

SECTION 1: PRELIMINARIES

PARLIAMENTARY VILLAGE						
C1.2 GENERAL REQUIREMENTS AND PROVISIONS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C1.2	GENERAL REQUIREMENTS AND PROVISIONS					
C1.2.1	Environmental Management:					
C1.2.1.1	Monitoring of compliance with and reporting on the EMP		month	6.0		Rate Only
C1.2.1.2	Dedicated environmental officer		month	6.0		
C1.2.4	Stakeholder liaison		month	6.0		Rate Only
C1.2.5	Safety:					
C1.2.5.1	Health and safety plan		lump sum	1.0		
C1.2.5.2	Implementation of health and safety plan		month	6.0		
C1.5.11	Provision of safety equipment for visitors					
C1.5.11.1	Provision of reflective safety vests for visitors		No	25.0		
C1.5.11.2	Provision of hard hats for visitors		No	25.0		
PSC1.2.8	Dayworks:					
C1.2.8.1	Personnel:					
	(a) Unskilled labourer		h			Rate Only
	(b) Semi-skilled labourer		h			Rate Only
	(c) Skilled labourer		h			Rate Only
	(d) Gang leader		h			Rate Only
	(e) Foreman		h			Rate Only
Total Carried Forward						R0.00

PARLIAMENTARY VILLAGE						
C1.2 GENERAL REQUIREMENTS AND PROVISIONS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C1.2.8.2	Construction equipment (specify size and / or model number):					
	(a) Motor grader		h			Rate Only
	(b) Vibratory roller		h			Rate Only
	(c) Pneumatic roller		h			Rate Only
	(d) Front end loader		h			Rate Only
	(e) Tractor loader backhoe		h			Rate Only
	(f) Excavator		h			Rate Only
C1.2.8.3	Vehicles (specify size):					
	(a) Light delivery vehicle		km			Rate Only
	(b) Flatbed truck		km			Rate Only
	(c) Dump truck		km			Rate Only
PSC1.2.10	Community Participation					
	(a) Cost for CLO		Prov sum	4.0	R7,500.00	R30,000.00
	(b) Handling costs and profit in respect of (a) above		%	30,000.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE						
C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
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	1.0		
C1.3.1.3	Time-related obligations		month	6.0		
C1.3.2	Contract Name board		No	1.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE						
C1.4 FACILITIES FOR THE ENGINEER						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C1.4	FACILITIES FOR THE ENGINEER					
C1.4.1	Site accommodation:					
C1.4.1.1	Offices and conference room		m²	130.00		
C1.4.1.6	Car ports		No	6.00		
C1.4.1.7	Ablution unit (equipped as specified)		No	2.00		
C1.4.1.9	Kitchen unit (equipped as specified)		No	1.00		Rate Only
C1.4.1.13	Rented housing paid for by the Contractor		prov sum	1.00	R80,000.00	R80,000.00
C1.4.1.14	Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13		%	80,000.00		
C1.4.3	Items measured by number:					
C1.4.3.1	Office swivel chair		No	2.00		
C1.4.3.2	Office chair		No	6.00		
C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)		No	2.00		
C1.4.3.8	Conference table		No	2.00		
C1.4.3.11	General purpose steel cabinet with shelves		No	1.00		
C1.4.3.13	220 / 250 volt power outlet plug point		No	2.00		Rate Only
C1.4.3.14	400 / 231 volt 3-phase power outlet plug point		No	2.00		Rate Only
C1.4.3.15	Single 1 500 mm, 58 watt fluorescent tube ceiling light		No	4.00		Rate Only
C1.4.3.16	Single 1 500 mm, 22 watt LED tube ceiling light		No	2.00		Rate Only
C1.4.3.19	Wash-hand basin		No	3.00		Rate Only
C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type		No	2.00		Rate Only
C1.4.3.24	Air-conditioning unit		No	4.00		Rate Only
Total Carried Forward						

PARLIAMENTARY VILLAGE C1.4 FACILITIES FOR THE ENGINEER						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C1.4.3.27	Waste paper basket		No			Rate Only
C1.4.3.28	UPS / Voltage stabiliser		No			Rate Only
C1.4.3.29	A3 / A4 colour printer, copier, scanner		No			Rate Only
C1.4.3.30	A4 colour printer, copier, scanner		No	1.00		
C1.4.3.31	Rain gauge		No			Rate Only
C1.4.3.36	Measuring wheel		No			Rate Only
C1.4.3.37	First aid kit		No			Rate Only
C1.4.3.38	Refridgerator		No	1.00		
C1.4.3.39	Microwave oven (28 litre)		No			Rate Only
C1.4.3.40	Electric kettel		No	1.00		
C1.4.4	Prime cost items:					
C1.4.4.1	Cell phones costs, including pro-rata rentals, for calls made in connection with contract administration		PC sum	1.00	R22,000.00	R22,000.00
C1.4.4.2	Handling costs and profit in respect of item C1.4.4.1		%	22,000.00		
C1.4.4.3	The provision of a direct independent telephone line for the Engineer, including the monthly rental charges and the cost of business calls		PC sum	1.00	R30,000.00	R30,000.00
C1.4.4.4	Handling costs and profit in respect of item C1.4.4.3		%	30,000.00		
C1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff		PC sum	1.00	R15,000.00	R15,000.00
C1.4.4.6	Handling costs and profit in respect of item C1.4.4.5		%	15,000.00		
C1.4.4.7	The provision of paper and ink for a combination colour printer / copier / scanner		PC sum	1.00	R150,000.00	R150,000.00
C1.4.4.8	Handling costs and profit in respect of item C1.4.4.7		%	150,000.00		
C1.4.4.9	The provision of a complete 220 / 250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters, etc.		PC sum	1.00	R25,000.00	R25,000.00
C1.4.4.10	Handling costs and profit in respect of item C1.4.4.9		%	25,000.00		
Total Carried Forward						

PARLIAMENTARY VILLAGE C1.4 FACILITIES FOR THE ENGINEER						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						R0.00
C1.4.4.13	Provision of a 440 / 231 volt three phase electricity generator if electricity from a power supply authority is not available on site		PC sum	45,000.00	R1.00	R45,000.00
C1.4.4.14	Handling costs and profit in respect of item C1.4.4.13		%	45,000.00		
C1.4.5	Services at site offices, laboratories and site accommodation:					
C1.4.5.1	Fixed costs		lump sum	1.00		
C1.4.5.2	Running costs		month	6.00		
C1.4.8	Site security measures for the Engineer's facilities:					
C1.4.8.1	Supply and installation of all required security measures at the Engineer's site offices and laboratories		lump sum	1.00		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE						
C1.5 ACCOMMODATION OF TRAFFIC						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C1.5	ACCOMMODATION OF TRAFFIC					
C1.2.3	Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours:					
C1.2.3.1	Grass cutting	LI	ha	1.3		
C1.2.3.2	Drain cleaning	LI	km	3.2		
C1.2.3.3	Cleaning out culverts	LI	m³	26.0		
C1.2.3.4	Collection of rubbish / litter	LI	km	3.0		
C1.2.3.9	Grading of temporary gravel deviations and existing roads used as detours		km	1.0		
C1.2.3.10	Watering of temporary gravel deviations and existing roads used as detours		kℓ	250.0		
C1.2.3.11	Other road maintenance work ordered by the Engineer		prov sum	50,000.0	R1.00	R50,000.00
C1.2.3.12	Handling cost, profit and all other charges in respect of item C1.2.3.11		%	50,000.00		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C1.6 CLEARING AND GRUBBING						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C1.6	CLEARING AND GRUBBING					
C1.6.1	Clearing:					
C1.6.1.1	Clearing with machines and some hand labour where necessary		ha	4.0		
C1.6.2	Grubbing:					
C1.6.2.1	Grubbing with machines and some hand labour where necessary		ha	10.0		
C1.6.3	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	LI	No	4.0		
C1.6.3.2	Girth exceeding 2,0 m up to and including 3,0 m	LI	No	2.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C1.7 LOADING AND HAULING						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C1.7	LOADING AND HAULING					
C1.7.1	Loading:					
C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary		m³			
C1.7.1.2	Loading from heaps or windrows using machines and some hand labour where necessary		m³			
C1.7.2	Hauling:					
<i>C1.7.2.1</i>	<i>Hauling material for use in the Works and off-loading it on the site of the Works:</i>					
	(a) Soil, gravel, crushed stone and pavement layer material		m³-km			
	(b) Boulders and hard material		m³-km			
<i>C1.7.2.2</i>	<i>Hauling material to spoil and off-loading it at a designated spoil area:</i>					
	(a) Cleared and grubbed material (organic matter and all other unsuitable or waste material)		m³-km	33,750.0		
	(b) Soil and gravel material		m³-km			
	(c) Boulders and hard material		m³-km			
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

