

NEC3 Term Service Contract (TSC3)

Between	ESKOM HOLDINGS SOC Ltd (Reg No. 2002/015527/30)	
and	(Reg No)	
for	UG40 ACTUATORS SUPPLY AND REFURBISHMENT	
Contents:	No of pages	
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Part C3	Scope of Work	

No of pages

CONTRACT No.

PART C1: AGREEMENTS & CONTRACT DATA

Contents:

C1.1 Form of Offer and Acceptance

- C1.2a Contract Data provided by the Employer
- C1.2b Contract Data provided by the Contractor
- C1.3 Proforma Guarantees

C1.1 Form of Offer & Acceptance

Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

UG40 Actuators Supply and Refurbishment to Hendrina Power Station for a period of 5 years

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the tenderer offers to perform all of the obligations and liabilities of the *Contractor* under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the *conditions of contract* identified in the Contract Data.

Options A or C	The offered total of the Prices exclusive of VAT is	R
Option E The first forecast of the total Defined Cost plus the Fee exclusive of VAT is		R
	Sub total	R
	Value Added Tax @ 15% is	R
	The offered total of the amount due inclusive of VAT is1	R
	(in words)	

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the tenderer becomes the party named as the *Contractor* in the *conditions of contract* identified in the Contract Data.

Signature(s)				
Name(s)				
Capacity				
For the tenderer:				
	(Insert name and address of organisation)			
Name &				
signature of witness			Date	
Tenderer's CIDB registration number:				

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¹ This total is required by the *Employer* for budgeting purposes only. Actual amounts due will be assessed in terms of the *conditions of contract*.

Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)

Part C2 Pricing Data

Part C3 Scope of Work: Service Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed and signed original copy of this document, including the Schedule of Deviations (if any).

Signature(s)			
Name(s)			
Capacity			
for the Purchaser	Eskom Holdings SOC Ltd, Hendrina Power Station 1 Impala Street Pullenshope 1096		
	(Insert name and address of organisation)		
Name &			
signature of witness		Date	

Note: If a tenderer wishes to submit alternative tenders, use another copy of this Form of Offer and Acceptance.

Schedule of Deviations to be completed by the *Employer* prior to contract award

- 1. This part of the Offer & Acceptance would not be required if the contract has been developed by negotiation between the Parties and is not the result of a process of competitive tendering.
- 2. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
- 3. A tenderer's covering letter must not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid be the subject of agreement reached during the process of Offer and Acceptance, the outcome of such agreement shall be recorded here and the final draft of the contract documents shall be revised to incorporate the effect of it.

No.	Subject	Details
1		

By the duly authorised representatives signing this Schedule of Deviations below, the Employer and the tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the Offer agreed by the tenderer and the Employer during this process of Offer and Acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Form shall have any meaning or effect in the contract between the parties arising from this Agreement.

	For the tenderer:	For the Employer
Signature		
Name		
Capacity		Eskom Holdings SOC Ltd Hendrina Power Station 1 Impala Street Pullenshope 1096
On behalf of		
Name & signature of witness		
Date		

C1.2 TSC3 Contract Data

Part one - Data provided by the Employer

Clause	Statement	Data		
1	General			
	The conditions of contract are the core clauses and the clauses for main Option:			
		A:	Priced contract with price list	
	dispute resolution Option	W1:	Dispute resolution procedure	
	and secondary Options			
		X1:	Price adjustment for inflation	
		X2	Changes in the law	
		X17:	Low service damages	
		X18:	Limitation of liability	
		X19:	Task Order	
		Z:	Additional conditions of contract	
	of the NEC3 Term Service Contract April 2013 ¹ (TSC3)			
10.1	The Employer is (name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state-owned company incorporated in terms of the company laws of the Republic of South Africa		
	Address	Regis Drive,	tered office at Megawatt Park, Maxwell Sandton, Johannesburg	
	Tel No.			
	Fax No.			

¹ Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902 www.ecs.co.za

10.1	The Service Manager is (name):	Mr Sibusiso Khawula
	Address	Hendrina Power station Private Bag X1003 Pullenshope 1096
	Tel	+27 31 710 5356
	e-mail	khawulsc@eskom.co.za
11.2(2)	The Affected Property is	Hendrina Power Station
11.2(13)	The service is	UG40 Actuators Supply and Refurbishment
11.2(14)	The following matters will be included in the Risk Register	Unprotected strike
		Non-compliance to contract terms and conditions
		Any other matter posing a risk to the contract will be discussed among the Parties and agreed upon before inserted on the Risk Register
11.2(15)	The Service Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.
12.2	The law of the contract is the law of	the Republic of South Africa
13.1	The language of this contract is	English
13.3	The period for reply is	2 Working days
2	The Contractor's main responsibilities	Data required by this section of the core clauses is also provided by the <i>Contractor</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data
21.1	The Contractor submits a first plan for acceptance within	2 working days of the Contract Date or 2 working days after task order issued
3	Time	
30.1	The starting date is.	
30.1	The service period is	60 months/5 years
4	Testing and defects	The testing will be done according to the scope of work on Employer's Service Information
5	Payment	
50.1	The assessment interval is	Monthly on the last working day of each month
51.1	The currency of this contract is the	South African Rand
51.2	The period within which payments are made is	For contracts valued below R50 000 000 (Fifty Million Rand) including VAT, Eskom is committed to paying Suppliers within 30 days of

		receipt of undisputed invoices
51.4	The interest rate is	the publicly quoted prime rate of interest (calculated on a 365 day year) charged by from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and
		(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter (and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.
6	Compensation events	As per NEC 3 clause 60
7	Use of Equipment Plant and Materials	No data is required for this section of the conditions of contract.
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	Required emergency service due to operational needs
9	Termination	90.2 The contractor may terminate only for a reason identified in the termination table. The employer may terminate for any reason. The procedures followed and the amounts due on termination are in accordance with the termination table.
10	Data for main Option clause	
Α	Priced contract with price list	
20.5	The Contractor prepares forecasts of the final total of the Prices for the whole of the service at intervals no longer than	2 days after being notified
11	Data for Option W1	
W1.1	The Adjudicator	the person selected from the ICE-SA Division

