



## NEC3 Term Service Contract (TSC3)

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

and

for **PROVISION OF HVAC SYSTEMS MAINTENANCE  
SERVICES WITHIN THE CENTRAL EAST CLUSTER -  
KWAZULU NATAL**

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**CONTRACT No.**

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## PART C1: AGREEMENTS & CONTRACT DATA

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## 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:

### HVAC SYSTEMS MAINTENANCE SERVICES WITHIN THE CENTRAL EAST CLUSTER - KWAZULU NATAL

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>RATES BASED</b>
	Sub total	<b>RATES BASED</b>
	Value Added Tax @ 15% is	
	The offered total of the amount due inclusive of VAT is <sup>1</sup>	<b>RATES BASED</b>

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)	Brenda Cebekhulu	
Capacity	Acting Senior Manager Business Enablement Central East Cluster	
<b>for the Employer</b>	Eskom Holdings SOC Ltd 25 Valley View Road New Germany, 3610	
	<i>(Insert name and address of organisation)</i>	

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	[•]	[•]
2	[•]	[•]
3	[•]	[•]
4	[•]	[•]
5	[•]	[•]
6	[•]	[•]
7	[•]	[•]

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

On behalf  
of

*(Insert name and address of organisation)*

Name &  
signature  
of witness

Date

Brenda Cebekhulu

Acting Senior Manager Business  
Enablement  
Central East Cluster

*(Insert name and address of organisation)*  
Eskom Holdings SOC Ltd  
25 Valley View Road  
New Germany, 3610

## C1.2a TSC3 Contract Data

### Part one - Data provided by the Employer

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:	
		<b>A: Priced contract with price list</b>
	dispute resolution Option	<b>W1: Dispute resolution procedure</b>
	and secondary Options	
		<b>X1: Price adjustment for inflation</b>
		<b>X2: Changes in the law</b>
		<b>X17: Low service damages</b>
		<b>X18: Limitation of liability</b>
		<b>X19: Task Order</b>
		<b>Z: 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):	<b>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</b>
	Address	<b>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</b>
10.1	The <i>Service Manager</i> is (name):	<b>Mfundo Maphanga</b>
	Address	<b>25 Valley View Road, New Germany</b>
	Tel	<b>011 800 4892</b>
	Fax	<b>N/A</b>
	e-mail	<b>MaphanAM@eskom.co.za</b>
11.2(2)	The Affected Property is	<b>Multiple Sites Throughout the Central East Cluster – Kwazulu Natal</b>
11.2(13)	The <i>service</i> is	<b>HVAC Systems Maintenance Services</b>

<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)

11.2(14)	The following matters will be included in the Risk Register	<b>Labour strikes, Power supply interruptions or failures, Municipal water interruptions</b>
11.2(15)	The Service Information is in	<b>Part 3: Scope of Work and all documents and drawings to which it makes reference.</b>
12.2	The <i>law of the contract</i> is the law of	<b>the Republic of South Africa</b>
13.1	The <i>language of this contract</i> is	<b>English</b>
13.3	The <i>period for reply</i> is	<b>One (1) week</b>
<b>2</b>	<b>The Contractor's main responsibilities</b>	<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</b>
21.1	The <i>Contractor</i> submits a first plan for acceptance within	<b>Four (4) weeks of the Contract Date</b>
<b>3</b>	<b>Time</b>	
30.1	The <i>starting date</i> is.	<b>TBA</b>
30.1	The <i>service period</i> is	<b>Not exceeding 31 January 2030</b>
<b>4</b>	<b>Testing and defects</b>	<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</b>
<b>5</b>	<b>Payment</b>	
50.1	The <i>assessment interval</i> is	<b>between the 25<sup>th</sup> day of each successive month.</b>
51.1	The <i>currency of this contract</i> is the	<b>South African Rand</b>
51.2	The period within which payments are made is	<b>Four (4) weeks.</b>
51.4	The <i>interest rate</i> is	<p><b>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</b></p> <p><b>(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</b></p>

		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.
<b>6</b>	<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
<b>7</b>	<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
<b>8</b>	<b>Risks and insurance</b>	
80.1	These are additional <i>Employer's</i> risks	<b>1. None</b>
<b>9</b>	<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.
<b>10</b>	<b>Data for main Option clause</b>	
<b>A</b>	<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	<b>Four (4) weeks.</b>
<b>11</b>	<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	Rennies House, 1 <sup>st</sup> floor, Right Wing, Office 2B, 1 Kingsmead Boulevard, Kingsmead Office Park, Durban
	Tel No.	031 305 9708
	e-mail	<a href="mailto:sandy@arbitration.co.za">sandy@arbitration.co.za</a>
W1.2(3)	The <i>Adjudicator nominating body</i> 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 <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ) or its successor body.
W1.4(2)	The <i>tribunal</i> is:	arbitration
W1.4(5)	The <i>arbitration procedure</i> 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 <b>Kwazulu Natal, South Africa</b>  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 <b>the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.</b>
<b>12</b>	<b>Data for secondary Option clauses</b>	
<b>X1</b>	<b>Price adjustment for inflation</b>	
X1.1	The <i>base date</i> for indices is _____  The proportions used to calculate the Price Adjustment Factor are:	<b>The rates can be adjusted using CPI after the anniversary of the contract, upon application from the <i>Contractor</i> and approval by the <i>Employer</i></b> <b>Price adjustment will not apply to items relating to percentage (%) markup</b>
<b>X2</b>	<b>Changes in the law</b>	<b>There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.</b>
<b>X17</b>	<b>Low service damages</b>	
X17.1	The <i>service level table</i> is in	<b>C3.1 Employer's service information</b>
<b>X18</b>	<b>Limitation of liability</b>	
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to	<b>R0.0 (zero Rand)</b>
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to	<b>the amount of the deductibles relevant to the event</b>
X18.3	The <i>Contractor's</i> liability for Defects due to his design of an item of Equipment is limited to	<b>The greater of</b> <ul style="list-style-type: none"><li>• the total of the Prices at the Contract Date and</li><li>• the amounts excluded and unrecoverable from the <i>Employer's</i> insurance (other than the resulting physical damage to the <i>Employer's</i> property which is not excluded) plus the applicable deductibles</li></ul>
X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> , 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 <i>Contractor's</i> total liability for the additional excluded matters is not limited.</b>  <b>The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this contract for</b>

