

Item	LIC	Description	Unit	Qty	Rate	Amount
B12.01		<b>GENERAL REQUIREMENTS AND PROVISIONS</b>  Excavation: Excavating material within the following depth ranges below ground level for the exposing of/or searching for services: a) 0m to 2m i) Soft excavation ii) Hard excavation  b) Extra over item B12.01 (a) for excavation by means of hand tools such as picks, crowbars and pneumatic tools or mechanical breakers in close vicinity of services where no machine excavation is permitted. i) Soft excavation ii) Hard excavation	m³		Rate Only	
B12.02		Backfilling:	m³		Rate Only	
		a) Using the excavated material	m³		Rate Only	
		b) Using imported selected material	m³		Rate Only	
B12.03		Relocation and protection of existing services:				
		a) Relocation, including lowering or raising,	Prov. Sum	1.00	50,000.00	50,000.00
		b) Handling cost and profit in respect of sub-item B12.03(a)	%	50,000.00		
B12.04		Provision of Community Liaison Officer:				
		a) Provisional sum for the payment of the Community Liaison Officer	Prov. Sum	1.00	9,000.00	9,000.00
		b) Handling costs and profit in respect of sub-item	%	9,000.00		
B12.05		Provision of Project Steering Committee:				
		a) Provisional sum for the payment of the PSC	Prov. Sum	1.00	7,200.00	7,200.00
		b) Handling costs and profit in respect of sub-item B12.05(a)	%	7,200.00		
B12.06		Provision for Environmental Management Plan				
		(a) Provisional sum for Compiling Environmental Management plan	Prov Sum	1	15000	15,000.00
		(c) Handling cost and profit in respect of sub-items B12.06(a)	%	15000		
<b>Total Carried Forward To Summary</b>						

Item	LIC	Description	Unit	Qty	Rate	Amount
B13.01		<b>CONTRACTORS ESTABLISHMENT ON SITE AND</b>				
		The contractors general obligations :				
		(a) Fixed obligations	Lump Sum	1.00		
		(b) Value-related obligations	Lump Sum	1.00		
		(c) Time-related obligations	Month	2.00		
		The combined total tendered for sub-items (a), (b) and				
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
B14.01		<b>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</b> <b>Office and laboratory accommodation:</b>				
		The provision of accommodation as specified, including roof, external and internal walls, windows complete with glazing, doors with locks and fittings burglar proofing, painting, floors, fencing, the provision of a 220/250 volt electrical etc., scheduled elsewhere : drawings and specifications, except for items stores, complete, in accordance with the water and sewerage installation, and installation with wiring, switchboards,				
		(a) Offices (interior floor space only)	m²	24.00		
		(e) Ablution units	m²	4.00		
B14.02		<b>Office and laboratory furniture:</b> <b>(a) Chairs</b>	No.	20		
		(d) Desks, complete with drawers and locks	No.	1		
		(f) Conference tables	No.			
B14.03		Office and laboratory fittings, installations and equipment:				
		(a) Items measured by number :				
		<b>(x) Fire extinguishers, 9,0kg, all-purpose dry powder type, complete, mounted on wall with brackets</b>	No.	1		
		<b>(xiv) General - purpose steel cupboards with shelves</b>	No.	1		
		(xx) Measuring wheel	No.	1		
		(xxi) Dumping level, Tripot and 5m levelling staff (1cm graduations with bubble)	Prov. Sum	0.00		
		(xxii) Intel Core i7-3610 QM computer with min. 500 GB hard drive, cd & dvd-rom, keyboard, mouse, colour monitor etc. and Sumsung CLP-365 colour printer	Prov. Sum	0.00		
		(xxiii) Colour printer and copier	Prov. Sum	0.00		
B14.03		(b) Prime-cost items and items paid for in a lump sum:				
		(ix) Provision of cellular telephones:				
		(2) Cost of calls and other charges	Prov. Sum	1	10000	10,000.00
		(3) Handling cost and profit in respect of sub-item B14.03 (b)(ix)(2) above	%	10000		
		(c) Items measured by area:				
		(viii) Notice boards as per final tender drawing	m²	4.20		
		Car ports				
		Car ports, 3.0m wide and 2,5m high, at offices	No.	1.00		
Total Carried Forward						

