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CONTRACTOR:		EMPLOYER:	
Contact Person:		Contact Person: Victor Sambokwe	
Address:		Address: 3 Le Roux Street	
		Nelspruit	
ESKOM VENDOR NUMBER:			
Telephone Number:		Telephone Number: 082 804 4948	
EMAIL:		Fax Number:	
Project Name	CONSTRUCTION OF THE LOSOP REGIONAL BULK WATER SUPPLY SCHEME IN THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 6B (ESKOM MV BULK ELECTRICAL CONNECTION (CHICKADEE LINE SECTION TO PUMSTATION 3 AND 4)		Project No 150362/6B
Project Number			
PO Number			VAT No
Date			
VAT No			Contract No
			Certificate No
QUOTATION			
			TOTAL
1	Bill 1 - Preliminaries		
2	Bill 2.1 - Pegging Out The Works		
3	Bill 2.2 - Digging Holes		
4	Bill 2.3 - Plant Poles		
5	Bill 2.4 - Assemble MV Structures		
6	Bill 2.5 - Assemble MV Stays		
7	Bill 2.6 - Conductor Stringing (Tension, Regulate and Bind in)		
8	Bill 2.7 - Equipment Installation		
9	Bill 2.8 - Earthing Installation		
10	Bill 2.9 - Laying of Cable		
10	Bill 2.10 - Cable Termination		
11	Bill 2.11 - Labeling		
12	Bill 2.12 - Pre-commissioning		
13	Bill 2.13 - Equipments Tests		

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14	Bill 2.14 - Dismantling		
	SUB TOTAL-1 (EXCL. VAT)		
	Contingency@10%		
	SUB TOTAL-2 (EXCL. VAT)		
	VAT		
	GRAND TOTAL (INCL. VAT)		

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BILL No. 1 - PRELIMINARY AND GENERAL

ITEM NO	REF. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Excl. VAT)
	SABS 1200A					
1.1	8.3	<u>FIXED CHARGE AND VALUE RELATED ITEMS</u>				
1.1.1		Contractual Requirements (PSA 4.1)	Sum	1		
	8.3.2	<u>Establish facilities on the site</u>				
	8.3.2.1	i) <u>Facilities for Engineer</u>				
1.1.2		a) Engineer's office (PSA 4.3.1)	Sum	1		
	8.3.2.2	ii) <u>Facilities for Contractor</u>				
1.1.5		a) Offices and storage sheds	Sum	1		
1.1.6		e) Ablution and latrine facilities	Sum	1		
1.1.7		g) Water supplies, electric power & communications	Sum	1		
1.1.8		h) Dealing with water	Sum	1		
1.1.9	8.3.3	Other fixed charge obligations	Sum	1		
1.1.10	8.3.4	Removal of Engineer's and Contractor's site establishment from site on completion of works.	Sum	1		
	SABS 1200A					
1.2	8.4	<u>TIME RELATED ITEMS</u>				
1.2.1	8.4.1	Contractual requirements (PSA 4.2)	Sum	1		
1.2.6	8.4.2	<u>Operations and maintenance of facilities on site</u>				
	8.4.2.1	Facilities for Engineer for duration of construction (SABS 1200 AB)				
1.2.7		a) Engineer's office	Sum	1		
1.2.10	8.4.2	<u>Operations and maintenance of facilities on site</u>				
	8.4.2.2	Facilities for the Contractor for the duration of the Contract, except where otherwise stated				
1.2.11		a) Offices and storage sheds	Sum	1		
1.2.12		e) Ablution and latrine facilities	Sum	1		
1.2.13		g) Water supplies, electric power & communications	Sum	1		
1.2.14		h) Dealing with water	Sum	1		
	PSA 4.7	k) Security	Sum	1		
1.2.15	8.4.3	Supervision for duration of the construction	Sum	1		
1.2.16	8.4.4	Company and Head Office overhead costs for the duration of the Contract	Sum	1		
1.2.17	8.4.5	Other time related obligations	Sum	1		
1.2.18	PSA 4.4	Excavation by hand in all materials to expose existing services	m ³			
TOTAL CARRIED FORWARD						

