



ESKOM GENERATION

2025

THE PROVISION OF TURBINE WELDING AND MAINTENANCE SERVICE CONTRACT ON AS AND WHEN REQUIRED BASIS FOR A PERIOD OF 60 MONTHS AT CAMDEN POWER STATION - BILLS OF QUANTITIES

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

THE PROVISION OF TURBINE WELDING AND MAINTENANCE SERVICE CONTRACT ON AS AND WHEN REQUIRED BASIS FOR A PERIOD OF 60 MONTHS AT CAMDEN POWER STATION - BILLS OF QUANTITIES

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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 Service 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 Scope of works documents

3 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 subtotal on the final summary page by means of a single sum calculation to establish the tender price.

4 SCOPE OF WORK

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

The Provision of Turbine Welding and Maintenance Service Contract on an as and when Required Basis for a Period of 60 months at Camden Power Station

5 ADDRESS WHERE DOCUMENTS CAN BE OBTAINED

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

6 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.

7 CONSTRUCTION PERIOD - DATES FOR PRACTICAL COMPLETION

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.

8 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 Terms Service Manager.

9 CONTRACT PRICE ADJUSTMENT

The Contract Sum shall be subject to CPAP.

10. PRICED BILLS OF QUANTITIES:

Tenderers must submit to the Terms 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.

11 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 Terms Service Manager will correct the calculation accordingly.

12 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 Terms 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.

13 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 Terms 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 Terms 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.

14 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.

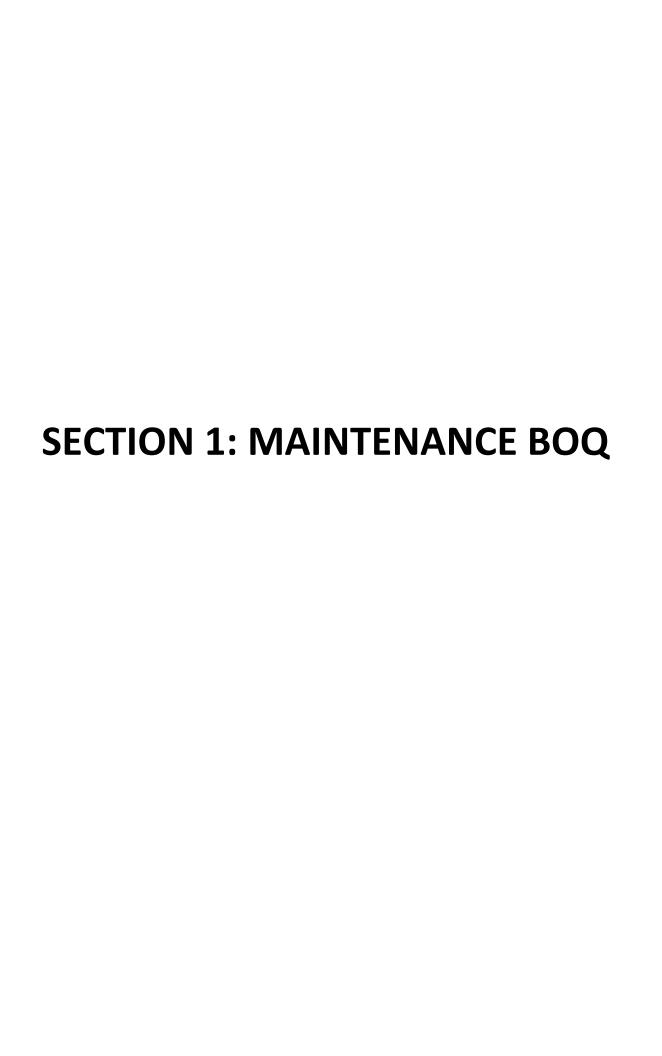
15 TAX COMPLIANCE

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.

These Bills are not to be used for the purpose of ordering materials.

All Bill rates are to include for food, material, labour, plant, wastage, transport and profit.



