

ESKOM GENERATION**2025**

**THE PROVISION OF A PA SYSTEM
REPLACEMENT PROJECT FOR A PERIOD
OF 8 MONTHS AT CAMDEN POWER
STATION - BILLS OF QUANTITIES**

CONTRACT NUMBER :**CONTRACTOR :****CONTRACT AMOUNT (EXCL. VAT) :****CONTRACT AMOUNT (INCL. VAT) :**

THE PROVISION OF A PA SYSTEM REPLACEMENT PROJECT FOR A PERIOD OF 8 MONTHS AT CAMDEN POWER
STATION - BILLS OF QUANTITIES

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**THE PROVISION OF A PA SYSTEM REPLACEMENT PROJECT FOR A PERIOD OF 8 MONTHS AT CAMDEN POWER STATION - BILLS
OF QUANTITIES
NOTES TO TENDERERS**

1. BILLS OF QUANTITIES

This document comprises Notes to Tenderers and Bills of Quantities and is hereafter referred to as "the Bills of Quantities".

The Tenderers are to note that this is a Contract with a Bills of Quantities.

2.1 CONTRACT DOCUMENTS

The contract documents will consist of:

2.1.1 The NEC3 Term Services Contract 2013 together with all amendments.

2.1.2 These Bills of Quantities, including all annexures and supplementary documentation referred to therein.

2.1.3 Documents to be provided by the Contractor in terms of the requirements of these Bills of Quantities.

2.1.4 Construction Regulations 2014

2.1.5 Occupational Health and Safety Act of 1993

2.1.6 The Contractor is referred to the Scope of works Document and to pay careful attention to the requirements of this document

3 DRAWINGS

There are no drawings for this contract.

4 VALUE ADDED TAX

Tenderers should compute their rates from the net costs (excluding Value Added Tax). Value Added Tax at the current rate of 15% is to be added to the net sub-total on the final summary page by means of a single sum calculation to establish the tender price.

5 SCOPE OF WORK

As a guide only, the work comprises as follows:-

THE PROVISION OF A PA SYSTEM REPLACEMENT PROJECT FOR A PERIOD OF 8 MONTHS AT CAMDEN POWER STATION - BILLS OF QUANTITIES

6 ADDRESS WHERE DOCUMENTS CAN BE OBTAINED

Tender documents will be made available Electronically on an online portal to be provided by Eskom

7 POSSESSION OF SITE

The date of which possession of the Site shall be given to the Contractor shall be within **7 working days** of the acceptance of this tender.

8 CONSTRUCTION PERIOD - DATES FOR PRACTICAL COMPLETION

The intended date for practical completion and penalty for each calendar day for non-completion shall be:

Practical Completion: 8 Months from the date of Site Handover

Tenderers are to note that the Contract will be delivered as a whole and NOT to be phased.

9 COMMON LAW OR BY-LAW REQUIREMENTS

No liability for not specifically mentioning any normal contractual, Common Law or By-Law requirements will be accepted by the Employer, or Contracts Manager.

10 ORDERING OF MATERIALS

No claims will be entertained due to non-availability of materials or labour. The Tenderer is therefore required to investigate and ensure that the specific materials and components required for the works will be available at the relevant estimated construction times, at the time of tendering.

11 CONTRACT PRICE ADJUSTMENT

The Contract Sum shall not be subject to CPAP.

12. PRICED BILLS OF QUANTITIES:

Tenderers must submit to the Contracts Manager a copy of the Bills of Quantities fully priced and extended, with his tender. After the Bills have been checked, and when called upon, each page of the Bills of Quantities shall be initialed and the Index page and the Final Summary page signed in full.

13 DIFFERENCE AND DISCREPANCIES:

Should there be any difference or discrepancy between the prices or particulars contained in the official Tender Form and those contained in any covering letter from the Tenderer, the prices contained in the official Tender Form shall prevail.

Every Tenderer shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by him for the purpose of or in connection with the submission of his Tender, which are in conflict with the Conditions of Tender.

Tenderers are warned that any material divergence from the official conditions or specifications may render their Tenders liable to disqualification.

The Tenderers are to note that if there are any arithmetical errors in the Tenderers' form of tender in calculation of the Tender Sum, the Contracts Manager will correct the calculation accordingly.

