Lift Road Level	kg	24,7	
			0		
2.15.2.2		Roof Over Stair Tower at South Road	kg	32,1	
2.15.2.3		Pedestrian Access - Western Service Road: ClearVu Poles	kg	141,9	
2.15.2.4		Gates at North and South Ends of the Station	kg	74	
2.15.3		M10 Rawl Bolts or similar approved Installed to			
		ivianuraciurer s specifications.			
2 15 3 1		Grille over Openings	ka	5.51	
2.10.0.1			1.9	5,51	
		Carried Forward to Summary			
			1		

	SABS	SECTION 4 - MISCELLANEOUS ITEMS				
3,1	1	Roof sheeting:				
		Supply and fit "Chromadek" 0.8 mm thick IBR roof				
		sheeting to approved colour including all fasteners and Flashing sheets on Alucushion insulation.				
				(0.0		
3.1.1		Pedestrian Access - Main Lift Road Level	m²	16,6		
3.1.2		Pedestrian Access - Western Service Road	m²	21,3		
3.1.3		Pedestrian Access - New Staircase at Road Level	m²	10,9		
3.1.4		Roof Over Stair Tower at South Road	m²	95		
3,2	2	Rectagrid Panels:				
3.2.1		Pedestrian Access - Main Lift Road Level				
3.2.1.1		Vertical Panels	m²	40,4		
3.2.1.2		Horizontal Panels	m²	52,8		
3.2.2		Pedestrian Access - Western Service Road				
3.2.2.1		Vertical Panels	m²	11,2		
3.2.3		Pedestrian Access - New Staircase at Road Level				
3.2.3.1		Vertical Panels	m <sup>2</sup>	5,7		
3.2.4		Grille over Openings	m²	2		
3,3	3	76x25mm Medium Security ClearVu Fence with				
		76x76x2.5 SHS Posts, inclusive of the Fixing				
		Accessones:				
3.3.1		Pedestrian Access - Western Service Road	m	75		
3.3.2		Pedestrian Access - New Staircase at Road Level	m	85		
		Turnstiles				
		TITAN 4: four arm, full height, bi-directional double turnstile - Polyester exterior grade powder coat - charcoal blue - Fail Secure. Including delivery and installation.	no	2		
		Bypass Gates Security gate - maglock and door closer (843mm clear opening) Size to be confirmed -	no	2		
		Polyester exterior grade powder coat -charcoal blue. Including delivery and installation.				
		Roller Shutter Gate				
		Xpanda or equal approved Aluminium electrically operated roller shutter in Graphite Grey Powder coated finish (Colour code: RAL 7024), overall size 4800mm x 2400mm high with 550mm headroom with 130mm clearance on free side and 315mm clearance on operator side, 75mm wide extruded slates with Fenestra cutouts and polycarbonate inserts, 75mm wide side guides, Xpanda RoI-Lok, with slatted canopy cover and weather strip T-bar to bottom edge, with perimeter framing plugged and screwed to face at maximum 300mm centres to steel Stucture.	no	1		
		ClearVu Fence- Panels				
		Provide ClearVu wall fence panels width 3305mm, height 2400mm, with 3,5mm coated wire diameter, galvanised and Polymetric 6000 coated Jet Black.	no	196		
		ClearVu Fence- Posts	20	400		
		i aper incruing hosts	10	198		
		Barbed Wire				
		Ripper Concertina coll 730mm - Galvanised fixed to ClearVu fencing.	m	650		
<u> </u>		Carried Forward to Summary		1	·	