	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
Ī				Α	В	С	AxBxC
,	SECTION - 1 MAINTENAN	CE					
ļ	BILL OF QUANTITIES						
<u>F</u>	PREAMBLE						
9	Currency						
	All pricing and amounts to be in the c Rands (ZAR)	currency of South African					
A	All individual amounts in these bills o Added Tax (VAT). VAT is to be calcu added to the total of all values in the tem provided for VAT	lated as a lump sum and					
Ł	A detailed and / or itemised breakdo be requested only from the successfr employer.						
<u>F</u>	RATES						
	The tenderer is advised that any rate nust include the following breakdown						
N	Material, labour, plant, wastage, trans	sport and profit.					
<u>I</u>	_ABOUR INTENSIVE ITEMS						
116	The contractor shall comply with all roof Good Practice for Employment and Special Public Works Programmes" is Basic Conditions of Employment Act 1997)" and the related "Ministerial Deemployment of locally employed templotes in frastructure project under Works Programme (EPWP)	d Conditions of Work for ssued in terms of the t, 1997 (Act No. 75 of etermination", for the porary workers on a labour-					
9	SPECIFICATION DOCUMENT						
f	The Contractor is reffered to the Spe ull details of the scope and they are document prior to pricing this work.						
3	SCOPE OF WORKS						
٧	The scope of works encompasses th welding and maintenance services fo Camden Power Station						
F	PRICING OF THE BILLS OF QUAN	TITIES					
c	Any items left unpriced will be unders charge and no claim for any extras a omission to price any item will be ent	rising out of the Tenderers					

	BILL NO.01: NORMAL WO	ORKING HOURS - TOTAL (60 MC	ONTHS)			
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
1	Site Manager	Mechanical Diploma (N6) + 5 years relevant experience	Hour	1	10080		R
2	Site Foreman	Trade test + 5 years relevant experience	Hour	1	10080		R
3	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	10080		R
4	Welding Engineer (As Required)	IWE in line with IIW document IAB-252R2-14 or latest revision, or IWT in line with IIW document IAB-252R2-14 or latest revision	Hour	1	4000		R
5	Welding Supervisor	IWS in line with IIW document IAB-252R2-14 or latest version, or IWP in line with IIW document IAB-252R2-14 or latest version	Hour	2	10080		R
6	Welding Inspector (QC)	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	10080		R
7	Draftsman (As Required)	Certificate in CAD Drafting and Design Technology	Hour	1	2000		R
8	Design Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years relevant experience	Hour	1	2000		R
9	Finite Element Analysis Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years FEA Experience in design by analysis	Hour	1	2000		R
10	Planner	Diploma, or NQF 5	Hour	1	10080		R
11	Clerk-Admin	Gr. 12 + Administrative Diploma or Certificate	Hour	1	10080		R
12	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	10080		R
13	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	4	10080		R
14	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	10080		R
15	Welder- Plate, Fillet, and pipe qualification required	Welder qualification to ISO 9606-1	Hour	4	10080		R
16	Boilermaker	Boilermaker trade test certificate	Hour	2	10080		R
17	Rigger	Rigging Trade Test certificate	Hour	2	10080		R
18	Semi-skilled Labourer Mechanical	CAT 3	Hour	6	10080		R
19	Storeman	Staking and Storage certificate	Hour	2	10080		R
20	General Assistant	Gr. 10, or higher	Hour	10	10080		R
21	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	10080		R
22	Cleaner	Gr. 10, or higher	Hour	1	10080		R
	Sub - Total						R

	BILL NO.02: OVERTIME H	<u>OURS</u>						
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount	
				Α	В	С	AxBxC	
23	Site Manager	Mechanical Diploma+ 5 years relevant experience	Hour	1	1920		R	
24	Site Forman	Trade test + 5 years relevant experience	Hour	1	1920		R	
25	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	1920		R	
26	Welding Engineer (As Required)	IWE in line with IIW document IAB-252R2-14 or latest revision, or IWT in line with IIW document IAB-252R2-14 or latest revision	Hour	1	400		R	
27	Welding Supervisor	IWS in line with IIW document IAB-252R2-14 or latest version, or IWP in line with IIW document IAB-252R2-14 or latest version	Hour	2	1920		R	
28	Welding Inspector	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	1920		R	
29	Draftsman (As Required)	Certificate in CAD Drafting and Design Technology	Hour	1	200		R	
30	Design Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years relevant experience	Hour	1	200		R	
31	Finite Element Analysis Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years FEA Experience in design by analysis	Hour	1	200		R	
32	Planner	Diploma, or NQF 5	Hour	1	1920		R	
33	Clerk-Admin	Gr. 12 + Administrative Diploma or Certificate	Hour	1	1920		R	
34	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	1920		R	
35	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	4	1920		R	
36	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	1920		R	
37	Welder- Plate, Fillet, and pipe qualification required	Welder qualification to ISO 9606	Hour	4	1920		R	
38	Boilermaker	Boilermaker trade test certificate	Hour	2	1920		R	
39	Rigger	Rigging Trade Test certificate	Hour	2	1920		R	
40	Semi-skilled Labourer Mechanical	CAT 3	Hour	6	1920		R	
41	Storeman	Staking and Storage certificate	Hour	2	1920		R	
42	General Assistant	Gr. 10, or higher	Hour	10	1920		R	
43	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	1920		R	
44	Cleaner	Gr. 10, or higher	Hour	1	1920		R	
	Sub - Total						R	