14 COMMUNICATION WITH MEMBERS OF THE CLIENT COMPANY OR PROFESSIONAL TEAM

A Tenderer shall not in any way communicate with a member of the Client Company or Professional Team or with any officer on a question affecting any contract or the supply of goods or for any work, undertaking or service which is the subject of a Tender during the period between the closing date for receipt of Tenders and the dispatch of the written notification of the Employer's decision on the award of the contract; provided that a Tenderer shall not hereby be precluded from obtaining from the Employer or his authorised representative information as to the date upon which the award of the contract is likely to be made or, after the decision upon the award has been made by the Contracts Manager to which the Employer had delegated its powers, information as to the nature of the decision or such information as was publicly disclosed at the opening of Tenders.

15 IMPORT PERMITS:

Tenderers must apply direct for any import permit and/or currency required, however the Contracts Manager will furnish successful Tenderers with a supporting statement if required.

16 BILLS OF QUANTITIES:

No alteration, erasure, omission or addition is to be made to the text and conditions of these Bills of Quantities and should any such alteration, amendment, note or addition be made, the same will not be recognised, but the reading of the Bills of Quantities as prepared by the Contracts Manager will be adhered to.

It should be understood that the system of measurement herein adopted is the only system of measurement which will be recognised in connection with this contract. Before the signing of the contract, the Contracts Manager will be entitled to call for adjustments of individual rates and rectify discrepancies, as he considers necessary without alterations to the Tender amount.

6 Ensure that every employee or person (including visitors) who enters the site of the Works undergoes health and safety induction training pertaining to hazards identified on the site of the Works and upon such training having been successfully completed, the Contractor must issue written confirmation by a competent person to the trained employees or persons who shall be further instructed to carry such confirmation with them at all times whilst on the site of the Works;

7 Issue, on loan, the necessary personal protective equipment to visitors to the site of the Works; and

8 Be in good standing with the Compensation Commissioner at all times during the duration of the Contract.

9 The Contractor is to sign a Non-Disclosure Agreement prior to collecting or receiving any proprietary information from Eskom, drawings, documentation, reports and photographs

The Contractor will be deemed to have satisfied himself with his obligations in terms of the Act and to have allowed for all costs arising from compliance with the Act as no claim for extra costs arising from compliance with, and obligations in terms of the Act will be entertained.

17 PRICING OF THESE GENERAL NOTES

The Contractor must allow in his pricing for any additional costs arising from these "General Notes" as no later claims for additional costs will be considered.

18 TAX COMPLIANCE

Failure to provide mandatory information required in this Bid will result in the submissions being deemed null and void and shall be considered non-responsive. An Electronic Tax Compliance Status (TCS) System will be used to verify the bidder's tax compliance status so bidders must request a unique security personal identification number (PIN) from SARS which must be submitted with the bid

No alternative tender offers will be considered and these bills of quantities are not to be used for the purpose of ordering materials
All Bill rates are to include for material, labour, plant, wastage, transport and profit.

THE PROVISION OF A PA SYSTEM REPLACEMENT PROJECT FOR A PERIOD OF 8 MONTHS AT CAMDEN POWER STATION - BILLS OF QUANTITIES

DESCRIPTION OF WORKS		UNIT	QTY.	TOTAL SUPPLY COST		TOTAL INSTALLATION COST				TOTAL SUPPLY AND INSTALLATION COST
				RATE	TOTAL COST	UNIT	QTY.	RATE	TOTAL COST	
A	Detailed Design Report									
	Detailed Design Report Cost	LOT	1		R	LOT	1		R	
	Decommissioning of the old PA System	LOT	1		R	LOT	1		R	
	Interfacing of PA System Phase 2 to Phase 1	LOT	1		R	LOT	1		R	
	SUB TOTAL			SUB TOTAL	R			SUB TOTAL	R	
B	DESCRIPTION OF WORKS	UNIT	QTY.	RATE	SUPPLY	SUPPLY COSTS	INSTALLATION COST			
	PA System Management System Phase 2					TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Laptop (Incl. locks)	EA	1	R		R	EA	1	R	R
	Document Tray	EA	1	R		R	EA	1	R	R
	Laptop Tray	EA	1	R		R	EA	1	R	R
	Mouse Tray	EA	1	R		R	EA	1	R	R
	Software	EA	1	R		R	EA	1	R	R
	Multi-media Tuner (Incl. remote)	EA	1	R		R	EA	1	R	R
	Antenna	EA	1	R		R	EA	1	R	R
	Antenna Bracket	EA	1	R		R	EA	1	R	R
	Co-Axial Cable	EA	100	R		R	EA	100	R	R
	Cable Connectors	EA	1	R		R	EA	1	R	R
	Inverter 24/250,Peak Power 400W, Constant Power 200W, Rating: 250VA 24V,Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high	EA	1	R		R	EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity,Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R	EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R	EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R	MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R	EA	1	R	R
	Voice Recorder	EA	1	R		R	EA	1	R	R
	Fireman's Microphone	EA	1	R		R	EA	1	R	R
	Microphone Protection (Fireman's)	EA	1	R		R	EA	1	R	R
	Operating Manuals	EA	3	R		R	EA	3	R	R
	Documentation & AutoCAD Drawings	LOT	1	R		R	LOT	1	R	R
	Data Pack	LOT	1	R		R	LOT	1	R	R
	Installation & Configuration	LOT	1	R		R	LOT	1	R	R
	SUB TOTAL			SUB TOTAL	R				SUB TOTAL	R

