

ESKOM GENERATION**2025****Removal, Application, Supply and
Installation of Refractory for a Period of 60
Months at Camden Power Station****CONTRACT NUMBER :****CONTRACTOR****CONTRACT AMOUNT (EXCL. VAT) : R -****CONTRACT AMOUNT (INCL. VAT) : R -**

Removal, Application, Supply and Installation of Refractory for a Period of 60 Months at Camden Power Station

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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 carefull 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:-

Removal, Application, Supply and Installation of Refractory for a Period of 60 Months at Camden Power Station

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: 60 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 Service 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 be subject to CPAP.

12. PRICED BILLS OF QUANTITIES:

Tenderers must submit to the Service 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 Service 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 Service 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 Service 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 Service 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 Service 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.

Removal,Application, Supply and Installation of Refactory for a period of 60 Months at Camden Power Station					
Item	Description	Unit	Qty	Rate	Amount
	<u>BILLS OF QUANTITIES NO 1</u>				
	<u>PREAMBLES</u>				
	<u>RATES</u>				
	The tenderer is advised that all rates must include the following breakdown:				
	Labour, Transport Plant,wastage 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>SCOPE OF WORKS</u>				
	The Contractor is referred to entire Scope of Woks for the details of the Scope. The Contractor is to study the details of this document prior to pricing this Bills of Quantities as these documents are contractual and Eskom will not be held responsible for any ambiguity				
	<u>CONTRACT PERIOD</u>				
	60 Months				
	<u>CURRENCY</u>				
	All rates tendered on and / or pricing in these bills of quantities to be in the South African Rands Currency (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>HEALTH AND SAFETY</u>				
	The contractor must ensure that all health and safety regulatory and safety requirements are met and valid.				

	<u>PRICING OF THIS BILLS OF QUANTITIES</u>				
	The contractor's prices for all items throughout this document must take account of and include for all obligations, requirements and specifications given in the said works information/scope of work				
	<u>PRELIMINARIES AND GENERAL</u>				
	<u>FIXED CHARGES</u>				
	<u>ESTABLISHMENT OF FACILITIES ON SITE</u>				
1	Site establishment	Sum	1		R -
2	SAPS Vetting and /or Finger Print Check	Sum	6		R -
	<u>Contractor's obligations in respect of the Occupational Health and Safety Act</u>				
3	Health and Safety Requirements (Safety File etc)	Sum	1		R -
4	PPE	Sum	6		R -
5	Medicals and Induction	Sum	6		R -
6	De- establishment	Sum	1		R -
	SUB TOTAL COST FIXED CHARGES (A)				R -
	<u>TIME RELATED CHARGES</u>				
	<u>Equipment</u>				
7	Mixing pan	Sum	1		R -
8	Shovel and Spade	Sum	10		R -
9	Plaster equipment	Sum	10		R -
10	Bituminous seal /emulsion	Sum	200		R -
11	Electrical Jack hammer	Sum	1		R -
12	Double Cab Bakkie	Sum	1		R -
	SUB TOTAL COST TIME RELATED ITEMS (B)				R -
	TOTAL COST A+B TRANSFERRED TO FINAL SUMMARY				R -

Removal,Application, Supply and Installation of Refactory for a period of 60 Months at Camden Power Station				
BILLS OF QUANTITIES NO 2 for OUTAGE				
Evaporator Wall: Rear	Size M ² (A)	No. of times	Rate (B)	Amount (A) X (B)
Evaporator rear wall at 12m Level	30	15		R -
Evaporator rear wall at 14m Level	30	15		R -
Evaporator rear wall at 16m Level	30	15		R -
Evaporator rear wall at 18m Level	30	15		R -
Evaporator rear wall at 21m Level	30	15		R -
Evaporator rear wall at 24m Level	30	15		R -
Evaporator rear wall at 28m Level	30	15		R -
Evaporator rear wall at 29m Level	30	15		R -
Evaporator rear wall at 32m Level	30	15		R -
Evaporator rear wall at 34m Level	30	15		R -
Evaporator rear wall at 36m Level	30	15		R -
Evaporator rear wall at 38m Level	30	15		R -
Evaporator rear wall at 33m Level	30	15		R -
Evaporator rear wall at 31m Level	30	15		R -
Evaporator Wall: RHS	Size M ²			
Evaporator RHS wall at 12m Level	16.2	15		R -
Evaporator RHS wall at 14m Level	16.2	15		R -
Evaporator RHS wall at 16m Level	16.2	15		R -
Evaporator RHS wall at 18m Level	16.2	15		R -
Evaporator RHS wall at 21m Level	16.2	15		R -
Evaporator RHS wall at 24m Level	16.2	15		R -
Evaporator RHS wall at 28m Level	16.2	15		R -
Evaporator RHS wall at 29m Level	29	15		R -
Evaporator RHS wall at 32m Level	23	15		R -
Evaporator RHS wall at 34m Level	23	15		R -
Evaporator RHS wall at 36m Level	23	15		R -