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN THEMBISILE HANI
LOCAL MUNICIPALITY – WORK PACKAGE 6B (ESKOM MV BULK ELECTRICAL CONNECTION
(CHICKADEE LINE SECTION TO PUMP STATIONS 3 & 4)**

TOTAL BROUGHT FORWARD						
ITEM NO	REF. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Excl. VAT)
1.3	8.5	<u>SUMS STATED PROVISIONALLY BY THE ENGINEER (PSA 4.6)</u>				
1.3.1	4.6.1	a) Project Liaison Officer	Prov. Sum	1	R 120,000.00	
1.3.2	4.6.2	b) Project Liaison Committee	Prov. Sum	1	R 120,000.00	
1.3.3	4.6.3	c) Trainee Technician	Prov. Sum	1	R 120 000.00	
1.3.4	4.6.4	<u>Extra-over Item 1.3.1 to 1.3.3 for handling fee:</u>	%		R 360,000.00	
1.3.5	4.6.5	c) AS BUILT Survey	Prov. Sum	1	R 50,000.00	
1.3.6	4.6.6	<u>Extra-over Item 1.3.5 for handling fee:</u>	%		R 50,000.00	
1.3.7	4.6.7	d) Services instructed by the Clients Representative	Prov. Sum	1	R 50,000.00	
1.3.8	4.6.8	<u>Extra-over Item 1.3.7 for handling fee:</u>	%		R 50,000.00	
1.4	DWK 6	<u>DAYWORKS</u>				
	DWK 6.1	Labourers:				
1.4.1		a) Unskilled	hr	640		
1.4.2		b) Semi-skilled	hr	640		
1.4.3		c) Skilled	hr	640		
1.4.4	DWK 6.2	Foreman	hr	640		
	DWK 6.3	Crane Truck				
1.4.5		a) 5 - 10 ton with Crane	hr	240		
		b) 5 - 10 ton with Crane	km	140		
1.4.7	DWK 6.5	Excavator (TLB)	hr	160		
1.4.9	DWK 6.10	Wackers (Compactors)	hr	160		
1.4.11	DWK 6.15	LDV (1800cc minimum)	km	3640		
	DWK 6.16	Materials under dayworks				
1.4.12		a) Materials acquired under dayworks material	Prov. Sum	1		
1.5 (New)		<u>Occupational Health and Safety</u> Provision for the cost related to the Occupational Health and Safety Act, 85 of 1993, and the relevant Regulations:				
	PSA 4.5					
1.5.1		a) Preparation of a Health & safety Plan	Sum	1		
1.5.2		b) Compilation of a Risk Assessment prior to Construction	Sum	1		
1.5.3		c) Health & Safety induction Training of employees	Sum	1		
1.5.4		d) Compilation and keeping up to date the Health & Safety file which shall include all documentation required in terms of the act	Sum	1		
1.5.6		e) Implementation of the Health and Safety Plan over the entire construction period	Sum	1		
1.6 (New)		<u>Environmental</u> Provision for the cost related to compliance with the EMP:				
	PSA 4.5		Sum	1		
TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY						

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BILL No. 2 - BILL OF STRUCTURES

