
Part C2: Pricing Data

PRIEVIEW COPY ONLY

Part C2

PRICING INSTRUCTIONS

CONTENTS

Section no.

Description

C2.1

PRICING INSTRUCTIONS GENERAL

C2.1.11

MEASUREMENT AND PAYMENT

C2.2

BILL OF QUANTITIES

PREVIEW COPY ONLY

PART C2.1

Pricing Instructions

2.1 Pricing Instructions - General

2.1.1 Measurement and payment shall be in accordance with relevant provisions of clause 8 of each of the SANS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Work.

2.1.2 The units of measurement described in these Bills of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

%	=	percentage
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
l	=	litre
m	=	metre
No.	=	number
Prov sum	=	Provisional sum
Sum	=	Lump sum
W/day	=	Work day
R/only	=	Rate only
Worklot	=	area totalling 300m ²

2.1.3 For the purpose of these Bill of Quantities, the following word shall have the meanings assigned to them:

Unit: The unit of measure for each item of work as defined in the COLTO Standard specification.

Quantity: The number of units of works for each item.

Rate: The agreed payment per unit measurement.

Amount: The product of the quality and the agreed rate for an item.

2.1.4 No allowance is made for waste on items in the Bill of Quantities.

2.1.5 It will be assumed that the prices included in the Bills of Quantities are based on Acts, Ordinances, regulations, By-laws, International Standards and National Standards that were published 28 day before the closing date for tenders.

2.1.6 Such prices and rates cover all costs and expenses that may be required for the execution of the works described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract Data, as well as overhead charges and profit.

2.1.7 The quantities set out in the Bill of Quantities and Prices are estimated and may be more or less than stated. The Contractor shall submit with his/her tender a complete and detailed priced Bill of Quantities (prepared in black ink) for the Works.

- 2.1.8 Each item shall be priced by the Tenderer. If the Contractor has omitted to price any items in the Bill of Quantities, the cost of the work included in such items will be held to be spread over and included in the prices given in the other items of work.
- 2.1.9 Payment for this contract shall be based on the Bill of Quantities and the payment will be made in accordance with the rates tendered in the Bill of Quantities.
- 2.1.10 The absence of stated quantities in the Bill of Quantities is no guarantee that none will be required. Reasonable prices should therefore be inserted for every item as these prices may be considered in adjudication of tenders.

The short descriptions of the items in the Bill of Quantities are for identification purposes only.

Items classified as "provisional worklots" in the Bill of Quantities indicate that there is no certainty about the amount of work, which will be required. In this contract the provisional items, where applicable, are for the treatment of areas, which are not necessarily treated annually. These areas will be measured per provisional worklot as defined in Part C3 Scope of the Works 7.1.2.2, or stated in the Bill of Quantities and the standard of control for individual worklots shall apply.

2.1.11 Pricing Instructions - Measurement and Payment

- 2.1.11.1 Payment will be based on the numbers of worklots treated as instructed by the Supervisor and to which the Contractor successfully applied the vegetation control measures and has achieved the standard of control defined in Scope of Work clause 7.3.
- 2.1.11.2 No payment will be made for rejected worklots where control achieved does not meet the standards of control specified.
- 2.1.11.3 Measurement and payment for the work completed will be made in **3** stages.
- 2.1.11.4 After completion of the initial spraying of the entire contract area the Supervisor or his deputy and the Contractor will measure the work performed (number of worklots sprayed). The Contractor will thereafter receive payment at **50%** of the rates tendered for all of the completed work.
- 2.1.11.5 A second measurement and evaluation will be made concurrent with the first official inspection conducted in accordance with Scope of Work clause 5.4.5 The Contractor will thereafter receive payment at **25%** of the rates tendered for all worklots where control as specified has been achieved or clear signs are evident that control is in the process of being achieved.
- 2.1.11.6 A third measurement and evaluation will be made concurrent with the second official inspection conducted in accordance with Scope of Work clause 5.4.6. The Contractor will thereafter receive payment at **25%** of the rates tendered for all worklots where control has been achieved.

2.2 Bill of Quantities

- See attached Bill Of Quantities
- Bill of Quantities will **not** be made available in an electronic format.

PRIEVIEW COPY ONLY

PART C2.2

Bill of Quantities

- See attached Bill Of Quantities
- Bill of Quantities will not be made available in an electronic format.