PRELIMINARIES, GENERAL AND OBLIGATIONS SUMMARY		
SECTION 1	DESCRIPTION	AMOUNT (RAND)
1	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	
1	C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	
1	C1.4 FACILITIES FOR THE ENGINEER	
1	C1.5 ACCOMMODATION OF TRAFFIC	
SUB-TOTAL 1: CARRIED TO FINAL SUMMARY		

SECTION 2: ROADS, PLATFORMS AND STORMWATER

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER C2.1 GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES					
C2.1.1	<i>Location, identification, protection and relocation of existing services:</i>					
C2.1.1.1	Contractor's obligations		lump sum	1.0		
C2.1.1.5	Permanent services relocation or protection work by the Contractor		Prov Sum	1.0		
C2.1.2	<i>Existing services location, detection and verification:</i>					
C2.1.2.1	Using specialist detection services (ground penetrating radar, radio detection etc.)		PC Sum	1	R250,000.00	R250,000.00
C2.1.3	Handling costs and profit in respect of item C2.1.2.1 above		%	250000		
C2.1.2.5	Using hand excavation to locate, expose and verify services		m³	1600		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C3.1 DRAINS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C3.1	DRAINS					
C3.1.1	Excavation for open drains:					
C3.1.1.1	Excavating all material situated within the following depth ranges below the surface level using conventional methods:					
	(a) 0 m to 1,5 m	LI	m³	693.0		
C3.1.1.2	Extra over sub-item C3.1.1.1 for excavation in hard and boulder material irrespective of depth		m³	69.3		
C3.1.1.4	Excavating soft material situated 0 m to 1,5 m below the surface level using labour enhanced construction methods	LI	m³	12.0		
C3.1.2	Clearing, shaping and disposal of accumulated sediment in existing unlined open drains:					
C3.1.2.2	Using labour enhanced construction methods	LI	m³			Rate Only
C3.1.3	Excavation, clearing and disposal of accumulated sediment in existing lined drains and drainage systems:					
C3.1.3.3	Using labour enhanced construction methods:					
	(a) Manholes and inlet and outlet structures	LI	m³			Rate Only
	(b) Culvert barrels	LI	m³			Rate Only
	(c) Concrete or other lined side drains	LI	m³			Rate Only
C3.1.4	Excavation and disposal of material for subsoil drainage systems:					
C3.1.4.1	Excavating in all material situated within the following depth ranges below the surface:					
	(a) 0 m to 1,5 m	LI	m³			Rate Only
	(b) Exceeding 1,5 m and up to 3,0 m		m³			Rate Only
C3.1.4.4	Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth		m³			Rate Only
Total Carried Forward						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C3.1 DRAINS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C3.1.5	Impermeable backfilling to subsoil drainage systems:					
C3.1.5.1	Un-stabilised natural gravel obtained from approved sources on the site		m ³			Rate Only
C3.1.6	Construction of banks and dykes:					
C3.1.6.1	Banks and dykes using conventional methods		m ³			Rate Only
C3.1.7	Natural permeable material in subsoil drainage systems (approved crushed stone):					
C3.1.7.2	Crushed stone obtained from commercial sources (state grade)	LI	m ³			Rate Only
C3.1.8	Natural permeable material in subsoil drainage systems (approved natural sand):					
C3.1.8.2	Natural sand from commercial sources (fine)	LI	m ³			Rate Only
C3.1.9	Pipes in subsoil drainage systems:					
C3.1.9.1	U-PVC pipes and fittings, normal duty, complete with couplings (110mm dia., perforated)	LI	m			Rate Only
C3.1.11	Geotextiles (Grade 2 or similar)	LI	m ²			Rate Only
C3.1.13	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems (refer Standard details):					
C3.1.13.1	Outlet structures	LI	No	4.0		
C3.1.13.4	Cleaning eyes	LI	No			Rate Only
C3.1.14	Caps for subsoil drain pipes:					
C3.1.14.1	Concrete caps	LI	No			Rate Only
C3.1.16	Loading and hauling of material in excess of 1,0 km		m ³ -km			Rate Only
C3.1.22	Test flushing of subsoil drain pipe systems	LI	No			Rate Only
C3.1.23	Subsoil drain outlet marker (type or drawing specified)	LI	No			Rate Only
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C3.2 CULVERTS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C3.2	CULVERTS					
C3.2.1	Excavation for culvert structures:					
C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:					
	(a) 0 m to 1,5 m	LI	m³	360.0		
	(b) Exceeding 1,5 m and up to 3,0 m		m³	90.0		
C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth		m³	54.0		
C3.2.2	Backfilling:					
C3.2.2.1	Using the excavated material	LI	m³	427.5		
C3.2.2.2	Using imported selected material:					
	(a) From commercial sources (G6)		m³			Rate Only
C3.2.2.3	Extra over sub-items C3.2.2.1 and C3.2.2.2 for soil cement backfilling:					
	(b) With dry mixture (specify cement content) of 3 % cement		m³			Rate Only
C3.2.3	Concrete pipe culverts:					
C3.2.3.3	On Class C bedding					
	(iii) Type 100D 525mm dia.		m	240		
	(iv) Type 100D 600mm dia.		m			Rate Only
C3.2.3.4	Concrete box culverts:					
	i) 900mm x 1200mm box culverts		m	18.0		
C3.2.3.5	Provision of skew ends of pipe culvert (Type 100D 900mm dia.)		No			Rate Only
C3.2.7	Cast-in-situ concrete and formwork:					
C3.2.7.2	In complete in-situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (class of concrete indicated) (installed at a standard depth of 1,0 m)	LI	m³	42.0		
C3.2.7.6	Formwork of concrete under items C3.2.7.3 to 5 above (Class F2 finish)	LI	m²	90.6		
Total Carried Forward						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C3.2 CULVERTS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C3.2.10	Reinforcement:					
C3.2.10.3	Welded mesh ref 193	LI	kg	56.0		
C3.2.13	Removing and re-laying existing culverts:					
C3.2.13.1	Removing and stacking existing culverts for re-use (Type 100D 600mm dia.)		m			Rate Only
C3.2.16	Brickwork (engineering bricks):					
C3.2.16.2	230 mm thick	LI	m ²	20.0		
C3.2.17	Plaster	LI	m ²	20.0		
C3.2.18	Benching	LI	m ³	8.0		
C3.2.19	Accessories:					
C3.2.22	Cutting of concrete pipes	LI	No			Rate Only
	Inlet structures complete	LI	No	4.0		
C3.2.24	Compaction of bedding for inlets, outlets, manholes and catchpits:					
C3.2.24.1	Preparation and compaction of in-situ bedding material to 90 % of MDD (depth indicated)	LI	m ³	360.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C3.3 CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, 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) Precast half-battered figure 3 kerb to SANS 927 on 20mm mortar and 20MPa concrete haunching	LI	m	1,320.0		
	(b) Precast tapered figure 14 to SANS 927 on 20mm mortar		m	528		
	(b) Transitional kerbing (as per drawings) with cast in situ class 15/19 concrete	LI	m	8.0		
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	LI	m	68.0		
C3.3.3.2	On curves with radii more than or equal to 1,0 m but less than 5,0 m	LI	m			Rate Only
C3.3.4	Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways	LI	m			Rate Only
C3.3.6	Concrete chutes (typical design):					
C3.3.6.2	Cast-in-situ concrete chutes with class 20/19 concrete.)	LI	m	6.0		
C3.3.8	Linings for open drains:					
C3.3.8.1	Cast Class U2 surface finish ready mix concrete lining class 20/19 concrete per drawing	LI	m ³	72.0		
C3.3.9	Formwork to cast-ready mix concrete lining for open drains (Class F2 surface finish):					
C3.3.9.2	To sides with formwork on both internal and external faces (each face measured)	LI	m ²	30.0		
Total Carried Forward						

PARLIMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER						
C3.3 CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C3.3.9.3	To ends of slabs	LI	m ²			Rate Only
C3.3.10	Sealed joints in concrete and stone pitched linings of open drains (125mm x 10mm "Flexcell" or similar)	LI	m			Rate Only
C3.3.13	Polymer film sheeting (150 micron.) for concrete-lined open drains	LI	m ²			Rate Only
C3.3.16	Demolition and removal of existing kerbs and / or channel	LI	m ³			Rate Only
C3.3.12	Reinforcement:					
C3.3.12.3	Welded mesh ref 193	LI	kg	167.22		
C3.3.15	Energy dissipaters in outlet structures					
C3.3.15.1	Precast concrete blocks in outlet structures		No	18		
C3.3.15.2	Stones set in outlet structures		m ²	38		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C4.2 CUT MATERIALS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C4.2	CUT MATERIALS - ROAD WORKS					
C4.2.7	Removal of unsuitable stable cut material to spoil					
C4.2.7.1	In layer thicknesses of 200 mm and less		m ³			Rate Only
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from					
C4.2.9.1	Soft excavation		m ³	3,704.4		
C4.2.9.2	Boulder excavation class A		m ³	370.4		
C4.2.9.3	Boulder excavation class B		m ³			Rate Only
C4.2.9.4	Hard excavation (other than by blasting)		m ³	185.22		
C4.2.9.5	Hard excavation (by blasting)		m ³	74.1		
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil area:					
	(b) Soil and gravel material		m ³ -km	43,341.5		
Total Carried Forward To Summary						

PARLIMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C4.2 CUT MATERIALS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
C4.2	CUT MATERIALS - PLATFORMS					
C4.2.7	Removal of unsuitable stable cut material to spoil					
C4.2.7.1	In layer thicknesses of 200 mm and less		m ³			Rate Only
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from					
C4.2.9.1	Soft excavation		m ³	1,605.6		
C4.2.9.2	Boulder excavation class A		m ³	160.6		
C4.2.9.3	Boulder excavation class B		m ³			Rate Only
C4.2.9.4	Hard excavation (other than by blasting)		m ³	80.28		
C4.2.9.5	Hard excavation (by blasting)		m ³	32.1		
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil area:					
	(b) Soil and gravel material		m ³ -km	18,785.5		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C4.4 COMMERCIAL MATERIALS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C4.4	COMMERCIAL MATERIALS - ROAD WORKS					
C4.4.1	Commercial materials identified by the Contractor from commercial suppliers					
C4.4.1.1	Pavement layer material:					
	(d) Type G5 material		m³	1,246.1		
	(e) Type G6 material		m³	3,738.4		
	(p) Natural or crushed gravel material for an unsealed shoulder layer		m³			Rate Only
C4.4.1.5	Fill material in the earthworks:					
	(b) Rock fill		m³			Rate Only
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	1.0		
C4.4.7.2	Handling cost and profit in respect of item C4.4.7.1		%	0.00		
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil area:					
	(b) Soil and gravel material		m³-km	49,845.6		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C4.5 INSITU FILL MATERIALS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C4.5	INSITU FILL MATERIALS -- PLATFORMS					
C4.5.1	Utalisation of insitu materialfor construction of Platform Layers compacted to 93% MOD ASSHTO					
C4.5.1.1	Pavement layer material: (e) Type G6 material		m³	3,960.3		
C4.5.1.5	Fill material in the earthworks: (b) Rock fill		m³			Rate Only
C4.5.7	Sampling and material testing by a commercial laboratory for the stabilisation designs:					
C4.5.7.1	Cost of sampling and material testing		prov sum	1.0		
C4.5.7.2	Handling cost and profit in respect of item C4.4.7.1		%	0.00		
C1.7.7.3	Hauling material to spoil and off-loading it at a designated spoil area: (b) Soil and gravel material		m³-km	39,603.5		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C5.1 ROADBED

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C5.1	ROADBED -- ROAD WORKS					
C5.1.1	Roadbed construction and compaction:					
C5.1.1.5	Compaction of in-situ material to 95 % of MDD		m³	2,826.0		
C5.1.11	Construction of roadbed comprising a pioneer layer		m³			Rate Only
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil area:					
	(b) Soil and gravel material		m³-km	28,260.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C5.3 ROAD PAVEMENT LAYERS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C5.3	ROAD PAVEMENT LAYERS					
C5.3.2	Construction of pavement layers:					
C5.3.2.1	Construction of layers using conventional construction methods:					
	a) Selected subgrade layer (150mm) compacted to 96 % of MDD		m³	2,543.4		
	b) Gravel shoulder layer (200mm) compacted to 95 % of MDD		m³			Rate Only
	c) Subbase gravel layer (unstabilised), (150mm) compacted to 96 % of MDD		m³	2,260.8		
	d) Gravel base layer (chemically stabilised), (150mm) compacted to 98 % of MDD		m³	1978.2		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C5.4 STABILISATION

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C5.4.2	Chemical stabilisation					
C5.4.2	Chemical stabilisation (150mm) of pavement layers (Base layer to be stabilised)		m ³			
C5.4.5	Cementitious stabilisation agents for pavement layers					
C5.4.5.1	CEM-II B-L Grade 32,5		t	124.63		
C5.4.10	Provision and application of water for curing		kl	1704		
Total Carried Forward to Section Summary						

**PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER
C6.2 SEGMENTAL BLOCK PAVING LAYERS**

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C6.2	SEGMENTAL BLOCK PAVING LAYERS					
C6.2.1	Segmental block paving - Roads					
C6.2.1.1	Concrete block paving (80mm/30MPa Interlocking blocks on 20mm sand bedding) furnishing all materials, constructing the sand bedding, laying and compacting the concrete pavement blocks, filling the joints with jointing sand, and for all other work	LI	m ²	3,024		
	Segmental block paving - Walkways					
	Concrete block paving (60mm/30MPa Interlocking blocks on 20mm sand bedding) furnishing all materials, constructing the sand bedding, laying and compacting the concrete pavement blocks, filling the joints with jointing sand, and for all other work	LI	m ²	2,400.0		
	Segmental block paving - Driveways					
C6.2.2	Concrete block paving (60mm/30MPa Interlocking blocks on 20mm sand bedding) furnishing all materials, constructing the sand bedding, laying and compacting the concrete pavement blocks, filling the joints with jointing sand, and for all other work	LI	m ³	2,592		
C6.2.3	Provision and application of approved herbicide and ant poison					
C6.2.3.1	Provision of materials		Prime cost	1.0	400,800.00	400,800.00
C6.2.3.2	Contractor's charges and profit added to the prime cost sum		%	400,800.0		
	Concrete edge beams (class 15/19 concrete)	LI	m ³	35.0		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER
C11.1 PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION					
C11.1.2	Stone pitching:					
C11.1.2.3	Grouted stone pitching on a concrete bed	LI	m ²	40.0		
C11.1.6	Concrete edge beams (class 15/19 concrete)	LI	m ³			Rate Only
C11.1.7	Provision of approved herbicide and ant poison:					
C11.1.7.1	Provision of materials		PC sum	1.0	R100,000.00	R100,000.00
C11.1.7.2	Contractor's charges and profit added to the prime cost sum		%	100,000.00		
	Provision for loffelstein retaining blocks as per drawings	LI	m ²	576		
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C11.5 FENCING

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C11.5	FENCING					
BC11.5.1	Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed:	LI	Prov Sum	1	R600,000.00	R600,000.00
CC11.5.2	Contractor's charges and profit added to the prime cost sum		%	10%		
BC11.5.3	Moving existing fences and gates:	LI	Prov sum	1	R450,000.00	R450,000.00
BC11.5.4	Contractor's charges and profit added to the prime cost sum		%	450000.00		
BC11.5.5	Dismantling existing fences and gates	LI	Prov Sum			
	Contractor's charges and profit added to the prime cost sum		%			
Total Carried Forward to Section Summary						

