



**CAMDEN POWER
STATION**

GENERATION

**CAMDEN POWER STATION :SECURITY
FENCE REPLACEMENT CONTRACT
PROVISIONAL BILLS OF QUANTITIES**

CONTRACT NUMBER :

CONTRACTOR :

**CONTRACT AMOUNT :
(Excluding VAT)**

**CONTRACT AMOUNT :
INCLD VAT)**

**CAMDEN POWER STATION SECURITY FENCE REPLACEMENT :PROVISIONAL BILLS OF
QUANTITIES**

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CAMDEN POWER STATION SECURITY FENCE REPLACEMENT :PROVISIONAL BILLS OF QUANTITIES

NOTES TO TENDERERS**NOTES TO TENDERERS****1. Provisional Bills of Quantities**

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

2.1 CONTRACT DOCUMENTS

The contract documents will consist of:

2.1.1 The NEC3 Engineering and Construction Contract third Edition 2013 together with all amendments.

2.1.2 The Model Preambles for Trades (2008 Edition) as published by the ASAQS. This document is not incorporated within the text of these Provisional Bills of Quantities, accordingly the contractor is urged to make careful reference to this Document for its full intent and meaning.

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

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

2.1.5 Construction Regulations 2014

2.1.6 Occupational Health and Safety Act of 1993

2.1.7 Scope of works document

2.2 DRAWINGS

No Drawings are available for this contract

3 PREAMBLES TO ALL TRADES

Tenderers are referred to the Model Preambles for Trades, 2008 Edition, (recommended and published by the Association of South African Eskom Officials) and the "Supplementary Preambles to All Trades" (Supplementary Preambles pages 1-10 hereof) for the full descriptions and specifications referred to in these Provisional Bills of Quantities. It should be noted that descriptions in these Provisional Bills of Quantities generally appear in brief, but whether specific reference to the Model Preambles and the "Supplementary Preambles" is made or not, they shall be deemed to apply fully to and augment the descriptions of the relevant items. No claim whatsoever will be allowed in respect of errors or omissions in pricing due to brevity of descriptions of items in the Provisional Bills of Quantities which are fully described when read in conjunction with the relevant requirements of the Model Preambles and the "Supplementary Preambles to All Trades".

The Tenderer must study the Model Preambles and the "Supplementary Preambles to All Trades" before pricing these Provisional Bills of Quantities and all prices inserted in these Provisional Bills of Quantities shall cover all costs and charges that may be considered necessary by the Tenderer for the carrying out and observance of the Provisions of the Model Preambles and the "Supplementary Preambles to All Trades". Where requirements of descriptions in the Provisional Bills of Quantities differ from the relevant requirements of the Model Preambles and the "Supplementary Preambles to All Trades", the requirements of the descriptions in the Provisional Bills of Quantities shall apply.

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 14% 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:-

1. **Removal and Replacement of existing Security Fence.**

6 ADDRESS WHERE DOCUMENTS CAN BE OBTAINED

Tender documents will be available at Eskom Holdings offices or on the Eskom website.

7 POSSESSION OF SITE

The date of which possession of the Site shall be given to the Contractor shall be within 5 days of the acceptance of this tender.

8 COMPLETION DATE

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

Duration: This contract will be for 12 months.

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, ESKOM Official or ESKOM Official.

10 AREA OF WORKS

The Tenderer shall ascertain by personal viewing of the site any restrictions to the area that may be occupied by the contractor including any restrictions imposed by any buildings, etc. and any limitations or restrictions that may be imposed by the Municipal Engineer or the Local Authorities.

Access to the site shall be logically planned and enclosed to ensure minimum disruption to existing user operations. The site is to be restricted to the fenced area.

The contractor is deemed to have allowed for all necessary temporary fencing, screening, hoardings, etc. Space for the storage of Building Materials must be arranged with the ESKOM Official.

The Contractor shall make all necessary provisions in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained as admitted. Tenderers will be held responsible for any misunderstanding of incorrect information, however obtained, except information which may have been given in writing over the signature of the ESKOM Official.