		Institution Adjudicate dispute to Parties of Adjudicate	on of Civil Engine ators by the Party to him. (see <u>www</u> do not agree on a	r intending to refer a r.ice-sa.org.za). If the n Adjudicator the nted by the Arbitration
	Address			
	Tel No.			
	Fax No.			
	e-mail			
W1.2(3)	The Adjudicator nominating body is:	South A	frican Institution (Institution of Civi	joint Division of the of Civil Engineering I Engineers (London) or its successor body.
W1.4(2)	The tribunal is:	arbitratio	on	
W1.4(5)	The arbitration procedure is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.		The Association of
	The place where arbitration is to be held is	[•] Souti	h Africa	
	The person or organisation who will choose an arbitrator - if the Parties cannot agree a choice or - if the arbitration procedure does not state who selects an arbitrator, is	of the As		being or his nominee itrators (Southern ody.
12	Data for secondary Option clauses			
X1	Price adjustment for inflation			
X1.1	The base date for indices is		nth prior to tende ful negotiation da	
	The proportions used to calculate the Price Adjustment Factor are:	proport ion	linked to index for	Index prepared by
		20%	C3 (Hourly paid employees)	Seifsa
		15%	L2(B) Transport	Seifsa
		30%	G1-Mechanical Spares	Seifsa
		20%	U(A)(1)	Seifsa

		15%	non-adjustable	
		1.00		
X2	Changes in the law	The law	The law of the Republic of South Africa	
X17	Low service damages			
X17.1	The service level table is in	See Ann	nexure A	
X18	Limitation of liability			
X18.1	The Contractor's liability to the Employer for indirect or consequential loss is limited to	R0.0 (ze	ro Rand)	
X18.2	For any one event, the <i>Contractor</i> 's liability to the <i>Employer</i> for loss of or damage to the <i>Employer</i> 's property is limited to	the amo event	the amount of the deductibles relevant to the event	
X18.3	The Contractor's liability for Defects due to his design of an item of Equipment is limited to	 the total of the Prices at the Contract Date and the amounts excluded and unrecoverable from the Employer's insurance (other than the resulting physical damage to the Employer's property which is not excluded plus the applicable deductibles 		d and unrecoverable nsurance (other than damage to the which is not excluded)
X18.4	The Contractor's total liability to the Employer, for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	The Corexclude The add for whice contract Defense before the Mate deat	d matters is not lift itional excluded in the Contractor in the Co	ers. pility for the additional mited. matters are amounts is liable under this sign, plan and acture and fabrication Property, property (other than rty, Plant and
X18.5	The end of liability date is	24 mont	hs after the end o	f the service period.
X19	Task Order			
X19.5	The Contractor submits a Task Order programme to the Service Manager within		ng days after rece reed between the	ipt of the Task Order parties

Z		The additional conditions of contract are	Z1 to Z14 always apply.			
Z 1		Cession delegation and assignment				
	Z1.1	The Contractor does not cede, delegate or without the written consent of the Employer.	e Contractor does not cede, delegate or assign any of its rights or obligations to any person hout the written consent of the Employer.			
	Z1.2	delegate its rights and obligations under this	the above, the <i>Employer</i> may on written notice to the <i>Contractor</i> cede and ts and obligations under this contract to any of its subsidiaries or any of its sor operations which may be converted into separate legal entities as a result ing of the Electricity Supply Industry.			
Z2		Joint ventures				
						
	Z2.1		consortium or other unincorporated grouping of two expersons or organisations are deemed to be jointly performance of this contract.			
	Z2.2	Unless already notified to the <i>Employer</i> , the <i>Manager</i> within two weeks of the Contract E the <i>Contractor</i> on their behalf.	persons or organisations notify the Service Date of the key person who has the authority to bind			
	Z2.3	The Contractor does not alter the composition unincorporated grouping of two or more perspectations of the Contractor in writing.	on of the joint venture, consortium or other sons without the consent of the <i>Employer</i> having			
Z 3		Change of Broad Based Black Economic	Empowerment (B-BBEE) status			
	Z3.1		atus, ownership or any other change to his business a change to the <i>Contractor's</i> B-BBEE status, the en days of the change.			
	Z3.2		ange in his B-BBEE status to the Service Manager			
	Z3.3		E status has decreased since the Contract Date the act or alternatively, terminate the <i>Contractor's</i>			
	Z3.4	Failure by the <i>Contractor</i> to notify the <i>Employer</i> of a change in its B-BBEE status may constitute a reason for termination. If the <i>Employer</i> terminates in terms of this clause, the procedures on termination are P1, P2 and P4 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.				
Z 4		Confidentiality				
	Z4.1	The <i>Contractor</i> does not disclose or make any information arising from or in connection with this contract available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the <i>Contractor</i> , enters the public domain or to information which was already in the possession of the <i>Contractor</i> at the time of disclosure (evidenced by written records in existence at that time). Should the <i>Contractor</i> disclose information to Others in terms of clause 25.1, the <i>Contractor</i> ensures that the provisions of this clause are complied with by the recipient.				