PARLIAMENTARY VILLAGE - ROADS, PLATFORMS AND STORMWATER

C11.6 ROAD SIGNS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
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	LI	m ²	8.0		
C11.6.1.4	Prepainted galvanized steel profiles (200 mm high panels):					
	(c) Area exceeding 2,0 m ² but not 10 m ²	LI	m ²	18.0		
C11.6.1.7	Regulatory signs, permanent:					
	(a) 600 mm diameter (signboard material, background and symbol retro-reflective class 1)	LI	No	6.0		
C11.6.1.9	Warning signs, permanent:					
	(c) 600 mm size (signboard material, background and symbol retro-reflective class 1)	LI	No	10.0		
C11.6.5	Excavation and backfilling for road sign supports (not applicable to kilometre posts):					
C11.6.5.1	Excavating soft material and backfilling	LI	m ³	12.0		
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	LI	m ³	12.0		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill		m ³	6.0		
Total Carried Forward to Section Summary						

C11.7 ROAD MARKINGS AND ROAD STUDS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C11.7.1	Road marking:					
C11.7.1.1	White lines broken or unbroken (Retro-reflective road-marking paint and 100mm thick lines)		km	0.5		
C11.7.1.2	Yellow lines broken or unbroken (Retro-reflective road-marking paint and 100mm thick lines)		km	0.5		
C11.7.1.4	White lettering and symbols (Retro-reflective road-marking paint)		m ²	12.0		
C11.7.1.5	Yellow lettering and symbols (Retro-reflective road-marking paint)		m ²			Rate Only
C11.7.1.7	Transverse lines, painted island and arrestor bed markings (any colour) (Retro-reflective road-marking paint)		m ²	2.0		
C11.7.7	Road studs					
C11.7.7.5	Provision of temporary and permanent road studs		Prov Sum			
C11.7.7.6	Handling cost, profit and all other charges of sub item C11.7.7.5		%			Rate Only
C11.7.8	Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)		km			Rate Only
C11.7.9	Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer		No			Rate Only
Total Carried Forward to Section Summary						

C11.9 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
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	1.0		
C11.9.2	Treatment of old roads and temporary deviations:					
C11.9.2.1	Conventional construction methods		km	0.5		
Total Carried Forward to Section Summary						

C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP					
C20.1.2	Special tests requested by the Engineer:					
C20.1.2.2	Employer's contribution to other special tests:					
	(a) Other special tests requested by the Engineer		PC sum	1.0	R150,000.00	R150,000.00
	(i) Handling costs and profit in respect of item C20.1.2.2(a)		%	150,000.00		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

ROADS, PLATFORMS AND STORMWATER SUMMARY		
SECTION 2	DESCRIPTION	AMOUNT (RAND)
2	C1.6 CLEARING AND GRUBBING	
2	C1.7 LOADING AND HAULING	
2	C2.1 GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	
2	C3.1 DRAINS	
2	C3.2 CULVERTS	
2	DRAINS	
2	C4.2 CUT	
2	C4.4 COMMERCIAL MATERIALS	
2	C4.5 IN-SITU FILL PLATFORMS	
2	C5.1 ROADBED	
2	C5.3 ROAD PAVEMENT LAYERS	
2	C5.4 STABILISATION	
2	C6.2 PAVING BLOCKS	
2	C11.1 PITCHING, STONWORK, ... PROTECTION AGAINST EROSION	
2	C11.5 FENCING	
2	C11.6 ROAD SIGNS	
2	C11.7 ROAD MARKINGS AND ROAD STUDS	
2	C11.9 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
2	C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP	
SUB-TOTAL 2: CARRIED TO FINAL SUMMARY		

SECTION 3: WATER INFRASTRUCTURE

WATER INFRASTRUCTURE
W1.1 EARTHWORKS FOR PIPE TRENCHES

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.1	EARTHWORKS FOR PIPE TRENCHES					
W1.1.1	Excavation using Plant:					
	a) Excavate in all materials for trench depths up to 1200 mm, 600 mm wide.		m ³	5184		
	b) Extra-over items 1.2.1 for excavation in intermediate material.		m ³			Rate Only
	c) Extra-over items 1.2.1 for excavation in rock. (Provisional)		m ³	103.68		
	d) Excavate and dispose of unsuitable material from trench bottom.		m ³			Rate Only
W1.1.2	Excavation using Labour Intensive Methods:					
	a) Extra-over Item 1.2.1 for excavation in soft material using labour intensive methods.	LIC	m	1,555.2		
	b) Extra-over Item 1.2.4 for excavation in intermediate material using labour intensive methods.	LIC	m ³	311.0		
	c) Extra-over Item 1.2.6 for excavate and dispose of unsuitable material using labour intensive methods.	LIC	m ³	155.5		
W1.1.3	Backfill and Compaction:					
	a) Backfill and compact trenches using labour intensive methods.	LIC	m ³	4147.2		
	b) Backfill road crossings using a commercial type G6 material compacted to 95% Mod. AASHTO density.		m ³	207.36		
W1.1.4	Overhaul:					
	Overhaul in excess of the free-haul of 5.0 km.		m ³ -km	58320		
W1.1.5	Existing Services: expose and protect:					
	Services that intersect a trench.		No.	5		
W1.1.6	Finishing:					
	Gravel		m ³	1036.8		
Total Carried Forward To Summary						

WATER INFRASTRUCTURE

W1.2 PIPE BEDDING

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.2	PIPE BEDDING					
W1.2.1	Bedding from Trench Excavations: (Bedding to be Class C for flexible pipes as indicated in the contract drawings) a) Provision of bedding from pipe trench excavation within 1.0 km, using selected granular material. b) Provision of bedding from pipe trench excavation within 1.0 km, using selected fill material.		m ³	1,944		
			m ³	388.8		
W1.2.2	Bedding from Trench Excavations: (Bedding to be Class C for RIGID pipes as indicated in the contract drawings) a) Provision of bedding from pipe trench excavation within 1.0 km, using selected granular material. b) Provision of bedding from pipe trench excavation within 1.0 km, using selected fill material.		m ³	50.00		
			m ³			
W1.2.3	Imported Bedding Material: (Bedding to be Class C for flexible pipes as indicated in the contract drawings) a) Provision of bedding imported from designated borrow pit using selected granular material. b) Provision of bedding imported from designated borrow pit using selected fill material.		m ³	972		
			m ³	291.6		
W1.2.4	Imported Bedding Material: (Bedding to be Class C for RIGID pipes as indicated in the contract drawings) a) Provision of bedding imported from designated borrow pit using selected granular material. b) Provision of bedding imported from designated borrow pit using selected fill material.		m ³			Rate Only
			m ³			Rate Only
W1.2.5	Overhaul: a) Overhaul of material for bedding from trench excavations. Free-haul distance is 1.0 km.		m3-km	3,646		
Total Carried Forward to Section Summary						

