

include full compensation for the handling costs of the Contractor, and the profit in connection with the provision of the training in generic skills, entrepreneurial skills and construction skills respectively, including for the costs of record keeping and reporting with respect to the training received by each learner, and the costs of the compilation of the portfolio of evidence with respect to each Targeted Enterprise subcontractor.

The provisional sum for subitem F10.03(d)(i) is provided to cover all costs related to the transportation and accommodation costs of selected learners only, while receiving off-site training, where such learners have been specifically selected in conjunction with the Employer's Agent to receive such off-site training and where such training cannot be delivered using the training venue facility provided by the Contractor.

The tendered percentage for subitem F10.03(d)(ii) is the percentage of the amount actually spent under subitem F10.03(d)(i), and shall include full compensation for the handling costs of the Contractor, and the profit in connection with the transportation and accommodation costs of selected learners only, while receiving off-site training.

BILL OF QUANTITIES PART F: SMALL CONTRACTOR DEVELOPMENT

SMALL CONTRACTOR DEVELOPMENT

SCHEDULE A - ROADWORKS

SCHEDULE A: ROADWORKS					CHAPTER C1.3
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS				
C1.3.1	The Contractor's general obligations				
C1.3.1.1	Fixed obligations	Lump Sum	*		
C1.3.1.3	Time-related obligations	month	*		
C1.3	TOTAL CARRIED FORWARD TO SUMMARY				

*Dependant on each package

SCHEDULE A: ROADWORKS					CHAPTER C1.6
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C1.6	CLEARING AND GRUBBING				
C1.6.1	Clearing				
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	0.75		
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha	0.50		
C1.6.1.3	Clearing for new fence lines (over a width of 2,0 m)	km	1.30		
C1.6.2	Grubbing				
C1.6.2.1	Clearing with machines and some hand labour where necessary	ha	0.75		
C1.6.2.2	Clearing with hand labour only when labour enhanced work is specified or it is not practical to use a machine	ha	0.50		
C1.6.2.3	Grubbing by hand for new fence lines (over a width of 2,0 m)	km	1.30		
C1.6.3.1	Removal and grubbing of large trees and tree stumps:				
C1.6.3.1	Girth equal to or exceeding 1,0 m up to and including 2,0 m	No	10		
C1.6.3.2	Girth exceeding 2,0 m up to and including 3,0 m	No	5		
C1.6.3.3	Girth exceeding 3,0 m	No	3		
C1.6.9	Conservation of topsoil				
C1.6.9.1	Stockpiling topsoil	m ³	745		
C1.6.10	Disposal of hazardous waste material:				
C1.6.10.1	Disposal of hazardous waste material at an approved hazardous waste material facility	Prov Sum	50 000	1	R 50 000.00
C1.6.10.2	Handling cost, profit and all other charges in respect of item C1.6.10.1	%	50 000.00		
C1.6	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C1.7
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C1.7	LOADING AND HAULING				
C1.7.2	Hauling				
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil or stockpile are:				
(b)	Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m ³ - km	15 000		
C1.7	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C3.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C3.1	DRAINS				
C3.1.4	Excavation and disposal of material for subsoil drainage systems				
C3.1.4.2	Excavating soft material situated within 0m to 1.5m below the surface level using labour enhanced construction methods	m ³	311		
C3.1.4.3	Excavating intermediate material situated within 0m to 1.5m below the surface level using labour enhanced construction methods	m ³	31.10		
C3.1.4.4	Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth	m ³	31.10		
C3.1.5	Impermeable backfilling to subsoil drainage system				
C3.1.5.2	G5 material obtained from commercial sources	m ³	66		
C3.1.7	Natural permeable material in subsoil drainage system (approved crushed stone):				
C3.1.7.2	Crushed stone obtained from commercial sources (19mm stone)	m ³	55		
C3.1.8	Natural permeable material in subsoil drainage system (approved natural sand)				
C3.1.8.2	Natural sand from commercial sources (course)	m ³	164		
C3.1.9	Pipes in subsoil drainage systems :				
C3.1.9.1	U-PVC pipes and fittings, normal duty, complete with coupling (150mm internal dia. perforated)	m	682		
C3.1.11.	Geotextile (Synthetic-fibre filter fabric, Grade 2)				
		m ²	1 095		
C3.1	TOTAL CARRIED FORWARD TO NEXT PAGE				

