

SUMMARY OF BILL OF QUANTITIES

Section

1	PRELIMINARY AND GENERAL		R	
	AA PRELIMINARIES	R		
	AB GENERAL SPECIFICATIONS	R		
	AH OCCUPATIONAL HEALTH and SAFETY	R		
2	SITE CLEARANCE		R	
	B SITE CLEARANCE	R		
3	EARTHWORKS		R	
	DA EARTHWORKS : BULK	R		
	DD EARTHWORKS FOR STRUCTURES	R		
	EL DUMPROCK SUBGRADE IMPROVEMENT	R		
4	ROADWORKS		R	
	EB GRADED CRUSHED STONE	R		
	ED ROAD ASPHALT	R		
5	STORMWATER DRAINAGE		R	
	DB EARTHWORKS FOR PIPE TRENCHES	R		
	EF KERBS AND HAUNCHES	R		
	PG NON PRESSURE PIPELINES and PC CULVERTS	R		
	PH MANHOLES and APPURTENANT DRAINAGE WORKS	R		
6	PROTECTION WORKS		R	
	EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	R		
	F PROTECTION WORKS	R		
7	CONCRETE WORKS		R	
	C CONCRETE WORK	R		
8	ROAD SIGNS AND MARKINGS		R	
	TA ROAD SIGNS	R		
	TB ROAD MARKINGS	R		
SUB TOTAL			R	
ADD VAT (15%) - (only if a registered VAT Vendor)			R	
TOTAL CARRIED TO FORM OF TENDER			R	

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 PRELIMINARY AND GENERAL

PART	AA	PRELIMINARIES	
PART	AB	GENERAL SPECIFICATIONS	
PART	AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY

SECTION 2 SITE CLEARANCE

PART B	SITE CLEARANCE	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY**SECTION 3 EARTHWORKS**

PART	DA	EARTHWORKS : BULK	
PART	DD	EARTHWORKS FOR STRUCTURES	
PART	EL	DUMPROCK SUBGRADE IMPROVEMENT	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY**SECTION 4 ROADWORKS**

PART	EB	GRADED CRUSHED STONE	
PART	ED	ROAD ASPHALT	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY**SECTION 5 STORMWATER DRAINAGE**

PART	DB	EARTHWORKS FOR PIPE TRENCHES	
PART	EF	KERBS AND HAUNCHES	
PART	PG	NON PRESSURE PIPELINES and PC CULVERTS	
PART	PH	MANHOLES and APPURTENANT DRAINAGE WORKS	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY**SECTION 6 PROTECTION WORKS**

PART	EH	STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	
PART	F	PROTECTION WORKS	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY

SECTION 7 CONCRETE WORKS

PART C	CONCRETE WORK	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 8 ROAD SIGNS AND MARKINGS

PART	TA	ROAD SIGNS	
PART	TB	ROAD MARKINGS	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL****PART AA PRELIMINARIES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	GCC 2015	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA.	sum	1		
2	GCC 2015	Time Related Obligations	sum	1		
3	SANS 1921-1	SANS 1921-1 : GENERAL ENGINEERING AND CONSTRUCTION WORKS IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS	sum	1		
4	GCC 2015	Time Related Obligations	sum	1		
5	C.1.2.3.1	COMMUNITY LIAISON OFFICER Allow for CLO to be appointed and monthly submission of proof of employment and payment for CLO.	PC Sum	220000	1.00	220,000.00
6	C.1.2.3.1	Handling Cost for COMMUNITY LIAISON OFFICER	%	220000		
7	C.1.2.3.2	LOCAL LABOUR Allow for the weekly submission of proof of employment of local labour	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2; PS.AB.1.1	FIXED CHARGES Offices for Engineer and Staff	sum	1		
2	AB.2; PS.AB.1.1	Services Connection Fee (electrical / water / telephone) (Provisional)	PC sum	5000	1.00	5,000.00
3	AB.2; PS.AB.1.1	Handling fee for Services Connection	%	5000		
4	AB.2; PS.AB.1.1	Attendance on and Maintenance of Office for Engineer and Staff	sum	1		
5	PS.AB.1.2, AB.4	Contractor's Camp Site/Store Yard	sum	1		
6	PS.AB.4, AB.5	Notice Board	sum	1		
7	AB.7, PS.AB.3	Road Deviations	sum	1		
8	AB.7 PS.1	Initial supply of all Signs, Barricades and Delineators	sum	1		
9	AB.7, PS.1	Maintenance of Pedestrian and Traffic Facilities	sum	1		