WATER INSTRUCTURE

W1.3 MEDIUM PRESSURE PIPELINES AND ANCILLARIES

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.3	MEDIUM PRESSURE PIPELINES AND ANCILLARIES					
W1.3.1	Supply, Lay and Bed uPVC Pipes Complete:					
	63mm HDPE medium pressure pipes - Class 12		m	305		
	63mm uPVC medium pressure pipes - Class 12		m	682		
	90mm uPVC medium pressure pipes - Class 12		m	366		
	110mm uPVC medium pressure pipes - Class 12		m	1,488		
	160 mm uPVC medium pressure pipes - Class 12		m	190		
W1.3.2	Fittings and Specials - uPVC Lyng Bends: (Extra-over rate to Items 3.1.1 to 3.1.6.)					
	63 mm uPVC:					
	uPVC bends less than 25 degree angle.		No.	18		
	uPVC bends with 45 degree angle.		No.	7		
	uPVC bends with 90 degree angle.		No.	6		
	75 mm uPVC:					
	uPVC bends less than 25 degree angle.		No.	4		
	uPVC bends with 45 degree angle.		No.	6		
	uPVC bends with 90 degree angle.		No.	4		
	90 mm uPVC:					
	uPVC bends less than 25 degree angle.		No.	15		
	uPVC bends with 45 degree angle.		No.	12		
	uPVC bends with 90 degree angle.		No.	12		
	110 mm uPVC:					
	uPVC bends less than 22.5 degree angle.		No.	20		
	uPVC bends with 45 degree angle.		No.	10		
	uPVC bends with 90 degree angle.		No.	8		
	160 mm uPVC:					
	uPVC bends less than 22.5 degree angle.		No.	3		
	uPVC bends with 45 degree angle.		No.	2		
	uPVC bends with 90 degree angle.		No.	2		
W1.3.3	Specials and Fittings - Cast Iron Equal Tees: (Bitumen dipped and LYNG sockets on all sides all to SABS 546 and SABS 966.)					
	75 mm dia.		No.	1		
	90 mm dia.		No.	1		
	110 mm dia.		No.	1		
	160 mm dia		No.	1		
W1.3.4	Specials and Fittings - Hydrant Tees: (Cast iron hydrant tees, Bitumen dipped and LYNG sockets to SABS 546 and SABS 966 with flanged branch, 80 mm dia, drilled to SABS 1123, Table 16.)					
	75 mm dia.		No.			
	90 mm dia.		No.	10		
	110 mm dia.		No.			
	160 mm dia		No.			
W1.3.5	Specials and Fittings - Cast Iron Scour Tees: (Cast iron scour tee, Bitumen dipped and LYNG sockets to SABS 546 and SABS 966 with flanged branch, 100 mm dia, drilled to SABS 1123, Table 16.)					
	63 mm dia.		No.	6		
	90 mm dia.		No.	4		
	110mm dia.		No.	5		
	160mm dia.		No.	3		
Total Carried Forward						

WATER INSTRUCTURE

W1.3 MEDIUM PRESSURE PIPELINES AND ANCILLARIES

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
W1.3.6	Specials and Fittings - Cast Iron End Caps: 63 mm dia 90 mm dia 110 mm dia.		No.	4		
			No.	3		
			No.	2.0		
W1.3.7	Specials and Fittings - Cast Iron Reducers: (Bitumen dipped, spigot and socket and socketed cast iron reducers all to SABS 546 and SABS 966.) 160 mm x 110 mm dia. [S] 150mm x 125mm dia. [S]		No.			Rate Only
			No.			Rate Only
W1.3.8	Specials and Fittings(PN16) - Flang Adaptors: (Bitumen dipped and LYNG flanged to SABS 546 and SABS 966 with flange drilled to SABS 1123, Table 16.) 125mm dia.		No.	4.0		
W1.3.9	Specials and Fittings - Isolating Valves: (Flanged RSV isolating valves. Valves to be non-rising spindles with cap top.) 63 mm dia. Class 12 75 mm dia. Class 12 110mm dia. Class 12 160mm dia. Class 12		No.	8.0		
			No.	2		
			No.	6.0		
			No.	2		
W1.3.10	Specials and Fittings - Socketed Valves: (Socket ends RSV isolating valves. Valves to be non-rising spindles with cap top.) 110mm dia. Class 16 160 mm dia. Class 16 200 mm dia. Class 16		No.			Rate Only
			No.			Rate Only
			No.			Rate Only
W1.3.11	Specials and Fittings - Air Valve: (Vent O' Mat SERIES RBX with screwed BSP male inlet, or similar. Complete with flange, barrel nipple, and 50 mm gate valve) 50 mm Air Valve		No.	3		Rate Only
W1.3.12	Valve Chambers: Reinforced Concrete Valve chamber - 1200 mm x 3000 mm x 1800 mm depth, complete including excavation, materials, plant, labour and incidentals, as per detail drawings. Extra-over Item 3.14.1 for depth increments of 250 mm.		No.	15.0		
			No.	2		
W1.3.13	new connections to service reservoirs with flow control hydraulic actuation valves 110mm 90mm 63mm		No.	1.0		
			No.	1		
			No.	1.0		
Total Carried Forward						

WATER INSTRUCTURE

W1.3 MEDIUM PRESSURE PIPELINES AND ANCILLARIES

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
W1.3.14	Hydraulic Pipe Testing: Hydraulic Pipe Testing irrespective of Pipe Size		sum	1.0		
W1.3.15	Disinfecting Pipe Works. Disinfecting Pipeworks irrespective of Pipe Size		sum	1		
W1.3.16	Thrust Blocks: Excavation. Formwork. Concrete. [Class 20/19 MPa]		m3 m2 m3	15.0 20 5.0		
W1.3.17	Pipe Works Ancillaries: 550 mm x 550 mm Fabricated manhole cover with frame, galvanised. Access ladder - 304 SS, galvanised. Concrete pipe line markers as per details.		No. No. No.	12 12.0 45		
W1.3.18	Supply, Lay and Bed Ductile Iron Pipes (PN16) Complete: 400 mm Diameter 450 mm Diameter		m m			Rate Only Rate Only
W1.3.19	Concrete works Install 100mm thick, Grade 20 reinforced concrete (mesh s193) on upper level of pipe trenches		m3	15.0		
Total Carried Forward to Section Summary						

WATER INSTRUCTURE

W1.4 BOREHOLE

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.4	BOREHOLE					
W1.4.1	Geophysics studies , Drilling and equipping of borehole with pump and all fittings.		Prov Sum	1	R250,000.00	R250,000.00
	Purification Plant for Borehole 1 to change water classification from class 2 to class 1 water quality		Prov Sum	1	R200,000.00	R200,000.00
	Overheads, charges and profit on Item above		%	R450,000.00		
Total Carried Forward to Section Summary						

WATER INSTRUCTURE
W1.5 STEEL STRUCTURE STORAGE TANK

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.5	STEEL STRUCTURE STORAGE TANK					
W1.5.1	Supply, Deliver, Install, and Commission the following steel structure tank with approximate dimensions and minimum supply volume required, including all inlets 63mm,90mm, and 110mm diameter steel pipes, and outlet pipe with outlet pipes of 110mm diameter in size. Tank to be corrosion protected according to SANS 121:					
	Combined domestic and Fire structural steel tank with minimum supply capacity of 500kl approximately (17,08m x 12,2m x 2,44m) LxWxH		Prov Sum	1	3000000	R3,000,000.00
	Overheads, charges and profit on Item above		%	3000000		
Total Carried Forward to Section Summary						

WATER INSTRUCTURE						
W1.6 PUMP HOUSE						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.6	DOMESTIC, FIRE PRESSURE PUMP AND PURIFICATION PLANT HOUSE					
	Construction of a domestic , fire pressure pump and purification plant housing in accordance with design specification		Prov Sum	1	260000	R260,000.00
	Overheads, charges and profit on Item above		%	260000		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

WATER INFRASTRUCTURE SUMMARY		
SECTION 3	DESCRIPTION	AMOUNT (RAND)
3	W1.1 EARTHWORKS FOR PIPE TRENCHES	
3	W1.2 PIPE BEDDING	
3	W1.3 MEDIUM PRESSURE PIPELINES AND ANCILLARIES	
3	W1.4 BOREHOLE	
3	W1.5 STEEL STRUCTURE STORAGE TANK -500KL	
3	W1.6 PUMP HOUSE	
SUB-TOTAL 3: CARRIED TO FINAL SUMMARY		

