

Item	Description	Unit	Sch. Qty	Rate	Amount
1200	GENERAL REQUIREMENTS AND PROVISIONS				
B12.01	Relocating and Modification: a) Provisional sum for existing services to be relocated and or protected during construction	P/Sum	1	R 50 000,00	R 50 000,00
B12.06	Checking of setting out of proposed works by consultants surveyor	L/Sum	1		
B12.19	Handling of Water on Site: Supply Water Pump and all other items to De-Water Excavatiions during construction	L/Sum	1		
1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13.01	Contractors General Obligations				
	a) Fixed Obligations	L/Sum	1		
	b) Value Related Obligations	L/Sum	1		
	c) Time Related Obligations	Mth	6		
B13.02	OCCUPATIONAL HEALTH AND SAFETY ACT AND CONSTRUCTION REGULATIONS				
	a) Contractors Initial / Fixed Obligations	L/Sum	1		
	b) Submission of Health and Safety File	L/Sum	1		
	c) Contractors time related obligations	Mth	6		
	d) Environmental Control Officer	P.Sum	1	R 60 000,00	R 60 000,00
	e) Leanership (Student / Graduate)	P.Sum	1	R 60 000,00	R 60 000,00
	f) CLO @ R4600/mth	P/Sum	1	R 32 000,00	R 32 000,00
	g) Personal Protective Clothing	L/Sum	1		
B13.03	Establish Name Boards	No.	2		
B13.04	Provision of accredited training by a SETA certified training authority	P/Sum	1	R 250 000,00	R 250 000,00
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
1500	ACCOMMODATION OF TRAFFIC				
LIC15.01	Accommodating Traffic and Maintaining temporary Deviations	Km	0,7		
LIC15.03	a) Flagmen	man-days	504		
	b) Portable Stop and Go Signs	No	2		
	e) Road Signs, R-and TR Series	No	4		
	f) Road Signs, TW Series	No	4		
	h) Delineators				
	i) Single	No	30		
	j) Traffic Cones	No	30		
LIC15,04	Relocation of Traffic Control Facility	L/Sum	1		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
1600	OVERHAUL				
16.02	Overhaul on Material hauled in excess of 1,0km (Freehaul)	m ³ .km	5000		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
1700	CLEAR AND GRUB				
LIC17.01	Clearing and Grubbing	ha	0,1		
LIC17.07	Topsoil stripping to stockpile for later use	m3	100		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
2100	DRAINS				
LIC21.01	Excavations for Open Drains				
	a) Excavating soft material situated within the following depth ranges below the surface level				
	1) 0m up to 1.5m	m3	200		
	b) Extra Over Sub Item 21.01 (a) for excavation in hard material irrespective of depth	m3	20		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
2200	PREFABRICATED CULVERTS				
LIC22.01	Excavation				
	a) Excavating soft material situated within the following depth ranges below the surface level				
	1) 0m up to 1.5m	m3	200		
	b) Extra Over Sub Item 21.01 (a) for excavation in hard material irrespective of depth	m3	50		
LIC22.02	Backfilling				
	a) Using the excavated material	m3	160		
22.03	Concrete Pipe Culverts				
	c) On Class C Bedding				
	2) 450mm dia Type 100D	m	40		
	3) 600mm dia Type 100D	m	45		
LIC22.17	Manholes, Catchpits, Precaste inlet and outlet structures				
	i) Headwalls Masonry as per STD Details SD0406				
	a) 450 dia pipe	No	10		
	b) 600mm dia pipe	No	6		
	b) As per STD Detail Sd 0703/A including transitions,	No	6		
LIC22.29	Gabion Baskets and Matresses				
	a) Galvanised Gabion Boxes - Type SD 0901/A (1m x 1m boxes using 2.7mm thick wire mesh size 80 x 100)	m3	80		
	c) Galvanisged Gabion Matresses (6m x 2m x 0.3m using 2.2mm thick wire mesh size 80 x 100)	m3	108		
	Filter Fabric (Bidim Grade c or similar)	m2	1000		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
2300	CONCRETE KERBING, CONCRETE CHANNELLING				
LIC23.04	Cast in situ concrete chutes (measured by components)				
	a) Concrete				
	1) Class 20/19	m3	35		
	b) Formwork				
	2) F2 finish	m2	100		
LIC23.07	Trimming of Excavations for concrete open lined drains				
	a) In soft material	m2	1200		
	b) In hard material	m2	10		
LIC23.08	Concrete linings for open drains				
	1) Cast in situ concrete grade 25mPa /20mm	m3	110		
LIC23.09	Formwork to cast in situ concrete lining for open drains Class F2 Finish				
	b) To side with Formwork on both internal and external faces (each face measured)	m2	400		
	c) to ends of slabs	m2	150		
LIC23.10	Sealed Joints in concrete linings of open drains				
	a) Polysulphide sealant	m	300		
LIC23.12	Steel Reinforcing				
	a) Mesh wire, Ref 245	ton	4		
LIC23.16	Excavate for kerb and channel in all materials	m	225		
LIC23.17	Saw Cut	m	50		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
31.00	BORROW MATERIAL				
31.01	Excess Overburden	m3	100		
LIC31.03	Finishing of Borrow areas				
	b) Intermediate materials	ha	0,1		
Total Carried forward to Summary					R 0,00