24.2 If the Contractor is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the Service Manager. 24.3 In the event that the Contractor is, at any time, required by law to disclose any such information which is required to be kept confidential, the Contractor, to the extent permitted by law prior to disclosure, notifies the Employer so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the Contractor may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed. 24.4 The taking of images (whether protographs, video footage or otherwise) of the Affected Property or any portion thereof, in the course of Providing the Service and after the end of the service period, requires the prior written consent of the Service Manager. All rights in and to all such images vests exclusively in the Employer. 24.5 The Contractor ensures that all his subcontractors abide by the undertakings in this clause. 25. Waiver and estoppel: Add to core clause 12.3: 26. Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the Service Manager or the Adjudicator does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing. 26. Health, safety and the environment: Add to core clause 27.4 27. The Contractor undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the service. Without limitation the Contractor escepts that the Employer may appoint him as the Principal Contractor' (as defined and provided for under the Employer may appoint him as the Principal Contractor' (as defined and p			
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Property or any portion thereof, in the course of Providing the Service and after the end of the service period, requires the prior written consent of the Service Manager. All rights in and to all such images vests exclusively in the Employer. Z4.5 The Contractor ensures that all his subcontractors abide by the undertakings in this clause. Z5.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the Service Manager or the Adjudicator does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing. Z6.1 The Contractor undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the service. Without limitation the Contractor. 26.1 accepts that the Employer may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property; 27. warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety laws and regulations and who the execution of the service, to comply with the Construction Regulations and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. 26.2 The Contractor, in and about the execution of the service, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractor's direction and control, lik		Z4.3	which is required to be kept confidential, the <i>Contractor</i> , to the extent permitted by law prior to disclosure, notifies the <i>Employer</i> so that an appropriate protection order and/or any other action can be taken if possible, prior to any disclosure. In the event that such protective order is not, or cannot, be obtained, then the <i>Contractor</i> may disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that
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The Contractor undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the service. Without limitation the Contractor. • accepts that the Employer may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property; • warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of the service; and • undertakes, in and about the execution of the service, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z6.2 The Contractor, in and about the execution of the service, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z7.1 Within one week of receiving a payment certificate from the Service Manager in terms of core clause 51.1, the Contractor provides the Employer with a tax invoice in accordance with the Employer's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.		Z5.1	Parties, the Service Manager or the Adjudicator does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in
The Contractor undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the execution of the service. Without limitation the Contractor. • accepts that the Employer may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property; • warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of the service; and • undertakes, in and about the execution of the service, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z6.2 The Contractor, in and about the execution of the service, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z7.1 Within one week of receiving a payment certificate from the Service Manager in terms of core clause 51.1, the Contractor provides the Employer with a tax invoice in accordance with the Employer's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.	70		Hardy artists and the continuous of Addisonant Section 27.4
of persons in and about the execution of the service. Without limitation the Contractor: accepts that the Employer may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property; warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of the service; and undertakes, in and about the execution of the service, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z6.2 The Contractor, in and about the execution of the service, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control, likewise observe and comply with the foregoing. Z7.1 Within one week of receiving a payment certificate from the Service Manager in terms of core clause 51.1, the Contractor provides the Employer with a tax invoice in accordance with the Employer's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.	26		
environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the <i>Contractor's</i> direction and control, likewise observe and comply with the foregoing. 27 Provision of a Tax Invoice and interest. Add to core clause 51 27.1 Within one week of receiving a payment certificate from the <i>Service Manager</i> in terms of core clause 51.1, the <i>Contractor</i> provides the <i>Employer</i> with a tax invoice in accordance with the <i>Employer's</i> procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.		Z6.1	 of persons in and about the execution of the service. Without limitation the Contractor: accepts that the Employer may appoint him as the "Principal Contractor" (as defined and provided for under the Construction Regulations 2014 (promulgated under the Occupational Health & Safety Act 85 of 1993) ("the Construction Regulations") for the Affected Property; warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this contract and generally for the proper maintenance of health & safety in and about the execution of the service; and undertakes, in and about the execution of the service, to comply with the Construction Regulations and with all applicable health & safety laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the Contractor's direction and control,
Z7.1 Within one week of receiving a payment certificate from the <i>Service Manager</i> in terms of core clause 51.1, the <i>Contractor</i> provides the <i>Employer</i> with a tax invoice in accordance with the <i>Employer</i> 's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.		Z6.2	environmental laws and regulations and rules, guidelines and procedures otherwise provided for under this contract and ensures that his Subcontractors, employees and others under the
Z7.1 Within one week of receiving a payment certificate from the <i>Service Manager</i> in terms of core clause 51.1, the <i>Contractor</i> provides the <i>Employer</i> with a tax invoice in accordance with the <i>Employer</i> 's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.	77		Provision of a Tax Invoice and interest. Add to core clause 51
clause 51.1, the <i>Contractor</i> provides the <i>Employer</i> with a tax invoice in accordance with the <i>Employer</i> 's procedures stated in the Service Information, showing the amount due for payment equal to that stated in the payment certificate.		77 1	
Z7.2 If the Contractor does not provide a tax invoice in the form and by the time required by this		//1	Within one week of receiving a payment certificate from the S <i>ervice Manager</i> in terms of core
		27.1	clause 51.1, the <i>Contractor</i> provides the <i>Employer</i> with a tax invoice in accordance with the <i>Employer</i> 's procedures stated in the Service Information, showing the amount due for payment

	time t	act, the time by when the <i>Employer</i> is to make a payment is extended by a period equal into the delayed submission of the correct tax invoice. Interest due by the <i>Employer</i> in termore clause 51.2 is then calculated from the delayed date by when payment is to be made.	
Z7.3	comp	Contractor (if registered in South Africa in terms of the companies Act) is required to ly with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to de the Employer's VAT number 4740101508 on each invoice he submits for payment.	1
Z8	Notif	ying compensation events	
Z8.1	Delet	e the last paragraph of core clause 61.3 and replace with:	
		Contractor does not notify a compensation event within eight weeks of becoming aware ovent, he is not entitled to a change in the Prices.	of
Z9	Emp	loyer's limitation of liability	
Z9.1		Employer's liability to the Contractor for the Contractor's indirect or consequential loss is d to R0.00 (zero Rand)	
Z9.2	Empl	Contractor's entitlement under the indemnity in 82.1 is provided for in 60.1(12) and the oyer's liability under the indemnity is limited to compensation as provided for in core e 63 and X19.11 if Option X19 Task Order applies to this contract.	
Z 10		ination: Add to core clause 91.1, at the second main bullet point, fourth sub-bullet , after the words "against it":	
Z10.1	or h	nad a business rescue order granted against it.	
Z11	Ethics		
For the pur	poses	of this Z-clause, the following definitions apply:	
Affected F	arty	means, as the context requires, any party, irrespective of whether it is the <i>Contractor</i> or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,	
Coercive Action		means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,	
Collusive Action		means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,	
Committir Party	ng	means, as the context requires, the <i>Contractor</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,	
Corrupt A	means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,		
Fraudulen Action	t	means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,	
Obstructiv	/e	means a Committing Party unlawfully or illegally destroying, falsifying, altering or	

Action		concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
Prohibite Action	d	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.
Z11.1		mitting Party may not take any Prohibited Action during the course of the procurement contract or in execution thereof.
Z11.2	Commi approp remedi found g	inployer may terminate the Contractor's obligation to Provide the Services if a sitting Party has taken such Prohibited Action and the Contractor did not take timely and riate action to prevent or remedy the situation, without limiting any other rights or es the Employer has. It is not required that the Committing Party had to have been guilty, in court or in any other similar process, of such Prohibited Action before the ver can terminate the Contractor's obligation to Provide the Services for this reason.
Z11.3		Employer terminates the Contractor's obligation to Provide the Services for this reason, ounts due on termination are those intended in core clauses 92.1 and 92.2.
Z11.4	Action.	mitting Party co-operates fully with any investigation pursuant to alleged Prohibited Where the <i>Employer</i> does not have a contractual bond with the Committing Party, the <i>ctor</i> ensures that the Committing Party co-operates fully with an investigation.