SECTION 4 SEWERAGE INTRASTURCTURE

SEWER INFRASTRUCTURE

ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
W1.5	SEWER INFRASTRUCTURE					
	PRIME COST ITEMS					
	Acceptance control testing of sewers and concrete works where ordered		P.C.	1.00	R30,000.00	R30,000.00
	Overheads, charges and profit on Item above		%	30,000.00		
	CLEAR AND GRUB					
	a. Pipeline route - 3 m wide		m	720.00		
	REMOVE & GRUB LARGE TREES AND TREE STUMPS OF GIRTH					
	over 1 m and up to 2 m		no	5.00		
	over 2 m		no	1.00		
	Remove and reinstate fences where required irrespective of height					
	Mesh and barbed wire fences		m	150.00		
	Pallisade, brick or concrete panel type		m	100.00		
	Maintain roads during construction period		Sum	1.00		
	FINISHING					
	Reinstate road surface complete with all courses using manual techniques					
	Gravel surface		m ²	250.00		
	Tarred/paved surface (Prov)		m ²	10.00		
	EARTHWORKS (PIPE TRENCHES)					
	EXCAVATION (including stockpiling suitable for backfilling)					
	Excavate in all materials for trenches, backfill and compact, including disposal of surplus unsuitable material within the freehaul distance for pipes as detailed in drawings					
	Up to 315mm diameter for depths					
	0,0m to 1,0,		m	1,080.00		
	1,0m to 2,0m		m	756.00		
	2,0m to 3,0m		m	378.00		
	extra over Items C3.1.1 to C3.1.4 for excavation to waste					
	in hard rock material (provisional)		m ³	405.00		
	in intermediate excavation (provisional)		m ³	203.00		
	excavate to waste unsuitable soft material from trench bottom		m ³	338.00		
	excavate by hand in soft material to expose existing services		m ³	338.00		
	excavate and backfill by hand in restricted areas		m ³	169.00		
	shoring of trenches where instructed by the engineer		m	200.00		
	compaction in road reserves (where ordered by engineer)		m ³	400.00		
Total Carried Forward						

SEWER INFRASTRUCTURE						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
	extra over item C3.1 for existing services that intersect or adjoin services					
	Services that intersect a trench					
	(a) under ground cables		No	10.00		
	(b) overhead cables		No	10.00		
	(c) water mains		No	20.00		
	(d) sewer mains		No	5.00		
	(e) stormwater pipes		No	10.00		
	Services that adjoin a trench					
	(a) under ground cables		No	5.00		
	(b) overhead cables		No	5.00		
	(c) water mains		No	10.00		
	(d) sewer mains		No	5.00		
	(e) stormwater pipes		No	5.00		
	IMPORT BACKFILL MATERIALS FROM DESIGNATED BORROW AREAS					
	Designated borrow pit within 5km range free haul		m ³	1,350.00		
	extra over C3.10.1 for overhaul beyond 5km		m ³ km	1,350.00		
	SEWERS					
	SUPPLY, HANDLE, BED (flexible pipe bedding) , LAY, JOINT and TEST 160 mm nb, uPVC ,Class 34 (heavy duty) solid wall		m	720.00		
	PIPE SPECIALS AND FITTINGS					
	SPECIALS AND FITTINGS (complete with rubber rings and sockets)					
	SUPPLY, HANDLE, BED, LAY, JOINT, TEST uPVC FITTINGS to SANS 791					
	uPVC pipe fittings to SABS 791 (buried)					
	a) 160 mm Ø x 90deg , plain ended bend		No	15.00		
	b) 160 mm Ø x 45deg , plain junction		No	12.00		
	c) 160 mm Ø x 45deg , plain ended bend		No	9.00		
	d) 160 mm Ø x 45deg , rodding eye		No	9.00		
	e) 160 mm Ø x 45deg , access right junction (Prov)		No	11.00		
	f) 160 mm Ø x 45deg , access left junction (Prov)		No	14.00		
	g) 160 mm Ø x 45deg double access junction (Prov)		No	12.00		
	h) 160 mm Ø x 45deg double junction (Prov)		No	10.00		
	MANHOLES					
	Construct Precast Concrete Manholes (1.0m ND) complete with cover slab and concrete lid					
	0,0m - 1,5m		No	10.00		
	1,5m - 2,5m		No	2.00		
	2,5m - 3,5m		No	3.00		
	3,5m - 4,5m		No	1.00		
	Construct Precast Concrete Manholes (1.5m ND) complete with cover slab and concrete lid for deep manholes (over 3.0m) where instructed (Prov)		No	5.00		
Total Carried Forward						

SEWER INFRASTRUCTURE						
ITEM	DESCRIPTION	LIC	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
	Supply and Install HDPE coated stepirons including caulking a) 200 mm long x 160mm wide		No	120.00		
	Concrete bases and benching					
	Class 20/19 concrete base cast on levelled surface minimum 100mm thick		m ³	16.00		
	Class 20/19 concrete benching including channelling with steel float finish		m ³	12.00		
	Class 20/19 concrete in mass concrete where instructed		m ³	5.00		
	Miscellaneous Manhole Works					
	Breaking into live sewer and building new manhole		No	2.00		
	Lowering or raising existing manholes		No	2.00		
	BEDDING (PIPES)					
	FROM TRENCH EXCAVATION					
	selected granular material for bedding and cradle		m ³	1,350.00		
	selected fill material		m ³	420.00		
	SUPPLY ONLY OF BEDDING MATERIAL BY IMPORTING FROM BORROW PIT					
	selected granular material for bedding and cradle		m ³	443.00		
	OVERHAUL OF MATERIAL OR BEDDING					
	overhaul		m ³ /km	2,215.00		
	Provision of bedding stone (19mmND) by importation from commercial sources		m ³	80.00		
	Opening up and closing down of designated borrow pits (provisional)		Ha	0.10		
	MANHOLE EXCAVATION					
	Extra over trench excavation for excavating and backfilling in all material					
	for manhole rings including working space to pipe invert					
	For manhole rings including working space to pipe invert		m ³	120.00		
	Base excavation below pipe invert		m ³	120.00		
	MISCELLANEOUS					
	PC sum for laying sewers in river bed including dealing with live sewers		PC sum	3.00		
	Class 25/19 concrete encasing encasing for sewer pipe in C10.1 above		m ³	8.00		
	Y10 reinforcing where ordered by Engineer		t	1.00		
	Allow for diversion of stormwater drains from sewer alignment		m3	100.00		
	Allow for other material and costs not covered in the sewer items		sum	1.00		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

	SEWER INFRASTRUCTURE SUMMARY	
SECTION 4	DESCRIPTION	AMOUNT (RAND)
4	S1.1 SEWER INFRASTRUCTURE	
SUB-TOTAL 4: CARRIED TO FINAL SUMMARY		

SECTION 5: BULK ELECTRICAL WORKS

ITEM No	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
SECTION 5	Bill No. 1 : ELECTRICAL RETICULATION INSTALLATION					
	Shop drawings shall be submitted to the Electrical Engineer for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.					
5.1	Trenching					
5.1.1	HV/LV trench - 800mm deep in soft, pickable soil below final ground level complete with, bedding and backfill as per specification	Labour	m	340		
5.1.2	HV/LV trench - 1100mm deep in soft, pickable soil for depth beneath roads complete with, bedding and backfill as per specification	Labour	m	40		
5.1.3	Extra over above trenches for excavation in hard, rocky conditions	Labour	m	0		
5.1.4	PVC warning tape	Material	m	380		
5.1.5		Labour	m	380		
5.2	Sleeves					
	Supply and install the following as shown on the drawing					
5.2.1	110mm PVC, 50mm PVC	Material	m	380		
5.2.2		Labour	m	380		
5.2.3	Draw wires	Material	m	380		
5.2.4		Labour	m	380		
5.2.5	Electrical Manholes					
5.2.6	300mm x 300mm x 1000mm with heavy duty lid	Supply	ea	7		
5.2.7		Labour	ea	7		
5.3	Main supply, Upgrade the supply point required from the supply authority to add the new 630kVA on existing					
5.3.1	Municipality,	Supply	sum	1		
5.3.2	Maintain and Major service for exiting Generator, Maintain, service, install , connect and commission the generator should be also enclosed with noise reduction canopy, should be equiped with AMF futer linking switch and complete earthing system.	Supply and Labour	sum	1		
5.3.3	Containerized 630kVA Minisub, ring main unit and Main meter kiosk, Supply, install and commission a free standing with all the accееories, painted, steel panel lockable metering kiosk complete with door frames, subframes, chasis, fixtures, fittings, termination, busbars and wiring, danger signs, plinth with spare space as per specification and drawings and installed with complete bonding and earthing.	Supply and Labour	sum	1		
5.3.4	Maintain the existing 630kVA Minisub, ring main unit and Main meter kiosk and other existing kiosks, Remove the hanging cables and make good	Supply and Labour	sum	1		
5.3.5	Upgrade the existing switching area, Build a 3m x 9m Switch Room for the existing minisub and generator	Supply and Labour	sum	1		
5.3.6	LV distribution Kiosks feeding the units	Supply and Labour	sum	5		
5.3.7	All MV, HT underground / surface cables shall be stranded copper-core, 600/1000 Volt grade, multi-cored, PVC insulated, PVC covered, wire armoured and PVC encased (PVC/SWA/PVC) unless otherwise specified. No joints are allowed in distribution cables, accept where it is specifically authorised. HV Cable copper conductor, 95mm ² 3 core armoured cable and accessories.	Supply and Labour	sum	40		
5.3.8	For the delivery to site, supply and installation of 11kV Three Core Cables, Terminations and Joints for PILC Cable, as per specification.	Supply and Labour	sum	1		
5.3.9	Contractor to allow for Tracing of existing HV cables and LV cables. Create Asbuilt drawings	Supply and Labour	sum	1		
5.3.10	MINISUB-Pre-cast Plinth, 25 MPA vibrated Concrete to be used	Supply	sum	1		
5.3.11	as per D - DT- 1010, refer to the specifications	Labour	sum	1		
5.3.12	All notices and signs as per the OHAS act	Supply	sum	1		
5.3.13		Labour	sum	1		
Total Carried Forward						