PRIEVIEW COPY ONLY

BILL OF QUANTITIES : YARDS

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
1.01	Rayton	1.9596	19596.0	65.32					
	Subtotal		19596.0	65.32					
	<u>LINE 92</u>								
1.02	Zonderwater	1.4364	14364.0	47.88					
1.03	Cullinan	0.9630	9630.0	32.10					
	Subtotal		23994.0	79.98					
	<u>LINE 91</u>								
1.04	Greenview connecting line	1.5528	15528.0	51.76					
	Subtotal		15528.0	51.76					
	<u>LINE 28</u>								
1.05	Bronkhorstspruit	1.3512	13512.0	45.04					
1.06	Clewer	7.1900	71900.0	239.67					
1.07	Balmoral	3.5124	35124.0	117.08					
1.08	Wakefield	1.1310	11310.0	37.70					
1.09	Wilgerivier	2.0740	20740.0	69.13					
	Subtotal		152566.0	508.62					

PREVIEW COPY ONLY

BILL OF QUANTITIES : YARDS									
Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	<u>LINE 69</u>								
1.10	Witbank	26.1720	261720.0	872.40					
1.11	Witbank Silyn	5.4300	54300.0	181.00					
1.12	Olifantsrivier	1.0400	10400.0	34.67					
1.13	Hillside	0.4540	4540.0	15.13					
1.14	Uitkyk	1.2156	12156.0	40.52					
1.15	Middelburg	8.2450	82450.0	274.83					
1.16	Derwent	2.4480	24480.0	81.60					
	Subtotal		450046.0	1500.15					
	<u>LINE 70</u>								
1.17	Pan	1.7898	17898.0	59.66					
1.18	Casshome	1.4800	14800.0	49.33					
1.19	Arnot	2.4816	24816.0	82.72					
1.20	Wonderfontein	4.1442	41442.0	138.14					
1.21	Sunbury	1.5816	15816.0	52.72					
1.22	Belfast	9.3972	93972.0	313.24					
	Subtotal		208744.0	695.81					
	<u>LINE 31</u>								
1.23	Bergendal	1.0086	10086.0	33.62					
1.24	Fairview	1.6512	16512.0	55.04					
1.25	Machadodorp	1.4158	14157.8	47.19					
1.26	Goedgeluk	1.6434	16434.0	54.78					
	Subtotal		57189.8	190.63					

BILL OF QUANTITIES : YARDS									
Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	<u>LINE 73</u>								
1.27	Nitens yard	3.2754	32754.0	109.18					
1.28	Boord	0.9720	9720.0	32.40					
1.29	Kleindam	0.7446	7446.0	24.82					
1.30	Wapadskloof	0.5922	5922.0	19.74					
1.31	Sterkloop	0.4260	4260.0	14.20					
1.32	Hanmien	0.3900	3900.0	13.00					
	Subtotal		64002.0	213.34					
	<u>LINE 74</u>								
1.33	Stoffberg	1.3023	13023.0	43.41					
1.34	Roosenekal	4.0944	40944.0	136.48					
	Subtotal		53967.0	179.89					

PREVIEW COPY ONLY

BILL OF QUANTITIES : YARDS

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	LINE 75								
1.35	Craigend	0.0864	864.0	2.88					
1.36	Palmer	1.2042	12042.0	40.14					
1.37	Santa yard	1.0128	10128.0	33.76					
1.38	Dullstroom	1.0194	10194.0	33.98					
1.39	Vermont	1.5648	15648.0	52.16					
1.40	Klipsteen	0.8196	8196.0	27.32					
1.41	Bosoord	1.0902	10902.0	36.34					
1.42	Voetpad	0.8112	8112.0	27.04					
1.43	Lydenburg	6.5762	65762.0	219.21					
1.44	Lydenburg - Diesel Depot	2.6124	26124.0	87.08					
1.45	Potloodspruit	0.8244	8244.0	27.48					
1.46	Schalksrus	0.7128	7128.0	23.76					
1.47	Rusplaas	0.8328	8328.0	27.76					
1.48	Ohrigstad	1.2186	12186.0	40.62					
1.49	Apiesdoring	1.1898	11898.0	39.66					
1.50	Burgersfort	1.6770	16770.0	55.90					
1.51	Morone	0.5430	5430.0	18.10					
1.52	Steelpoort	5.5896	55896.0	186.32					
	Subtotal		293852.0	979.51					