Z12 Insurance

Z_12_.1 Replace core clause 83 with the following:

Insurance cover 83

- When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 83.2 The *Contractor* provides the insurances stated in the Insurance Table A from the *starting date* until the earlier of Completion and the date of the termination certificate.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage caused by the Contractor to the Employer's property	The replacement cost where not covered by the <i>Employer</i> 's insurance.
	The <i>Employer</i> 's policy deductible as at Contract Date, where covered by the <i>Employer</i> 's insurance.
Loss of or damage to Plant and Materials	The replacement cost where not covered by the Employer's insurance.
	The <i>Employer</i> 's policy deductible as at Contract Date, where covered by the <i>Employer</i> 's insurance.
Loss of or damage to Equipment	The replacement cost where not covered by the Employer's insurance.
	The <i>Employer</i> 's policy deductible as at Contract Date, where covered by the <i>Employer</i> 's insurance.

The Contractor's liability for loss of or damage to property (except the Employer's property, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the Contractor) arising from or in connection with the Contractor's Providing the Service	Loss of or damage to property The replacement cost Bodily injury to or death of a person The amount required by the applicable law.
Liability for death of or bodily injury to employees of the Contractor arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

Z 12.2 Replace core clause 86 with the following:

Insurance by the *Employer*

86

86.1 The *Employer* provides the insurances stated in the Insurance Table B

INSURANCE TABLE B

Insurance against or name of policy	Minimum amount of cover or minimum lir of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

Z13 Nuclear Liability

- Z13.1 The *Employer* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa and is the holder of a nuclear licence in respect of the KNPS.
- Z13.2 The *Employer* is solely responsible for and indemnifies the *Contractor* or any other person against any and all liabilities which the *Contractor* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Contractor* or any other person or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.3 Subject to clause Z13.4 below, the *Employer* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Contractor* or any other person, or the presence of the *Contractor* or that person or any property of the *Contractor* or such person at or in the KNPS or on the KNPS site, without the permission of the *Employer* or of a person acting on behalf of the *Employer*.
- Z13.4 The *Employer* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.
- Z13.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z14 Asbestos

For the purposes of this Z-clause, the following definitions apply:

AAIA means approved asbestos inspection authority.

ACM means asbestos containing materials.

AL means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres

per ml of air measured over a 4 hour period. The value at which proactive actions is

required in order to control asbestos exposure to prevent exceeding the OEL.

Ambient Air means breathable air in area of work with specific reference to breathing zone, which

is defined to be a virtual area within a radius of approximately 30cm from the nose

inlet.

Compliance Monitoring means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements

for safe processing, handling, storing, disposal and phase-out of asbestos and

asbestos containing material, equipment and articles.

OEL means occupational exposure limit.

Parallel Measurements means measurements performed in parallel, yet separately, to existing measurements

to verify validity of results.

Safe Levels means airborne asbestos exposure levels conforming to the Standard's requirements

for safe processing, handling, storing, disposal and phase-out of asbestos and

asbestos containing material, equipment and articles.

Standard means the *Employer*'s Asbestos Standard 32-303: Requirements for Safe Processing,

Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing

Material, Equipment and Articles.

ESKOM HOLDINGS SOC Ltd

CONTRACT NO. ___

UG40 Actuators Supply and Refurbishment

SANAS means the South African National Accreditation System.

TWA means the average exposure, within a given workplace, to airborne asbestos fibres,

normalised to the baseline of a 4-hour continuous period, also applicable to short term

exposures, i.e. 10-minute TWA.

- Z14.1 The Employer ensures that the Ambient Air in the area where the Contractor will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short-term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.
- Z14.2 Upon written request by the Contractor, the Employer certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The Contractor may perform Parallel Measurements and related control measures at the Contractor's expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z14.1. Control measures conform to the requirements stipulated in the AAIAapproved asbestos work plan.
- Z14.3 The Employer manages asbestos and ACM according to the Standard.
- Z14.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.
- Z14.5 The Contractor's personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
- Z14.6 The Contractor continues to Provide the Services, without additional control measures presented. on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations, 2001.
- Z14.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the Employer at the Employer's expense, and conducted in line with South African legislation.

Annexure A: Table of low service damages (X17)

Low service damage description	Value of Low service damages	Limit of Low service damage
The Contractor responds within two days when the refurbishment of an actuator is requested	The Contractor responds three or more days later that the agreed time – 5% will be deducted from the total amount on the Task Order.	Limited to 10% of the Task Order value
The Contractor provides high quality service always.	The Contractor does not meet the quality requirements as stipulated on the contract – 5% will be deducted from the total amount on the Task Order.	Limited to 10% of the Task Order value

C1.2 Contract Data

Part two - Data provided by the Contractor

[Instructions to the contract compiler: (delete this notes before issue to tenderers with an enquiry) Whenever a cell is shaded in the left hand column it denotes this data is optional and would be required in relation to the option selected. In the event that the option is not required select and delete the whole row.]

Notes to a tendering contractor:

- 1. Please read both the both the NEC3 Term Service Contract April 2013 and the relevant parts of its Guidance Notes (TSC3-GN)¹ in order to understand the implications of this Data which the tenderer is required to complete.
- 2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data.
- 3. Where a form field like this [] appears, data is required to be inserted relevant to the option selected. Click on the form field *once* and type in the data. Otherwise complete by hand and in ink.

Completion of the data in full, according to Options chosen, is essential to create a complete contract.

