



## NEC3 Term Service Contract (TSC3)

Between ESKOM HOLDINGS SOC Ltd  
(Reg No. 2002/015527/30)

and [Insert at award stage]  
(Reg No. \_\_\_\_\_)

for Supply and delivery of scale and corrosion prevention chemicals for Matla Power Station Ash water systems, Auxiliary Cooling water systems and Main Cooling Water systems on an as and when required basis for a period of 5 years

Formatted: Justified

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CONTRACT No. [Insert at award stage]

## PART C1: AGREEMENTS & CONTRACT DATA

Contents:	No of pages
<b>C1.1 Form of Offer and Acceptance</b>	[•]
[to be inserted from Returnable Documents at award stage]	
<b>C1.2a Contract Data provided by the <i>Employer</i></b>	[•]
<b>C1.2b Contract Data provided by the <i>Contractor</i></b>	[•]
[to be inserted from Returnable Documents at award stage]	
<b>C1.3 Proforma Guarantees</b>	[•]

## 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:

**Supply and delivery of scale and corrosion prevention chemicals for Matla Power Station Ash water systems, Auxiliary Cooling water systems and Main Cooling Water systems on an as and when required basis 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	The offered total of the Prices exclusive of VAT is	<b>R [•]</b>
	Sub total	<b>R [•]</b>
	Value Added Tax @ 15% is	<b>R [•]</b>
	The offered total of the amount due inclusive of VAT is <sup>1</sup>	<b>R [•]</b>
	(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: \_\_\_\_\_

<sup>1</sup> 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  
Employer**

*(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**

Note:

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:**

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Capacity \_\_\_\_\_  
On behalf of \_\_\_\_\_  
(Insert name and address of organisation)  
Name & signature of witness \_\_\_\_\_  
Date \_\_\_\_\_

**For the Employer**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(Insert name and address of organisation)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## C1.2 TSC3 Contract Data

### Part one - Data provided by the *Employer*

[Instructions to the contract compiler: (delete these two notes in the final draft of a contract)

1. Please read the relevant clauses in the conditions of contract before you enter data. 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.
2. Some TSC3 options are always selected by Eskom Holdings SOC Ltd. The remaining TSC3 options are identified by shading in the left hand column. In the event that the option is not required select and delete the whole row. Where the following symbol is used "[•]" - data is required to be inserted relevant to the specific option selected.]

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

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option:	
•	dispute resolution Option and secondary Options	A: <b>Priced contract with price list</b> W1: <b>Dispute resolution procedure</b>
		X1: <b>Price adjustment for inflation</b>
		X2: <b>Changes in the law</b>
		X17: <b>Low service damages</b>
		X18: <b>Limitation of liability</b>
		X19: <b>Task Order</b>
		Z: <b>Additional conditions of contract</b>
	of the NEC3 Term Service Contract April 2013 <sup>2</sup> (TSC3)	
10.1	The <i>Employer</i> 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	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	[•]
	Fax No.	[•]

<sup>2</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902 [www.ecs.co.za](http://www.ecs.co.za)

10.1	The <i>Service Manager</i> is (name):	[•]
	Address	[•]
	Tel	[•]
	Fax	[•]
	e-mail	[•]
11.2(2)	The <i>Affected Property</i> is	[•]
11.2(13)	The <i>service</i> is	[•]
11.2(14)	The following matters will be included in the <i>Risk Register</i>	[•]
11.2(15)	The <i>Service Information</i> is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	[•] weeks
2	<b>The <i>Contractor's main responsibilities</i></b>	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 <i>Contractor</i> submits a first plan for acceptance within	[•] weeks of the Contract Date
3	<b>Time</b>	
30.1	The <i>starting date</i> is.	[•]
30.1	The <i>service period</i> is	Five (5) years/ 60 months
4	<b>Testing and defects</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
5	<b>Payment</b>	
50.1	The <i>assessment interval</i> is	between the [•] day of each successive month.
51.1	The <i>currency of this contract</i> is the	South African Rand
51.2	The period within which payments are made is	[•] weeks.
51.4	The <i>interest rate</i> 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 *mutatis mutandis* 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	<b>Compensation events</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
7	<b>Use of Equipment Plant and Materials</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data
8	<b>Risks and insurance</b>	
80.1	These are additional <i>Employer's</i> risks	1. [•] 2. [•] 3. [•]
9	<b>Termination</b>	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
10	<b>Data for main Option clause</b>	
A	<b>Priced contract with price list</b>	
20.5	The <i>Contractor</i> prepares forecasts of the final total of the Prices for the whole of the service at intervals no longer than	[•] weeks.
11	<b>Data for Option W1</b>	
W1.1	The <i>Adjudicator</i>	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).