PRELIMINARY COPY ONLY

BILL OF QUANTITIES : YARDS									
Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	<u>CENTRAL</u>								
1.53	Koedoespoort	7.0000	70000.0	233.33					
1.54	Koedoespoort - Diesel Depot	3.8260	38260.0	127.53					
1.55	Koedoespoort - Silverton Service line	0.7800	7800.0	26.00					
1.56	Koedoespoort - Material Yard	1.5125	15125.0	50.42					
	Koedoespoort - Ballast siding	0.7764	7764.0	25.88					
1.57	Waltloo	3.1020	31020.0	103.40					
1.58	Centurion-Military siding	1.3365	13365.0	44.55					
1.59	Centurion-Samancor siding	0.2100	2100.0	7.00					
1.60	Hercules-PPC siding	0.4200	4200.0	14.00					
1.61	Nampack	0.2348	2348.0	7.83					
1.62	Capital Park Yard	23.4200	234200.0	780.67					
1.63	Pretcon line Capital Park-Pretcon	3.2754	32754.0	109.18					
1.64	Pretcon Yard	2.6844	26844.0	89.48					
1.65	Capital Park Loco and Goods Shed	2.0100	20100.0	67.00					
1.66	Blue Train Shed	2.3300	23300.0	77.67					
1.67	Blue Train Shed-Connecting line	0.0000	0.0	0.00					
1.68	Cor Delfos	10.2885	102885.0	342.95					
1.69	Nywerheid	1.3870	13870.0	46.23					
1.70	Rossllyn	2.3530	23530.0	78.43					
1.71	Saulsville	0.2289	2289.0	7.63					
	Subtotal		671754.0	2239.18					

BILL OF QUANTITIES : YARDS									
Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	<u>LINE 82</u>								
1.72	Pretoria West	9.5755	95755.0	319.18					
1.73	Hercules	4.4950	44950.0	149.83					
1.74	Bon Accord	1.4940	14940.0	49.80					
1.75	Pyramid	2.4003	24003.0	80.01					
	Subtotal		179648.0	598.83					
	<u>WESTERN MAINLINE</u>								
	<u>LINE 23</u>								
1.76	Atlanta	1.7466	17466.0	58.22					
	Subtotal		17466.0	58.22					
	<u>LINE 20</u>								
1.77	Pendoring	3.6269	36269.0	120.90					
1.78	Pyramid-Suid	52.2175	522175.0	1740.58					
	Subtotal		558444.0	1861.48					
	<u>LINE 25</u>								
1.78	Brits	1.8792	18792.0	62.64					
1.79	Wolhuterskop	1.4572	14572.0	48.57					
1.80	Marikana	2.8600	28600.0	95.33					
1.81	Bleskop	3.3955	33955.0	113.18					
1.82	Turfgrond siding	0.0824	823.8	2.75					
1.83	Wonderkop siding	0.3385	3385.2	11.28					
	Subtotal		100128.0	333.76					

BILL OF QUANTITIES : YARDS									
Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	LINE 26								
1.84	Rustenburg	4.0596	40596.0	135.32					
1.85	Rustenburg Goods	3.8748	38748.0	129.16					
1.86	Phokeng	1.8767	18767.0	62.56					
1.87	Boshoek	0.7780	7780.0	25.93					
1.88	Heystekrand	0.7570	7570.0	25.23					
1.89	Northam	1.4503	14503.0	48.34					
1.90	Tussenin	1.1018	11018.0	36.73					
1.91	Ferrogate	1.4947	14947.0	49.82					
1.92	Thabazimbi	8.6679	86679.0	288.93					
	Subtotal		240608.0	802.03					
	TOTAL YARDS		3107553	10359					