Item	Description	Unit	Sch. Qty	Rate	Amount
33.00	MASS EARTHWORKS				
LIC33.01	Cut and borrow to fill including freehaul up to 1km				
	a) Gravel material in compacted layer thickness 200mm or less				
	2) Compacted to 93% of MOD AASHTO Density	m3	1000		
LIC33.03	Extra Over Item 33.02 for excavating and breaking down material in:				
	a) intermediate Excavation	m3	100		
	b) Hard Excavation	m3	50		
LIC33.04	Cut to Spoil including Freehaul up to 1km. Material obtained from				
	a) Soft Excavation	m3	400		
	b) Intermediate Excavation	m3	100		
	c) Hard Excavation	m3	100		
LIC33.07	Removal of Unsuitable Material				
	b) In layer thickness not exceeding 200mm				
	1) Stable Material	m3	100		
LIC33.10	Roadbed Preparation and the compaction of material				
	b) Compaction to 90% MOD AASHTO Density	m3	550		
LIC33.13	Finishing off Cut and fill slopes				
	a) Cut slopes and Fill Slopes	m2	200		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
34.00 LIC34.01	PAVEMENT LAYERS OF GRAVEL Pavement Layers constructed from gravel obtained from commercial sources d) Gravel Sub base (Chemically stabilised material) compacted to: 1) 97% of Modified AASHTO Density (250mm thickness, minimum G6 material)	m3	800		
Total Carried forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
71.00	CONCRETE PAVEMENTS				
LIC71.01	Concrete Trial Pavement (b) Manual construction (150mm thick) - 60m x 4m	m3	60		
LIC71.02	Concrete pavement (150mm thick) excluding texturing and curing	m3	590		
LIC71.03	Extra over item 71.02 for concrete pavement - hand placing	m3	650		
LIC71.04	Texturing and curing the concrete pavement:				
	(a) Deeply textured	m2	3600		
	(b) Curing	m2	3600		
LIC71.06	Joints:				
	(a) Expansion joints complete (excluding dowels)	m	1000		
LIC71.08	Steel reinforcement in concrete pavement:				
	(a) Dowel bars (mild steel) (20mm dia x 1,0m long):	No.	Rate		Rate
	(c) Welded steel fabric (Ref 245)	tons	10		
LIC71.21	Anchor (complete including excavation and concrete)				
	(b) Panel anchor (0,6 x 0,4 x 4,0)	m	64		
Total Carried Forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
B54.00	GUARD RAILS				
LIC54.01	Guard Rail on Timber Posts				
	a) Galvanised	m	114,3		
LIC54.03	Extra over item 54,01 for horizontally curved guard rails factory bent to a radius of less than 45m	m	38,1		
LIC54.04	End Treatments	No.	8		
LIC54.05	Additional Guard Rail Posts	No.	20		
LIC54.06	Reflective Plates	No.	150		
LIC54.07	Removing Existing Guard Rails	m	50		
LIC54.09	Re-erection of guard rails with recovered and/or new material	m	50		
LIC54.10	Re-erection of end treatments with recovered material				
	a) End Wings	No.	4		
Total Carried Forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
B56.00	ROAD SIGNS				
LIC56.01	Allow Provisional sum for road signs	P. Sum	1	R 20 000,00	R 20 000,00
Total Carried Forward to Summary					R 20 000,00