	BILL NO.03: OVERTIME H	HOURS_					
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
45	Site Manager	Mechanical Diploma+ 5 years relevant experience	Hour	1	1200		R
46	Site Forman	Trade test + 5 years relevant experience	Hour	1	1200		R
47	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	1200		R
48	Welding Engineer (As Required)	IWE in line with IIW document IAB-252R2-14 or latest revision, or IWT in line with IIW document IAB-252R2-14 or latest revision	Hour	0	0		Rate Only
49	Welding Supervisor	IWS in line with IIW document IAB-252R2-14 or latest version, or IWP in line with IIW document IAB-252R2-14 or latest version	Hour	2	1200		R
50	Welding Inspector	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	1200		R
51	Draftsman (As Required)	Certificate in CAD Drafting and Design Technology	Hour	1	0		Rate Only
52	Design Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years relevant experience	Hour	1	0		Rate Only
53	Finite Element Analysis Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years FEA Experience in design by analysis	Hour	1	0		Rate Only
54	Planner	Diploma, or NQF 5	Hour	1	1200		R
55	Clerk-Admin	Gr. 12 + Administrative Diploma or Certificate	Hour	1	1200		R
56	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	1200		R
57	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	4	1200		R
58	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	1200		R
59	Welder- Plate, Fillet, and pipe qualification required	Welder qualification to ISO 9606	Hour	4	1200		R
60	Boilermaker	Boilermaker trade test certificate	Hour	2	1200		R
61	Rigger	Rigging Trade Test certificate	Hour	2	1200		R
62	Semi-skilled Labourer Mechanical	CAT 3	Hour	6	1200		R
63	Storeman	Staking and Storage certificate	Hour	2	1200		R
64	General Assistant	Gr. 10, or higher	Hour	10	1200		R
65	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	1200		R
66	Cleaner	Gr. 10, or higher	Hour	1	1200		R
	Sub - Total						R

	BILL NO.04: OVERTIME H	IOURS					
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
67	Site Manager	Mechanical Diploma+ 5 years relevant experience	Hour	1	240		R
68	Site Forman	Trade test + 5 years relevant experience	Hour	1	240		R
69	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	240		R
70	Welding Engineer (As Required)	IWE in line with IIW document IAB-252R2-14 or latest revision, or IWT in line with IIW document IAB-252R2-14 or latest revision	Hour	1	240		R
71	Welding Supervisor	IWS in line with IIW document IAB-252R2-14 or latest version, or IWP in line with IIW document IAB-252R2-14 or latest version	Hour	2	240		R
72	Welding Inspector	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	240		R
73	Draftsman (As Required)	Certificate in CAD Drafting and Design Technology	Hour	1	240		R
74	Design Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years relevant experience	Hour	1	240		R
75	Finite Element Analysis Engineer (As Required)	M. Eng. Mechanical + ECSA Registered PR. Eng. + 5 Years FEA Experience in design by analysis	Hour	1	240		R
76	Planner	Diploma, or NQF 5	Hour	1	240		R
77	Clerk-Admin	Gr. 12 + Administrative Diploma or Certificate	Hour	1	240		R
78	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	240		R
79	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	4	240		R
80	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	240		R
81	Welder- Plate, Fillet, and pipe qualification required	Welder qualification to ISO 9606	Hour	4	240		R
82	Boilermaker	Boilermaker trade test certificate	Hour	2	240		R
83	Rigger	Rigging Trade Test certificate	Hour	2	240		R
84	Semi-skilled Labourer Mechanical	CAT 3	Hour	6	240		R
85	Storeman	Staking and Storage certificate	Hour	2	240		R
86	General Assistant	Gr. 10, or higher	Hour	10	240		R
87	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	240		R
88	Cleaner	Gr. 10, or higher	Hour	1	240		R
1.5 LOG	GISTICS - TOTAL (60 MONTHS)						R