11 MANAGEMENT OF WORKS

The Contractor shall to the satisfaction of the ESKOM Official provide, in addition to the Foreman, the services of an experienced and competent Construction Manager.

The names and CV's of the Contractor's proposed Management Team shall be submitted to the ESKOM Official prior to commencement on site and, after the ESKOM Official's agreement on the composition and competence thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from the project while remaining in the employ of the Contractor without the ESKOM Official's prior written approval.

The Contractor shall make necessary provisions in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.

12 INSPECTION OF WORK

The Contractor shall obtain all local authority approvals if required and shall ensure that all work is also approved by the ESKOM Official prior to covering up. The fact that the work will be inspected periodically in no way absolves the Contractor from total responsibility for the quality of his workmanship and for compliance with the specification. He shall timeously notify the ESKOM Official so that foundation and other inspections can be arranged.

13 SITE CLEANLINESS

The Contractor shall clear away all dirt, rubbish and superfluous material as they accumulate and leave the whole of the site clean and tidy on completion to the satisfaction of the ESKOM Official. The Contractor is advised that the adjacent site is functional at all times and that the incumbents should not be unduly inconvenienced.

14 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.

15 PROGRAMME

The Contractor will be required to submit an outline programme of work to completion of the contract within 2 weeks of acceptance of his tender followed by the detailed programme with 4 weeks of acceptance of his tender.

16 CONTRACT PRICE ADJUSTMENT

This contract is not subject to escalation

18 PRICED Provisional Bills of Quantities:

Tenderers must submit to the ESKOM Official a copy of the Provisional Bills of Quantities fully priced and extended, with his tender. After the Bills have been checked, and when called upon, each page of the Provisional Bills of Quantities shall be initialled and the first and last pages signed in full by the Tenderer.

19 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 or Special and General Conditions of Contract.

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, the client representative will adjust the tender price accordingly.

20 COMMUNICATION WITH MEMBERS OF TENDER BOARD OR PROFESSIONAL TEAM

A Tenderer shall not in any way communicate with a member of the Tender Board 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 despatch of the written notification of the ESKOM Official decision on the award of the contract; provided that a Tenderer shall not hereby be precluded from obtaining from the ESKOM Official 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 ESKOM Official to which the Council had delegated its powers, information as to the nature of the decision or such information as was publicly disclosed at the opening of Tenders.

21 IMPORT PERMITS:

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

22 Provisional Bills of Quantities:

No alteration, erasure, omission or addition is to be made to the text and conditions of these Provisional 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 Provisional Bills of Quantities as prepared by the ESKOM Official 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 ESKOM Official will be entitled to call for adjustments of individual rates and rectify discrepancies, as he considers necessary without alterations to the Tender amount.

These Bills 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.

23 TRAFFIC REGULATIONS AT ESKOM

The Contractor shall comply with all requirements of Eskom in connection with traffic control, gaining access to the site, prevention or disruption of the flow of traffic, transporting of materials and equipment to and from the site

24 PROTECTION OF PERSONS AND PROPERTY

The Contractor shall adopt all safety measures in compliance with all statutes, regulations, etc., and shall take all measures to protect all property and to secure the safety and freedom from injury of all persons.

The Contractor shall in addition take all necessary steps to prevent nuisance from dust and the like and shall use every endeavour to minimise noise emanating from the Contract Works. The Contractor is referred to the various forms that require his attention prior to commencing work on site - All forms duly completed and signed must be forwarded to the ESKOM Official.

25 SETTING OUT OF THE CONTRACT WORKS

The Site shall not be used by the Contractor for any purpose other than that of carrying out the Contract works. The Contractor shall set out the Contract Works and shall be held solely responsible and liable for the correct centre lines, levels, and gradients.

26 KEEP EARTHWORKS FREE FROM WATER, MUD ETC.

The Contractor shall keep the earthworks free from water, mud, etc. by hand or machinery (including day and night attendance as necessary) as no water, mud, etc., shall be allowed to stand or accumulate.

The Contractor must cut all necessary trenches etc., and build embankments in order to divert stormwater and/or ground water and to protect the earthworks. The Contractor shall be solely responsible for any damage caused by storms, rains, surface or underground water or water from other causes.