Address

Tel No.

Fax No.

e-mail

W1.2(3) The *Adjudicator nominating body* is: **the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (London) (see [www.ice-sa.org.za](http://www.ice-sa.org.za)) or its successor body.**

W1.4(2) The *tribunal* is: **arbitration**

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 place where arbitration is to be held is **[•] South 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 **the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.**

## 12 Data for secondary Option clauses

### X1 Price adjustment for inflation

The <i>base date</i> for indices is <b>[•].</b>			
The proportions used to calculate the Price Adjustment Factor are:			
	Description of Work	Proportion %	Source of Index (CPI, PPI, SEIFSA)
	Non-adjustable	15	SEIFSA
	Transport	20	SEIFSA
	Raw Material Chemical	65	Statistics SA
	Total Percentage:	100	PPI

X2 **Changes in the law** **There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.**

X17 **Low service damages** **The Supplier shall be responsible for in case of a decline in the system effectiveness due to**

	<b>poor chemical treatment by the Supplier, Eskom will have the right to bring the system back at the supplier's cost</b>	
X17.1	The service level table is in	[•]
<b>X18</b>	<b>Limitation of liability</b>	
X18.1	The Contractor's liability to the Employer for indirect or consequential loss is limited to	<b>R0.0 (zero Rand)</b>
X18.2	For any one event, the Contractor's liability to the Employer for loss of or damage to the Employer's property is limited to	<b>the amount of the deductibles relevant to the event</b>
X18.3	The Contractor's liability for Defects due to his design of an item of Equipment is limited to	<b>The greater of</b>  <b>the total of the Prices at the Contract Date and</b> <b>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)</b> <b>plus the applicable deductibles</b>
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	<b>the total of the Prices other than for the additional excluded matters.</b>  <b>The Contractor's total liability for the additional excluded matters is not limited.</b>  <b>The additional excluded matters are amounts for which the Contractor is liable under this contract for</b>  <b>Defects due to his design, plan and specification,</b> <b>Defects due to manufacture and fabrication outside the Affected Property,</b> <b>loss of or damage to property (other than the Employer's property, Plant and Materials),</b> <b>death of or injury to a person and</b> <b>infringement of an intellectual property right.</b>
X18.5	The end of liability date is	[•] months after the end of the service period.
<b>X19</b>	<b>Task Order</b>	
X19.5	The Contractor submits a Task Order programme to the Service Manager within	<b>[•] days of receiving the Task Order</b>
<b>Z</b>	<b>The additional conditions of contract are</b>	<b>Z1 to Z14 always apply.</b>

**Z1 Cession delegation and assignment**

Z1.1 The Contractor does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the Employer.

Z1.2 Notwithstanding the above, the *Employer* may on written notice to the *Contractor* cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry.

**Z2 Joint ventures**

Z2.1 If the *Contractor* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons or organisations then these persons or organisations are deemed to be jointly and severally liable to the *Employer* for the performance of this contract.

Z2.2 Unless already notified to the *Employer*, the persons or organisations notify the *Service Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Contractor* on their behalf.

Z2.3 The *Contractor* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Employer* having been given to the *Contractor* in writing.

**Z3 Change of Broad Based Black Economic Empowerment (B-BBEE) status**

Z3.1 Where a change in the *Contractor*'s legal status, ownership or any other change to his business composition or business dealings results in a change to the *Contractor*'s B-BBEE status, the *Contractor* notifies the *Employer* within seven days of the change.

Z3.2 The *Contractor* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Service Manager* within thirty days of the notification or as otherwise instructed by the *Service Manager*.

Z3.3 Where, as a result, the *Contractor*'s B-BBEE status has decreased since the Contract Date the *Employer* may either re-negotiate this contract or alternatively, terminate the *Contractor*'s obligation to Provide the Service.

Z3.4 Failure by the *Contractor* to notify the *Employer* of a change in its B-BBEE status may constitute a reason for termination. If the *Employer* 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.

**Z4 Confidentiality**

Z4.1 The *Contractor* 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 *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the time of disclosure (evidenced by written records in existence at that time). Should the *Contractor* disclose information to Others in terms of clause 25.1, the *Contractor* ensures that the provisions of this clause are complied with by the recipient.

Z4.2 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*.

Z4.3 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.

Z4.4 The taking of images (whether photographs, 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*.

Z4.5 The *Contractor* ensures that all his subcontractors abide by the undertakings in this clause.

**Z5 Waiver and estoppel: Add to core clause 12.3:**

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 Health, safety and the environment: Add to core clause 27.4**

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* 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 Provision of a Tax Invoice and interest. Add to core clause 51**

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.