C	DESCRIPTION OF WORKS			SUPPLY		SUPPLY COSTS		INSTALLATION COST			TOTAL COST
	ZONE	UNIT	QTY.	RATE		TOTAL COST		UNIT	QTY.	RATE	
	Amplifier Module 500W	EA	4	R		R		EA	4	R	R
	Amplifier Module 300W	EA	1	R		R		EA	1	R	R
	Remote Microphone	EA	2	R		R		EA	2	R	R
	Microphone Protection	EA	2	R		R		EA	2	R	R
	Power Supply Manager	EA	1	R		R		EA	1	R	R
	Inverter 24/250,Peak Power 400W , Constant Power 200W , Rating: 250VA 24V,Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high.	EA	1	R		R		EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity.Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R		EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R		EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R		MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R		EA	1	R	R
	Frame	EA	2	R		R		EA	1	R	R
	AC Distribution Panel (incl. Surge & Lightning)	LOT	1	R		R		LOT	1	R	R
	Horn 15W	EA	37	R		R		EA	37	R	R
	Horn 30W	EA	9	R		R		EA	9	R	R
	Ceiling Speaker	EA	39	R		R		EA	39	R	R
	Box Speaker	EA	40	R		R		EA	40	R	R
	Bi-Directional Speaker	EA	21	R		R		EA	21	R	R
	Rack 42U (Inclusive of accessories & earthing)	EA	1	R		R		EA	1	R	R
	Patch Panel	EA	1	R		R		EA	1	R	R
	Ethernet Switch	EA	1	R		R		EA	1	R	R
	Fibre Optic Cabling 5M	MT	360	R		R		MT	360	R	R
	Fibre Optic Cabling Splicing	MT	32	R		R		MT	32	R	R
	Cat5e Microphone Cable	MT	120	R		R		MT	120	R	R
	PH120: 6C/2.5mm SWA	MT	210	R		R		MT	210	R	R
	PH120: 6C/2.5mm	MT	350	R		R		MT	350	R	R
	PH120: 4C/1.5mm SWA	MT	750	R		R		MT	750	R	R
	PH120: 4C/1.5mm	MT	240	R		R		MT	240	R	R
	PH120: 2C/1.5mm	MT	375	R		R		MT	375	R	R
	PH120: 2C/1.0mm	MT	875	R		R		MT	875	R	R
	Attenuator 6W	EA	47	R		R		EA	47	R	R
	Attenuator 30W	EA	10	R		R		EA	10	R	R
	Attenuator 60W	EA	4	R		R		EA	4	R	R
	Attenuator Back Box	EA	61	R		R		EA	61	R	R
	SUB TOTAL			SUB TOTAL		R				SUB TOTAL	R