On completion of the Contract, the Contractor shall fill in temporary trenches including compacting, and shall remove any temporary embankments all at his sole cost.

27 EXISTING AND ADJOINING PROPERTIES, PAVINGS ETC.

The Contractor shall execute the whole of the Contract Works with the minimum of disturbance to the existing and adjoining premises and occupants thereof. He shall keep the Site well watered where necessary, and take all other steps, to prevent dust and shall keep pavements, surrounding roads etc., clean to the entire satisfaction of the ESKOM Official and the Authorities.

The Contractor shall leave such buildings, structures, fences, pavings, roadways, kerbs, gardens, municipal pavements, streets, etc., in the same condition at completion as they were at the commencement of the Contract. Before commencing work, the Contractor shall arrange with the owners of the existing and adjoining buildings and/or the Authorities for an inspection to be made jointly with themselves, the Contractor and the ESKOM Official in order to make written notes of any cracks defects, etc. which may later be claimed to have been caused by the operations under the Contract. Should defects be disclosed, the Contractor shall submit same in writing to the ESKOM Official before commencing the Contract, failing which it shall be understood that no such defects existed and the Contractor shall be liable for all claims in this connection.

28 PROCEDURE OF WORKS

The Contractor shall be solely responsible for ensuring that the procedure of works is kept to and no deviations will be entertained.

Should this, however not be possible then the Contractor shall timeously notify the ESKOM Official.

SPECIAL CLAUSES**29 TRADE NAMES, ETC.**

All materials, fittings, finishes, etc. specified under a "Trade Name", catalogue number or reference shall be either exactly as described or of equal quality, specification and weight to those described.

The ESKOM Official's written approval must be obtained for any departure from the specification before the submission of tenders, failing which specified materials, fittings, finishings, etc. shall be deemed to have been allowed for in the tenders.

Where articles other than what the manufacturer specified are used, an adjustment of the prices will be made and Variation Orders issued to cover these adjustments.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

30 CONTRACTOR'S RESPONSIBILITY

The ESKOM Official and the other Professional Consultants shall not be responsible for any act or omission on the part of the Contractor, which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

31 SITE INSTRUCTIONS AND RECORDS

The Contractor shall supply and have available at the site of the works at all times, the following site books:-

a) Site Instruction Book

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the ESKOM Official or other Employer's Agents to whom the ESKOM Official has delegated Authority in the book. Only site instructions issued in such a book shall be recognised.

b) Daily Record Book

The Contractor shall record in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the ESKOM Official and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the ESKOM Official for his counter signature on a daily basis. Copies of these records shall be for the ESKOM Official, ESKOM Official and Contractor.

32 LOCATION OF TEMPORARY BUILDING AND TEMPORARY SERVICES

The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hard standing and services, etc. required for his own and Sub-Contractor's use during the construction and maintenance period.

There is no guarantee given or implied that Site Conditions will be such that the Contractor will be able to erect such offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain permission and pay all cost in connection therewith.

33 OCCUPATIONAL HEALTH AND SAFETY ACT NO 85 OF 1993 (THE ACT)

By the submission of a tender, any Tenderer will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act. As a mandatory the successful Tenderer will be deemed to be the "Principal Contractor" and an Employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed and machinery and plant used in accordance with the Act. Should the Contractor, for whatever reason be unable to perform as required by the Act, the Contractor undertakes to inform the Employer accordingly.

The Contractor will be required to:-

- 1 Provide the Employer with a health and safety programme and plan specifically related to the Works and ensure that the programme and plan are implemented and maintained, with the programme being subject to audit, at least once a month, by the Employer;
- 2 Exercise discretion and if deemed relevant (by the Contractor) appoint a full-time or part-time Construction Safety Officer (in writing) to assist in the control of all safety related aspects, and to give input into the health and safety plan;
- 3 Appoint (in writing) a full time competent Supervisor (as defined in the Regulation in terms of the Act) to supervise the project;

4 Provide the Employer and any sub-contractors that may be engaged by the Contractor and/or nominated sub-contractors with a programme of construction for the Works as well as a method statement with the necessary details and procedures for execution;

5 Provide the Employer both before commencing and during construction work with a copy of a risk assessment performed by a competent person who has been appointed in writing by the Contractor, and the risk assessment must form part of the health and safety plan;

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

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.