Z7.2 If the *Contractor* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Employer* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Employer* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.

Z7.3 The *Contractor* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Employer*'s VAT number 4740101508 on each invoice he submits for payment.

**Z8 Notifying compensation events**

Z8.1 Delete the last paragraph of core clause 61.3 and replace with:

If the *Contractor* does not notify a compensation event within eight weeks of becoming aware of the event, he is not entitled to a change in the Prices.

**Z9 Employer's limitation of liability**

- Z9.1 The *Employer*'s liability to the *Contractor* for the *Contractor*'s indirect or consequential loss is limited to R0.00 (zero Rand)
- Z9.2 The *Contractor*'s entitlement under the indemnity in 82.1 is provided for in 60.1(12) and the *Employer*'s liability under the indemnity is limited to compensation as provided for in core clause 63 and X19.11 if Option X19 Task Order applies to this contract.

**Z10 Termination: Add to core clause 91.1, at the second main bullet point, fourth sub-bullet point, after the words "against it":**

- Z10.1 or had a business rescue order granted against it.

**Z11 Ethics**

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

<b>Affected Party</b>	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,
<b>Coercive Action</b>	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,
<b>Collusive Action</b>	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,
<b>Committing Party</b>	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,
<b>Corrupt Action</b>	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,
<b>Fraudulent Action</b>	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,
<b>Obstructive Action</b>	means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
<b>Prohibited Action</b>	means any one or more of a Coercive Action, Collusive Action, Corrupt Action, Fraudulent Action or Obstructive Action.

- Z11.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z11.2 The *Employer* may terminate the *Contractor*'s obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Contractor* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Employer* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the

*Employer* can terminate the *Contractor's* obligation to Provide the Services for this reason.

Z11.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

Z11.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Employer* does not have a contractual bond with the Committing Party, the *Contractor* 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

83.1 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**

<b>Insurance against</b>	<b>Minimum amount of cover or minimum limit of indemnity</b>
Loss of or damage caused by the <i>Contractor</i> to the <i>Employer's</i> property	The replacement cost where not covered by the <i>Employer's</i> insurance.  The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance.  The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
Loss of or damage to Equipment	The replacement cost where not covered by the <i>Employer's</i> insurance.  The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance.
The <i>Contractor's</i> liability for loss of or damage to property (except the <i>Employer's</i> property, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i> ) arising from or in connection with the <i>Contractor's</i> Providing the Service	<b>Loss of or damage to property</b> The replacement cost  <b>Bodily injury to or death of a person</b> The amount required by the applicable law.
Liability for death of or bodily injury to employees of the	The amount required by the applicable law

Contractor arising out of and in the course of their employment in connection with this contract
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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**

<b>Insurance against or name of policy</b>	<b>Minimum amount of cover or minimum limit of indemnity</b>
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:

<b>AAIA</b>	means approved asbestos inspection authority.
<b>ACM</b>	means asbestos containing materials.
<b>AL</b>	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.
<b>Ambient Air</b>	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.
<b>Compliance Monitoring</b>	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.
<b>OEL</b>	means occupational exposure limit.
<b>Parallel Measurements</b>	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
<b>Safe Levels</b>	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.
<b>Standard</b>	means the <i>Employer's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos Containing Material, Equipment and Articles.
<b>SANAS</b>	means the South African National Accreditation System.
<b>TWA</b>	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 AAIA-approved 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.

## 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)<sup>3</sup> 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 <i>Contractor</i> is (Name):	
	Address	
	Tel No.	
	Fax No.	
11.2(8)	The <i>direct fee percentage</i> is	%
	The <i>subcontracted fee percentage</i> is	%
11.2(14)	The following matters will be included in the Risk Register	
11.2(15)	The Service Information for the <i>Contractor's</i> 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	

<sup>3</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 5391902 or [www.ecs.co.za](http://www.ecs.co.za)

Responsibilities:

Qualifications:

Experience:

**CV's (and further key person's data including  
CVs) are in \_\_\_\_\_.**

<b>A</b>	<b>Priced contract with price list</b>
11.2(12)	The <i>price list</i> is in
11.2(19)	The tendered total of the Prices is <b>R</b>

## PART 2: PRICING DATA

### TSC3 Option A

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option A	2
C2.2	The <i>price list</i>	[•]

## 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:

<b>Identified and defined terms</b>	11	
	11.2	(12) The Price List is the <i>price list</i> 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 <i>Contractor</i> has completed and
		• where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the <i>Contractor</i> 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*