Upgrading of 108097 Road - Ward 84

Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
10	AB.7, PS.1.3.2	Maintenance of all Signs, Barricades and Delineators	sum	1		
11	PS.AB.7	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
12	PS.13	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
13	AB.6 GCC.23	Allow the following items which the tenderer required to be priced seperately	sum	1		
14		a)	sum	1		
15		b)	sum	1		
16		c)	sum	1		
17	PS.AB.5	Allow for Progress Photographs	PC sum	6000	1.00	6,000.00
18	PS.AB.5	Handling cost for Progress Photographs (Provisional Sum)	%	6000		
19	PS.AB.10	Survey For Engineer	PC Sum	80000	1.00	80,000.00
20	PS.AB.10	Handling cost for Survey For Engineer	%	80000		
21	PS.6.1	Contractor's Compensation for restrictive works around Electrical Light Poles	sum	1		
22	PS.6.2	Repair, replacement or relocation of Electrical Street Lighting	PR Sum	300000	1.00	300,000.00
23	PS.6.2	Handling cost for repair, replacement or relocation of Electrical Street Lighting	%	300000		
24	PS.9.4	Environmental Control Officer Services	PC Sum	100000	1.00	100,000.00
25	PS.9.4	Handling cost for Environmental Control Officer Services	%	100000		
26	PS.AB.14	Incidental Expense	PR Sum	1800000	1.00	1,800,000.00
27	PS.11	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	sum	1		
28	PS.AB.11; DA.3, DB.3	Seismic Velocity Testing of soils on site by Specialised Laboratory	PC Sum	15000	1.00	15,000.00
29	PS.AB.11; DA.3, DB.3	Handling cost for Seismic testing	%	15000		
30	PS.AB.12	Ad-hoc Adjudication: Employer's Contribution	PC Sum	25000	1.00	25,000.00
31	PS.AB.12	Handling cost for Ad-hoc Adjudication	%	25000		
32	PS.AB.8	Protection of Dwellings, Businesses and Private Properties	sum	1		

Upgrading of 108097 Road - Ward 84

Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
33	PS.4	Repairs to Sewer and ancillary works	PR Sum	20000	1.00	20,000.00

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1 PS.10	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2 PS.10	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3 PS.10	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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Upgrading of 108097 Road - Ward 84

SECTION 2 SITE CLEARANCE**PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing in road reserve	m2	7800		
2	B.8.14 PS.B.1 PS.14	Removal of existing asphalt roadways to tip as directed by Engineer on site	m3	500		
3	B.8.4 PS.B.2	Removal of trees of girth exceeding 0,250m as directed by Engineer on site	no.	2		
4	B.8.9 PS.B.3 PS.14	Removal of brickwork as directed by Engineer on site	m3	8		
5	B.8.10 PS.B.5 PS.14	Removal of existing damaged unreinforced concrete roadway to tip as directed by Engineer on site	m3	250		
6	B.8.11 PS.B.5 PS.14	Removal of existing damaged reinforced concrete roadway to tip as directed by Engineer on site	m3	250		
7	B.8.16 PS.B.4 PS.14	Removal of existing damaged kerb and channel/fillet to tip as directed by Engineer on site	m	20		
8	PS.B.6 PS.14	Removal of existing damaged concrete v-drain to tip as directed by Engineer on site	m	350		
9	PS.4.2, PS.5.2	Flushing out and cleaning of existing Sewer and Stormwater pipes and manholes	m	350		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE

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SECTION 3 EARTHWORKS**PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3 PS.DA.4/5	Excavate soft material to spoil	m3	4800		
2	DA.8.3 PS.DA.4/5	Extra over above Item 1 for excavation of intermediate material to spoil	m3	1440		
3	DA.8.3 PS.DA.4/5	Extra over above Item 1 for excavation in hard material to spoil	m3	960		
4	DA.8.3 PS.DA.4/5	Extra over above for excavation of boulders greater than 0,15 m3 to spoil - Provisional	m3	150		
5	AA.DA.5 PS.DA.6	Import and process suitable G7 material from contractor's off-site source inclusive of haulage and royalties	m3	1100		
6	DA.8.5 PS.DA.8	Compact imported G7 material to 95% Mod. A.A.S.H.T.O.	m3	1100		
7	DA.8.9 PS.DA.9	Formation	m2	7300		
8	DA.8.6 PS.DA.7	Trimming of embankments	m2	4500		
9	PS.ED.13	Allow for testing of subgrade by a SANAS accredited Specialist Materials Testing Laboratory as directed by Engineer on Site	PC Sum	5000	1.00	5,000.00
10	PS.ED.13	Handling fee for testing of subgrade	%	5000		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8 PS.F.3 PS.DA.4 PS.14	Excavate in all material for Geolok retaining wall to spoil at tip and as directed by Engineer on Site	m3	235		
2	DD.8.2 PS.F.7 PS.DA.4 PS.14	Excavate in all material for gabion reno mattresses at headwall outlets to spoil at tip by Engineer on Site	m3	6		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

PART EL DUMPROCK SUBGRADE IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8	Dumprock subgrade improvement, 500 mm thick - Provisional	m3	300		
2	PS.DA.[15]	Supply and place general grade geofabric, A5 or similar approved - Provisional	m2	600		

Part Continued **PART** **EL DUMPROCK SUBGRADE IMPROVEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
3	PS.DA.[19]	200mm G5 layer on top of Dumprock - Provisional	t	300		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

Upgrading of 108097 Road - Ward 84

SECTION 4 ROADWORKS**PART EB GRADED CRUSHED STONE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EB.8(1), PS.EB.1	Graded crushed stone G2, 150 mm thick compacted to 98% Mod.A.A.S.H.T.O	m3	1050		
2	EB.8(1), PS.EB.2	Graded crushed stone G5, 150 mm thick compacted to 95% Mod.A.A.S.H.T.O	m3	1100		
3	EB.8(2) PS.EB.3	Prime coat @ 0.6 l/m2	m2	6800		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

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PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EB.1-10	40mm Asphalt Private Plant Sa-H10. Bitumen content % as per mix design entered at time of use	t	650		
2	PS.ED.6	Saw Cut existing road edge	m	350		
3	ED.8.4 PS.ED	Tack coat @ 0.3litres/m2	m2	6900		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

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SECTION 5 STORMWATER DRAINAGE**PART DB EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.5 PS.DB.1/2/3/4/ 6/9	Excavate and backfill in all material for 450mm diameter concrete pipe where depth is:- - Over 0,0 m and not exceeding 1,5 m	m	400		
2	DB.8.5 PS.DB.1/2/3/4/ 6/9	Excavate and backfill in all material for 450mm diameter concrete pipe where depth is:- - Over 1.5 m and not exceeding 2.0 m	m	400		
3	DB.8.5 PS.DB.1/2/3/4/ 6/9	Excavate and backfill in all material for 600 mm diameter pipe where depth is :- - Over 1,5 m and not exceeding 2,0 m	m	100		
4	DB.8.10 PS.DB.1	Supply, placing and compacting of Class C pipe bedding.	m	750		
5	DB.8.10 PS.DB.1	Supply, placing and compacting of Class B pipe bedding.	m	150		
6	DB.8.5	Excavate and backfill in all material for 100 - 200mm diameter subsoil pipe where depth is :- - Over 0,0 m and not exceeding 1,5 m	m	1800		
7	DB.8.5	Excavate and backfill in all material for 100 - 200mm diameter subsoil pipe where depth is :- - Over 1,5 m and not exceeding 2,0 m	m	700		
8	DB.8.6	Extra over items 1 and 2 for intermediate material (Provisional)	m3	20		
9	DB.8.6	Extra over items 1 and 2 for hard material (Provisional)	m3	30		
10	DB.8.9	Provision of clean coarse sand for pipe bedding from commercial or off-site source	m3	180		
11	DB.8.10	Placing and compacting of flexible pipe bedding.	m	2500		
12	DB.8.13	Provision of selected granular backfill material for pipe trenches from commercial or off-site source	m3	550		
13	DB.8.9	Provision of 19 mm stone material for subsoil drain from commercial or off-site source	m3	400		
14	DB.8.13	Provision of clean coarse sand for subsoil drain from comercial source, including haulage.	m3	450		
15	PS.DB.11	Provision of drainage grade geofabric	m2	4500		
16	DA.8.10	Proving of existing services by hand excavation(provisional), where depth is :- Over 0.0m and not exceeding 1.5m	m3	25		