Clause	Statement	Data
10.1	The Contractor is (Name):	
	Address	
	Tel No.	
	Fax No.	
11.2(8)	The direct fee percentage is	%
	The subcontracted fee percentage is	%
11.2(14)	The following matters will be included in the Risk Register	
11.2(15)	The Service Information for the Contractor's plan is in:	
21.1	The plan identified in the Contract Data is contained in:	
24.1	The key people are:	
	1 Name:	
	Job:	
	Responsibilities:	
	Qualifications:	
	Experience:	
	2 Name:	
	Job	

¹ Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 5391902 or www.ecs.co.za

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	Responsibilities:	
	Qualifications:	
	Experience:	
		CV's (and further key person's data including CVs) are in.
Α	Priced contract with price list	
11.2(12)	The price list is in	Part C2.2
11.2(19)	The tendered total of the Prices is	R
С	Target contract with price list	
11.2(12)	The <i>price list</i> is in	
11.2(20)	The tendered total of the Prices is	R
E	Cost reimbursable contract	
11.2(12)	The price list is in	

PART 2: PRICING DATA

TSC3 Option A

Document reference		Title	No of pages
C	2.1	Pricing assumptions: Option A	2
C	2.2	The price list	1

C2.1 Pricing assumptions: Option A

1. How work is priced and assessed for payment

Clause 11 in NEC3 Term Service Contract (TSC3) core clauses and Option A states:

Identified and 11 defined terms 11.2

- (12) The Price List is the *price list* unless later changed in accordance with this contract.
- (17) The Price for Services Provided to Date is the total of
- the Price for each lump sum item in the Price List which the Contractor has completed and
- where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the *Contractor* has completed by the rate.
- (19) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate.

This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

2. Function of the Price List

Clause 54.1 in Option A states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List. The Price List is only a pricing document.

3. Link to the Contractor's plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the *price list* and result in a satisfactory cash flow in terms of clause 11.2(17).

4. Preparing the price list

Before preparing the *price list*, both the *Employer* and tendering contractors should read the TSC3 Guidance Notes pages 14 and 15. In an Option A contract, either Party may have entered items into the *price list* either as a process of offer and acceptance (tendering) or by negotiation depending on the nature of the *service* to be provided. Alternatively the *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in the *price list* to be prepared and priced by him.

It is assumed that in preparing or finalising the *price list* the *Contractor:*

- Has taken account of the guidance given in the TSC3 Guidance Notes relevant to Option A;
- Understands the function of the Price List and how work is priced and paid for;
- Is aware of the need to link operations shown in his plan to items shown in the Price List;
- Has listed and priced items in the *price list* which are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
- Has priced work he decides not to show as a separate item within the Prices or rates of other listed items in order to fulfil the obligation to complete the service for the tendered total of the Prices.
- Understands there is no adjustment to items priced as lump sums if the amount, or quantity, of
 work within that item later turns out to be different to that which the *Contractor* estimated at time of
 tender. The only basis for a change to the (lump sum) Prices is as a result of a compensation
 event.

4.1. Format of the price list

(From the example given in an Appendix within the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

C2.2 the price list

New actuators

Item nr	Description	Unit	Expected Quantity	Rate	Price
1	ACTUATOR, HYDRAULIC: TYPE: HP TURBINE; RATING: 50 PSI; TRAVEL: 38 DEG; OPERATED: ELECTROHYDRAULIC; MANUF P/N: 8251-736; 8251-327; THE UG 40 ACTUATOR HAS ITS OWN 7.0 LITER OIL SUMP AND DOES NOT NEED A SEPARATE OIL SUPPLY; THE ACTUATOR WILL OPERATE WITH A DRIVE SPEED FROM 350- 1300 RPM; THE ACTUATOR PROVIDES THE MUSCLES OF WOODWARD ANALOG CONTROLS SUCH AS 2301 A; AS WELL AS WOODWARD DIGITAL CONTROL; PUMP GENERATOR LOW SPEED 350- 1000 RPM; RELIEVE VALVE SET AT 1725 KPA; THE U 640 ACTUATOR PRODUCY 85 N.M OF WORK OVER 38 DEGREES OF ROTARY OUTPUT; WORK OUTPUT AND STALLED TORGUE ARE THE SAME AS THE U 640 GOVERNOR; STALLED TORGUE IS 129 N.M; THE ELECTRIC TO HYDRAWLIC TRANSDUCER IS THE UG 40 ACTUATOR USES A WOODWARD BUILT TORGUE MOTOR WHICH CONVERTS 20- 160 MA ELECTRICAL CONNECTOR IS 3 PIN; COIL RESISTANCE 23- 26 OMS AT 20 DEGREE C; CALIBRATION 1-2 DEGREES AT 20MA; 32+ 2 DEGREES ADDITIONAL TR	EA	6		