Item nr	Description	Dosage ppm	Price per kg	Cost per ML treated	Cost per month
	<b>Ash water system Chemical/s</b>				
<b>Total cost for Ash Water System Chemical/s</b>					
	<b>Auxiliary Cooling water system Chemical/s</b>				
<b>Total cost for Auxiliary Cooling water system Chemical/s</b>					
	<b>Main Cooling Water System (Crystal Modifier Chemical/s)</b>				
<b>Total cost for Main Cooling water system (Crystal Modifier Chemical/s)</b>					

The total of the Prices (for the three

## PART 3: SCOPE OF WORK

Document reference	Title	No of pages
C3.1	This cover page <i>Employer's Service Information</i>	1
C3.2	<i>Contractor's Service Information</i>	
Total number of pages		

### 1. SYSTEMS DESCRIPTION

#### 1.1. SYSTEM INFORMATION

##### 1.1.1. ASH WATER SYSTEMS

##### REQUIREMENT: SCALE INHIBITOR

Scale inhibitors are used in the prevention of  $\text{CaCO}_3$  scale are the polymeric inorganic phosphates. This class of compounds includes the salts of pyrophosphates, tri-polyporphates and hexametaphosphate. At dosage levels of  $1,0 \text{ mg.kg}^{-1}$  these products inhibit the crystallisation of  $\text{CaCO}_3$  crystallites by suppressing both nucleation and crystal growth.

The number of pumps and estimated system flow rates where dosing should occur on the suction side of the pumps are as follow:

Final Cut :  $2 \times 700 \text{m}^3/\text{hr}$  (1016.4ml/month)

SWR : 2 X 2000m<sup>3</sup>/hr (2904.4ml/month)  
: 3 X 1000m<sup>3</sup>/hr (2178ml/month)  
AWR : 2 X 720m<sup>3</sup>/hr ( 500 ml/month)

**Note:** Dosing rates must be based on this volume.

The dosing infrastructure available for the specified systems are as follow:

**Final Cut**  
**1 x Dosing Tank 3000 Litres**  
**2 x Dosing Pumps**

**SWR**  
**1 x Dosing Tank 3000 Litres**  
**5 x Dosing Pumps**

**AWR**  
**1 x Dosing Tank 2500 Litres**  
**4 x Dosing Pumps**

**Note:** All dosing and other monitoring equipment are to be supplied on loan and maintained by the supplier for the duration of the contract if needed

The Ash water quality is provided in Appendix A.

#### **1.1.2. AUXILIARY COOLING WATER SYSTEMS**

##### **CLOSED SYSTEMS INFORMATION: DEMIN WATER COOLING**

##### **REQUIREMENT: BIOCIDE AND CORROSION INHIBITOR**

Closed recirculating systems should have very little water loss and continuously recirculates the same water. The heat absorbed from the heat transfer equipment is dissipated to another heat sink. Because there are no evaporative losses and provided that the system is operated correctly, make-up water is minimal and the mineral content remains essentially constant. However, corrosion by-products can easily accumulate and foul heat transfer equipment.

Biocides not compatible with closed systems:

Dodecylguanidine hydrochloride contributes 3 mg.kg<sup>-1</sup> to 7 mg.kg<sup>-1</sup> chlorine at typical application rates of 25 mg.kg<sup>-1</sup> to 50 mg.kg<sup>-1</sup>. Carbamates can attack copper alloys and precipitate iron. Carbamates are more applicable to open recirculating cooling water systems. Quaternary ammonium salts (Quats) contribute to the chloride concentration of the system. No specific contribution can be listed as a result of the extent of formulations available. Chlorine cannot be applied to close cooling water system (with demineralised water makeup) as result of the chloride contamination. Chlorine, however, remains a good biocide for open evaporative systems provided the system pH is within the most effective range for chlorine. But safety issues have limited its use.

Corrosion control requires knowledge of the metallurgy of the system, an understanding of the susceptibility of the metals to corrode under the operating conditions encountered, and an understanding of the limitations of the specific corrosion inhibitors applied. Principal economic advantages for the use of corrosion inhibitors in cooling water stem from two sources, namely;

- a. they reduce the frequency of maintenance and inspection shut-downs, and
- b. they permit more extensive use of iron and carbon or low alloy steels

The systems volumes are as follow:

Systems	Volume (m <sup>3</sup> ) approx. volumes	Number of Units
Auxiliary Cooling	30	6
Chiller Plant	1	6
Aircon Chiller - Head tank	10	1
Compressor (Slurry Plant)	1	1

#### 1.1.3. OPEN SYSTEMS INFORMATION: POTABLE WATER COOLING

##### REQUIREMENT: BIOCIDE AND SCALE INHIBITOR

Open recirculating cooling system continuously re-uses the water that passes through the heat transfer equipment. Evaporative cooling to the atmosphere expels the unwanted heat transferred to the cooling water. Open recirculating cooling systems are oxygen saturated and may contain a high level of dissolved solids. These factors can significantly affect the build-up of deposits and deterioration of the heat transfer equipment.