Evaporator RHS wall at 38m Level	23	15		R	-
Evaporator RHS wall at 40m Level	23	15		R	-
Evaporator RHS wall at 46m Level	23	15		R	-
Economiser: LHS	Size M²				
Economiser side wall Refractory Blocks U6&7	140	5		R	-
Burner Front	Size M²				
Evaporator front wall at 12m Level Burner Row A	300	15		R	-
Evaporator Wall: Front	Size M²				
Evaporator Front wall at 12m Level	15	15		R	-
Evaporator Front wall at 14m Level	15	15		R	-
Evaporator Front wall at 16m Level	15	15		R	-
Evaporator Front wall at 18m Level	15	15		R	-
Evaporator Front wall at 21m Level	15	15		R	-
Evaporator Front wall at 24m Level	30	15		R	-
Evaporator Front wall at 28m Level	30	15		R	-
Evaporator Front wall at 29m Level	30	15		R	-
Evaporator Front wall at 32m Level	30	15		R	-
Evaporator Front wall at 34m Level	30	15		R	-
Evaporator Front wall at 36m Level	30	15		R	-
Evaporator Front wall at 38m Level	30	15		R	-
Evaporator Front wall at 40m Level	30	15		R	-
Evaporator Front wall at 46m Level	30	15		R	-

Evaporator Wall: LHS	Size M²			
Evaporator LHS wall at 12m Level	16.2	15		R -
Evaporator LHS wall at 14m Level	16.2	15		R -
Evaporator LHS wall at 16m Level	16.2	15		R -
Evaporator LHS wall at 18m Level	16.2	15		R -
Evaporator LHS wall at 21m Level	16.2	15		R -
Evaporator LHS wall at 24m Level	16.2	15		R -
Evaporator LHS wall at 28m Level	16.2	15		R -
Evaporator LHS wall at 29m Level	29	15		R -
Evaporator LHS wall at 32m Level	23	15		R -
Evaporator LHS wall at 34m Level	23	15		R -
Evaporator LHS wall at 36m Level	23	15		R -
Evaporator LHS wall at 38m Level	23	15		R -
Evaporator LHS wall at 40m Level	23	15		R -
Evaporator LHS wall at 46m Level	23	15		R -
Economiser: LHS	Size M²			
Economiser side wall Refractory Blocks U6&7	30	15		R -
Deflection Plate	30	15		R -
Evaporator Top Nose	Size M²			
Evaporator Top Nose dead space floor	44.5	15		R -
Evaporator Top Nose dead space Rear wall	48	15		R -
Evaporator Top Nose skin casing access	37	15		R -
Evaporator Top Nose: Roof Box	15	15		R -
Evaporator Top Nose: furnace or fire side	30	15		R -
Edging or skirting Top Nose	16	15		R -
Evaporator Bottom	Size M²			
Evaporator Bottom dead space front	124	15		R -
Evaporator Bottom dead space rear	124	15		R -
Edging or skirting Bottom slop front and Rear	25	15		R -

Others	Size M²			
Tube eak detection:30 off	5	15		R -
Pent house floor repairs: 4x4m	5	15		R -
All boiler inspection doors: 50 off	1	15		R -
All boiler man hole door: 12 off	2	15		R -
All sloot blower openings 14 off	1	15		R -
All sloot blower boxes 14 off	2	15		R -
All boiler manhole doors (outer boxes) 16 off	19.2	15		R -
Steam drum Nose	30	15		R -
Refractory Material Type as Per the scope	No of Outages			
Top Nose	5000	9		R -
Manholes	1500	9		R -
Walls	2000	9		R -
Economiser Refractory Block	3000	9		R -
TOTAL OUTAGE BOQ TRANSFERRED TO FINAL SUMMARY PAGE				R -

Removal,Application, Supply and Installation of Refactory for a period of 60 Months at Camden Power Station					
BILLS OF QUANTITIES NO 3 MAINTENACE					
Evaporator Wall: Rear	Size M ² (A)	No. of times	Rate (B)	Amount (A) X (B)	
Evaporator rear wall at 12m Level	30	144		R	-
Evaporator rear wall at 14m Level	30	144		R	-
Evaporator rear wall at 16m Level	30	144		R	-
Evaporator rear wall at 18m Level	30	144		R	-
Evaporator rear wall at 21m Level	30	144		R	-
Evaporator rear wall at 24m Level	30	144		R	-
Evaporator rear wall at 28m Level	30	144		R	-
Evaporator rear wall at 29m Level	30	144		R	-
Evaporator rear wall at 32m Level	30	144		R	-
Evaporator rear wall at 34m Level	30	144		R	-
Evaporator rear wall at 36m Level	30	144		R	-
Evaporator rear wall at 38m Level	30	144		R	-
Evaporator rear wall at 33m Level	30	144		R	-
Evaporator rear wall at 31m Level	30	144		R	-
Evaporator Wall: RHS	Size M ²				
Evaporator RHS wall at 12m Level	16.2	144		R	-
Evaporator RHS wall at 14m Level	16.2	144		R	-
Evaporator RHS wall at 16m Level	16.2	144		R	-
Evaporator RHS wall at 18m Level	16.2	144		R	-
Evaporator RHS wall at 21m Level	16.2	144		R	-
Evaporator RHS wall at 24m Level	16.2	144		R	-
Evaporator RHS wall at 28m Level	16.2	144		R	-
Evaporator RHS wall at 29m Level	29	144		R	-
Evaporator RHS wall at 32m Level	23	144		R	-
Evaporator RHS wall at 34m Level	23	144		R	-
Evaporator RHS wall at 36m Level	23	144		R	-
Evaporator RHS wall at 38m Level	23	144		R	-
Evaporator RHS wall at 40m Level	23	144		R	-
Evaporator RHS wall at 46m Level	23	144		R	-