PREVIEW COPY ONLY

BILL OF QUANTITIES : RELAY-ROOMS

Item	Line code	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
		Western Mainline								
2.01	11	Leeufontein	0.01	144	0.48					
2.02	11	Baviaanspoort	0.01	144	0.48					
2.03	11	Kameeldrift	0.02	175	0.58					
2.04	20	Pyramid South	0.02	175	0.58					
2.05	20	Dam	0.02	175	0.58					
2.06	20	Ondestepoort	0.02	175	0.58					
2.07	20	Wildebeesshoek	0.02	175	0.58					
2.08	20	de Wilt	0.02	175	0.58					
2.09	20	Stephanus	0.02	175	0.58					
2.10	20	Pendoring	0.28	2782	9.27					
2.11	82	Bon Accord	0.02	175	0.58					
2.12	82	Pyramid	0.02	232	0.77					
		Eastern Mainline								
2.13	11	Eerste fabriek-greenview	0.02	182	0.61					
2.14		GNW	0.02	208	0.69					
2.15	91	Greenview-panpoort	0.03	336	1.12					
2.16	91	Panpoort	0.03	330	1.10					
2.17	91	Van der merwe	0.02	208	0.69					

BILL OF QUANTITIES : RELAY-ROOMS

Item	Line code	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
2.18	91	Rayton	0.02	208	0.69					
2.19	28	Forfar	0.02	208	0.69					
2.20	28	Forfar-Bronkhorstspruit	0.02	182	0.61					
2.21	28	Forfar-Bronkhorstspruit	0.02	208	0.69					
2.22	28	Bronkhorstspruit	0.02	208	0.69					
2.23	28	Wilgerivier	0.02	208	0.69					
2.24	28	Wilgerivier-Balmoral	0.02	208	0.69					
2.25	28	Balmoral	0.02	208	0.69					
2.26	28	Wakefield	0.02	208	0.69					
2.27	28	Clewer	0.02	208	0.69					
2.28	28	Leybank	0.02	216	0.72					
2.29	69	Mynhoop	0.06	573	1.91					
2.30		GVB	0.29	2880	9.60					
2.31	69	Oosbank	0.04	360	1.20					
2.32	69	Olifantsrivier	0.02	208	0.69					
2.33	69	Hillside	0.02	208	0.69					
2.34	69	Uitkyk	0.02	208	0.69					
2.35	69	Middelburg	0.16	1580	5.27					
2.36	69	Derwent	0.03	308	1.03					

BILL OF QUANTITIES : RELAY-ROOMS

Item	Line code	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
2.37	70	Pan	0.02	208	0.69					
2.38	70	Casshome	0.02	208	0.69					
2.39	70	Arnot	0.02	208	0.69					
2.40	70	Spoelspan	0.02	208	0.69					
2.41	70	Wonderfontein	0.10	980	3.27					
2.42	70	Sunbury	0.02	208	0.69					
2.43	70	Belfast	0.16	1647	5.49					
2.44	31	Bergendal	0.02	208	0.69					
2.45	31	Dalmanutha	0.02	208	0.69					
2.46	31	Fairview	0.02	208	0.69					
2.47	31	Machadodorp	0.02	208	0.69					
2.48	30	Goedgelek	0.02	208	0.69					
SUB TOTAL RELAY ROOMS			1.93	19268	64.23					
TOTAL RELAY ROOMS			1.93	19268	64.23					

PREVIEW COPY ONLY

BILL OF QUANTITIES : SWITCHES

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
25KV's									
3.01	Thabazimbi	0.0012	12.00	0.04					
3.02	Tussenin	0.0012	12.00	0.04					
3.03	Arthursview	0.0012	12.00	0.04					
3.04	Paul	0.0012	12.00	0.04					
3.05	Burgerreg	0.0012	12.00	0.04					
3.06	Turfgrond	0.0012	12.00	0.04					
3.07	Pendoring	0.0012	12.00	0.04					
3.08	Ontgin	0.0012	12.00	0.04					
3.09	Hornsnek	0.0012	12.00	0.04					
3 KV's									
3.10	Bon Accord	0.0012	12.00	0.04					
3.11	Doonpoort	0.0012	12.00	0.04					
3.12	Raint	0.0012	12.00	0.04					
3.13	Van De Merwe	0.0012	12.00	0.04					
3.14	Forfar	0.0012	12.00	0.04					
3.15	Bronkhorstspruit	0.0012	12.00	0.04					
3.16	Crown Douglas	0.0012	12.00	0.04					
3.17	Wakefield	0.0012	12.00	0.04					
3.18	Witabank	0.0012	12.00	0.04					
3.19	Olifantsrivier	0.0012	12.00	0.04					