Upgrading of 108097 Road - Ward 84

Part Continued **PART** DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
17	DA.8.10	Proving of existing services by hand excavation(provisional), where depth is :- Over 1,5m and not exceeding 2m	m3	30		

TOTAL CARRIED TO SECTION 5 SUMMARY: STORMWATER DRAINAGE

R

PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EF.[14]	Figure 12 kerb with edge restraint	m	1300		

TOTAL CARRIED TO SECTION 5 SUMMARY: STORMWATER DRAINAGE

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	450 mm diameter concrete Class 100D	m	800		
2	PG.8.2	600 mm diameter concrete Class 100D	m	100		
3	PG.8.11	160 mm diameter U.P.V.C. cable ducts	m	50		
4	PG.8.11	110 mm diameter U.P.V.C cable ducts	m	50		
5	PS.PG [2], PS.PG[4]	110mm diameter perforated subsoil pipes	m	2500		
6	PS.PG [3]	110mm diameter stub at manholes	no.	22		
7	PG.8.5	Construction of anchor blocks using Grade 15/26 concrete	no.	68		

TOTAL CARRIED TO SECTION 5 SUMMARY: STORMWATER DRAINAGE

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PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PH.8.2	Standard manhole with heavy duty concrete cover. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	11		
2	PH.8.2	Standard manhole with heavy duty concrete cover. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	8		
3	PH.8.3 PS.PH.1-6	Standard manhole with heavy duty inlet type cover S1. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	5		
4	PH.8.3 PS.PH.1-6	Standard manhole with heavy duty inlet type cover S1. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	2		
5	PH.8.2	Standard manhole with heavy duty inlet type cover S2. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	2		
6	PH.8.3 PS.PH.1-6	Standard manhole with heavy duty inlet type cover S2. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	2		

Upgrading of 108097 Road - Ward 84

Part Continued **PART** PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
7	PH.8.2	Standard manhole with heavy duty inlet type cover S3. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	1		
8	PH.8.3 PS.PH.1-6	Standard manhole with heavy duty inlet type cover S3. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	1		
9	PH.8.2	Standard manhole with heavy duty inlet type cover D3. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	1		
10	PH.8.2	Standard manhole with heavy duty inlet type cover V2. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	2		
11	PH.8.3 PS.PH.7	Construct Type B outlet headwall as per drawing no.48500	no.	7		
12	F.8.5, PS.F.[17]	Construct 3.0m wide concrete V-drains for access road, including formation, backfill and compaction, grade 25/26 concrete, reinforcement and shuttering [as per drawing 48500]	m	600		
13	F.8.5, PS.F.[17]	Shaping of V-drain around inlets with grade 25/26 concrete	m3	25		
14	F.8.5	Construct 600mm wide concrete V-drains, including formation, backfill and compaction, grade 25/26 concrete, reinforcement and shuttering [as per drawing 48500]	m	1300		

TOTAL CARRIED TO SECTION 5 SUMMARY: STORMWATER DRAINAGE

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SECTION 6 PROTECTION WORKS**PART EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EH.8.1	Supply and install concrete posts - Provisional	no.	85		
2	EH 8.1	Supply and install straight steel guard rails - Provisional	m	300		
3	EH.8.1	End wings - Provisional	no.	6		
4	EH 8.1	Bull nose - Provisional	no.	0		