R

D	DESCRIPTION OF WORKS			SUPPLY		SUPPLY COSTS		INSTALLATION COST			TOTAL COST
	ZONE	UNIT	QTY.	RATE		TOTAL COST		UNIT	QTY.	RATE	
	Amplifier Module 500W	EA	6	R		R		EA	6	R	R
	Power Supply Manager	EA	1	R		R		EA	1	R	R
	Inverter 24/250,Peak Power 400W , Constant Power 200W , Rating: 250VA 24V Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high	EA	1	R		R		EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity,Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R		EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R		EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R		MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R		EA	1	R	R
	Frame	EA	2	R		R		EA	2	R	R
	AC Distribution Panel (incl. Surge & Lightning)	LOT	1	R		R		LOT	1	R	R
	Horn 15W	EA	80	R		R		EA	80	R	R
	Horn 30W	EA	12	R		R		EA	12	R	R
	Ceiling Speaker	EA	12	R		R		EA	12	R	R
	Box Speaker	EA	28	R		R		EA	28	R	R
	Bi-Directional Speaker	EA	6	R		R		EA	6	R	R
	Rack 34U (Inclusive of accessories & earthing)	EA	1	R		R		EA	1	R	R
	Patch Panel	EA	1	R		R		EA	1	R	R
	Ethernet Switch	EA	1	R		R		EA	1	R	R
	Fibre Optic Cabling SM	MT	360	R		R		MT	360	R	R
	Fibre Optic Cabling Splicing	EA	32	R		R		EA	32	R	R
	PH120: 6C/2.5mm SWA	MT	1700	R		R		MT	1700	R	R
	PH120: 6C/2.5mm	MT	50	R		R		MT	50	R	R
	PH120: 4C/2.5mm SWA	MT	0	R		R		MT	0	R	R
	PH120: 4C/1.5mm SWA	MT	180	R		R		MT	180	R	R
	PH120: 4C/1.5mm	MT	150	R		R		MT	150	R	R
	PH120: 2C/1.5mm	MT	750	R		R		MT	750	R	R
	PH120: 2C/1.0mm	MT	1000	R		R		MT	1000	R	R
	Attenuator 6W	EA	24	R		R		EA	24	R	R
	Attenuator 30W	EA	3	R		R		EA	3	R	R
	Attenuator 60W	EA	2	R		R		EA	2	R	R
	Attenuator Rack Box	EA	29	R		R		EA	29	R	R
	SUB TOTAL					R					R
E	DESCRIPTION OF WORKS			SUPPLY		SUPPLY COSTS		INSTALLATION COST			TOTAL COST
	ZONE	UNIT	QTY.	RATE		TOTAL COST		UNIT	QTY.	RATE	
	Amplifier Module 500W	EA	5	R		R		EA	5	R	R
	Remote Microphone	EA	1	R		R		EA	1	R	R
	Microphone Protection	EA	1	R		R		EA	1	R	R
	Power Supply Manager	EA	1	R		R		EA	1	R	R
	Inverter 24/250,Peak Power 400W , Constant Power 200W , Rating: 250VA 24V,Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high	EA	1	R		R		EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity,Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R		EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R		EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R		MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R		EA	1	R	R
	Frame	EA	2	R		R		EA	2	R	R
	AC Distribution Panel (incl. Surge & Lightning)	LOT	1	R		R		LOT	1	R	R
	Horn 15W	EA	60	R		R		EA	60	R	R
	Horn 30W	EA	21	R		R		EA	21	R	R
	Box Speaker	EA	4	R		R		EA	4	R	R
	Rack 34U (Inclusive of accessories & earthing)	EA	1	R		R		EA	1	R	R
	Patch Panel	EA	1	R		R		EA	1	R	R
	Ethernet Switch	EA	1	R		R		EA	1	R	R
	Fibre Optic Cabling SM	MT	360	R		R		MT	360	R	R
	Fibre Optic Cabling Splicing	EA	32	R		R		EA	32	R	R
	PH120: 4C/2.5mm SWA	MT	235	R		R		MT	235	R	R
	PH120: 4C/1.5mm SWA	MT	85	R		R		MT	85	R	R
	PH120: 2C/1.5mm	MT	1085	R		R		MT	1085	R	R
	PH120: 2C/1.0mm	MT	100	R		R		MT	100	R	R
	SUB TOTAL					R					R