34 CONTRACTORS TO VISIT SITES PRIOR TO SUBMISSION OF TENDER

The contractors are urged to visit all the sites that has been identified to get an overview of the nature of works, numbered assets and the location of the building prior to pricing this document.

35.PRICING OF THESE GENERAL NOTES

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

	Schedule Description	Unit	Amount
	PRELIMINARIES AND GENERAL		
	ESTABLISHMENT OF FACILITIES ON SITE		
1	FIXED CHARGES		
1.1	Contractual requirements, (Contractor to supply Breakdown)	sum	
1.2	Establishment of facilities on site		
1.2.1	Transportation to site	sum	
1.2.2	Offices for Engineer & staff and signs	sum	
1.3	Facilities for the Contractor		
1.3.1	Storage sheds	sum	
1.3.2	Eating area	sum	
1.3.3	Ablution & latrine facilities	sum	
1.3.4	Plant,Tools & equipment	sum	
1.3.5	Water supplies& electric power connections	sum	
1.3.6	COC for all offices	sum	
1.3.7	Site Establishment	sum	
1.3.8	Survey/Setting Out	sum	
1.3.9	Quality	sum	
1.40	SAPS Vetting and /or Finger Print Check	sum	
1.41	Other fixed-charge obligations: security, deviations and dealing with traffic.	sum	
1.42	As Built Surveys	sum	
1.5	Contractor's obligations in respect of the Occupational Health and Safety Act		
1.5.1	Health and Safety Requirements	sum	
1.5.2	PPE	sum	
1.5.3	Medicals and Induction	sum	
1.5.4	Construction Regulation 2014	sum	
1.5.6	De- establishment	sum	
	TOTAL COST FIXED CHARGES (A)	R	
2	TIME RELATED CHARGES		
	FACILITIES FOR CONTRACTOR		
2.1	Contractual requirements, subsistence, transport and incidental expenses	sum	
2.2	Operate & maintain facilities for the duration of the contract	sum	
2.3	Offices for Engineer & staff and notice board	sum	
2.4	Facilities for the Contractor for the duration of construction		
2.5	Offices & storage sheds	sum	
2.6	Workshops	sum	
2.7	Ablution & latrine facilities	sum	
2.8	Tools & equipment	sum	
2.9	Environmental requirements	sum	
2.10	Accommodation	sum	
2.11	Transport	sum	
2.12	Plant	sum	
2.15	Other time-related obligations: security and other	sum	
	TOTAL COST TIME RELATED ITEMS (B)	R	
	TOTAL COST A+B TRANSFERRED TO FINAL SUMMARY PAGE EXCLD VAT	R	

CAMDEN POWER STATION SECURITY FENCE REPLACEMENT PROVISIONAL BILLS OF QUANTITIES						
PAGE	ITEM		UNIT	QTY	RATE	AMOUNT
		<u>SECTION 2: ALTERATIONS</u>				
		<u>PREAMBLES:</u>				
		The Tenderer is referred to the relevant clauses in the latest edition of the Model Preambles for Trades and to the Supplementary Preambles.				
		<u>SUPPLEMENTARY PREAMBLES</u>				
		<u>RATE APPROVALS</u>				
		The tenderer is advised that all rates that is that is included in this tender document must include the following breakdown:				
		Material, labour, plant, wastage, transport and profit.				
		<u>PRICING OF THIS BILLS OF QUANTITIES</u>				
		Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderers omission to price any item will be entertained.				
		<u>CURRENCY</u>				
		All pricing and amounts to be in the currency of South African Rands (ZAR)				
		All individual amounts in these bills of quantities exclude Value Added Tax (VAT). VAT is to be calculated as a lump sum and added to the total of all values in the Final Summary under the item provided for VAT				
		A detailed and / or itemised breakdown of the P&G's Items will be requested only from the successful bidders for vetting by the employer.				
		<u>SCOPE OF WORKS DOCUMENT</u>				
		The Supplier is referred to the Scope of Works Document Identifier 229 - T-2637 for the details of the Scope. The supplier must carefully read this document prior to pricing this document as no ambiguity will be entertained after the tender closes.				
		<u>OVERTIME AND NORMAL WORK INCLUDING WEEKENDS AND PUBLIC HOLIDAYS:</u>				
		The tenderers are advised that the following works may be done during normal working hours as well as after normal working hours. Tenderers must make due allowance for these working hours in the pricing as no claims will be entertained in this regard.				
		<u>LABOUR INTENSIVE ITEMS</u>				
		The contractors must work in a labour intensive manner. The Contractor must take this method of construction into consideration when programmes the work.				
		<u>REMOVAL OF EXISTING WORK</u>				
		All existing items taken out from the works unless otherwise stated are to be handed over to the ESKOM Officials. Representative who shall direct where on the site such items are to be stored for the removal by others. Refer to the schedule at the end of these Bills of Quantities.				
		Rubble resulting from breaking down, demolishing, etc. is to be removed from the site by the Contractor on an on going basis to avoid accumulation of mounds of such rubble or earth.				