Item	LIC	Description	Unit	Qty	Rate	Amount
Brought Forward						
B14.07		<b>Rented, hotel and other accommodation</b>				
		(a) Provisional sum for providing rented housing, hotel	Prov.Sum	1.00	18000	18,000.00
		(b) Handling costs and profit in respect of sub-item	%	18,000.00		
14.08		<b>Services:</b>				
		(a) Services at offices:				
		(i) Fixed costs	Lump Sum	1.00		
		(ii) Running costs	Month	3.00		
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>ACCOMMODATION OF TRAFFIC</b>				
B15.01		Accommodating traffic and maintaining temporary deviations:	km	0.40		
15.02		Earthworks for temporary deviations:				
		(a) Shaping of temporary deviations	km	0.4		
		(b) Cut and borrow to fill	m³			
		(c) Cut to spoil	m³			
B15.03	LI	Temporary traffic-control facilities:				
		(a) Flagmen	man-days	44		
		(b) Portable STOP and GO-RY signs	No.			
		(d) Amber flicker	No.			
		(e ) Road signs R- and TR -series (TR201 RB)	No	3		
		(f) Road signs, TW series (TW407, TW336,TW337)	No.	10.00		
15.04		Relocation of traffic-control facilities	Lump Sum	1.00		
15.05		Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				
		(a) Temporary deviations	m³	20.00		
15.06		Watering of temporary deviations	kl	150		
15.07		Blading by road grader of:				
		(a) Temporary deviations	km-pass	15.00		
B15.15		Rotating beacons for use by the Engineer (Type Lucas 12V 55W AE 20087719, or similar)	No	0.00		
B15/22.01		Excavation:				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
		(i) 0m up to 1,5m	m³			
B15/22.02		Backfilling :				
		(a) Using the excavated material	m³			
B15/16.01		Overhaul on material hauled in excess of a free-haul distance of 0.5km, for haul up to or through 1.0 km (restricted overhaul)	m³			
B15/16.02		Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m³km			
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>CLEARING AND GRUBBING</b>				
B17.01		Clearing and grubbing	ha	0.20		
B17.02		Removal and grubbing of large trees and tree stumps:				
		(a) Girth exceeding 1m up to and including 2m	No			Rate Only
		(b) Girth exceeding 2m up to and including 3m	No			Rate Only
		(c) Girth exceeding 3m up to and including 4m	No			Rate Only
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>DAYWORKS</b>				
B18.01		Labourers:				
		(i) Unskilled	hour	15.00		Rate Only
		(ii) Semi-skilled	hour	10.00		Rate Only
		(iii) Skilled	hour	5.00		Rate Only
B18.02		Foreman	hour	5.00		Rate Only
B18.03		Tipper trucks:				
		(i) 3 - 5 ton	hour	5.00		Rate Only
		(ii) 5,1 - 10 ton	hour	5.00		Rate Only
B18.04		Loader (0,5m³)	hour	5.00		Rate Only
B18.05		Grader (CAT 140G or similar)	hour	5.00		Rate Only
B18.06		LDV	hour	10.00		Rate Only
B18.07		Compaction Rollers:				
		(i) Vibrator roller	hour	5.00		Rate Only
		(ii) Tamping roller	hour	5.00		Rate Only
		(iii) Grid roller	hour	5.00		Rate Only
B18.08		Hand controlled compactors:				
		(i) Pedestrian roller (Bomag BW90)	hour	5.00		Rate Only
		(ii) Vibratory plate	hour	5.00		Rate Only
		(iii) Rammers	hour	5.00		Rate Only
B18.09		Water truck (min. 10 000 l)	hour	5.00		Rate Only
B18.10		Dozer (D7 or similar)	hour	5.00		Rate Only
B18.11		Tracked Excavator (92kw)	hour	5.00		Rate Only
Total Carried Forward To Summary						0

