

APPENDIX B : PROVISIONAL BILLS OF QUANTITIES

UPGRADING OF 11kV INFRASTRUCTURE

ELECTRICAL INSTALLATION

BILL NO. 1 : PRELIMINARY AND GENERAL PROVISIONS

ITEM	DESCRIPTION	UNIT	QTY	RATE		TOTAL	AMOUNT
				MAT.	INSTAL.		
1.1	Fixed costs for compliance with Conditions of Contract, Preliminary and General Provisions, etc.	Item	Lot			Sum	
1.2	Time-related costs for compliance with Conditions of Contract, Preliminary and General Provisions.	Item	Lot			Sum	
1.3	Value-related costs for compliance with Conditions of Contract, Preliminary and General Provisions.	Item	Lot			Sum	
TOTAL FOR BILL 1 CARRIED TO BILL SUMMARY							

UPGRADING OF 11kV INFRASTRUCTURE

ELECTRICAL INSTALLATION

BILL NO. 2 : MV EQUIPMENT

ITEM	DESCRIPTION	UNIT	QTY	RATE		TOTAL	AMOUNT
				MAT.	INSTAL.		
2.1	Decommissioning of Existing 11kV OCB 4-Panel Switchger and 3 off Existing Oil Transformers including relocation of units to an area designated by the client for upliftment by others.	Item	Lot				
2.2	Laising with Eskom and co-ordination of Shut down and Re-Commissioning (Note all works as per specification will be carried out over a weekend).	Item	Lot				
2.3	Supply, Delivery, Installaton and Commissioning of a 12kV 4-Panel SF6 Extendable Board complete with all required earthing as per Scope of Works Clause 3.1 and Standard Speciication.	Item	Lot				
2.4	Supply, Delivery, Installation and Commissioning of a 11kV/400V DYN11 Dry Type Transformers complete with cooling, IP21 Enclosure with all required earthing as per Scope of Works Clause 3.1 and Standard Speciication.						
	a) 1250 kVA	No.	2				
	b) 1000 kVA	No.	1				
2.5	Testing, Switching and commissioning .						
	a) Switchgear	Item	Lot	-	-	Sum	
	b) Transformers	Item	Lot	-	-	Sum	
2.6	12 Month Maintenance						
	a) Switchgear	Item	Lot	-	-	Sum	
	b) Transformers	Item	Lot	-	-	Sum	
2.7	Provide Full Certified Training on switching on 11kV Switchgear to two (2) personnel from the IDC Maintenance Department.	Item	Lot	-	-	Sum	
TOTAL FOR BILL NO. 2 CARRIED FORWARD TO SUMMARY							

UPGRADING OF 11kV INFRASTRUCTURE

ELECTRICAL INSTALLATION

BILL NO. 3 : MV AND LV INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE		TOTAL	AMOUNT
				MAT.	INSTAL.		
3.1	Supply and Installation of 50mm ² x 3-core 11kV XLPE Insulated PVC Sheathed Screened Cu Cable in Cable Trenches.						
	a) Supply	m	100				
	b) Install	m	100				
	c) 50mm ² x 3c 11kV XLPE Cu cable joints	No.	2				
	d) 50mm ² x 3c 11kV XLPE Cu cable terminations	No.	6				
3.2	Supply and Installation of 11kV Terminations on existing Cables.						
	a) 50mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	b) 70mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	c) 95mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	d) 120mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	e) 150mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
3.3	Supply and Installation of 11kV Joints on existing Cables.						
	a) 50mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	b) 70mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
	c) 95mm ² x 3-Core Paper insulated Lead Covered Armoured Cable.	No.	1				
3.4	Supply and Installation of KWENA Earthing to be installed between equipment.						
	a) 70mm ² KWENA	m	200				
	b) 70mm ² Terminations	No.	14				
CARRIED FORWARD TO COLLECTION							

ITEM	DESCRIPTION	UNIT	QTY	RATE		TOTAL	AMOUNT
				MAT.	INSTAL.		
3.5	Supply and installation of 400mm wide Heavy Duty CL76 Cable Ladder installed between soffit and floor.						
	a) 3m lengths cut and spliced as required	m	6				
	b) Splices	No.	1				
	c) Radiused 90° corners, including splices	No.	2				
	d) Radiused external corner	No.	1				
	e) Fixings to concrete slab soffits	Item	Lot	-	-	Sum	
3.6	Testing and Commissioning:						
	a) Feeders	Item	Lot	-	-	Sum	
	b) Earthing Installation	Item	Lot	-	-	Sum	
3.7	Issuing a 11kV ECBSA Certificate of Compliance per Substation	Item	Lot	-	-	Sum	
	a) Allow the Provisional Sum of R125 000,00 for the installation of 2000A Low Voltage Encapsulated Busbar by specialist.	Item	Lot	-----	-----	-----	75,000.00
	b) Add profit and Handling on 3.6 (a) above		%				
3.8	Allow for the contingency sum of 75 000-00 (net) for unforeseen work against which the Contractor will have no claim unless a written variation order is issued by the Engineer.	Item	Lot	-----	-----	-----	75,000.00
Total from this Page							
Carried Forward from Page 3(1)							
TOTAL FOR BILL NO. 3 CARRIED FORWARD TO SUMMARY							

UPGRADING OF 11kV INFRASTRUCTURE

BILL SUMMARY

BILL NO. 1	PRELIMINARY AND GENERAL PROVISIONS	_____
BILL NO. 2	MV EQUIPMENT	_____
BILL NO. 3	MV AND LV INSTALLATION	_____

	TOTAL (EX VAT) CARRIED TO TENDER FORM IN CONTRACT DATA	=====