BILL OF QUANTITIES : SWITCHES

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
3.20	Uitkyk	0.0012	12.00	0.04					
3.21	Middelburg	0.0012	12.00	0.04					
3.22	Derwent	0.0012	12.00	0.04					
3.23	Pan	0.0012	12.00	0.04					
3.24	Arnot	0.0012	12.00	0.04					
3.25	Wonderfontein	0.0012	12.00	0.04					
3.26	Sunbury	0.0012	12.00	0.04					
3.27	Belfast	0.0012	12.00	0.04					
3.28	Dalamanutha	0.0012	12.00	0.04					
3.29	Fiarview	0.0012	12.00	0.04					
3.30	Machadodorp	0.0012	12.00	0.04					
3.31	Nitens	0.0012	12.00	0.04					
3.32	Kleindam	0.0012	12.00	0.04					
3.33	Wapadkloof	0.0012	12.00	0.04					
3.34	Sterkloop	0.0012	12.00	0.04					
3.35	Stoffberg	0.0012	12.00	0.04					
3.36	Erts	0.0012	12.00	0.04					
3.37	Laerdrift	0.0012	12.00	0.04					
3.38	Hanmien	0.0012	12.00	0.04					
3.39	Roosenekal	0.0012	12.00	0.04					
	SUB TOTAL SWITCHES	0.047	468.000	1.560					
	TOTAL RELAY SWITCHES	0.047	468.000	1.560					

BILL OF QUANTITIES : APPARATUS CASES

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
4.01	Leefontein	0.0014	14	0.047					
4.02	Greenview	0.0018	18	0.060					
4.03	Pienaarspoort	0.0018	18	0.060					
4.04	Panpoort	0.002	20	0.067					
4.05	Van der merwe	0.0014	14	0.047					
4.06	Rayotn	0.0014	14	0.047					
4.07	Forfar	0.0022	22	0.073					
4.08	Skietport	0.0014	14	0.047					
4.09	Bronkhorspruit	0.0014	14	0.047					
4.10	Welgersriveir	0.0024	24	0.080					
4.11	Crown Douglas	0.002	20	0.067					
4.12	Balmoral	0.0014	14	0.047					
4.13	Wakefield	0.0024	24	0.080					
4.14	Clewer	0.0012	12	0.040					
4.15	Witbank (RR1)	0.0012	12	0.040					
4.16	Witbank (RR2)	0.0016	16	0.053					
4.17	Witbank (RR3)	0.0018	18	0.060					
4.18	Witbank (RR4)	0.001	10	0.033					
4.19	Olifantsrivier	0.0032	32	0.107					

BILL OF QUANTITIES : APPARATUS CASES

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
4.2	Hillside	0.002	20	0.067					
4.21	Uitkyk	0.0034	34	0.113					
4.22	Middelburg	0.0022	22	0.073					
4.23	Derwent	0.0048	48	0.160					
4.24	Pan	0.0028	28	0.093					
4.25	Casshome	0.002	20	0.067					
4.26	Arnot	0.0018	18	0.060					
4.27	Spoelspan	0.003	30	0.100					
4.28	Wonderfontein	0.0026	26	0.087					
4.29	Sunbury	0.0028	28	0.093					
4.3	Belfast	0.0034	34	0.113					
4.31	Bergendal	0.0028	28	0.093					
4.32	Delmunutha	0.0028	28	0.093					
4.33	Fairview	0.0032	32	0.107					
4.34	Machadodorp	0.0026	26	0.087					
4.35	Leefontein- Pyramid	0.0548	548	1.827					
4.36	Dam - Wildebeeshoek	0.0124	124	0.413					
4.37	Bon Accord- Pyramid	0.0334	334	1.113					
4.38	De wildt - Ferrogate	0.0316	316	1.053					
	SUB TOTAL APPARATUS CASES	0.207	2074.00	6.91					
	TOTAL APPARATUS CASES	0.207	2074.00	6.91					