R

R

	DESCRIPTION OF WORKS			SUPPLY		SUPPLY COSTS		INSTALLATION COST			
F	ZONE	UNIT	QTY.	RATE		TOTAL COST		UNIT	QTY.	RATE	TOTAL COST
	Amplifier Module 500W	EA	2	R		R		EA	2	R	R
	Amplifier Module 300W	EA	4	R		R		EA	4	R	R
	Remote Microphone	EA	1	R		R		EA	1	R	R
	Microphone Protection	EA	1	R		R		EA	1	R	R
	Power Supply Manager	EA	1	R		R		EA	1	R	R
	Inverter 24/250,Peak Power 400W, Constant Power 200W, Rating: 250VA 24V,Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high	EA	1	R		R		EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity,Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R		EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R		EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R		MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R		EA	1	R	R
	Frame	EA	2	R		R		EA	2	R	R
	AC Distribution Panel (incl. Surge & Lightning)	LOT	1	R		R		LOT	1	R	R
	Horn 15W	EA	43	R		R		EA	63	R	R
	Ceiling Speaker	EA	55	R		R		EA	55	R	R
	Box Speaker	EA	13	R		R		EA	13	R	R
	Bi-Directional Speaker	EA	16	R		R		EA	16	R	R
	Rack 34U (Inclusive of accessories & earthing)	EA	1	R		R		EA	1	R	R
	Patch Panel	EA	1	R		R		EA	1	R	R
	Ethernet Switch	EA	1	R		R		EA	1	R	R
	Fibre Optic Cabling SM	MT	360	R		R		MT	360	R	R
	Fibre Optic Cabling Splicing	EA	32	R		R		EA	32	R	R
	Cat5e Microphone Cable	MT	20	R		R		MT	20	R	R
	PH120: 6C/2.5mm SWA	MT	150	R		R		MT	150	R	R
	PH120: 6C/2.5mm	MT	720	R		R		MT	720	R	R
	PH120: 2C/1.5mm	MT	165	R		R		MT	165	R	R
	PH120: 2C/1.0mm	MT	935	R		R		MT	935	R	R
	Attenuator 6W	EA	33	R		R		EA	33	R	R
	Attenuator 30W	EA	7	R		R		EA	7	R	R
	Attenuator 60W	EA	1	R		R		EA	1	R	R
	Attenuator Rack Box	EA	41	R		R		EA	41	R	R
	SUB TOTAL				SUB TOTAL	R				SUB TOTAL	R
G	ZONE	UNIT	QTY.	RATE		TOTAL COST		UNIT	QTY.	RATE	TOTAL COST
	Amplifier Module 500W	EA	5	R		R		EA	5	R	R
	Amplifier Module 150W	EA	1	R		R		EA	1	R	R
	Power Supply Manager	EA	1	R		R		EA	1	R	R
	Inverter 24/250,Peak Power 400W, Constant Power 200W, Rating: 250VA 24V,Bluetooth and USB connectivity,Protection: output short circuit, overload, battery voltage too high, battery voltage too low, temperature too high, DC ripple too high	EA	1	R		R		EA	1	R	R
	Charger,Rating: 24V 5A DC,Supply Voltage: 230VAC,Bluetooth connectivity,Charge algorithm: 7-stage adaptive IP65 Standards: Safety: EN 60335-1, EN 60335-2-29, Emission: EN 55014-1, EN 61000-6-3, EN 61000-3-2, Immunity: EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Minimum battery voltage: Starts charging from down to 0 V Power supply mode: Yes	EA	1	R		R		EA	1	R	R
	Lead Acid Battery, Sealed, Leak proof, Maintenance Free, One-way Gas Release Vent Valve. 6FM200-X 12V 200Ah (10hr)	EA	2	R		R		EA	2	R	R
	2.5mm²2, 3 core, SWA cable	MT	50	R		R		MT	50	R	R
	20A, Single Pole, Breaker	EA	1	R		R		EA	1	R	R
	Frame	EA	2	R		R		EA	1	R	R
	AC Distribution Panel (incl. Surge & Lightning)	LOT	1	R		R		LOT	1	R	R
	Horn 15W	EA	37	R		R		EA	37	R	R
	Horn 30W	EA	24	R		R		EA	24	R	R
	Box Speaker	EA	4	R		R		EA	4	R	R
	Bi-Directional Speaker	EA	2	R		R		EA	2	R	R
	Rack 34U (Inclusive of accessories & earthing)	EA	1	R		R		EA	1	R	R
	Patch Panel	EA	1	R		R		EA	1	R	R
	Ethernet Switch	EA	1	R		R		EA	1	R	R
	Fibre Optic Cabling SM	MT	360	R		R		MT	360	R	R
	Fibre Optic Cabling Splicing	EA	32	R		R		EA	32	R	R
	PH120: 6C/2.5mm SWA	MT	300	R		R		MT	300	R	R
	PH120: 6C/2.5mm	MT	20	R		R		MT	20	R	R
	PH120: 4C/2.5mm SWA	MT	1130	R		R		MT	1130	R	R
	PH120: 4C/1.5mm	MT	20	R		R		MT	20	R	R
	PH120: 2C/1.5mm	MT	20	R		R		MT	20	R	R
	PH120: 2C/1.0mm	MT	120	R		R		MT	120	R	R
	Attenuator 6W	EA	3	R		R		EA	3	R	R
	Attenuator 30W	EA	1	R		R		EA	1	R	R
	Attenuator Rack Box	EA	4	R		R		EA	4	R	R
	SUB TOTAL				SUB TOTAL	R				SUB TOTAL	R