no	Staff Description	Specification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				A	В	С	AxBxC
9	Site Bakkie (pickup truck)	Single Cab, 1000 kg payload capacity	No	2	60	F	२
90	Forklift	3000kg - 3500kg, LPG powered, Lift Height 3m - 6m	No	1	60	F	२
91	Staff transporter	22-Seater	No	2	60	F	₹
92	Portable drill	Drill size: 2-24mm, Hammer or Impact type	No	4	1	F	र
93	Magnetic base drilling machine	Annular Drilling: 12mm-50mm, Twist Drilling:1mm-23mm, Countersinking 10mm-55mm	No	2	1	F	२
94	Pressure pump - water	Electrical operated positive displacement pump, 30 MPA discharge pressure	No	2	1	F	₹
95	Pressure testing Manifold	Refer to Section 2.9.6.1 of CAM- TRB-WSCMO-3-02	No	2	1	F	₹
96	Heavy duty colour printer	3 in 1 (Scan Print and Fax) , Colour print and scan	No	2	1	F	२
97	Laptops with Microsoft Office	2.7 GHz I7 Processor, 16 GB RAM, 64-bit operating system, 16" screen (min.)	No	6	1	F	२
98	Angle Grinder (9")	9" / 230mm, 2000W	No	4	1	F	२
99	Angle Grinder (4.5")	4.5", 900W	No	6	1	F	?
100	Pencil grinder	500W, Max grinding tool diameter: 25mm	No	6	1	F	₹
101	Welding machine (400A, SMAW / MMA)	SMAW / MMA, Inverter type, Input Voltage: 3 phase-380V, Output 20-400A	No	2	1	F	₹
102	Welding machine (200A, SMAW / MMA)	SMAW / MMA, Inverter type, Output 200A	No	4	1	F	₹
103	Welding machine (230A, GTAW / TIG)	GTAM / TIG, AC/DC Waveform setting, Pulse Welding Capability, Soft-Start Capability, 230V - 50Hz. Single phase power input, Gas or Water cooled, Welding current max.: 230A	No	2	1	F	२
104	Pipe Bending Machine	Heavy duty up to 6" normal pipe size	No	1	1	F	₹
05	Electrode Baking Oven	300°c	No	2	1	F	₹
06	Electrode Holding Oven	150°c	No	2	1	F	₹
07	Impact wrench	1" square drive, 4000 Nm torque	No	2	1	F	₹
08	Hydraulic torque machine (power pack and torque wrench)	1.5" Square Drive Hydraulic Torque Wrench 10 000 Nm (min.), Low profile torque wrench 2000 Nm. (min.)	No	1	1	F	र
09	Industrial Plate Rolling machine	Machine Rolling Capacity: 20mm, Rolling length:3200mm, Yield limit 245MPA, Required rolling Diameter: 300mm - 1100mm	No	1	1	F	र