BILL OF QUANTITIES : MATERIAL CAMPS

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	<u>Infra Depot Koedoespoort</u>								
5.01	OHTE/Signal- Depot Koedoespoort	0.2064	2064	6.88					
5.02	Koedoespoort-Welding	0.09	900	3.00					
5.03	Koedoespoort-Bridge	0.1247	1247	4.16					
5.04	Koedoespoort-Perway/signal	0.2196	2196	7.32					
5.05	Koedoespoort-Material	0.66	6600	22.00					
5.06	OHTE- Depot Rustenburg	0.15	1500	5.00					
5.07	OHTE- Depot Bronkhorstspuit	0.15	1500	5.00					
5.08	Thabazimbi-Track	0.32	3200	10.67					
5.09	Northam-Track	0.34	3400	11.33					
5.10	Rustenburg-Track	0.27	2700	9.00					
5.11	Brits-Track	0.1925	1925	6.42					
5.12	Pyramid South-Track	0.51	5100	17.00					
5.13	Hercules-Track	0.31	3100	10.33					
5.14	Capital park-Track	0.2	2000	6.67					
5.15	Bronkhorstspuit-Track	0.315	3150	10.50					
5.16	Witbank-Track	0.515	5150	17.17					
5.17	OHTE-Depot Middelburg	0.15	1500	5.00					
5.18	Middelburg-Track	0.12	1200	4.00					
5.19	Belfast-Track	0.143	1430	4.77					
5.20	Lydenburg-	0.413	4130	13.77					
5.21	Stoffburg	0.1233	1233	4.11					
SUB TOTAL MATERIAL CAMPS		5.523	55225.00	184.08					
TOTAL RELAY MATERIAL CAMPS		5.523	55225.00	184.08					

BILL OF QUANTITIES : SUB STATIONS

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
	25KV's								
6.01	Thabazimbi	0.075	750	2.50					
6.02	Tussenin	0.075	750	2.50					
6.03	Arthursview	0.075	750	2.50					
6.04	Paul	0.075	750	2.50					
6.05	Burgerreg	0.075	750	2.50					
6.06	Turfgrond	0.075	750	2.50					
6.07	Pendoring	0.075	750	2.50					
6.08	Ontgin	0.075	750	2.50					
6.09	Hornsnek	0.075	750	2.50					
	3 KV's								
6.10	Bon Accord	0.075	750	2.50					
6.11	Doonpoort	0.075	750	2.50					
6.12	Raint	0.075	750	2.50					
6.13	Van De Merwe	0.075	750	2.50					
6.14	Forfar	0.075	750	2.50					
6.15	Bronkhorstspruit	0.075	750	2.50					
6.16	Crown Douglas	0.075	750	2.50					
6.17	Wakefield	0.075	750	2.50					
6.18	Witabank	0.075	750	2.50					
6.19	Olifantsrivier	0.075	750	2.50					

BILL OF QUANTITIES : SUB STATIONS

Item	Description	AREA (Ha)	AREA (m ²)	Total annual Worklots	Rate per Worklot Year 1	Sub Total Year 1	Rate per Worklot Year 2	Sub Total Year 2	Total for 2 Years
6.20	Uitkyk	0.075	750	2.50					
6.21	Middelburg	0.075	750	2.50					
6.22	Derwent	0.075	750	2.50					
6.23	Pan	0.075	750	2.50					
6.24	Arnot	0.075	750	2.50					
6.25	Wonderfontein	0.075	750	2.50					
6.26	Sunbury	0.075	750	2.50					
6.27	Belfast	0.075	750	2.50					
6.28	Dalamanutha	0.075	750	2.50					
6.29	Fiarview	0.075	750	2.50					
6.30	Machadodorp	0.075	750	2.50					
6.31	Nitens	0.075	750	2.50					
6.32	Kleindam	0.075	750	2.50					
6.33	Wapadkloof	0.075	750	2.50					
6.34	Sterkloop	0.075	750	2.50					
6.35	Stoffberg	0.075	750	2.50					
6.36	Erts	0.075	750	2.50					
6.37	Laerdrift	0.075	750	2.50					
6.38	Hanmien	0.075	750	2.50					
6.39	Roossenekal	0.075	750	2.50					
6.40	Pretoria North	0.075	750	2.50					
6.41	Greenview tie	0.075	750	2.50					
6.42	Greenview Sub	0.075	750	2.50					
6.43	Transwerk Sub	0.075	750	2.50					
Sub Total ELECTRICAL SUB STATIONS		3.225	32250	107.500					
TOTAL ELECTRICAL SUB STATIONS		3.225	32250	107.500					