GENERAL					
		Unless otherwise described the Preambles and full descriptions of the other sections shall apply equally to this section.			
		All voids in ground consequent upon the pulling or cutting are to be filled in with clean earth well consolidated and rammed up to ground level and made good with the required finish to the satisfaction of the ESKOM Officials.			
		Allow for watering the works by spraying to prevent any nuisance from dust etc., and supply, erect, maintain and remove on completion all temporary dust screens, etc required.			
		Provide, erect where directed, maintain for the duration of the contract and remove and make good at completion a hoarding formed of corrugated iron or timber boarding supported as necessary on framing with posts let into ground, complete with lockable pedestrian and vehicular gates.			
MEASUREMENTS					
		The measurement that are referred to in this section is brief and the contractor is requested to take his own measurements prior to pricing these documents.			
CONTRACTOR TO VISIT THE SITE					
		The contractor is advised that alterations work is to be done with utmost of care. The contractor is encouraged to visit the site and view all buildings to determine the extent of demolition and alteration works.			
PROGRAMME OF WORKS					
		The suppliers are note that they can only do a maximum of 100m a day for the removal of existing and reinstatement of new fence due to security risks and they must factor this in there method of work and overall completion of the works			
REMOVAL OF EXISTING METAL FENCING AND CARTING OFF SITE					
Taking out and removing mesh fence					
	1	Take out and remove existing welded mesh wire fence and 4 No barbed wire strands complete with 2400mm high 100mm diameter metal standards at 3m centres and, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	m	5123	R
	2	Take out and remove existing mesh wire fence and barbed wire complete with 2400mm high 100mm diameter metal standards at 3m centres and, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	m	5123	R
	3	Take out and remove Pedestrian gate and posts overall size 750 x 1800mm high, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	No	10	R
	4	Take out and remove swing gate and posts overall size 3200 x 3700mm high, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	No	2	R
	5	Take out and remove swing gate and posts overall size 6100 x 3700mm high, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	No	2	R
	6	Take out and remove swing gate and posts overall size 6400 x 3700mm high, grubbing up and removing any concrete bases, etc including filling with selected material and compacting to 95% Mod Aashto maximum density.	No	4	R
CARRIED TO FINAL SUMMARY EXCLD VAT					R