SCHEDULE A: ROADWORKS					CHAPTER C3.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE					
C3.1.13	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
C3.1.13.1	Outlet structures (as per STD detail SD501/A)	No	4		
C3.1.14	Caps for subsoil drain pipe :				
C3.1.14.1	Concrete caps	No	4		
C3.1.16	Loading and hauling of material in excess of 1.0km	m ³ -km	6 220		
C3.1	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C3.2
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C3.2	CULVERTS				
C3.2.1	Excavation for culvert structures: Excavating in all material situated within the following depth ranges below the surface level:				
C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:	m ³	735		
(a)	0m to 1.5m				
(b)	Exceeding 1.5m and up to 3.0m	m ³	77		
(c)	Exceeding 3.0m	m ³	25.50		
C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth	m ³	200		
C3.2.2	Backfilling:				
C3.2.2.1	Using the excavated material	m ³	185		
C3.2.2.2	Using imported selected material:				
(a)	From commercial sources (clean course sand)	m ³	521		
C3.2.3	Concrete Pipe Culverts:				
C3.2.3.3	On class C bedding (Spigot and socket)				
(a)	600mm dia. Class 100D	m	465		
C3.2.22	Cutting of concrete pipes (diameter included)				
(a)	600m	No	20		
C3.2.24	Compaction of bedding for inlets, outlets, manholes and catchpits:				
C3.2.24.1	Preparation and compaction of insitu bedding material to 90 % MOD (depth)	m ³	5		
C3.2	TOTAL CARRIED FORWARD TO NEXT PAGE				