TURBINE; RATING: 50 PSI; TRAVEL: 38 DEG; OPERATED: ELECTROHYDRAULIC; MANUF P/N: 8251-736; 8251-327; THE UG 40 ACTUATOR HAS ITS OWN 7.0 LITER OIL SUMP AND DOES NOT NEED A SEPARATE OIL SUPPLY; THE ACTUATOR WILL OPERATE WITH A DRIVE SPEED FROM 350- 1300 RPM; THE ACTUATOR PROVIDES THE MUSCLES OF WOODWARD ANALOG CONTROLS SUCH AS 2301 A; AS WELL AS WOODWARD DIGITAL CONTROL; PUMP GENERATOR LOW SPEED 350- 1000 RPM; RELIEVE VALVE SET AT 1725 KPA; THE U 640 ACTUATOR PRODUCY 85 N.M OF WORK OVER 38 DEGREES OF ROTARY OUTPUT; WORK OUTPUT AND STALLED TORGUE ARE THE SAME AS THE U 640 GOVERNOR; STALLED TORGUE IS 129 N.M; THE ELECTRIC TO HYDRAWLIC TRANSDUCER IS THE UG 40 ACTUATOR USES A WOODWARD BUILT TORGUE MOTOR WHICH CONVERTS 20- 160 MA ELECTRICAL CONNECTOR IS 3 PIN; COIL RESISTANCE 23- 26 OMS AT 20 DEGREE C; CALIBRATION 1-2 DEGREES AT 20MA; 32+ 2 DEGREES ADDITIONAL TR	TURBINE; RATING: 50 PSI; TRAVEL: 38 DEG; OPERATED: ELECTROHYDRAULIC; MANUF P/N: 8251-736; 8251-327; THE UG 40 ACTUATOR HAS ITS OWN 7.0 LITER OIL SUMP AND DOES NOT NEED A SEPARATE OIL SUPPLY; THE ACTUATOR WILL OPERATE WITH A DRIVE SPEED FROM 350- 1300 RPM; THE ACTUATOR PROVIDES THE MUSCLES OF WOODWARD ANALOG CONTROLS SUCH AS 2301 A; AS WELL AS WOODWARD DIGITAL CONTROL; PUMP GENERATOR LOW SPEED 350- 1000 RPM; RELIEVE VALVE SET AT 1725 KPA; THE U 640 ACTUATOR PRODUCY 85 N.M OF WORK OVER 38 DEGREES OF ROTARY OUTPUT; WORK OUTPUT AND STALLED TORGUE ARE THE SAME AS THE U 640 GOVERNOR; STALLED TORGUE IS 129 N.M; THE ELECTRIC TO HYDRAWLIC TRANSDUCER IS THE UG 40 ACTUATOR USES A WOODWARD BUILT TORGUE MOTOR WHICH CONVERTS 20- 160 MA ELECTRICAL CONNECTOR IS 3 PIN; COIL RESISTANCE 23- 26 OMS AT 20 DEGREE C; CALIBRATION 1-2 DEGREES AT 20MA; 32+ 2 DEGREES ADDITIONAL TR	ltem nr	Description	Unit	Expected Quantity	Rate	Price
			TURBINE; RATING: 50 PSI; TRAVEL: 38 DEG; OPERATED: ELECTROHYDRAULIC; MANUF P/N: 8251-736; 8251-327; THE UG 40 ACTUATOR HAS ITS OWN 7.0 LITER OIL SUMP AND DOES NOT NEED A SEPARATE OIL SUPPLY; THE ACTUATOR WILL OPERATE WITH A DRIVE SPEED FROM 350- 1300 RPM; THE ACTUATOR PROVIDES THE MUSCLES OF WOODWARD ANALOG CONTROLS SUCH AS 2301 A; AS WELL AS WOODWARD DIGITAL CONTROL; PUMP GENERATOR LOW SPEED 350- 1000 RPM; RELIEVE VALVE SET AT 1725 KPA; THE U 640 ACTUATOR PRODUCY 85 N.M OF WORK OVER 38 DEGREES OF ROTARY OUTPUT; WORK OUTPUT AND STALLED TORGUE ARE THE SAME AS THE U 640 GOVERNOR; STALLED TORGUE IS 129 N.M; THE ELECTRIC TO HYDRAWLIC TRANSDUCER IS THE UG 40 ACTUATOR USES A WOODWARD BUILT TORGUE MOTOR WHICH CONVERTS 20- 160 MA ELECTRICAL CONNECTOR IS 3 PIN; COIL RESISTANCE 23- 26 OMS AT 20 DEGREE C; CALIBRATION 1-2 DEGREES AT 20MA; 32+ 2 DEGREES ADDITIONAL TR				
Transportation to and from Trip 96	Transportation to and from Trip 96	2	Strip and assess actuator	EA	48		
			Transportation to and from	Trip	96		

The total of the Prices	

PART 3: SCOPE OF WORK

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C3.2	Contractor's Service Information	
	Total number of pages	

C3.1: EMPLOYER'S SERVICE INFORMATION

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ESKOM HOLDINGS SOC Ltd UG40 ACTUATORS SUPPLY AND REFURBISHMENT

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1 Description of the service

1.1 Executive overview

The scope comprises of, but not limited to, the supply, refurbishment, and delivery of all required UG40 actuator spares for the turbine plant. All spares supplied must be accompanied by quality control documentation.

1.2 Employer's requirements for the service

NB: Representatives from the client (Hendrina Power Station) to be present for QIP during the inspection, refurbishment, and final testing. This is also applicable during the supply of new Actuators.

1. Site

Remove the actuator from the plant.

Fill the report below:

Part number Date installed in the plant Date removed Duration in operation failure.
plant overhaul Date removed Duration in operation
Duration in operation
failure.

Contractor workshop

2. Inspection

- 1. Receive actuator from the client indicating if failed prematurely or due for service.
- 2. Conduct as received inspection.
- 3. If failed prematurely, set up in a test bench to confirm the malfunction. Measure the pump discharge pressure, oil temperature, reaction as per section 4 -performance test
- 4. Drain the oil.
- 5. Disassemble the actuator.
- 6. Inspect visually and dimensionally and record the conditions of all parts.
- 7. Clean all components and visually inspect.
- 8. Issue a report of findings and a repair scope and QCP to the client for review and approval.

3. Refurbishment

- 1. Remove the grub screw on the pilot piston and shaft and remove any dirt inside.
- 2. Remove all grub screws from the internal block and clean all cavities.
- 3. Soak all the components to be reused overnight in benzene.
- 4. Clean all the soaked components. Note: no component to be reused should have traces of dirt or debris. Eskom representatives to inspect all components for cleanliness.
- 5. Conduct the repairs as per client-approved scope and QCP

4. Performance test

Conduct performance tests and record the results as per the Woodward test specification TSP10249 using the same oil Hendrina use, 15W40. The actuator must close when the communication cable is unplugged on all test conditions.

Note: If the actuator failed, representative/s from the client to witness the testing activities:

Condition 1:

- 1. The oil temperature must be at room temperature (15°C to 25°C).
- 2. With a shaft speed of 40 rpm actuator must be capable of producing 20N.m.
- 3. Carry out the tests as per test specification while the oil is still cold. This is to simulate starting the unit while the oil is cold.
- 4. Include/note the following: a. Measure the pump discharge pressure. **Note: if the pump discharge pressure is below specification, replace the pump.**
- b. The torque must be measured using clicking and/or dial indicator torque wrench with Ft-Lb and Nm scales.

Condition 2:

- 1. The oil temperature must be hot as per procedure (65°C to 76°C).
- 2. With a shaft speed of 40 rpm actuator must be capable of producing 126N.m.
- 3. Carry out the tests as per test specification.
- 4. Include/note the following: a. Measure the pump discharge pressure. **Note: if the pump discharge** pressure is below specification, replace the pump with new and repeat the performance test.
- b. The torque must be measured using a clicking and/or dial indicator torque wrench with Ft-Lb and Nm scales.

5. Dispatch

- 1. Prepare the actuator for despatch.
- 2. Fit into the transport cradle.
- 3. Despatch to site with all documentation generated in the whole process.

Documentation

- 1. As received visual and strip down inspection report.
- 2. Dimensional inspection report.
- 3. Reassembly report.
- 4. Test report.