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110	Post Weld Heat Treatment machine	65kVA 6 Channel PWHT Machine, Resistive heating	No	1	1		R
111	Torque wrench	1" square drive, 300-1500Nm Torque,	No	1	1		R
112	Torque wrench	1/2" square drive, 60-340Nm Torque,	No	1	1		R
113	Plasma Cutter	40 Amp, 220V	No	1	1		R
114	Acetylene Cutter	All inclusive: Acetylene Torch, Hoses, Cylinder Trolly, Cylinders, Regulator, Gauges, Flash Back Arrestor, Flint lighter, Nozzle cleaner, Nozzles	No	1	1		R
115	Hydraulic jack	15 Ton Hand Pump, Hoses, Gauge with Gauge adaptor, Jack: 15Ton Capacity, 100mm stroke	No	2	1		R
116	Rigging Equipment	Including slings, chain block and eyebolts, Beam-crawler (10 ton capacity)	No	4	1		R
117	Tap and Die set	M6 to M25	No	1	1		R
118	Diesel for bakkie (Pickup Truck)	60 Liters per month per Bakkie for two Bakkies (1 Unit = 120l/month)	No	120	60		R
119	Material Verification	Wet-chem analysis, mechanical testing (yield and tensile), impact testing	No	25	1		R
120	PPE - Overhauls	two - piece (Jacket and Trousers) D59 Flame and Acid Resistant, 4 sets yearly per employee	No	204	5		R
121	PPE - Shoes	Steal-Toe, NRCS approved, Sole Resistant of 90°c, 2 sets yearly per employee	No	102	5		R
122	Medical screening- in	Registered Medical Centre	No	51	1		R
123	Medical screening- Renewal	Registered Medical Centre	No	51	4		R
124	Medical screening- out	Registered Medical Centre	No	51	1		R
125	Site Establishment	Requirement to be finalised during the contracting phase	No	1	1		R
126	Site De establishment	Requirement to be finalised during the contracting phase	No	1	1		R
127	Accommodation - White Collar workers	Site Manager (1), Mechanical Supervisor (1), Site Forman (1), Welding Supervisors (2), Welding Inspectors (2)- (1 Unit = Accommodation for 7 people for 60 Months)	No	7	60		R
128	Accommodation - Blue Collar workers	Planner (1), SHE Officer (1), Mechanical Fitter (4), Pipe Fitters (3), Welders (4), Boilermakers (2), Riggers (2) - (1 Unit = Accommodation for 17 people for 60 Months)	No	17	60		R

	GRAND-TOTAL (EXC	CL. VAT)				R
	Sub - Total					R
132	Mechanical Consumables	Acetylene gas cylinder (60), Oxygen gas cylinder (120), Grinding disks 4.5" (1800), Grinding disks 9" (1200), cutting disks 4.5" (3000), cutting disks 9" (1800), copper brushes for 4.5" grinder (600), Sealant for galvanized pipe (300), Threaded tape PTFE (600)	No	1	1	R
131	Welding consumables	Welding PPE, Filler Material, Tungsten tip for TIG, Gas (per welding procedure - 360 total), Gas Hoses, Welding leads, Ceramic Nozzles for TIG torch,	No	1	1	R
130	Measuring Tools	Measuring Tapes (15), Verners 0- 300mm (4), Verners 0-500mm (4), Verners 0-1000mm (2), Metric Feeler Gauges 0.05-1mm (4),	No	2	1	R
129	Toolboxes	74 Piece, Socket wrench and socket sizes 8-32, Spanner set sizes 6-22, Allen key set sizes 1.5 - 10, shifting spanner - 25mm, normal pliers, long-nose pliers, groove-joint pliers, Phillips Screwdrivers No.1x80 + NO.2x38 + NO.3x150, Flat screwdrivers 5.5x38 + 5.5x100 + 8x150	No	15	1	R