Item	LIC	Description	Unit	Qty	Rate	Amount
B21.01		<b>DRAINS</b> <b>Excavation for open drains</b> Excavation: Excavating material within the following depth ranges below ground level for the exposing of/or searching for services: a) 0m to 1,5m i) Soft excavation ii) Hard excavation	m <sup>3</sup>     m <sup>3</sup>	245		Rate Only
B21.03		Excavation for sub-soil drainage systems Excavation: Excavating material within the following depth ranges below ground level for the exposing of/or searching for services: a) 0m to 1,5m i) Soft excavation ii) Hard excavation	m <sup>3</sup>   m <sup>3</sup>			Rate Only   Rate Only
B21.04		Impermeable backfilling to subsoil drainage systems:  a) Layerworks including carefully stockpiling of material, including all necessary accommodation of traffic and bypasses, complete:  (i) Gravel shoulders 150mm thick compacted to 93% mod AASHTO density	m <sup>3</sup>			Rate Only
B21.06		Natural permeable material in subsoil drainage systems: (a) 19mm Crushed stone obtained from approved sources on site  (b) 19mm Crushed stone obtained from commercial	m <sup>3</sup>  m <sup>3</sup>			Rate Only  Rate Only
B21.08		Pipes in subsoil drainage systems: Supply, Lay, Bed and test Kaytech subsoil pipes complete: (a) 110 mm Diameter  (b) 160 mm Diameter	m  m			Rate Only  Rate Only
21.1		Synthetic-fibre filter fabric	m2			Rate Only
Total Carried Forward To Summary						



Item	LIC	Description	Unit	Qty	Rate	Amount
B23.01		<b>CONCRETE KERBING, CONCRETE</b>  Concrete kerbing:				
	LI	(a) Precast concrete kerbing				
	LI	(i) Fig.3	m	320		
		(i) Fig.8c	m	720.00		
B23.03		Concrete chutes (typical designs):				
	LI	(b) Supply and install pre-fabricated concrete chutes as detailed on dwg. 2/26	m			
B23.08		<b>Concrete lining for open drains:</b>				
		a) Cast on concrete lining for V-drain (class 25/19)	m <sup>3</sup>	72.00		
B21.01		<b>Excavating for open drains:</b>				
		a) Excavating soft material situated within the following depth ranged below the surface level:				
		i) 0 m up to 1.5 m	m <sup>3</sup>			Rate Only
		b) Extra over subitem 21.01 (a) for excavation in hard material, irrespective of depth	m <sup>3</sup>			Rate Only
B21,19		Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density	m <sup>3</sup>			Rate Only
B22		Welded Mesh wire (ref,193)	m <sup>2</sup>	720		
B23		25 Mpa Pre cast concrete slab (3m x 2,5m x 200mm thick)	No			Rate Only
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
B31.01		<b>BORROW MATERIALS</b>				
		Excess overburden:				
		(a) Depth up to and including 0,5m	m³	200.00		
B31.03		Finishing-off borrow areas in:				
		(b) Intermediate material	ha	0.05		
		(c) Soft material	ha	0.05		
		Compensation to Landowners	Prov Sum	1	10000	10000
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
B33.01		<b>MASS EARTHWORKS</b>				
		Cut and borrow to fill, including free-haul up to 0,5km:				
		(a) Material in compacted layer thicknesses of 200				
		(ii) Compacted to 90% of modified AASHTO	m³			Rate Only
B33.03		(e) Pioneer layer (as specified in sub clause 3307(c))	m³			Rate Only
		Extra over item B33.01 for excavating and breaking				
		(a) Intermediate excavation	m³			Rate Only
		(b) Hard excavation	m³			Rate Only
B33.04		(c) Boulder excavation Class A	m³			Rate Only
		(d) Boulder excavation Class B	m³			Rate Only
		Cut to spoil, including free-haul up to 0,5km. Material				
		(a) Soft excavation	m³	215.00		
B33.07		(b) Intermediate excavation	m³	356.00		
		(c) Hard excavation	m³	320.00		
		Removal of unsuitable material (including free-haul of 0,5km):				
		(a) In layer thicknesses of 200 mm and less:				
B33.10		(i) Stable material	m³	20		
		Roadbed preparation and the compaction of material:				
		(a) Compaction to 90% of modified AASHTO density	m³	360		
		In situ treatment of roadbed:				
B33.12		(a) In situ treatment by ripping	m³	360		
Total Carried Forward						