Part No:				Date				
Serial No:		Client		Eskom - Hendrina Power Station				
1. As received	tests res	ults						
Input shaft speed (rpm)	Input (mA)	signal	Output shaft angle (°)	Oil temperature (°C)	Pump discha pressu (Kpa)		Torque (NM)	
40		90		-			Cold	
225								
500		90		-		Cold		
750		90		-		Cold		
40		90		-		Hot		
225								
500		90		-		Hot		
750		90		-		Hot		
900	900 0 - 200			-		-		
900	900 20			-		-		
900		160		-		-		
900		90		-		-		
2. Test findings	6							

3. Dirty internal inspection.				
	4. Clean internal inspection.			
Item	Comment			
Oil				
Pump drive shaft				
Pump inner gear				
Pump outer gear				
Shaft ball bearing				
Shaft needle roller bearings				
Shaft double lipped seal				
Filter				
Pilot valve cage				
Pilot valve plunger				
Power piston				
Relief valve				
Pressure reducing valve				

1. Refurbishment				
Item	Comment			
Oil				

Pump drive shaft	
Pump inner gear	
Pump outer gear	
Shaft ball bearing	
shaft needle roller bearings	
Shaft double lipped seal	
Filter	
Pilot valve cage	
Pilot valve plunger	
Power piston	
Relief valve	
Pressure reducing valve	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

2. As refurbished tests results

Input shaft speed (rpm)	Input (mA)	signal	Output shaft angle (°)	Oil temperature (°C)	Pump discha pressu (Kpa)		Torque (NM)
40		90		-		Cold	
600		90		-		Cold	
750		90				Cold	
40		90		-		Hot	
600		90		-		Hot	
750		90		-		Hot	
900		0 - 200		-		ı	
900		20		-		ı	
900		160		-		•	
900		90		-		•	
Test findings							

SUPPLY OF NEW UG40 ACTUATOR

1 OEM premises

Supply 6 new UG40 Actuators to Hendrina Part number: B8251-319

NB: Representatives from the client (Hendrina Power Station) to be present on the OEM premises during the assembly and final testing.

UG40 Actuator Specification

Control Qualities

Hysteresis Within 3% of maximum travel when measured over full 38-degree travel. Within 0.5% of maximum travel when measured over 4% of full travel at 1 Hz. Temperature Drift Nominally ±1 degree per 38 °C (100 °F). Time Constant 160 to 190 ms for 50 mA step with 1725 kPa (250 psi) actuator oil pressure. Linearity Within 2.5% of full 38-degree output travel. Work Output 129 Nm (95 lb-ft) stalled torque; 85 J (63 ft-lb) of workover 38 degrees. The UG40 Actuator operates with 1725 kPa (250 psi) internal hydraulic pressure. Pump Gerotor. Relief valve set at 1725 kPa (250 psi). Output Shaft (2) 0.750-48 inch serrated. In same location relative to drive as UG40 governor. Drive Shaft 1.125-48 serration is standard. 0.625 keyed drive shaft with 0.625-18 threads available. Weight 29 kg (64 lb), dry weight Vibration Resistance Vibration tested to US MIL-STD 810C, Curve H (10 G to 2000 Hz; in Y-axis, parallel to drive shaft, 8 G maximum).

Drive/Hydraulic Specifications

Drive Speed and Rotation Actuator available with either high or low speed pump. High speed pump: 600 to 1300 rpm. Low speed pump: 350 to 1000 rpm. Drive operates in one direction only. Drive Power Requirement Drive will use a maximum of 525 W (0.7 hp) Hydraulic Supply Self-contained sump, 7.0 liter (7.4 quart) capacity. Ambient Temperature Range –29 to +93 °C (–20 to +200 °F) Operating Temperature – 29 to +93 °C (–20 to +200 °F) within the limits of the oil being used in the governor.

Electrical Specifications

Electrical Connector 3 pin, MIL-STD 3102E-14S-7P, located in cover Coil Resistance 23–26 A at 20 °C Calibration 1–2 degrees at 20 mA, 32 ±2 degrees additional travel from 20 mA to 160 mA. Reaches maximum fuel at less than 200 mA.

1.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
ISO	International Organization of Standardization
QCP/QIP	Quality Control Plan / Quality Inspection Plan
PS	Power Station
SANS	South African National Standard
SAP	System Application and Products
SOW	Scope of Work

2 Management strategy and start up.

2.1 The Contractor's plan for the service

The following documentation must be supplied to the Employer's representative before any item is accepted on site:

- · Performance test certificate
- · Warranty of at least 6 months

Other spares not listed in the spares list can and will be required on an as and when basis subject to approval by both the employer and the supplier.

The supplier must have a suitably sized storage facility where a minimum amount of all the spares are to be kept for when the Employer requires them urgently. It is the responsibility of the supplier to ensure the safekeeping of spares, and that the quality of spares is not negatively impacted whilst in storage. The spares must always be available and ready for delivery at the Employer's premises at request.

2.2 Management meetings

Regular meetings of a general nature may be convened and chaired by the Supply Manager as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk register and compensation events	Weekly on at		
Overall contract progress and feedback	Monthly on at		Employer, Contractor and

Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *service*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

2.3 Contractor's management, supervision and key people

2.4 Provision of bonds and guarantees

Not applicable to this contract.

2.5 Documentation control

All contractual communications will be in the form of properly compiled letters or forms attached to e mails and not as a message in the e mail itself.

The routing of all written communications will be between the *Employer* and the Contractor only, any agreements between the Contractor and any other person representing the employer which has not been routed via the Service Manager is null and void.

Any written instruction(s) resulting in any changes to the duration, quality, cost of the service will only be received from the Service Manager. Any verbal Instruction will also be considered null and void.

2.6 Invoicing and payment

Within one week of receiving a payment certificate from the *Service Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice showing the amount due for payment equal to that stated in the *Service Manager*'s payment certificate.

The Contractor shall address the tax invoice to

and include on each invoice the following information:

- Name and address of the Contractor and the Service Manager.
- The contract number and title:
- Contractor's VAT registration number.
- The *Employer*'s VAT registration number 4740101508.
- Description of service provided for each item invoiced based on the Price List.
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT.
- (add other as required)

Add procedures for invoice submission and payment (e. g. electronic payment instructions)

2.7 Contract change management

For any changes on the contract standard, NEC forms must be used which includes but not limited to:

- Task order forms before the Service commencement.
- Assessment forms on completion of a task order.
- Early warning forms when either party warns the other about the foreseen situation.
- Compensation event notification when there is a possibility of additional Service.