SECURITY FENCE REPLACEMNT PROVISIONAL BILLS OF QUANTITIES						
Page	Item		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 3 : BUILDING WORKS</u>				
		<u>BILL NO.1 : METAL FENCING</u>				
		<u>PREAMBLES</u>				
		The Tenderer is referred to the relevant clauses in the latest edition of the Model Preambles for Trades and to the Supplementary Preambles.				
		<u>SUPPLEMENTARY PREAMBLES</u>				
		<u>RATE APPROVALS</u>				
		The tenderer is advised that all rates that is that is included in this tender document must include the following breakdown:				
		Material, labour, plant, wastage, transport and profit.				
		<u>PRICING OF THIS BILLS OF QUANTITIES</u>				
		Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderers omission to price any item will be entertained.				
		<u>CURRENCY</u>				
		All pricing and amounts to be in the currency of South African Rands (ZAR)				
		All individual amounts in these bills of quantities exclude Value Added Tax (VAT). VAT is to be calculated as a lump sum and added to the total of all values in the Final Summary under the item provided for VAT				
		<u>SCOPE OF WORKS DOCUMENT</u>				
		The Supplier is referred to the Scope of Works Document Identifier 229 -T-2637 for the details of the Scope. The supplier must carefully read this document prior to pricing this document as no ambiguity will be entertained after the tender closes.				
		<u>OVERTIME AND NORMAL WORK INCLUDING WEEKENDS AND PUBLIC HOLIDAYS:</u>				
		The tenderers are advised that the following works may be done during normal working hours as well as after normal working hours. Tenderers must make due allowance for these working hours in the pricing as no claims will be entertained in this regard.				
		<u>LABOUR INTENSIVE ITEMS</u>				
		The contractors must work in a labour intensive manner. The Contractor must take this method of construction into consideration when programmes the work.				
		<u>NATURE OF GROUND</u>				
		The Tenderer must acquaint himself with the nature of the material to be excavated.				
		The nature of the ground is assumed to be medium, dense and very dense material, therefore earth, but possibly interspersed with "hard rock" or "intermediate material".				
		A soils investigation has not been carried out on site by the Engineer and the report is not annexed to the back of these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" .				
		<u>CARTING AWAY OF EXCAVATED MATERIAL:</u>				
		Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.				
		<u>SUBTERRAN WATER</u>				
		The contractor must keep proper records for all dewatering and these records must be signed by the Eskom Official on a weekly basis so that payments can be effected. If this process is not followed, this work will be provided free of charge.				
		<u>PROGRAMMING OF WORKS</u>				
		The suppliers are note that they can only do a maximum of 100m a day for the removal of existing and reinstatement of new fence due to security risks and they must factor this in there method of work and overall completion of the works				