SCHEDULE A: ROADWORKS					CHAPTER C3.2
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE					
PC3.2.54	Manholes, catchpits, precast inlet and outlet structures complete				
(a)	Headwalls				
	(ii) Headwalls (Masonry) 600 dia. as per std detail SD 0406	No	2		
(b)	Inlets				
	(ii) Side Inlets as per Detail SD0703/A	No	16		
C3.2	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C3.3
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS				
C3.3.2	Concrete kerbing-channeling combination:				
C3.3.2.1	Prefabricated kerbing-channeling (description of type of channel and bedding with reference to drawing)				
(a)	SABS 927 fig 6 392mm wide channeling/fillet grade 20Mpa concrete channel (complete as per std. detail SD 0701/A)	m ³	1 100		
C3.3.3	Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves				
C3.3.3.1	On curves of radii more than or equal to 5,0 m but less than 20 m	m	50		
C3.3.4	Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways	m	50		
C3.3.8	Linings for open drains				
C3.3.8.1	Cast in situ concrete lining as per std. detail SD 0802/1 - Trapezoidal drain	m	30		
C3.3	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C4.2
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C4.2	CUT MATERIALS				
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from				
C4.2.9.1	Soft excavation, overburden and unsuitable material	m ³	2 163		
C4.2.9.2	Boulder excavation class A	m ³	271		
C4.2.9.4	Hard excavation (other than by blasting)	m ³	271		
C4.2.10	Backfilling of the unavoidable overbreak in hard and boulder excavation				
C4.2.10.1	Compliant gravel material	m ³	100		
C4.2.12	Finishing the side slopes				
C4.2.12.1	Cuttings:				
(a)	In soft material	m ²	290		
C4.2	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C4.4
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C4.4	COMMERCIAL MATERIALS				
C4.4.2	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers				
C4.4.2.1	Pavement layer material:				
(b)	Type G2 material	m ³	751		
(h)	Type G6 material FOR C4	m ³	740		
(i)	Type G7 material	m ³	975		
(k)	Type G7 material	m ³	780		
C4.4.2.5	Fill material in the earthworks:				
(a)	Normal or coarse fill	m ³	529.10		
(b)	Rock fill	m ³	100		
C4.4.4	Cementitious stabilising agents				
C4.4.4.2	Road lime	t	125		
C4.4.7	Sampling and material testing by a commercial laboratory for the stabilisation designs				
C4.4.7.1	Cost of sampling and material testing	Prov Sum	50 000	1	R 50 000.00
C4.4.7.2	Handling cost and profit in respect of item C4.4.7.1	%	50 000.00		
C4.4	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C5.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C5.1	ROADBED				
C5.1.1	Roadbed construction and compaction				
C5.1.1.3	Compaction of imported material to 90% of MDD	m ³	510		
C5.1.4	Removal of unsuitable material to spoil				
C5.1.4.1	In layer thicknesses of 200mm and less				
(a)	Stable material	m ³	30		
(b)	Unstable material	m ³	30		
C5.1.5	In-situ treatment of roadbed in hard material				
C5.1.5.1	In-situ treatment by ripping	m ³	150		
C5.1.5.2	In-situ treatment by ripping and blasting	m ³	50		
C5.1	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C5.2
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C5.2	FILL				
C5.2.2	Fill construction				
C5.2.2.1	Normal fill material in compacted layer thicknesses of 200 mm and less:				
(a)	Compacted to 90% MDD	m ³	529.10		
C5.2.2.4	Rock fill material all as per Clause A5.2.7.6	m ³	100		
C5.2.5	Fill in sidewalk				
C5.2.5.1	Fill material in sidewalk compacted to 93 % of MDD	m ³	200		
C5.2.11	Finishing off fill slopes, medians and interchange areas				
C5.2.11.1	Fill slopes	m ²	1 740		
C5.2	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C5.3
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C5.3	ROAD PAVEMENT LAYERS				
C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers	No	7		
C5.3.2	Construction of pavement layers				
C5.3.2.1	Construction of layers using conventional construction methods:				
(a)	Lower selected subgrade layer (150mm G7) compacted to 93% of MDD	m ³	780		
(c)	Upper selected subgrade layer (150mm G7) compacted to 95% of MDD	m ³	775		
(k)	Upper subbase gravel layer stabilised) 150mm G6) compacted to 97% of MDD	m ³	740		
(y)	G2 crushed stone base layer (37mm nominal maximum size stone 150mm thick to road layers) compacted to 102% of MDD	m ³	751		
(z)	G2 crushed stone base layer (37mm nominal maximum size stone 100mm thick to 1,5m sidewalk) compacted to 102% of MDD	m ³	95		
C5.3	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C5.4
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C5.4	STABILISATION				
C5.4.2	Chemical stabilisation				
C5.4.2.1	Chemical stabilisation (150mm thick) of pavement layers (layer to be stabilised indicated)	m ³	740		
C5.4.5	Cementitious stabilisation agents for pavement layers				
C5.4.5.1	Addition of cementitious stabilisation agents (specify agent separately) for pavement layers				
(b)	Road Lime (for 150mm C4 subbase layer)	t	125		
C5.4.10	Provision and application of water for curing	kℓ	1 200		
C5.4.11	Curing by covering with subsequent layer	m ²	4 550		
C5.4	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C8.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C8.1	PRIME COAT				
C8.1	Prime Coat:				
C8.1.1.2	MC – 30 cut back bitumen	ℓ	4 550		
C8.1.2	Aggregate for blinding				
C8.1.2.1	Natural sand	m ³	341.25		
C8.1.3	Extra over item C8.1.1 for applying the prime coat accessible only to hand-held or light equipment	ℓ	464		
C8.1	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER 9.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C9.1	ASPHALT LAYERS				
C9.1.1	Asphalt mix designs				
C9.1.1.1	Stone skeletal mixes:				
(a)	Continuously graded base or surfacing (state binder type and level of design)	Lump sum	2		
C9.1.2	Construction of trial sections				
C9.1.2.1	Asphalt layers (state mix type, layer thickness and placing technique (hand/paver))				
(a)	40mm Continuously Graded, medium	m ²	740		
C9.1.2.2	Removal of trial section where so instructed by the Engineer	m ²	740		
C9.1.3	Application of bond coat				
C9.1.3.1	Stable grade 30% net bitumen emulsion as specified. Applied with a calibrated distributor	ℓ	407		
C9.1.3.2	Applied in restricted areas using a portable pressure sprayer	ℓ	20		
C9.1.3.3	Applied by hand using brushes on all exposed transverse and longitudinal construction joints	ℓ	20		
C9.1.5.	Asphalt surfacing				
C9.1.5.1	New construction				
(a)	Stone skeletal mix				
	(i) 40mm Continuously graded, medium	m ²	4 550		
	(ii) 25mm thick asphalt sidewalk continuously graded fine (with approved herbicide - 2m wide)	m ²	1 760		
C9.1.7	Placing and compacting asphalt in restricted areas				
C9.1.7.1	Extra over payment item C9.1.4.1 and C9.1.5.1 40mm thick continuously graded, (hand/paver))	m ²	100		
C9.1	TOTAL CARRIED FORWARD TO NEX PAGE				