The Auxiliary Cooling water specifications are included in Appendix B.

#### 1.1.4. MAIN COOLING WATER SYSTEMS

##### REQUIREMENT: CRYSTAL MODIFIER

Organic polymers have also been found to have effective calcium carbonate scale prevention properties. These include polycarboxylates, such as polyacrylates, polymethacrylates, polymaleates, and their copolymers. Dose rates are in the order of 2,0 mg.kg<sup>-1</sup> to 4,0 mg.kg<sup>-1</sup>. The polymers adsorb on to the CaCO<sub>3</sub> crystal structure, limiting the growth of CaCO<sub>3</sub> and ultimately limiting scale formation. These polymers are more frequently considered dispersants. They retard CaCO<sub>3</sub> scale by maintaining small particles of distorted crystalline material in suspension.

South system volume = 47 ML

North system volume = 47 ML

Blowdown volume = 4 ML/D per system (at MCR)

Average raw water make-up = 60 ML/D per system (at MCR)

CoC (based on K) = 16

Cooling water Temperature range: 0 – 45 °C

The cooling water is circulated at a maximum flowrate of 14.36 m<sup>3</sup>/s (South CW system) or 13 m<sup>3</sup>/s (North CW system), through the condensers and back to the cooling towers. The flowrate is dependent on the number of CW pumps running (max 6 pumps per system), which is dependent on the number of operating units on-load.

The system has the following materials of construction:

Deformed H.T. reinforced concrete (Class A, B & C); Carbon steel; Mild steel; Cast iron; Titanium condenser tubes; Brass condenser tubes; Polygrid splash on South Cooling Towers and flat asbestos-cement sheets on North System

Other chemicals dosed in system:

Lime (Calcium hydroxide), Flocculent & Coagulant.

The chemical constituents of all dosing chemicals will be communicated during contract phase.

The Main Cooling Water specifications are included in Appendix C.

## 2. DETAILED REQUIREMENTS

2.1. Supply and delivery of chemicals to scale/corrosion prevention chemicals for all the 3 mentioned systems. The contractor is to supply and maintain their own dosing system on site (Pumps, tanks, pipelines, etc.) where needed.

2.2. Supply and delivery of the best suited biocide for the Auxiliary Cooling Water Systems. Biocides to be used as little as possible in the system. Caution must be taken against excessive foaming at the air extraction zones. An anti-foam chemical should be available and dosed in order to prevent excessive foaming.

- Biocide efficacy test of dosing for the biocides should be provided, an acceptable kill rate will be 99.99% of total planktonic bacteria within the system, after optimal time for the biocide used. The minimum efficacy is 99.99% kill at the optimal kill time for the biocide. These results must be reported to the PS regularly.
- Bacterial counts to be constant / decreasing – (to be done on a monthly basis). Visual inspections: algae growth to be minimized – (to be done on a two weekly basis and a report generated) Legionella counts:  $10^1$  -  $10^2$  / Litre – (to be done quarterly).

2.3. The supplier should recommend and install appropriate online monitoring systems, where applicable, for the monitoring of scale formation (main cooling water system and open auxiliary cooling water system), corrosion rate (closed auxiliary cooling water system) and monitoring of sessile bacteria proliferation and biofilm formation (open and closed auxiliary cooling water systems). The online monitoring systems will provide valuable feedback on the effectiveness of the suppliers proposed treatment regimes.

2.4. Water sample from the station should be taken on all the mentioned systems and laboratory tests should be conducted to establish which chemical (based on the active ingredient) is most suitable for Matla Power Station system water type/chemistry and a feedback report must be generated and included in the enquiry document. The chemicals must be effective to improve and / or keep system in stable condition complying with the applicable Eskom Standard's specification values as per the Appendix's.

- The tender documents must contain an analysis of the existing chemistry conditions of the systems with a predictive dosing model which will demonstrate the best suited chemical and optimal dosing rate in order to prevent scale formation/prevent corrosion and prevent microbiological fouling on the mentioned systems. The result must indicate the proposed chemical/s together with the active ingredient and the concentration of the active ingredient. The recommended dosing rate, concentration to be dosed and the treatment price as Rand per Mega Litre (R/ML) of ash water treated. Additionally, a method in which the dosage will be monitored and controlled should be outlined as well as a method by which residual chemical in the system can be determined.

2.5. The supplier should submit a report outlining the optimal treatment regime for all the mentioned systems to meet the specified scaling limits, corrosion prevention limits and bio-control limits.