Item	Reference Drawing	Description	Unit	Quantity	Material rate	Installation Rate	Total (Excl. VAT)
2.1		Pegging Out The Works					
	1	MV Pegging - excl bush clearing and tree felling	km	20			
	2	Bush Clearing and Tree Felling as per Enviromental requirements (Scattterd Formation)	m	200			
						TOTAL	
2.2		Digging Holes					
	D-DT-0350	MV Stay Compressors / Auger/ Hard Rock Drilling	Each	76			
	D-DT-0330	9m Pole Back-Actor or Hand (1.5m Deep)	Each				
	D-DT-0330	9m Pole Compressors / Auger/ Hard Rock Drilling (1.5m Deep)	Each	24			
	D-DT-0330	10m Pole Compressors / Auger/ Hard Rock Drilling (1.7m Deep)	Each	8			
	D-DT-0330	11m Pole/10m Concrete Pole Back-Actor or Hand (1.8m Deep)	Each	235			
	D-DT-0330	12m Pole Back-Actor or Hand (2.0m Deep)	Each	12			
	D-DT-0330	13m - 16m Pole Compressors / Auger / Hard Rock Drilling(2.2m Deep)	Each	14			
	D-DT-0330	14m Concrete Pole Compressors / Auger/ Hard Rock Drilling (2.3m Deep)	Each	8			
						TOTALS	
2.3		Supply and Planting Poles					
		Wooden Poles					
	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter	Each				
	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter	Each				
	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter	Each				
	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter	Each				
	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter	Each	24			
	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H4	Each	8			
	D-DT-0051	11m Wooden Pole 180-199mm Top Diameter H4	Each	235			
	D-DT-0053	12m Wooden Pole 180-199mm Top Diameter	Each	12			

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PROJECT NO: 150362/6B

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	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H4	Each	14			
	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter	Each	8			
	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter	Each				
		Pole Handling Fee	Each	301			
						TOTALS	

Item	Reference Drawing	Description	Unit	Quantity	Material rate	Installation Rate	Total (Excl. VAT)
2.4		Supply, Assemble and install MV Structures					
		Three Phase (Descriptions below to be as per the applicable D-DT drawing) Supply & Install including all other hardware and accessories for a complete structure including X-arms					
	D-DT-1740	Intermediate - 0 deg	Each				
	D-DT-1745D	Strainer - Large (61 - 90) deg	Each				
	D-DT-1747	Strainer - 0 deg	Each				
	D-DT-1748a	Strainer - Medium (1 - 10) deg	Each				
	D-DT-1748b	Strainer - Medium (11 - 30) deg	Each				
	D-DT-1748c	Strainer - Medium (31 - 60) deg	Each				
	D-DT-1749	Strainer - Terminal	Each				
	D-DT-1785	Intermediate - 0 deg	Each	219			
	D-DT-1786	Strainer - 0 deg	Each	11			
	D-DT-1787	Strainer - Medium (0 - 30) deg	Each	10			
	D-DT-1791	Strainer - Large (60 - 90) deg	Each	25			
	D-DT-1792	Strainer - Large (30 - 60) deg	Each	8			
	D-DT-1793	Suspension H-Pole	Each	20			
	D-DT-1794	Strainer - Inline H-Pole	Each	8			
		Take-Off	Each				
	D-DT-1800	3 Phase Take-Off - Vertical (450mm Spacing)	Each				
	D-DT-1801	3 Phase Take-Off - Vertical (600mm Spacing)	Each				
	D-DT-1803	3 Phase Take-Off - Delta / 1.3m Steel Crossarm	Each				
	D-DT-1804	3 Phase Take-Of - 2,5M Wooden Crossarm	Each				
	D-DT-1805	3 Phase Take-Of - 2 x 2,5M Wooden Crossarm	Each				
		Insulation Coordination					
	D-DT-0310	Install Bonding	Each	301			
	D-DT-0310	Install BIL Downwire	Each	110			
						TOTALS	
2.5		Supply, Assemble & install MV Stays including all other					

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		hardware and accessories for a complete structure					
	D-DT-0341	Make-Off Conventional Stay	Each	76			
	D-DT-0343	Make-Off Flying Stay	Each				
	D-DT-0351	Make-Off Strut Pole 9m & 11m	Each	33			
						TOTALS	
2.6		Supply and Conductor Stringing (Tension, Regulate and Bind in)					
		Fox Conductor	m				
		Fox Full Tension Joint	Each				
		COND,ACSR MINK 10.98D UNGRS	m				
		Mink Full Tension Joint	Each				
		Supply and Install Bird Flappers	Each	60			
		COND,ACSR HARE 14.16D UNGRS	m				
		Hare Full Tension Joint	Each				
		Chickadee Conductor 18.87D UNGRS D3136	m	79000			
		Chickadee Full Tension Joint	Each	120			
						TOTALS	