Item	LIC	Description	Unit	Qty	Rate	Amount
Brought Forward						
B33.13		Finishing-off cut and fill slopes, medians and				
		(a) Cut slopes	m²	40.00		
		(b) Fill slopes	m²	40.00		
B33/16.01		Overhaul on material hauled in excess of a free-haul	m³	360.00		
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
B34.01		<b>PAVEMENT LAYERS OF GRAVEL MATERIAL</b> Pavement layers constructed from gravel taken from				
		(d) Gravel sub-base (chemically stabilised material)				
		(i) 95% of modified AASHTO density (150 mm)	m³	420.00		
B34.02		Extra over item B34.01 for excavation of material in:				
		(a) Intermediate excavation	m³	120.00		
		(b) Hard material	m³			Rate Only
		Insitu reconstruction of existing pavement layers as:				
		(e) Gravel sub-base (chemically stabilised material)				
		(i) Non-cemented material 150 mm thick	m³			
B34.06		<b>Extra over item B34.04 for adding extra material as</b>				
		(b) Gravel Subbase	m³			Rate Only
B34.07		Extra over item 34.04 for material temporarily blading	m³			
B34/16.02		Overhaul on material hauled in excess of 1,0km	m³km	540.00		
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>STABILIZATION</b>				
B35.01		Chemical stabilization extra over compacted layers:				
		(b) Subbase layer, 150mm thick	m³	360.00		
B35.02		Chemical stabilizing agent:				
		(a) CEM II (B-L) cement	t	19.00		
		(b) Portland blast-furnace cement	t			
		(c) Slaked road lime	t			
B35.04		Provision and application of water for curing	kl			Rate Only
B35.05		Curing by covering with the subsequent layer	m²			Rate Only
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>ROAD SIGNS</b>				
B56.01		Road sign boards with painted or coloured semi-matt				
		(c) Pre-painted galvanized steel plate (chromadek or				
		(i) Area not exceeding 2m <sup>2</sup>	m <sup>2</sup>	8.00		
		(ii) Area exceeding 2m <sup>2</sup> but not exceeding 10m <sup>2</sup>				
		(iii) Area exceeding 10m <sup>2</sup>	m <sup>2</sup>			Rate Only
B56.02		Extra over item 56.01 for using:				
		(a) Background of retro-reflective material:				
		(i) Class III	m <sup>2</sup>	8.00		
B56.03		Road sign supports (over-head road sign structures				
		(a) Steel tubing, 76 mm dia. D-shape, 2,0 mm wall thickness, galvanised	t			Rate Only
		(b) Timber:				
		(i) 100 mm dia.	m	24.00		
		(ii) 150 mm dia.	m			Rate Only
B56.04		Kilometre posts (concrete 30/19) precast	No			Rate Only
B56.05		Excavating and backfilling for road sign supports (not	m <sup>3</sup>			Rate Only
B56.06		Extra over item B56.05 for cement-treated soil backfill	m <sup>3</sup>			Rate Only
B56.07		Extra over item B56.05 for rock excavation	m <sup>3</sup>			Rate Only
B56.10		Danger plates at culverts/structures:				
		(a) Type A at stormwater culverts (150 mm x 600	No	16.00		
		(b) Type B at bridge structures (250mm x 1000mm)	No			Rate Only
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
B57.02		<b>ROAD MARKINGS</b>				
	LI	Retro-reflective road-marking paint:				
	LI	(a) White lines (broken or unbroken):				
	LI	(i) 100 mm wide	km	0.40		
	LI	(ii) 150mm wide	km			Rate Only
	LI	(iii) 500 mm wide	km			Rate Only
	LI	(b) Yellow lines				
	LI	(i) 100 mm wide	km			Rate Only
	LI	(ii) 150 mm wide	km			Rate Only
	LI	(iii) 200 mm wide	km			Rate Only
	LI	(d) White lettering and symbols	m²	24.00		
	LI	(e) Yellow lettering and symbols	m²			Rate Only
	LI	(f) Transverse lines, painted island and arrestor bed	m²			Rate Only
	LI	(g) Kerb markings ( any colour)	m²			Rate Only
57.04	LI	Variations in rate of application:				
	LI	(a) White paint	l			Rate Only
	LI	(b) Yellow paint	l			Rate Only
	LI	(d) Retro-reflective beads	kg			Rate Only
B57.06	LI	Setting out and pre-marking the lines (excluding traffic	km	0.40		
Total Carried Forward To Summary						