- The proposed chemicals should not cause any damage or blockages in any parts of the water systems and should be compatible with the chemicals already dosed in these systems. The supplier will ensure that the chemicals supplied do not affect the materials of construction for any of the mentioned systems.

2.6. The supplier service must compile a monthly report on the effectiveness of the proposed dosing regimes. Changes to the dosing regimes should be implemented during seasonal changes or in any event where the water quality of a system has changed. The supplier should sample the water from the different systems on a frequent basis to determine if there are any changes to the water quality.

- The monthly reports should include the following:
  - Quantity of chemicals used
  - Concentration dosed (ppm)
  - R/ML for the month
  - Performance Results
  - Comments on deviations if any

2.7. The supplier should provide a detailed 16 points Material Safety Data Sheet (MSDS) with a South African contact number for each chemical to be used. The MSDS must state the main active ingredient and the concentration thereof.

- All chemical deliveries to Matla must be accompanied by a Certificate of Analysis (COA) for each chemical together with a 16-point MDSD/PDS for each chemical.

2.8. All chemical containers shall have an identifying label that includes as a minimum the substance name, shelf life or expiry date, appropriate hazard warnings and identification of manufacturer or distributor.

2.9. Chemicals to be delivered in Original Equipment Manufacturer (OEM) containers, no repackaging allowed.

2.10 All storage tanks of chemicals must be labelled with the name, use and safety information of the chemical. Contact names must be available in the event of a chemical spill.

2.11 The supplier must conduct periodic site visits to ensure that the specified chemicals are being dosed optimally and the desired treatment outcome is achieved. The supplier is expected to give technical backup on the products and their correct application.

2.12. The supplier must carry out plant inspections during outage opportunities and compile a report with the effectiveness of chemicals being dosed as well as suggestions/ recommendations.

2.13. Lead time delivery of chemicals must be within reasonable time period (three days maximum).

2.14. The supplier should mention all previous work conducted with similar SOW requirements and plant equipment as per Matla Power Station.

2.15. A company and / or supplier's audit to be done quarterly on all installations and / or dosing systems covering all aspects of safety and operational procedural compliance and a report of all findings to be submitted to Matla Power Station.

2.16. The Contractor must provide training / awareness to Matla Power Station's personnel if needed.

## C3.1: EMPLOYER'S SERVICE INFORMATION

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## **1. Description of the service**

### **1.1 Executive overview**

Supply and delivery of scale and corrosion prevention chemicals for Matla Power Station Ash water systems, Auxiliary Cooling water systems and Main Cooling Water systems on an as and when required basis for a period of 5 years

### **1.2 Employer's requirements for the service**

As per Scope of work

### **1.3 Interpretation and terminology**

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
PPE	Personal Protective Equipment
EMS	Environmental Management System

## 2. Management strategy and start up.

### 2.1 The Contractor's plan for the service

N/A

### 2.2 Management meetings

Monthly meetings will be required every 25<sup>th</sup> of the month to discuss Assessment as well as performance of the Contractor

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 25 <sup>th</sup> of the month at Matla Power Station	Chemical Services Boardroom	<i>Employer and Contractor</i>

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

The Service Manager will ensure that the contractor complies with the OHSAS 18001 and NOSA safety system as used at Matla Power Station. The contractor must supply the employer with a fully completed Contractor's safety file, as required by law. The contractor to ensure that there is adequate PPE and yearly medical screening of his/her personnel. Knowledge of the product and its adverse effect on the environment must be minimized to prevent any liability to the power station by the contractor through proper procedures and good housekeeping. The Service Manager will ensure that the contractor adhere to the SHEQ requirement, NCRs will be issued for non-conformance.

### 2.4 Provision of bonds and guarantees

N/A

### 2.5 Documentation control

All relevant documents to be filled by service Manager

## 2.6 Invoicing and payment

The Z clauses make reference to invoicing procedures stated here in this Service Information. Also include a list of information which is to be shown on an invoice.

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

N/A

## 2.8 Records of Defined Cost to be kept by the *Contractor*

N/A

## 2.9 Insurance provided by the *Employer*

Refer to Insurance Section of Contract.

## 2.10 Training workshops and technology transfer

N/A

## 2.11 Design and supply of Equipment

N/A

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

### 2.12.1 Equipment

The *Employer* may wish to use some of the Equipment used by the *Contractor* after the end of the service period. Clause 70.2 requires that details of such requirement be stated in the Service Information. Complete here or if not applicable retain the heading and state 'None'.

### 2.12.2 Information and other things

N/A

## 2.13 Management of work done by Task Order

All deliveries are to be done in accordance with Task order provided.