Economiser: LHS	Size M²			
Economiser side wall Refractory Blocks U6&7	30	144		R -
Deflection Plate	30	144		R -
Burner Front	Size M²			
Evaporator front wall at 12m Level Burner Row A	300	144		R -
Evaporator Wall: Front				
Evaporator Front wall at 12m Level	15	144		R -
Evaporator Front wall at 14m Level	15	144		R -
Evaporator Front wall at 16m Level	15	144		R -
Evaporator Front wall at 18m Level	15	144		R -
Evaporator Front wall at 21m Level	15	144		R -
Evaporator Front wall at 24m Level	30	144		R -
Evaporator Front wall at 28m Level	30	144		R -
Evaporator Front wall at 29m Level	30	144		R -
Evaporator Front wall at 32m Level	30	144		R -
Evaporator Front wall at 34m Level	30	144		R -
Evaporator Front wall at 36m Level	30	144		R -
Evaporator Front wall at 38m Level	30	144		R -
Evaporator Front wall at 40m Level	30	144		R -
Evaporator Front wall at 46m Level	30	144		R -

Evaporator Wall: LHS		Size M²			
Evaporator LHS wall at 12m Level	16.2	144		R	-
Evaporator LHS wall at 14m Level	16.2	144		R	-
Evaporator LHS wall at 16m Level	16.2	144		R	-
Evaporator LHS wall at 18m Level	16.2	144		R	-
Evaporator LHS wall at 21m Level	16.2	144		R	-
Evaporator LHS wall at 24m Level	16.2	144		R	-
Evaporator LHS wall at 28m Level	16.2	144		R	-
Evaporator LHS wall at 29m Level	29	144		R	-
Evaporator LHS wall at 32m Level	23	144		R	-
Evaporator LHS wall at 34m Level	23	144		R	-
Evaporator LHS wall at 36m Level	23	144		R	-
Evaporator LHS wall at 38m Level	23	144		R	-
Evaporator LHS wall at 40m Level	23	144		R	-
Evaporator LHS wall at 46m Level	23	144		R	-
Economiser: LHS		Size M²			
Economiser side wall Refractory Blocks U6&7	30	144		R	-
Deflection Plate	30	144		R	-
Evaporator Top Nose		Size M²			
Evaporator Top Nose dead space floor	44.5	144		R	-
Evaporator Top Nose dead space Rear wall	48	144		R	-
Evaporator Top Nose skin casing access	37	144		R	-
Evaporator Top Nose: Roof Box	15	144		R	-
Evaporator Top Nose: furnace or fire side	30	144		R	-
Edging or skirting Top Nose	16	144		R	-
Evaporator Bottom		Size M²			
Evaporator Bottom dead space front	124	144		R	-
Evaporator Bottom dead space rear	124	144		R	-
Edging or skirting Bottom slop front and Rear	25	144		R	-

Others	Size M²			
Tube eak detection:30 off	5	144		R -
Pent house floor repairs: 4x4m	5	144		R -
All boiler inspection doors: 50 off	1	144		R -
All boiler man hole door: 12 off	2	144		R -
All sloot blower openings 14 off	1	144		R -
All sloot blower boxes 14 off	2	144		R -
All boiler manhole doors (outer boxes) 16 off	19.2	144		R -
Steam drum Nose	30	144		R -
Refractory Material Type as Per the scope	No of Outages			
Top Nose	10000	9		R -
Manholes	10000	9		R -
Walls	10000	9		R -
Economiser Refractory Block	256	9		R -
TOTAL MAINTENACE BOQ TRANSFERRED TO FINAL SUMMARY PAGE				R -

**Removal.Application,Supply and Installationof Refactory for a period Of 60 Months at Camden
Power Station**

FINAL SUMMARY

No	Description	Amount	
1	Bill No 1 - Preliminaries and General	R	-
2	Bill No 2 - Outage Bills Of Quantities	R	-
3	Bill No 2 - Maintenace Bills Of Quantities	R	-
	Sub-Total	R	-
3	Value Added Tax @ 15.5%	R	-
4	Grand Total (Incl. VAT) - Carried to Form of Offer and Acceptance	R	-