SECTION 2: - OUTAGE BOQ

Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
	SECTION 2 OUT ACE						
	SECTION - 2 OUTAGE						
	BILL OF QUANTITIES						
	<u> </u>						
	PREAMBLE						
	Currency						
	All pricing and amounts to be in the curre (ZAR)	ncy of South African Rands					
	All individual amounts in these bills of quates (VAT). VAT is to be calculated as a lof all values in the Final Summary under	ump sum and added to the total					
	A detailed and / or itemised breakdown or requested only from the successful bidde						
	RATES						
	The tenderer is advised that any rate that include the following breakdown	is required for work must					
	Material, labour, plant, wastage, transpor	and profit.					
	LABOUR INTENSIVE ITEMS						
	The contractor shall comply with all required Practice for Employment and Conditions Works Programmes" issued in terms of the Employment Act, 1997 (Act No. 75 of 1950 Determination", for the employment of loc workers on a labour-intensive infrastructured Public Works Programme (EPWP)	of Work for Special Public ne "Basic Conditions of i7)" and the related "Ministerial ally employed temporary					
	SPECIFICATION DOCUMENT						
	The Contractor is reffered to the Specifical details of the scope and they are urged to pricing this work.						
	SCOPE OF WORKS						
	The scope of works encompasses the promaintenance services for a priod of 60 m						
	PRICING OF THE BILLS OF QUANTITIE	<u> </u>					
	Any items left unpriced will be understood and no claim for any extras arising out of any item will be entertained						
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	BILL NO.01: NORMAL WORL	KING HOURS - TOTAL (36 MO	NTHS)				
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
1	Site Foreman	Trade test + 5 years relevant experience	Hour	1	6480		R
2	Outage Coordinator	Mechanical Diploma (N6) + 5 years relevant experience	Hour	1	6480		R
3	Welding Supervisor	IWS in line with IIW document IAB- 252R2-14 or latest version, or IWP in line with IIW document IAB- 252R2-14 or latest version	Hour	1	6480		R
4	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	6480		R
5	Welding Inspector (QC)	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	6480		R
6	Planner	Diploma, or NQF 5	Hour	1	6480		R
7	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	6480		R
8	Admin Clerk	Gr. 12 + Administrative Diploma or Certificate	Hour	1	6480		R
9	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	8	6480		R
10	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	6480		R
11	Welder (Plate, Fillet, and pipe qualification required)	Welder qualification to ISO 9606-1	Hour	2	6480		R
12	Boilermaker	Boilermaker trade test certificate	Hour	2	6480		R
13	Rigger	Rigging Trade Test certificate	Hour	4	6480		R
14	Semi-skilled	CAT 3	Hour	8	6480		R
15	Storeman	Staking and Storage certificate	Hour	1	6480		R
16	General Assistant	Gr. 10, or higher	Hour	6	6480		R
17	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	6480		R
18	Cleaner x 1	Gr. 10, or higher	Hour	1	6480		R
							_
	Sub-Total						R

	BILL NO.02: OVERTIME HOL	<u>JRS</u>					
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				A	В	С	AxBxC
19	Site Foreman	Trade test + 5 years relevant experience	Hour	1	1152		R
20	Outage Coordinator	Mechanical Diploma (N6) + 5 years relevant experience	Hour	1	1152		R
21	Welding Supervisor	IWS in line with IIW document IAB- 252R2-14 or latest version, or IWP in line with IIW document IAB- 252R2-14 or latest version	Hour	1	1152		R
22	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	1152		R
23	Welding Inspector (QC)	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	1152		R
24	Planner	Diploma, or NQF 5	Hour	1	1152		R
25	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	1152		R
26	Admin Clerk	Gr. 12 + Administrative Diploma or Certificate	Hour	1	1152		R
27	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	8	1152		R
28	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	1152		R
29	Welder (Plate, Fillet, and pipe qualification required)	Welder qualification to ISO 9606-1	Hour	3	1152		R
30	Boilermaker	Boilermaker trade test certificate	Hour	2	1152		R
31	Rigger	Rigging Trade Test certificate	Hour	4	1152		R
32	Semi-skilled	CAT 3	Hour	8	1152		R
33	Storeman	Staking and Storage certificate	Hour	1	1152		R
34	General Assistant	Gr. 10, or higher	Hour	10	1152		R
35	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	1152		R
36	Cleaner x 1	Gr. 10, or higher	Hour	1	1152		R
	Sub-Total						R
	Sub-10tal						N.