### **3. Health and safety, the environment and quality assurance**

#### **3.1 Health and safety risk management**

In addition to the requirements of the laws governing health and safety, Eskom may have some additional requirements particular to the service and the Affected Property for this contract. The text below provides for these being attached as an Annexure to this Service Information. PLEASE ALSO READ CORE CLAUSE 27.4 TOGETHER WITH Z7 IN THE ADDITIONAL CONDITIONS OF CONTRACT TO MAKE SURE THAT WHATSOEVER IS INCLUDED IN THE ANNEXURE FOLLOWS ON FROM THOSE CLAUSES.

The Divisional/Regional Safety Risk Manager or his representative having jurisdiction over the service must provide the relevant safety, health and environmental (SHE) criteria for incorporation into this Service Information. The SHE specification / scope must be signed off by the Divisional/Regional Safety Risk Manager or his representative confirming that the applicable safety criteria have been taken into account.

The Commodity Manager / Buyer must refer the tender to the Divisional/Regional Safety Risk Manager or his representative in order to evaluate against enquiry-specific safety criteria.

The Divisional Safety Risk Managers who will be responsible for the allocation of resources to assist P&SCM with the above processes are as follows:

- Generation: Roley McIntyre
- Transmission: Tony Patterson
- Distribution: Alex Stramrood
- Enterprises: Jace Naidoo
- Corporate: Kerseri Pather

The *Contractor* shall comply with the health and safety requirements contained in Annexure \_\_\_\_\_ to this Service Information.

#### **3.2 Environmental constraints and management**

The Contractor appointed shall comply with Eskom Matla Power Station EMS requirements  
Eskom Matla Power Station is ISO14001 certified.

The *Contractor* shall comply with the environmental criteria and constraints stated in Annexure \_\_\_\_\_

#### **3.3 Quality assurance requirements**

Specify minimum requirements for the *Contractor's* Quality Plan and Work Procedures or provide the Employer's Quality Plan if that is to be used. Make sure witness and hold points are identified generally and describe any particular requirements for QA outside the Affected Property. Indicate how the *Contractor's* QA documentation is to be submitted for acceptance and any conditions that need to be imposed relating to acceptance. State whether ISO compliance is a condition and if so which ISO standard shall apply.

## 4. Procurement

There is a cross reference from the core clause 11.2(6) definition of Disallowed Cost to the Service Information regarding procurement procedures. This part of the Service Information MUST include any such procedures to be able to administer Disallowed Cost.

### 4.1 People

#### 4.1.1 Minimum requirements of people employed

Specify any constraints relating to people employed to Provide the Service; for example permits for foreigners, training (other than H & S), use of labour from designated areas and industrial relations.

#### 4.1.2 BBBEE and preferencing scheme

Specify constraints which *Contractor* must comply with after contract award in regard to any Broad Based Black Economic Empowerment (B-BBEE) or preferencing scheme measures.

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

If the ASGI-SA requirements are to be included in this contract specify constraints which *Contractor* must comply with after contract award in regard to any ASGI-SA requirements. The ASGI-SA Compliance Schedule completed in the returnable tender schedules is reproduced here. If ASGI-SA does not apply, delete this paragraph.

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

TSC3 does not make use of nominated subcontracting, but the *Employer* may list which subcontractors or suppliers the *Contractor* is required to enter into subcontracts with. This is usually only required where specialist services need to be obtained from a particular supplier or group of suppliers in order to comply with operational standards.

#### 4.2.2 Subcontract documentation, and assessment of subcontract tenders

Specify any constraints on how the *Contractor* is to prepare subcontract documentation, whether use of the NEC system is compulsory or not (compulsory is recommended) and how subcontract tenders are to be issued, received, assessed (using a joint report?) and awarded.

#### 4.2.3 Limitations on subcontracting

The *Employer* may require that the *Contractor* must subcontract certain specialised work, or that the *Contractor* shall not subcontract more than a specified proportion of the whole of the contract.

#### 4.2.4 Attendance on subcontractors

State requirements for attendance on Subcontractors, if any

### 4.3 Plant and Materials

#### 4.3.1 Specifications

Plant and Materials are defined as items intended to be included in the Affected Property. This will refer to replacement of worn or defective parts, routine replacement as part of regular preventative maintenance and supply of spare parts. Quality is usually designed in or specified in the technical specifications. However to cover circumstances where quality may not be prescribed, this sub-paragraph could also be used to state an overarching default requirement – fitness for purpose etc.

Either specify here or provide a list of the applicable specifications and attach them as Annexure or state where they can be obtained from.

#### 4.3.2 Correction of defects

State any constraints when dealing with defective Plant and Materials such as how repairs are carried out - can the item be fixed up or must it be replaced by a new one.