	SABS	SECTION 5 - STRUCTURAL STEELWORK			
	1200 H				
	SANS 10120 AH				
	8.3.1	SUPPLY AND FABRICATION			
4,	1 8.3.1.2	Supply and fabrication in Grade 355JR steel to			
		SANS 1431, steelwork complete with all necessary			
		cleats, base plates,brackets, gussets, packs etc.			
		Canopy Structure:			
4.1.1		Pedestrian Access - Main Lift Road Level			
4.1.1.1		3.576m column UB 203x133x25 kg/m	kg	310	
4.1.1.2		2.80m Rafter IPE 200	kg	216	
4.1.1.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	38	
4.1.1.4		Purlins CLPC 100x50x20x2.0 - 6.31kg/m	kg	104	
			-		
4.1.1.5		Bracing members L 50x50x5 - 3.77kg/m)	kg	34	
4.1.1.6		2.940m Column RHS 200x100x6.0 - 27.2 kg/m	kg	368	
4.1.1.7		4.90m Rafters RHS 200x100x6.0 - 27.2 kg/m	kg	614	
4.1.2		Pedestrian Access - Western Service Road			
4.1.2.1		3.007m column UB 203x133x25 kg/m	kg	260	
4.1.2.2		2.80m rafter IPE 200	kg	216	
4.1.2.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	47	
4.1.2.4		Purlins CLPC 100x50x20x2 0 - 6.31kg/m	ka	134	
			g	101	
4.1.2.5		Bracing members L 50x50x5 - 3.77kg/m)	kg	52	
4.1.3		Pedestrian Access - New Staircase at Road Level			
4.1.2.1		3.007m column UB 203x133x25 kg/m	kg	174	
4.1.2.2		2.80m rafter IPE 200	kg	144	
4.1.2.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	24	
4.1.2.4		Purlins CLPC 100x50x20x2.0 - 3.53kg/m	kg	69	
		Carried Forward			

	SABS	SECTION 5 - STRUCTURAL STEELWORK			
4.1.2.5		Bracing members L 50x50x5 - 3.77kg/m)	kg	52	
414		Roof Over Stair Tower at South Road			
4.1.4.1		6,905m Inclined column UB 203x133x25 kg/m	kg	802	
4.1.4.2		3.910m column UB 203x133x25 kg/m	kg	451	
4.1.4.3		9.00m Rafter UB 203x133x25 kg/m	kg	1039	
4.1.4.4		Apex Tie-Beams CHS 89.9x4.0 - 8,38kg/m	kg	77	
4.1.4.5		Purlins CLPC 125x50x20x2.0 - 4,84kg/m	kg	409	
4.1.4.6		Bracing members L 60x60x6 - 5.42kg/m)	kg	179	
4.1.4.7		0.620m Haunch UB 203x133x25 kg/m	kg	36	
4.1.4.8		T40 CS Hangers - 9.86 kg/m	kg	431	
4.1.5		Gates at North and South Ends of the Station: Bases			
4.1.5.1		4.475m column SHS 80x80x5.0 - 11.9kg/m	kg	598	
4.1.5.2		12.64m Beams SHS 80x80x5.0 - 11.9kg/m	kg	742	
4.1.5.3		Bracing members L 50x50x5 - 3.77kg/m)	kg	57	
4.1.6		Grille over Openings		0	
4.1.6.1		Bracing members L 50x50x5 - 3.77kg/m)	kg	384	
4,	2	SHOP PREPARATION AND PAINTING			
4.2.1		Sand Blast, Shop Prime and Paint the Architect specification	kg	8061	
		of steelwork included under items 4.1			
4,	3	TRANSPORT			
4.3.1		Delivery, including offloading and stacking on site, of	kg	8061	
4,	4	ERECTION			
4.4.1		Erection of steelwork included under items 4.1	kg	8061	
		including all lifting and positioning at required elevations.			
		Carried Forward to Summary			

Contract : Watt Street PEU					
SUMMARY OF SECTIONS					
Section	Description	Amount R			
13.00	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
14.00	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL				
15.00	ACCOMMODATION OF TRAFFIC				
16.00	OVERHAUL				
17.00	CLEARING AND GRUBBING				
PSC17-2	PSC EXISTING ROAD MATERIALS				
21.00	DRAINS				
22.00	PREFABRICATED CULVERTS				
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
33.00	MASS EARTHWORKS				
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
35.00	STABILIZATION				
38.00	BREAKING UP EXISTING PAVEMENT LAYERS				
41.00	PRIME COAT				
42.00	ASPHALT BASE AND SURFACING				
52.00	GABIONS				
56.00	ROAD SIGNS				
57.00	ROAD MARKINGS				
58.00	LANDSCAPING AND PLANTING PLANTS				
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
73.00	CONCRETE BLOCK PAVING FOR ROADS				
81.00	TESTING MATERIALS AND WORKMANSHIP				
PSC1	PROVISIONAL SUM				
PSC2	SMME's				
	SUBTOTAL SCHEDULE A				
STRUCTURAL	BOQ				
	EARTHWORKS AND DEMOLITION				
	CONCRETE				
	ROOF AND CLADDING				
	STEELWORKS				
	SUBTOTAL SCHEDULE B				
	SUBTOTAL SCHEDULE (A + B)				
	Add 15% VAT				
	TOTAL				