2.8 Records of Defined Cost to be kept by the Contractor

The *Contractor* keeps records of all equipment and people employed on site which the Employer has access to at any time in order to access compensation events for the period of this contract.

2.9 Insurance provided by the *Employer*

Refer to the TSC3 Data by Employer Core Clause 83.1

2.10 Training workshops and technology transfer

Not applicable to this contract.

2.11 Design and supply of Equipment

Not applicable to this contract.

2.12 Things provided at the end of the service period for the Employer's use

2.12.1 Equipment

None

2.12.2 Information and other things

Certificate of completion will be submitted at the end of the contract or period of service and is to be signed by both the *Employer* and *Contractor*.

2.13 Management of work done by Task Order

The *Employer* will issue a Task Order as an instruction to commence with the execution the work. No work will be permitted to commence without an issued task order signed by both *Employer* and *Contractor*.

3 Health and safety, the environment and quality assurance

3.1 Health and safety risk management

The *Contractor* complies with all of the applicable procedures as required by the *Employer*, Procedures available from the *Employers* Documentation Centre on request.

3.2 Environmental constraints and management

The *Contractor* adheres to the *Employer's* Environmental Management System that must meet the requirements for the Code of Practice for Environmental Management Systems (EMS), ISO 14001:2004 The EMS requirements are detailed in the latest revision of the following documents, which are available from the *Service Manager* on request, and include:

- The Hendrina Power Station Environmental Policy (HSPPPIN005)
- The Environmental Emergency Preparedness Procedure (HSPPIN032)
- The Prevention & Cleaning of Oil Spills Procedure (HSPPON003)
- The Waste Management Procedure (HSPPIN003)
- The Roles and Responsibilities Procedure (HSPPIN028)
- The EMS Non-Conformance, Corrective and Preventative Action (HSPPIN034)
- The relevant Environmental Management Programmes (EMP's) and Aspects on the
- Environmental Management System (EMS) database this is continually changing and is available from the Employer's Representative
- Compliance to all relevant environmental legislation, as detailed in the latest version of the Hendrina Power Station Legal Register available from the Employers Representative
- All operational procedures that include environmental requirements, relevant to the Services Information or Scope of this contract

If there is uncertainty around any environmental issues, the Employer's Environmental Department may be contacted on (013) 296 3358 or (013) 296 3910 or (013) 296 3013

3.3 Quality assurance requirements

The following documentation must be supplied to the Employer's representative before any item is accepted on site:

- Performance test certificate
- · Warranty of at least 6 months

The *Contractor* complies with the *Employer's* Quality Requirements as specified in Eskom Generation Standard (GGS 0462) and the QM-58.

4 Procurement

4.1 People

4.1.1 Minimum requirements of people employed

4.1.2 BBBEE and preferencing scheme

4.1.3 Accelerated Shared Growth Initiative – South Africa (ASGI-SA)

The *Contractor* complies with and fulfils the *Contractor's* obligations in respect of the Accelerated and Shared Growth Initiative - South Africa in accordance with and as provided for in the *Contractor's* ASGI-SA Compliance Schedule stated below

[Insert the agreed ASGI-SA Compliance Schedule here]

The Contractor shall keep accurate records and provide the Service Manager with reports on the Contractor's actual delivery against the above stated ASGI-SA criteria. [Elaborate on access to and format of records and frequency of submission etc.]

The *Contractor*'s failure to comply with his ASGI-SA obligations constitutes substantial failure on the part of the *Contractor* to comply with his obligations under this contract.

4.2 Subcontracting

4.2.1 Preferred subcontractors

Not applicable to this contract.

4.2.2 Subcontract documentation, and assessment of subcontract tenders

4.2.3 Limitations on subcontracting

4.2.4 Attendance on subcontractors

4.3 Plant and Materials

4.3.1 Specifications

Not applicable to this contract.

4.3.2 Correction of defects

Not applicable to this contract.

4.3.3 Contractor's procurement of Plant and Materials

Not applicable to this contract.

4.3.4 Tests and inspections before delivery

Conduct performance tests and record the results as per the Woodward test specification TSP10249 using the same oil Hendrina use, 15W40. The actuator must close when the communication cable is unplugged on all test conditions.

4.3.5 Plant & Materials provided "free issue" by the Employer

None

4.3.6 Cataloguing requirements by the Contractor

Not applicable to this contract.

5 Working on the Affected Property

Not applicable to this contract.

5.1 *Employer's* site entry and security control, permits, and site regulations

Compulsory induction will be required before gaining access to Hendrina Power Station.

Adherence to cardinal or lifesaving rules and other requirements will be explained during the induction process.

5.2 People restrictions, hours of work, conduct and records

 The Supplier must deliver the components between 08:30 to 15:30 Mondays to Thursdays and 8:30 to 11:30 on Fridays .No deliveries to be done on weekends unless prior arrangements done with the Supplier, Purchaser and stores

5.3 Health and safety facilities on the Affected Property

The Service Provider is provided with an on-site Medical Centre for 1st aid and minor injuries. Major injuries are referred to the hospitals outside Hendrina power station using the ambulance on site. The contractor is responsible for the medical treatment fees of his employees

5.4 Environmental controls, fauna & flora

As per the Employer's procedure: The Hendrina Power Station Environmental Policy (HSPPPIN005)

5.5 Cooperating with and obtaining acceptance of Others

The Contractor cooperates with all other relevant stakeholders.

5.6 Records of Contractor's Equipment

Not applicable to this contract.

5.7 Equipment provided by the Employer

Not applicable to this contract.

5.8 Site services and facilities

5.8.1 Provided by the Employer

Not applicable to this contract.

5.8.2 Provided by the Contractor

5.9 Control of noise, dust, water and waste

As per Employer's Environmental requirements specified under section 3.2 **Environmental Constraints and Management**

5.10 Hook ups to existing works

Not applicable to this contract.

5.11 Tests and inspections

5.11.1 Description of tests and inspections

As per scope of work on Service Information.

5.11.2 Materials facilities and samples for tests and inspections

Not applicable to this contract.

6 List of drawings

6.1 Drawings issued by the *Employer*

This is the list of drawings issued by the *Employer* at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title