#### 4.3.3 Contractor's procurement of Plant and Materials

Specify any constraints on how the *Contractor* is to order, codify, expedite, freight, import, transport to the Affected Property and any other requirements for delivery and storage before installation. The *Employer* may require warranties from suppliers to be in favour of the *Employer* and not just to the *Contractor*. The *Employer* may also need schedules of vendor data for his own use after the end of the service period.

#### 4.3.4 Tests and inspections before delivery

Core Clause 41.1 makes reference to the Service Information stating which Plant and Materials are to be inspected and tested before delivery. Specify any requirements particularly if such tests and inspections are to be carried out by agents of the *Employer* overseas.

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

List any Plant and Materials which are to be provided by the *Employer*.

State arrangements for collection by *Contractor* or delivery by others on behalf of the *Employer*, off loading, inspection, storage, care custody and control, return of unused Plant and Materials, etc. Always include a statement to the effect that 'all other Plant and Materials are to be provided by the *Contractor*'.

#### 4.3.6 Cataloguing requirements by the *Contractor*

State whether cataloguing is applicable, if it is, reference the requirements for cataloguing that need to be satisfied by the *Contractor* (consult Procurement Instruction Number 1 of 2018 – Incorporating Cataloguing into the Procurement Environment, Unique Identifier 240-1289988974).

## 5. Working on the Affected Property

This part of the Service Information addresses constraints, facilities, services and rules applicable to the *Contractor* whilst he is doing work on the Affected Property.

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

Sites such as Koeberg Nuclear Power Station have very strict entrance requirements which tendering contractors need to allow for in their prices, and the *Contractor* has to comply with. State these or similar requirements here.

In addition to the above there may be other restrictions once on the site, plus rules relating to roads, walkways and the provision of barricades

### 5.2 People restrictions, hours of work, conduct and records

Restrictions and hours of work may apply on some sites. It is very important that the *Contractor* keeps records of his people working on the Affected Property, including those of his Subcontractors. State that the *Service Manager* shall have access to them at any time. These records may be needed when assessing compensation events.

### 5.3 Health and safety facilities on the Affected Property

Section 3 deals with contractual H & S requirements in addition to those of the OHSA Act. This section allows the *Employer* to state what measures are to be taken on the Affected Property by describing where First Aid facilities provided by the *Employer* are located and any other emergency arrangements. Do not use if already addressed in 2.3.

### 5.4 Environmental controls, fauna & flora

This sub-paragraph may not be required in a service contract or if these matters are dealt with in the general environmental requirements referred to in section 3 above.

### 5.5 Cooperating with and obtaining acceptance of Others

This sub-paragraph could be used to deal with two issues.  
1) The cross reference from core clause 25.1 about cooperation generally as well as details about Others with whom the *Contractor* may be required to share the Affected Property. See clause 11.2(9) for the definition of Others.  
2) Requirements for liaison with and acceptance from statutory authorities or inspection agencies.

### **5.6 Records of Contractor's Equipment**

This sub-paragraph is intended to address how records are to be kept of Equipment on Site including whether it is owned or hired. Include any constraints about scaffolding, rigs, heavy lifts and cranes, including removal from the Affected Property.

### **5.7 Equipment provided by the Employer**

Provide details of equipment (e.g. overhead cranes) made available for use by the employer and set out conditions relating thereto.

### **5.8 Site services and facilities**

#### **5.8.1 Provided by the Employer**

This is a mandatory cross reference from clause 25.2 in TSC3. State what the *Employer* will provide in the way of power, water, waste disposal, telecomms, ablutions, fire protection and lighting (etc) on the Affected Property. Give hook up locations and any constraints on how the hook up is to be done. Always conclude by stating that the *Contractor* shall provide everything else necessary for Providing the Service.

#### **5.8.2 Provided by the Contractor**

Describe what the *Contractor* is to provide in the way of accommodation, laboratories, storage, vehicles and office equipment for the *Service Manager* and any restrictions or minimum requirements concerning the *Contractor*'s own facilities. Also state what happens to these facilities upon completion of the contract.

### **5.9 Control of noise, dust, water and waste**

State requirements, if any.

### **5.10 Hook ups to existing works**

State any constraints

### **5.11 Tests and inspections**

#### **5.11.1 Description of tests and inspections**

Describe the tests and inspections to be carried out by the *Contractor* and the *Service Manager* and others [40.1].

#### **5.11.2 Materials facilities and samples for tests and inspections**

State what materials facilities and samples for tests and inspections the *Contractor* and the *Employer* are to provide, per core clause 40.2.

**ESKOM HOLDINGS SOC Ltd.  
TITLE OF PROJECT /CONTRACT**

CONTRACT NUMBER \_\_\_\_\_

## List of drawings

### **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.