no Resources ' ' '		BILL NO.03: OVERTIME HOURS - TOTAL (36 MONTHS)						
37 Site Foreman		Staff Description	Qualification	Unit		Qty. (Hrs.)	Rate (R/Hr.)	Amount
Sile Protestian					Α	В	С	AxBxC
1	37	Site Foreman		Hour	1	576		R
252R2-14 or latests version, or NOF 1 1 576	38	Outage Coordinator		Hour	1	576		R
Automatical Supervisor Experience Rout 1 576 R	39	Welding Supervisor	252R2-14 or latest version, or IWP in line with IIW document IAB-	Hour	1	576		R
Number N	40	Mechanical Supervisor		Hour	1	576		R
SAME Officer	41	Welding Inspector (QC)		Hour	2	576		R
43 SHE Officer SACPCMP, or Diploma in OHS or EHS Hour 2 576 R 44 Admin Clerk Gr. 12 + Administrative Diploma or Certificate Hour 1 576 R 45 Mechanical Fitter Trade Test certificate, or CAT 5 Hour 8 576 R 46 Pipe Fitter CAT 5, or Boilermaker trade test certificate Hour 3 576 R 47 Welder (Plate, Fillet, and pipe qualification to ISO 9606-1 Hour 3 576 R 48 Boilermaker Boilermaker trade test certificate Hour 2 576 R 48 Rigger Rigging Trade Test certificate Hour 4 576 R 49 Rigger Rigging Trade Test certificate Hour 4 576 R 50 Semi-skilled CAT 3 Hour 1 576 R 51 Storeman Staking and Storage certificate Hour 1 576 R 52 General Assistant	42	Planner	Diploma, or NQF 5	Hour	1	576		R
Addition Clerk Certificate Hour 1	43	SHE Officer	SACPCMP, or	Hour	2	576		R
Hour 3 576 R Welder (Plate, Fillet, and pipe qualification to ISO 9606-1 Hour 3 576 R Boilermaker Boilermaker trade test certificate Hour 2 576 R Boilermaker Hour 4 576 R R Semi-skilled CAT 3 Hour 8 576 R Storeman Staking and Storage certificate Hour 1 576 R General Assistant Gr. 10, or higher Hour 14 576 R Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	44	Admin Clerk		Hour	1	576		R
Welder (Plate, Fillet, and pipe qualification to ISO 9606-1 Hour 3 576 R Welder (Plate, Fillet, and pipe qualification required) Welder qualification to ISO 9606-1 Hour 3 576 R Boilermaker Boilermaker trade test certificate Hour 2 576 R Rigger Rigging Trade Test certificate Hour 4 576 R Semi-skilled CAT 3 Hour 8 576 R Storeman Staking and Storage certificate Hour 1 576 R General Assistant Gr. 10, or higher Hour 14 576 R Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	45	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	8	576		R
48 Boilermaker Boilermaker trade test certificate Hour 2 576 R 49 Rigger Rigging Trade Test certificate Hour 4 576 R 50 Semi-skilled CAT 3 Hour 8 576 R 51 Storeman Staking and Storage certificate Hour 1 576 R 52 General Assistant Gr. 10, or higher Hour 14 576 R 53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	46	Pipe Fitter		Hour	3	576		R
49 Rigger Rigging Trade Test certificate Hour 4 576 R 50 Semi-skilled CAT 3 Hour 8 576 R 51 Storeman Staking and Storage certificate Hour 1 576 R 52 General Assistant Gr. 10, or higher Hour 14 576 R 53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	47		Welder qualification to ISO 9606-1	Hour	3	576		R
50 Semi-skilled CAT 3 Hour 8 576 R 51 Storeman Staking and Storage certificate Hour 1 576 R 52 General Assistant Gr. 10, or higher Hour 14 576 R 53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	48	Boilermaker	Boilermaker trade test certificate	Hour	2	576		R
51 Storeman Staking and Storage certificate Hour 1 576 R 52 General Assistant Gr. 10, or higher Hour 14 576 R 53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	49	Rigger	Rigging Trade Test certificate	Hour	4	576		R
52 General Assistant Gr. 10, or higher Hour 14 576 R 53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	50	Semi-skilled	CAT 3	Hour	8	576		R
53 Fire Watch Gr. 12 + Fire Watcher certificate Hour 2 576 R	51	Storeman	Staking and Storage certificate	Hour	1	576		R
	52	General Assistant	Gr. 10, or higher	Hour	14	576		R
54 Cleaner x 1 Gr. 10, or higher Hour 1 576 R	53	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	576		R
	54	Cleaner x 1	Gr. 10, or higher	Hour	1	576		R
Sub-Total R		Sub-Total						R