ITEM No	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
Total Brought Forward						
5.4	Distribution Boards					
5.4.1	Upgrading of the circuit breakers is recommended for the burnt house	Material	ea	1		
5.4.2	Eighteen-way Distribution Board 63A	Labour	ea	1		
5.5	Low Voltage Cables					
	All LV underground / surface cables shall be stranded copper-core, 600/1000 Volt grade, multi-cored, PVC insulated, PVC covered, wire armoured and PVC encased (PVC/SWA/PVC) unless otherwise specified. The low voltage cable in a continuous cable run must be of one size, except where a change in cable size is necessary, in which case the change must be approved by the Engineer.					
5.5.1	70mm ² 1+N Cu PVC/SWA/PVC	Material	m	180		
5.5.2	From main kiosk	Labour	m	180		
5.5.3	70mm ² 4 core PVC SWA Copper Cable + 95mm ² BCEW from 630KVA Mini-sub to kiosks	Material	m	300		
5.5.4		Labour	m	300		
5.6	Cable terminations					
5.6.1	70mm ² 1+N Cu PVC/SWA/PVC	Material	ea	15		
5.6.2	From main kiosks to DB-1-15	Labour	ea	15		
5.6.3	70mm ² 4 core PVC SWA Copper Cable + 95mm ² BCEW from 630KVA Mini-sub to kiosks	Material	ea	12		
5.6.4		Labour	ea	12		
5.7	Bare Copper Earth Wire installed with cable					
	For the supply and installation of the following BCEW with the 4 Core PVC insulated PVC Bedded SWA PVC sheathed 600/1000V copper cables as specified.					
5.7.1	50mm ² 4core Cu PVC/SWA/PVC	Material	m	180		
		Labour	m	180		
5.8	Bare Copper Earth Wire installed with cable Terminations					
5.8.1	50mm ² 2 core Cu PVC/SWA/PVC	Material	ea	15		
5.8.2		Labour	ea	15		
5.9	Perimeter lighting					
5.9.1	Integrated LED solar lighting solution, lamp compartment to be of IP 65. Comply with SANS 60598-2-3, all certified by a SABS test report, 8M Pole mounted, with integrated battery solution, 8M Pole Mounting Height 9.2M Total - Hot Dip Galvanised, complete installation	Material	ea	33		
5.9.2		Labour	ea	33		
5.10	LED solar sports lighting solution, 84lx average, complete installation					
	8x SOLARFLOOD-SPORT on four (4) 10m poles/masts(include masts)					
5.10.1	10M Pole Mounting Height 11.5M Total - Hot Dip Galvanised	Material	sum	1		
5.10.2	Concrete foundation including soil and concrete cube tests & earthing	Labour	sum	1		
5.11	EARTHING OF SUBSTATIONS					
5.11.1	Measuring of earth resistance by an earthing specialist and issuing of a report	Material	sum	1		
5.11.2	Measuring of earth resistivity over the site, Issuing of a report	Labour	sum	1		
5.12	Earthing and lightning protection:					
5.12.1	Design, supply and install lightning protection, bonding and earthing system as per general and detail specifications document for the existing 11 houses	Material	sum	11		
5.12.2	Design supply and installation of the full earthing system for the site	Labour				
5.12.3	Design supply and install a complete earthing and lightning protection system for the building based on SANS 10199/ 10313/ 62305 and IEC 62305	Material	sum	1		
5.12.4	Issuing of earthing Certificates	Labour	sum	1		
5.12.5	Rehabilitation of groundworks	Material	sum	1		
5.12.6	For the rehabilitation of groundworks where the contractor excavated through existing paved areas, gardens, road crossings etc.	Labour	sum	1		
5.12.7	Cable markers	Material	ea	10		
5.12.8		Labour	ea	10		
5.12.9	Padlocks	Material	ea	10		
5.12.10		Labour	ea	10		
5.12.11	Lever arch file	Material	ea	5		
5.12.12		Labour	ea	5		
5.12.13	100 Position key cabinet	Material	ea	1		
		Labour	ea	1		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

	BULK ELECTRICAL WORKS	
SECTION 5	DESCRIPTION	AMOUNT (RAND)
5	ELECTRICAL RETICULATION	
SUB-TOTAL 5: CARRIED TO FINAL SUMMARY		

SECTION 6: EXISTING (BURNT) HOUSE REFURBISHMENT

ITEM NO	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
SECTION 6	Bill No. 2 : BURNT HOUSE REFURBISHMENT					
	<u>COMPLETE INTERNAL ELECTRICAL</u>					
	<u>INSTALLATION</u>					
	Small Power and Lighting					
6.1	<u>Switched Socket Outlets</u>					
6.1.1	and draw box for complete instalation	Material	ea	16		
6.1.2		Labour	ea	16		
6.1.3	4mm² PVC Insulated Copper Conductor	Material	m	384		
6.1.4		Labour	m	384		
6.1.5	4mm² Bare Copper Eearth Wire	Material	m	128		
6.1.6		Labour	m	128		
6.1.7	20mm dia PVC conduit chased into brickwall complete	Material	m	128		
6.1.8		Labour	m	128		
6.2	<u>Light Fittings</u>					
6.2.1	LEDQUAD, RECTANGULAR LED DOWNLIGHT 18W 518mm*200mm*100, in compliance with SANS60598	Material	ea	4		
6.2.2		Labour	ea	4		
6.2.3	LED 17W, Luminaire with SANS 60598-2-1 safety mark. The IP rating is certified by an SABS test report.	Material	ea	8		
6.2.4		Labour	ea	8		
6.2.5	SERIES 20 LED BULKHEAD LUMINAIRE 17W, Lamp compartment to be of IP 66. Comply with SANS 60598-2-1, all certified by a SABS test report.	Material	ea	8		
6.2.6		Labour	ea	8		
6.2.7	2.5mm² PVC Insulated Copper Conductor	Material	m	288		
6.2.8		Labour	m	288		
6.2.9	2.5mm² Bare Copper Eearth Wire	Material	m	288		
6.2.10		Labour	m	288		
6.2.11	60mm diameter round draw box with draw wire	Material	ea	20		
6.2.12		Labour	ea	20		
6.2.13	20mm dia PVC conduit chased into brickwall andsurface installed complete	Material	m	20		
6.2.14		Labour	m	20		
6.3	<u>Light Switches</u>					
6.3.1	16 Amp 1 lever 1-way, 2way, multiple levers light switch with cover plate installed in draw box	Material	ea	12		
6.3.2		Labour	ea	12		
6.3.3	2.5mm² PVC Insulated Copper Conductor	Material	m	432		
6.3.4		Labour	m	432		
6.3.5	2.5mm² Bare Copper Eearth Wire	Material	m	144		
6.3.6		Labour	m	144		
6.3.7	100mm x 50mm x 50mm draw box with draw wires	Material	ea	12		
6.3.8		Labour	ea	12		
6.3.9	20mm dia PVC conduit chased into brickwall or surface installed complete	Material	m	144		
6.3.10		Labour	m	144		
Total Carried Forward						

ITEM No	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
Total Brought Forward						
6.4	<u>Appliances</u>					
6.4.1	16 Amp 250V photocell in an empty bulk head luminaire Type B	Material	ea	4		