Item	Reference Drawing	Description	Unit	Quantity	Material rate	Installation Rate	Total (Excl. VAT)
2.7		Equipment Installation					
		Transformers					
	<u>D-DT-1860</u>	16kVA x 1-Phase - New	Each				
		Transformer MV Protection					
	<u>D-DT-1849</u>	Install Equipment Links - Drop Out Fuses (2-phase)	Each				
	<u>D-DT-0261</u>	Install Surge Arresters (2-phase)	Each				
		Supply and Install Labels	Each				
		Pole Mounted Recloser					
	<u>D-DT-1829</u>	Install 5 Pole Recloser	Each				
	<u>D-DT-1852</u>	Install Bypass Links	Each				
	<u>D-DT-1852</u>	Install Equipment Links	Each				
	<u>D-DT-0270</u>	Auxiliary Transformer	Each				
	<u>D-DT-0261</u>	Install Surge Arresters	Each				
		Supply and Install Labels (Chromadek)	Each				
		Pole Mounted CT-VT Unit					
	<u>D-DT-1840</u>	Install CT-VT Unit	Each				
	<u>D-DT-1852</u>	Install Bypass Links	Each				
	<u>D-DT-1852</u>	Install Equipment Links	Each				
	<u>D-DT-0261</u>	Install Surge Arresters	Each				
		Supply and Install Labels (Chromadek)	Each				
						TOTALS	

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2.8		Earthing Installation	Unit				
		Other Overhead System Equipment Earthing - Capacitor Bank / CV-VT Unit / Line Arrester / Recloser / Sectionalizer / Voltage Regulator					
		Excavation - length long, 0.5m deep and 0.6m wide	m ³				
	<u>D-DT-3139</u>	16mm sq Bare Stranded Cu Conductor	m				
	<u>D-DT-3137</u>	16mm sq Insulated Stranded Cu Conductor	m				
	<u>D-DT-3091</u>	Earth Electrode (Type as per the design)	Each				
		Backfill&compact excavation	m ³				
						TOTALS	
2.9		Laying of Cable					
	<u>D-DT-0854</u>	Laying of 4-Core 16mm sq LV Cable	m				
	<u>D-DT-0854</u>	Laying of 4-Core 25mm sq LV Cable	m				
	<u>D-DT-0854</u>	Laying of 12-Core 2.5mm sq LV Metering Cable	m				
						TOTALS	

Item	Reference Drawing	Description	Unit	Quantity	Material rate	Installation Rate	Total (Excl. VAT)
2.10		Cable Termination					
		Cable Termination Onto Air- Filled Cable Termination Enclosure(Making-off of all cores = each)					
		Install 2-Core 16mm sq LV Bare Termination	Each				
		Install 4-Core 16mm sq LV Bare Termination	Each				
		Cable LV Termination					
	<u>D-DT-0830</u>	Cable LV Termination install on breaker MCB	Each				
						TOTALS	
2.11		Supply and Install Labeling	Unit				
		MV Pole Number	Each	301			
		LV Pole Number	Each				
		Kiosk Labeling	Each				
						TOTALS	
2.12		Pre-Commission					
		As build drawing as per standard per D-DT 0857 and D- DT-0858	Each	1			
						TOTALS	

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2.13		Equipment Test					
		Perform Phasing Test per circuit	Each				
		Continuity Tests per circuit	Each				
		Earth Resistance Test per circuit	Each				
						TOTALS	
2.14		Equipment Dismantling					
		Dismantle MV Conductor	Sum	1			
		Dismantle and Remove MV Overhead Transformers	Sum	1			
		Dismantle and Remove MV Overhead Section / Equipment Links	Sum	1			
		Dismantle and Removal structures-Stays	Sum	1			
		Dismantle and Removal of structures-Wood Poles	Sum	1			

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