	BILL NO.04: OVERTIME HOURS - TOTAL (36 MONTHS)						
Item no	Staff Description	Qualification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
55	Site Foreman	Trade test + 5 years relevant experience	Hour	1	468		R
56	Outage Coordinator	Mechanical Diploma (N6) + 5 years relevant experience	Hour	1	468		R
57	Welding Supervisor	IWS in line with IIW document IAB- 252R2-14 or latest version, or IWP in line with IIW document IAB- 252R2-14 or latest version	Hour	1	468		R
58	Mechanical Supervisor	Trade test + 3 years relevant experience	Hour	1	468		R
59	Welding Inspector (QC)	SAIW Inspector level 2, or IWI-C, or IWI-S	Hour	2	468		R
60	Planner	Diploma, or NQF 5	Hour	1	468		R
61	SHE Officer	SAMTRAC, or Registered with SACPCMP, or Diploma in OHS or EHS	Hour	2	468		R
62	Admin Clerk	Gr. 12 + Administrative Diploma or Certificate	Hour	1	468		R
63	Mechanical Fitter	Trade Test certificate, or CAT 5	Hour	8	468		R
64	Pipe Fitter	CAT 5, or Boilermaker trade test certificate	Hour	3	468		R
65	Welder (Plate, Fillet, and pipe qualification required)	Welder qualification to ISO 9606-1	Hour	3	468		R
66	Boilermaker	Boilermaker trade test certificate	Hour	2	468		R
67	Rigger	Rigging Trade Test certificate	Hour	4	468		R
68	Semi-skilled	CAT 3	Hour	8	468		R
69	Storeman	Staking and Storage certificate	Hour	1	468		R
70	General Assistant	Gr. 10, or higher	Hour	14	468		R
71	Fire Watch	Gr. 12 + Fire Watcher certificate	Hour	2	468		R
72	Cleaner x 1	Gr. 10, or higher	Hour	1	468		R
	Sub-Total						R

	BILL NO.05: LOGISTICS - TOTAL (36 MONTHS)						
Item no	Staff Description	Specification	Unit	No. of Resources	Qty. (Hrs.)	Rate (R/Hr.)	Amount
				Α	В	С	AxBxC
73	Staff transporter	22-Seater	Number	3	36		R
74	Portable drill	Drill size: 2-24mm, Hammer or Impact type	Number	2	1		R
75	Angle Grinder (9")	9" / 230mm, 2000W	Number	3	1		R
76	Angle Grinder (4.5")	4.5", 900W	Number	3	1		R
77	Pencil grinder	500W, Max grinding tool diameter: 25mm	Number	3	1		R
78	Welding machine (400A, SMAW / MMA)	SMAW / MMA, Inverter type, Input Voltage: 3 phase-380V, Output 20- 400A	Number	1	1		R
79	Welding machine (200A, SMAW / MMA)	SMAW / MMA, Inverter type, Output 200A	Number	1	1		R
80	PPE - Overhauls	two - piece (Jacket and Trousers) D59 Flame and Acid Resistant, 4 sets yearly per employee	Number	188	3		R
81	PPE - Shoes	Steal-Toe, NRCS approved, Sole Resistant of 90°c, 2 sets yearly per employee	Number	94	3		R
82	Medical screening- in	Registered Medical Centre	Number	47	1		R
83	Medical screening- Renewal	Registered Medical Centre	Number	47	2		R
84	Medical screening- out	Registered Medical Centre	Number	47	1		R
85	Accommodation - White Collar workers	Site Foreman (1), Outage Coordinator (1), Mechanical Supervisor (1), Welding Supervisors (1), Welding Inspectors (2) - (1 Unit = Accommodation for 6 people for 36 Months)	Number	6	36		R
86	Accommodation - Blue Collar workers	Planner (1), SHE Officer (2), Mechanical Fitter (8), Pipe Fitter (3), Welder (2), Boilermaker (2), Rigger (4). (1 Unit = Accommodation for 22 people for 60 Months)	Number	22	36		R
87	Toolboxes	74 Piece, Socket wrench and socket sizes 8-32, Spanner set sizes 6-22, Allen key set sizes 1.5 - 10, shifting spanner - 25mm, normal pliers, longnose pliers, groove-joint pliers, Phillips Screwdrivers No.1x80 + NO.2x38 + NO.3x150, Flat screwdrivers 5.5x38 + 5.5x100 + 8x150	Number	15	1		R
	Sub-Total						R
	GRAND - TOTAL (EXCL. VAT)					R



THE PROVISION OF TURBINE WELDING AND MAINTENANCE SERVICES FOR A PERIOD OF 60 MONTHS AT CAMDEN POWER STATION

FINAL SUMMARY

ITEM	DESCRIPTION	AMOUNT
1	Section No.01 - Maintenance	R
2	Section No.02 - Outage	R
	Sub - Total	R
4	VAT @ 15%	R
	BID PRICE (INCL. VAT) - TRANFERRED TO FORM FER AND ACCEPTANCE	R