Item	LIC	Description	Unit	Qty	Rate	Amount
B59.01		<b>FINISHING THE ROAD AND ROAD RESERVE AND</b>  Finishing the road and road reserve:  (b) Single carriageway road	km	0.40		
59.02		Treatment of old roads and temporary deviations	km			Rate Only
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
		<b>CONCRETE BLOCK PAVING FOR ROADS</b>				
B73.01	LI	Concrete block paving 60 mm S-A Type A (class	m²	2,400		
B73.02	LI	Cast in situ concrete edge and intermediate beams	m³	1		
B73.03	LI	Provision of approved herbicide and ant poison:				
	LI	a) Provision of materials	P C Sum	1	35,000.00	35,000.00
	LI	b) Contractor's charges and profit added to the prime	%	35,000		
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
81.02		<b>TESTING MATERIALS AND WORKMANSHIP</b> Other special tests requested by the engineer	Prov. Sum	1.00	10,000.00	10,000.00
Total Carried Forward To Summary						10,000.00

Item	LIC	Description	Unit	Qty	Rate	Amount
E12.05		PROVISION OF STRUCTURED TRAINING				
		(a) Generic skills	Prov Sum	1.00	25,000.00	25,000.00
		(b) Entrepreneurial skills	Prov Sum	1.00	25,000.00	25,000.00
		(c) Student in training	Prov Sum	1.00	7000	7,000.00
		(d) Handling cost and profit in respect of sub-items	%	57,000.00		
Total Carried Forward To Summary						

Item	LIC	Description	Unit	Qty	Rate	Amount
C		<b>OCCUPATIONAL HEALTH AND SAFETY ACT</b>				
C.1		Contractor's initial obligations in respect of the	L/SUM	1.00		
C.2		Contractor's time related obligations in respect of the	Month	2.00		
C.3		Submission of the Health and Safety File	L/SUM	1.00		
Total Carried Forward To Summary						

## SUMMARY OF SECTIONS

Item	Description	Amount (Rand)
SECTION 1200	GENERAL REQUIREMENTS AND PROVISIONS	
SECTION 1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
SECTION 1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL	
SECTION 1500	ACCOMMODATION OF TRAFFIC	
SECTION 1700	CLEARING AND GRUBBING	
SECTION 1800	DAYWORKS	
SECTION 2100	DRAINS	
SECTION 2300	CONCRETE KERBING, CONCRETE CHANNELLING OPEN CONCRETE CHUTES AND CONCRETE LININGS FOR OPEN DRAINS	
SECTION 3100	BORROW MATERIALS	
SECTION 3300	MASS EARTHWORKS	
SECTION 3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
SECTION 3500	STABILIZATION	
SECTION 5600	ROAD SIGNS	
SECTION 5700	ROAD MARKINGS	
SECTION 5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
SECTION 7300	CONCRETE BLOCK PAVING FOR ROADS	
SECTION 8100	TESTING MATERIALS AND WORKMANSHIP	10,000.00
Sub-total 1		
SECTION E	PROVISION OF STRUCTURED TRAINING	
SECTION C	OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS	
Sub-total 2		
<b>TOTAL VALUE OF WORK DONE</b>		