SCHEDULE A: ROADWORKS					CHAPTER C9.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE					
C9.1.10	Variation Rates				
C9.1.10.1	Bitumen binder (50/70 per bitumen)	t	1		
C9.1.10.6	Bituminous bond coat – net bitumen (state hype)	t	1		
C9.1.13	Coring of asphalt layers				
C9.1.13.1	100mm diameter	No	50		
C9.1.13.2	150mm diameter	No	10		
C9.1	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C11.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.1	PITCHING, STONEMWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION				
C11.1.1	Foundation trenches for stone masonry walls				
C11.1.1.1	Excavating foundation trenches in soft material using labour enhanced construction methods 0 m to 1,0 m depth	m ³	5		
C11.1.1.2	Excavating foundation trenches in intermediate material using labour enhanced construction methods 0 m to 1,0 m depth	m ³	2		
C11.1.2	Stone pitching				
C11.1.2.2	Grouted stone pitching with mortar	m ²	50		
C11.1.2.3	Grouted stone pitching on a concrete bed	m ²	20		
C11.1	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C11.4
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.4	ROAD RESTRAINT SYSTEMS				
C11.4.1	Erecting of guardrails at 3,81 m spacing				
C11.4.1.1	Complete galvanized system compliant to SANS 1350:				
(a)	On timber posts (Drawing reference)	m	500		
(d)	Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate)	m	500		
C11.4.1.2	Terminal sections for 3,81 guardrails comprising of:				
(a)	End wings to SANS 1350	No	10		
(d)	End treatments where single guardrail sections are specified (Drawing reference)	No	10		
(g)	Extra over C11.4.1.2(d) and C11.4.1.2(e) for excavating holes for posts using labour enhanced methods (soft and intermediate)	No	20		
C11.4.4	Extra over for horizontally curved guard rails				
C11.4.4.1	Extra over C11.4.1 and C11.4.11 for horizontally curved guard rails factory bent to a radius of less than 45 m	m	10		
C11.4.5	Additional guardrail posts for 3,81 m systems:				
C11.4.5.1	Timber	No	25		
C11.4.6	Reflective plates				
C11.4.6.1	Steel plates	No	218		
C11.4.14	Nailing of gang nail plates on top of timber guardrail posts	No	250		
C11.4	TOTAL CARRIED FORWARD				