R

R

	DESCRIPTION OF WORKS	UNIT	QTY.	RATE	SUPPLY	SUPPLY COSTS	INSTALLATION COST			
H	Tools (i.e., Scaffolding, Excavations)					TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Excavations	MT	300	R		R	MT	300	R	R
	Tool Hire	LOT	1	R		R	LOT	1	R	R
	Barricading	LOT	1	R		R	LOT	1	R	R
	Scaffolding	LOT	1	R		R	LOT	1	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
I	Testing & Commissioning	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Rack Testing (Off-site)	EA	10	R		R	EA	10	R	R
	FAT	LOT	1	R		R	LOT	1	R	R
	SIT	LOT	1	R		R	LOT	1	R	R
	SAT	LOT	10	R		R	LOT	10	R	R
	Rack Testing (On-site)	EA	10	R		R	EA	10	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
J	OEM Operating & Maintenance Training	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Microphone Training	EA	20	R		R	EA	20	R	R
	HMI Training	EA	20	R		R	LOT	20	R	R
	Training Manuals (Microphone)	EA	20	R		R	EA	20	R	R
	OEM Training	EA	20	R		R	EA	20	R	R
	Refreshments & Lunch	LOT	1	R		R	LOT	1	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
K	Hand Over (As per VDSS)	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Hand Over (As per VDSS)	EA	1	R		R	EA	1	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
L	P's & G's	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Site Establishment	LOT	1	R		R	LOT	1	R	R
	Site De-establishment	LOT	1	R		R	LOT	1	R	R
	Project Management	MONTH	12	R		R	MONTH	12	R	R
	Health & Safety (safety file, medical and etc.)	MONTH	12	R		R	MONTH	12	R	R
	Quality Control	MONTH	12	R		R	MONTH	12	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
M	Contractor Overheads	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Transportation of Equipment	LOT	1	R		R	LOT	1	R	R
	Personnel Transport (Site-base:Site)	KM	5770	R		R	KM	5770	R	R
	Personnel Transport (For Induction & Permits)	KM	480	R		R	KM	480	R	R
	Accommodation (Crew)	MONTH	12	R		R	MONTH	12	R	R
	Accommodation (Management)	LOT	1	R		R	LOT	1	R	R
	Meals (Crew)	MONTH	6	R		R	MONTHS	6	R	R
	SUB TOTAL					R			SUB TOTAL	R
	DESCRIPTION OF WORKS				SUPPLY	SUPPLY COSTS	INSTALLATION COST			
N	Miscellaneous Hardware	UNIT	QTY.	RATE		TOTAL COST	UNIT	QTY.	RATE	TOTAL COST
	Labels, Conduits, Trunking, Fasteners, Bosal tubes, clamps, brackets, junction boxes, glands and etc.	LOT	1	R		R	LOT	1	R	R
	SUB TOTAL					R			SUB TOTAL	R
	TOTAL EXCLDING VAT TRANSFERRED TO FINAL SUMMARY									

THE PROVISION OF A PA SYSTEM REPLACEMENT PROJECT FOR A PERIOD OF 8 MONTHS AT CAMDEN POWER
STATION - BILLS OF QUANTITIES

FINAL SUMMARY

No	Description	Amount
1	Section 1 - BOQ	R
	Sub-Total	R
2	Value Added Tax @ 15%	R
3	Grand Total (Incl. VAT) - Carried to Form of Offer and Acceptance	R