	SHOP DRAWINGS				
	As a general rule all work related to this trade must have shop drawings prepared and approved by the ESKOM Official prior to fabrication. Where there is reference to design and supply, it must be designed by a professionally registered engineer.				
	SURVEY OF WORKS				
	The Supplier must Surveying and setting out of the works including establishment and protection of any benchmarks required to complete the works				
	FENCING				
	WELDED MESH FENCING				
	Galvanising:				
	Galvanising shall comply with SANS 763 and all items of posts, stays, gate framing, etc., described as galvanised shall be hot dipped galvanised after fabrication with Class A galvanising with all internal and external surfaces fully coated.				
	PURPOSE MADE WELDED SECURITY MESH FENCING				
	Hot dipped galvanised (SABS 763) welded steel mesh fencing 2600 mm high including site clearance and preparation of ground:				
	Security fencing 2600mm high formed of Welded Mesh Fence shall be 3.15mm diameter HT mesh 50x50 openings 2.600 mm high fixed at 400mm centres each of 6 No x 3.15mm core galvanised straining wires with 1.8mm wire ties, passed through 100 x 100 x 2600 mm galvanised angle iron intermediate posts at 2600 mm centres, and tied to 120x 120 x 2600 mm galvanised angle iron corner and straining posts, straining posts braced with 75 x 75 x 3000mm angle iron bracing stays bolted to straining posts with and including 30MPa Concrete bases size 450 x 450 x 800mm to intermediate posts, size 450 x 450 x 1000 mm to corner and straining posts and size 300 x 600 x 600mm to bracing stays, including all excavations, etc. In addition 50 x 50 x 700mm galvanised angle iron razor wire arm bolted to Intermediate post with 4 Number barbed wire	m	17500		R
	Extra over for 4 No Galvanised Razor Wire 2.24mm diameter galvanised HT champion class A or similar approved passes through and including 50 x 50mm galvanised angle posts at 4600 mm centres	m	70000		R
	PURPOSE MADE GATES				
	Gate Posts and Gates:				
	Where required, gate posts shall be supplied in steel tubing complying with CKS 82, 150mm diameter x 3,2mm wall thickness, in lengths as specified, with upper end capped with 1,6mm thick pressed mild steel domed cap welded on and 3mm thick x 300mm x 300mm diameter footplate welded to base. Gateposts are to be drilled and fitted with mild steel ferrules welded into position to receive 20mm diameter mild steel hinges.				
	Threaded 12mm diameter studs or approved stay collars are to be fixed on to the posts to locate and secure the top ends of stays. The whole shall be hot dipped galvanised. Holes for the threading and fixing of tying wires shall be drilled on site and holes cold galvanised on completion. Stays shall have the top end flattened, bent as required, holed 12 mm diameter for bolting to post and the whole hot dip galvanised.				
	Mild steel tubing for gate components shall comply with SANS 657 Part1. The diameters specified are the nominal external diameters of the tube.				
	Hot dipped galvanised and epoxy coated to approved colour by specialists, mild steel gates:				
	Pedestrian gate and posts overall size 750 x 1800mm high, gate formed of 80 x 40 x 3mm top, side and bottom rail with 20 x 20 x 2.5mm square vertical infill tubing at 100mm centres and 150 x 150 x 3.5mm thick posts on either side 2400mm high, founded in and including 450 x 450 x 800mm unreinforced concrete bases, excavation, backfilling and disposal of excavated material off site, keeping excavations free of water, including 'Union' padlock, barrel bolt, keep, 3 hinges, etc.	NO	10		R
	Double swing gate size 6100 x 3700mm high overall, each leaf size 3050 x 3700 mm high, each leaf formed of 75 x 100 x 2.8mm top and side rails, and 75 x 150 x 2.8mm bottom rail, with 40 x 2.8mm square vertical infill tubing at 120mm centres, with two 200 X 200 MM galvanised posts 3700 mm high and 4 No Galvanised Razor Wire 2.24mm diameter galvanised HT champion class A or similar approved, the post founded in and including 1000 x 800 x 450mm unreinforced 30 Mpa concrete bases, excavation, backfilling and disposal of excavated material off site, keeping excavations free of water, all to include padlock, keeps, anchor blocks, hinges to posts, etc.	NO	2		R
	Double swing gate size 6400 x 3700mm high overall, each leaf size 3200 x 3700 mm high, each leaf formed of 75 x 100 x 2.8mm top and side rails, and 75 x 150 x 2.8mm bottom rail, with 40 x 2.8mm square vertical infill tubing at 120mm centres, with two 200 X 200 MM galvanised posts 3700 mm high and 4 No Galvanised Razor Wire 2.24mm diameter galvanised HT champion class A or similar approved, the post founded in and including 1000 x 800 x 450mm unreinforced 30 Mpa concrete bases, excavation, backfilling and disposal of excavated material off site, keeping excavations free of water, all to include padlock, keeps, anchor blocks, hinges to posts, etc.	NO	4		R

		Single swing gate size 3200 x 3700mm high overall, each leaf size 3200 x 3700 mm high, each leaf formed of 75 x 100 x 2.8mm top and side rails, and 75 x 150 x 2.8mm bottom rail, with 40 x 2.8mm square vertical infill tubing at 120mm centres, with two 200 X 200 MM galvanised posts 3700 mm high and 4 No Galvanised Razor Wire 2.24mm diameter galvanised HT campion class A or similar approved, the post founded in and including 1000 x 800 x 450mm unreinforced 30 Mpa concrete bases, excavation, backfilling and disposal of excavated material off site, keeping excavations free of water, all to include padlock, keeps, anchor blocks, hinges to posts, etc.	NO	2		R
		CARRIED TO FINAL SUMMARY EXCLD VAT				R

CAMDEN POWER STATION SECURITY FENCE REPLACEMENT PROVISIONAL BILLS OF QUANTITIES

FINAL SUMMARY

	Bill No.		Page	Amount
	1	PRELIMINARIES	R	
	2	ALTERATIONS	R	
	3	FENCING	R	
		Sub-Total	R	
		Allow 2% Contingencies on the above total to be used at the discretion of the Project Manager and deducted in part if so required.	R	
		Sub-Total	R	
		ADD:		
		15% VAT	R	
		TOTAL CARRIED TO FORM OF OFFER	R	