SCHEDULE A: ROADWORKS					CHAPTER C11.6
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.6	ROAD SIGNS				
C11.6.1	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi- matt black or in Class I retro-reflective material, where the sign board is constructed from:				
C11.6.1.3	Prepainted galvanized steel plate:				
(a)	Area 0 to 0,5 m ²	m ²	10		
(b)	Area exceeding 0,5 m ² but not 2,0 m ²	m ²	15		
C11.6.1.8	Regulatory signs, temporary				
(a)	600 mm diameter (signboard material - Steel Plate 1.4mm thick, background - Class I and symbol retro-reflective class III)	No	20		
C11.6.1.10	Warning signs, temporary				
(a)	600 mm diameter (signboard material - Steel Plate 1.4mm thick, background - Class I and symbol retro-reflective class III)	No	20		
C11.6.3	Road sign supports (overhead road sign structures excluded):				
C11.6.3.2	Timber - 150mm dia. CMA treated	m	250		
C11.6.5.1	Excavating soft material and backfilling	m ³	10		
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m ³	10		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m ³	1		
C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m ³	5		
C11.6.8	Danger plates at culverts/structures				
C11.6.8.1	Size 150 x 600 mm (treated timber post with suitable reflective material)	No	4		
C11.6	TOTAL CARRIED FORWARD				

SCHEDULE A: ROADWORKS					CHAPTER C11.7
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.7	ROAD MARKINGS AND ROAD STUDS				
C11.7.2	Retro-reflective road marking:				
C11.7.2.1	White lines broken or unbroken (paint type and width of line indicated)				
	(a) 100mm wide	km	2.0		
	(b) 200mm wide	km	0.3		
	(c) 300mm wide	km	0.3		
C11.7.2.2	Yellow lines broken or unbroken 100mm wide	km	0.5		
C11.7.2.4	White lettering and symbols (paint type indicated)	m ²	10		
C11.7.2.7	Transverse lines, painted island and arrestor bed markings (any colour) (paint type indicated)	m ²	10		
C11.7.7	Road studs				
C11.7.7.2	Permanent road studs compliant to SANS 1463 (RSA-1)				
	(a) White/White	No	10		
	(b) White/Red	No	50		
	(b) Red/Red	No	50		
C11.7.8	Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)	km	2.6		
C11.7.9	Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer	No	1		
C11.7	TOTAL CARRIED FORWARD				

SCHEDULE A: ROADWORKS					CHAPTER C11.8
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.8	LANDSCAPING AND PLANTING PLANTS				
C11.8.1	Trimming:				
C11.8.1.1	Machine trimming	m ²	2 000		
C11.8.1.2	Hand trimming	m ²	500		
C11.8.3	Preparing the areas for grassing:				
C11.8.3.2	Scarifying for loosening topsoil	ha	0.20		
C11.8.3.3	Topsoiling within the road reserve where the following materials are used:				
(a)	Topsoil obtained from within the road reserve or borrow areas	m ³			
(b)	Topsoil obtained from commercial sources by the Contractor	m ³	300		
C11.8.4	Grassing				
C11.8.4.2	Sodding by using the following types of sods:				
(b)	Veld sods	m ²	500		
C11.8.4.3	Hydroseeding:				
(c)	Hydroseeding	ha	0.20		
C11.8.5	Watering the grass when established by topsoiling only	kℓ	1 000		
C11.8.6	Watering the already planted grass, trees and shrubs during the growing season	kℓ	1 000		
C11.8.11	Weeding all grass-seeded areas and the grass when established by topsoiling only	ha	0.2		
C11.8	TOTAL CARRIED FORWARD				