TOTAL CARRIED TO SECTION 6 SUMMARY: PROTECTION WORKS

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PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1 PS.F.1	Import topsoil: thickness 100 mm	m2	1000		
2	F.8.3 PS.F.9	Grass sodding	m2	1000		
3	F.8.6 PS.F.7	Gabion mattresses, 300 mm thick	m3	6		
4	PS.F.4	Geofabric	m2	145		
5	Drawing 48500 Sht 2	Concrete driveway access slabs 70 x 1500mm [Refer to Drawing 48500]	no.	15		

TOTAL CARRIED TO SECTION 6 SUMMARY: PROTECTION WORKS

R

SECTION 7 CONCRETE WORKS**PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.C.1-5, PS.C.8, C.1.8	Base type A including mesh ref.245, excavation and compaction of sub-grade to 95% Mod. A.A.S.H.T.O	m	140		
2	PS.C.1-5, PS.C.8, C.1.8	Base type B including mesh ref.245, excavation and compaction of sub-grade to 95% Mod. A.A.S.H.T.O	m	300		
3	PS.C.1-5, PS.C.8, C.1.8	Base type C including mesh ref.245, excavation and compaction of sub-grade to 95% Mod. A.A.S.H.T.O	m	40		
4	PS.C.1-5, PS.C.8, C.1.8	Supply and place grade 15/26 mass concrete in and between top row of blocks	m3	45		
5	PS.C.8	Supply and lay Geolok block (or approved equivalent) inclusive of sand filling as per detail	m2	170		
6	PS.DD.3, PS.C.8	Supply and lay Geolok block (or approved equivalent) inclusive of 500mm cement stabilised fill behind and in the blocks as per detail.	m2	550		
7	PS.C.6	Supply and lay 50mm diameter PVC weepholes inclusive of no fines plug.	no.	100		
8	Dwg.48500 Sht 8	Supply and lay 110mm diameter perforated drainage pipe	m	550		
9	PS.DB.17	Supply and lay 150mm layer 19mm stone behind stabilised fill from an approved commercial source.	m3	90		
10	PS.DB.11	1300mm wide geofabric extending into fill laid under 3rd row. (Kaymat U44 or approved equivalent).	m2	680		
11	PS.C.1-5, C.8.1	Supply and install 'LG Green SWC 6' or similar approved precast concrete dish drain behind retaining wall	m	500		
12	PS.DB.11	Geofabric placed behind wall and wrapped around drainage pipe (Kaytech Flowdrain Flownet 500 or approved equivalent)	m2	1000		

TOTAL CARRIED TO SECTION 7 SUMMARY: CONCRETE WORKS

R

Upgrading of 108097 Road - Ward 84

SECTION 8 ROAD SIGNS AND MARKINGS**PART TA ROAD SIGNS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TA.8.1 PS.TA	Supply and erect road sign boards, area not exceeding 2m2	m2	6		
2	TA.8.2 PS.TA	Supply and erect standard 76mm diameter hotted dipped galvanised road name sign supports. Rate to include haulage.	no.	17		
3	TA.8.3 PS.TA	Excavate and backfill for road sign supports	m3	3		
4	TA.8.4 PS.C.1/2/3/4/5 /6/7/8	Supply and place grade 20/19 concrete for road sign footings	m3	3		

TOTAL CARRIED TO SECTION 8 SUMMARY: ROAD SIGNS AND MARKINGS

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PART TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1 PS.TB	Painted road lines 150mm wide (white), including setting out and premarking	m	15		
2	TB.8.1.1 PS.TB	Painted road lines 300mm wide (white), including setting out and premarking	m	15		
3	TB.8.1.2 PS.TB	Road Marking for lettering, symbols and traffic islands (white), including setting out lettering, symbols and traffic island markings.	m2	6		

TOTAL CARRIED TO SECTION 8 SUMMARY: ROAD SIGNS AND MARKINGS

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