Item	Description	Unit	Sch. Qty	Rate	Amount
B57.00	ROAD MARKING				
LIC57.01	Allow Provisional sum for road marking	P. Sum	1	R 20 000,00	R 20 000,00
Total Carried Forward to Summary					R 20 000,00

Item	Description	Unit	Sch. Qty	Rate	Amount
58.00	LANDSCAPING AND PLANTING PLANTS				
LIC58.01	Trimming				
	b) Hand Trimming	m2	100		
LIC58.03	Preparing the areas for grassing:				
	c) Topsoiling within the road reserve where the following materials are used				
	ii) Topsoiling obtained from other sources by the contractor including all freehaul	m3	50		
	e) Providing and Applying chemical fertilisers and / or soil improvement materials				
	iv) Formular 2:3:2 (22)	m3	50		
	Placing of Topsoil (100mm Thick)	m3	50		
LIC58.04	Grassing				
	c) Hydrseeding				
	iii) Hydro seeding	ha	0,1		
Total Carried Forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
LIC59,01	Finishing the Road and Road Reserve: b) Single Carraigeway	km	1		
Total Carried Forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
81.00	TESTING MATERIALS AND WORKMANSHIP				
B81.02	Other Special Tests Requested by the Engineer				
	a) Cost of testing	PC Sum	1	R 100 000,00	R 100 000,00
	b) Handling Cost and Profit in respect of sub item B81.02 (a) above	%		R 100 000,00	
Total Carried Forward to Summary					

Item	Description	Unit	Sch. Qty	Rate	Amount
D1000	DAYWORKS				
D1.01	Compactors				
	a) Vibrating Roller (Smooth) 10t	hr	18		
D1.04	Excavators				
	a) Rubber tyred min. 50kw	hr	18		
D1.06	Trucks				
	a) Water Tanker (up to 7000 litre)	hr	18		
D1.07	TLB 4 x 4	hr	18		
D1.07	Motor Grader	hr	18		
D1.08	Foreman	hr	18		
D1.10	a) Semi - Skilled	hr	18		
	b) Unskilled	hr	18		
Total Carried Forward to Summary					

SUMMARY OF SECTIONS		
ITEM	SECTION	AMOUNT
1200/1300	General Requirements and Provisions / Establishment	
1500	Accommodation of Traffic	
1600	Overhaul	
1700	Clearing and Grubbing	
2100	Drains	
2200	Prefabricated Culverts	
2300	Concrete Kerbing, Concrete Channeling, Chutes	
3100	Borrow Materials	
3300	Mass Earthworks	
3400	Pavement Layers of Gravel Material	
7100	Concrete Pavements	
B5400	Guard Rails	
B5600	Road Signs	R 20 000,00
B5700	Road Markings	R 20 000,00
5800	Landscaping and Planting Plants	
5900	Finishing Road and Road Reserve	
8100	Testing Materials and Workmanship	
D1000	Dayworks	
	SUBTOTAL	
	ADD CONTINGENCIES @ 10%	
	SUBTOTAL	
	ADD 15% VAT	
	TOTAL CARRIED FORWARD TO FORM OF OFFER	