6.4.2		Labour	ea	4		
6.4.3	Earthing and lighting protection, submitt certificate	Material	m	1		
6.4.4		Labour	m	1		
6.4.5	Gyaser isolator	Material	m	1		
6.4.5		Labour	m	1		
6.5	Provisional sums					
	Provisionl mount for the renovations of the burnt house -					
3.5.3	assessment & measurement by specilists	Material	sum	1	150,000.00	150,000.00
		Labour	sum	1		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT
PARLIAMENTARY VILLAGE
SECTION SUMMARY**

	REFURBISHMENT	
SECTION 6	DESCRIPTION	AMOUNT (RAND)
6	EXISTING (BURNT) HOUSE REFURBISHMENT	
SUB-TOTAL 6: CARRIED TO FINAL SUMMARY		

ITEM NO	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
SECTION 7	BILL NO 04 : FIRE PROTECTION INSTALLATION					
	Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning					
7.1	FIRE HOSE REELS					
7.1.1	30m Fire hose reel including pro-rata cost for 50mm connecting pipework from the fire reticulation main including 25 diameter drop pipe to hose reel and break ins, fittings, pipework, hanging/fixing materials, finished paintwork, pressure gauge, etc., as per detail on tender drawings.	Material/ Labour	No.	4		
7.2	PIPEWORK					
7.2.1	Supply and install medium grade, seamless galvanized mild steel pipework c/w pipe supports and accessories as specified and shown on the drawings					
7.2.2	100mm dia	Material/ Labour	m	560		
7.2.3	80mm dia	Material/ Labour	m	350		
7.2.4	50mm dia	Material/ Labour	m	100		
7.2.5	25mm dia	Material/ Labour	m	80		
7.3	Supply and install PVC pipework c/w pipe and accessories as specified and shown on the drawings rate to include excavation and backfilling to a depth of 500mm					
7.3.1	80 -100mm dia	Material/ Labour	m	1050		
7.4	Galvanised, Tees and Reducing Tees					
7.4.1	100 x 100 x 100mm	Material/ Labour	No	80		
7.4.2	100 x 80 x 100mm	Material/ Labour	No	80		
7.4.3	100 x 65 x 100mm	Material/ Labour	No	20		
7.4.4	80 x 80 x 80mm	Material/ Labour	No	24		
7.4.5	80 x 65 x 80mm	Material/ Labour	No	24		
7.4.6	80 x 50 x 80mm	Material/ Labour	No	24		
7.4.7	50 x 25 x 50mm	Material/ Labour	No	8		
7.4.8	25 x 25 x 25mm	Material/ Labour	No	10		
7.5	PVC	Material/ Labour				
7.5.1	100 x 100 x 100mm	Material/ Labour	No	8		
7.5.2	100 x 80 x 100mm	Material/ Labour	No	8		
7.5.3	100 x 65 x 100mm	Material/ Labour	No	6		
Total Carried Forward						

ITEM No	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
Total Brought Forward						
	PORTABLE FIRE EXTINGUISHERS Supply and install fire extinguishers complete at a maximum handle height of 1200mm from finished floor level. Each fire extinguisher must be provided with a suitable sized Meranti backing board, complete with mounting bracket and suitable wall anchors as support as specified. Backing boards must be painted "Signal Red". 7.6 Refer to standard drawings					
7.6.1	9 kg DCP fire extinguishers complete with backboard mounted as required	Material/ Labour	No.	30		
7.6.2	2kg Carbon dioxide extinguishers in weather proof polycarbonate cabinet complete with backboard	Material/ Labour	No.	4		
7.6.3	Fire blanket mounted as required	Material/ Labour	No.	15		
7.7	STATUTORY FIRE SIGNAGE					
	Supply and install photo luminescent fire and evacuation signage as described below and as per the tender drawings:					
	All signed to be framed in the natural anodized aluminium frame with mitred corner and concealed elbow joints.					
	All wall mounted fire and evacuation signs to be fixed with concealed screws and no double sided tape will be permitted for the mounting of the signs. All suspended fire and evacuation signs to be hung from a steel cables or metal chains.					
	All signage to be a minimum 190mm size. All fire and evacuation signs to be SANS 1186-1, 1186-3 and 1186-5 approved, and also to bear the SANS stamp of approval.					
7.7.1	F13	Material/ Labour	no.	20		
7.7.2	F30	Material/ Labour	no.	30		
7.7.3	Others	Material/ Labour	sum	1		
7.8	HYDRANTS, VALVES ETC.					
	Install fire hydrants on permanently charged fire mains in position as indicated on project drawing. All fire hydrants must conform to SANS 1128 – Part I. Hydrant hose couplings, connectors and branch pipe and nozzle connections must conform to SANS 1128 – Part II. Provide all hydrants with purpose made vandal proof covers, caps or plugs complete with chains to secure to valves Hydrants valves must be cast iron, right angled, single lug tamper proof valves with non-protruding sheathed spindles suitable for tamper proof keys.					
7.8.1	65mm cast iron tamper proof pillar hydrant valve	Material/ Labour	No	16		
7.8.2	"Chubb" 03451 pair of gunmetal instantaneous steamer connections fitted with caps and short lengths of chain, including U-tube and pressure gauge	Material/ Labour	No	16		
7.8.3	Provide 1500m x 80mm galvanised piping riser	Material/ Labour	No	16		
7.8.4	Provide hydrants with 15MPa concrete anchors to each hydrant.	Material/ Labour	No	16		
7.8.5	Fire check valves ensuring one-way of water flow	Material/ Labour	No	8		
7.8.6	Fire stopping	Material/ Labour	sum	1		
7.8.7	Fire Detection(including LPG)	Material/ Labour	sum	1		
7.8.8	Fire Storage	Material/ Labour	sum	1		
Total Carried Forward						

ITEM No	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
Total Brought Forward						
7.9	FIRE PUMPING SYSTEM AND DOMESTIC WATER					
7.9.1	Multi-pump system SiBoost Smart 2 Helix V 5203, 35,56l/s, 11kW, 400V, 21A, Max. operating pressure 16kPa(Fire Pump)	Material/ Labour	Item	1		
7.9.2	High-pressure multistage centrifugal pump Helix V 2203-1/16/E/KS/400-50, 5,95l/s, 4kW, 400V, 7,5A, Max. operating pressure 16kPa(Domestic Pump)	Material/ Labour	Item	1		
7.9.3	Pressure vessel 100l	Material/ Labour	No	2		
7.9.4	Float Switch 10m micros	Material/ Labour	No	2		
7.9.5	Electrical work associated to the above installation	Material/ Labour	Item	1		
7.9.5	Verify pump performance and automatic controls.	Material/ Labour	Sum	1		
7.9.6	Flow test hydrants at 90 L/s and 16 bar.	Material/ Labour	Sum	1		
Total Carried Forward to Section Summary						

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL HOUSES AT PARLIAMENTARY
VILLAGE
SECTION SUMMARY**

FIRE PROTECTION		
SECTION	DESCRIPTION	AMOUNT (RAND)
7		
7	FIRE PROTECTION	
SUB-TOTAL 7: CARRIED TO FINAL SUMMARY		

**BULK SERVICES (EXTERNAL WORKS) FOR THE CONSTRUCTION OF 15 NEW MPL
HOUSES AT PARLIAMENTARY VILLAGE
FINAL SUMMARY**

SECTION	DESCRIPTION	AMOUNT (RAND)
1	PRELIMINARIES, GENERAL AND OBLIGATIONS	
2	ROADS, PLATFORMS AND STORMWATER	
3	WATER INFRASTRUCTURE	
4	SEWER INFRASTRUCTURE	
5	BULK ELECTRICAL WORKS: ELECTRICAL RETICULATION	
6	EXISTING (BURNT) HOUSE REFURBISHMENT	
7	FIRE PROTECTION	
	SUB-TOTAL 1	
	<u>CONTINGENCIES:</u> Provide contingency allowance of 5% to be used as and when needed by the Employer's Agent	
	SUB-TOTAL 2	
	ADD: VAT (15%)	
	CARRIED FORWARD TO FORM OF TENDER	