SCHEDULE A: ROADWORKS					CHAPTER C11.9
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
C11.9.1	Finishing the road and road reserve:				
C11.9.1.2	Single carriageway road	Km	0.57		
C11.9.2	Treatment of old roads and temporary deviations:				
C11.9.2.1	Conventional construction methods	km	0.35		
C11.9	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE A: ROADWORKS					CHAPTER C12.6
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C12.6	MECHANICALLY STABILISED FILL AND GABIONS				
C12.6.14	Foundation trench excavation:				
C12.6.14.1	Excavating all material situated within the following depth ranges below the surface level				
(a)	0 m to 1,5 m	m ³	35		
C12.6.14.2	Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	m ³	10		
C12.6.15	Surface preparation for bedding the gabions	m ²	60		
C12.6.16	Gabions and mattresses:				
C12.6.16.1	Galvanized gabion boxes (dimensions of box)				
	(i) Length 1 m, depth 1 m width 1m and nominal diameter of mesh wire 2,7mm, mesh size 80mm x 100mm	m ³	20		
C12.6.16.3	Galvanized gabion mattresses (dimensions of mattress)				
	(i) 0,3 mm deep, width 4 m, length 2m mesh size 80mm x 100mm nominal diameter of mesh size 2,2mm and 1m diaphragm spacing	m ³	15		
C12.6.17	Geotextile - Filter fabric (grade 2 or similar)	m ²	90		
C12.6	TOTAL CARRIED FORWARD				

SMALL CONTRACTOR DEVELOPMENT

SCHEDULE B – BRIDGE WORKS

SCHEDULE B: BRIDGE WORKS					CHAPTER C9.1
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C9.1	ASPHALT LAYERS (ON BRIDGE DECK)				
C9.1.3	Application of bond coat				
C9.1.3.2	Stable-grade 30% net bitumen emulsion applied in restricted areas using a portable pressure sprayer	ℓ	238		
C9.1.8	Surfacing of bridge decks				
C9.1.8.1	Levelling coarse: Continuously graded, medium (50/70 pen. Grade bitumen, design level II or III)	t	21		
C9.1.8.2	Surfacing: 40mm Continuously graded, medium (50/70 pen. Grade bitumen, design level II or III)	t	57		
C9.1.9	Application of rolled in chippings, 14mm				
C9.1.9.1	By means of chip spreader	m2	594		
C9.1	TOTAL CARRIED FORWARD				

SCHEDULE B: BRIDGE WORKS					CHAPTER C13.8
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
C13.8	ANCILLARY STRUCTURAL ELEMENTS				
PC13.8.1	Concrete barriers and parapets				
PC13.8.1.1	In-situ concrete barriers, 850mm high, 525mm wide, F-type barrier, complete as shown on the drawings, concrete class D25/30-20-XC4	m	206		
PC13.8.1.2	In-situ concrete parapets, 1220 high, 525mm wide F-type parapet, complete as shown on the drawings, concrete class D25/30-20-XC4	m	202		
C13.8.2	End blocks				
C13.8.2.1	In-situ concrete F-type end block, 3,5m long, 850mm high, 525mm wide, complete as shown on the drawings, concrete class D25/30-20-XC4	No	2		
C13.8.2.2	In-situ concrete F-type end block, 3,5m long, 1220 high, 525mm wide, complete as shown on the drawings, concrete class D25/30-20-XC4	No	2		
C13.8.2.3	In-situ concrete wall-type end block for pedestrian railing, 1,8m long, 1130 high, 300mm wide, complete as shown on the drawings, concrete class D25/30-20-XC4	No	2		
PC13.8.4	Concrete pedestrian railings, manufactured and installed complete with coping, as shown on the drawings, concrete class D32/40-14-XC4	m	209,40		
C13.8.6	Service ducts in structures				
C13.8.6.1	110 dia heavy duty (Class 12) uPVC pipes	m	422		
C13.8.6.2	Joint in ducts at bridge deck expansion joints	No	8		
C13.8.7	Numbers for structures: (refer to drawings)				
C13.8.7.2	Painted numbers	No	2		
C13.8.7.3	Numbers formed in concrete	No	2		
PC13.8.18	Supplying and installing 600 x 370 x 135 square grid cover for u-channel, concrete class D32/40-14-XC4, incl galvanised reinforcement, as shown on drawing 16	No	239		
PC13.8.19	Supplying and installing galvanised mild steel brackets complete with anchor bolts to fix 100dia steel water pipe to:				
(a)	Abutment wall faces	kg	200		
(b)	Along side-face of precast beams	kg	600		
C13.8	TOTAL CARRIED FORWARD TO SUMMARY				