		<ul style="list-style-type: none"> <li>• Defects due to his design, plan and specification,</li> <li>• Defects due to manufacture and fabrication outside the Affected Property,</li> <li>• loss of or damage to property (other than the <i>Employer's</i> property, Plant and Materials),</li> <li>• death of or injury to a person and</li> <li>• infringement of an intellectual property right.</li> </ul>
X18.5	The <i>end of liability date</i> is	<b>Twelve (12) months after the end of the <i>service period</i>.</b>
<b>X19</b>	<b>Task Order</b>	
X19.5	The <i>Contractor</i> submits a Task Order programme to the <i>Service Manager</i> within	<b>One (1) day of receiving the Task Order</b>
<b>Z</b>	<b>The <i>additional conditions of contract</i> 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:

**Affected Party** means, as the context requires, any party, irrespective of whether it is the *Contractor* 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** means to harm or threaten to harm, directly or indirectly, an Affected Party or the

<b>Action</b>	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

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage caused by the	The replacement cost where not covered by the

Contractor to the Employer's property	Employer's insurance.  The Employer's policy deductible as at Contract Date, where covered by the Employer's insurance.
Loss of or damage to Plant and Materials	The replacement cost where not covered by the Employer's insurance.  The Employer's policy deductible as at Contract Date, where covered by the Employer's insurance.
Loss of or damage to Equipment	The replacement cost where not covered by the Employer's insurance.  The Employer's policy deductible as at Contract Date, where covered by the Employer'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	<b><u>Loss of or damage to property</u></b> The replacement cost  <b><u>Bodily injury to or death of a person</u></b> 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**

<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.



## C1.2b TSC3 Contract Data

### Part two - Data provided by the Contractor

#### 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. e-mail	
11.2(8)	The <i>direct fee percentage</i> is The <i>subcontracted fee percentage</i> is	<b>Refer to BOQ for this item</b> <b>Refer to BOQ for this item</b>
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: Responsibilities: Qualifications: Experience:	

<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)

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

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

Part C2:  
TSC3 Option A

Pricing Data

Document reference	Title	Pages No.
C2.1	Pricing assumptions: Option A	20 – 21
C2.2	The <i>price list</i>	22
		3

## C2.1 Pricing assumptions: Option A

### 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 <ul style="list-style-type: none"> <li>the Price for each lump sum item in the Price List which the <i>Contractor</i> has completed and</li> <li>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.</li> </ul>
		(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.

### 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.

### 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).

### 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.

## **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*

**NB: Prices to include labour, supply of all materials, overheads, safety, protective clothing, profits, hiring of equipment.**

The price list is contained in **Annexure A – HVAC SYSTEMS MAINTENANCE PRICELIST**

### **Notes to the Price List**

1. The rates in the Price List exclude VAT.
2. The rates offered will remain fixed and firm for the first 12 months of the contract period, thereafter escalation may be applied for, in writing annually based on CPI by the Contractor Refer to secondary option clause X1 for price adjustment factors.
3. The escalation will be applied after the Contractor has submitted a request for price adjustment and this has been approved
4. Escalation will not apply to items relating to % Markups.

PART C3:

SCOPE OF WORK

Document reference	Title	Pages No.
C3.1	<i>Employer's Service Information</i>	24 - 47
		24

## C3.1: EMPLOYER'S SERVICE INFORMATION

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## 1 DESCRIPTION OF THE SERVICE

### 1.1. Executive Overview

The purpose of this contract is to appoint a suitably qualified Contractor to provide HVAC Systems Maintenance Services within Central East Cluster - Kwazulu-Natal, on an as and when required basis. The Contractor will be added to a panel of contractors to provide this service.

The assets / equipment to be maintained are located at multiple sites throughout the various districts within Kwazulu-Natal. The Contractor will be required to provide the service in rural and urban areas.

For the purpose of calculating travel cost and time the Contractor's primary home centre is Mkondeni Area Office.

When travel cost or time is to be calculated the home centre will be used as a reference point for calculations.

Travel cost and time will only be applicable for breakdown works and not routine or planned maintenance / servicing of equipment.

### 1.2. Employer's Requirements for the Service

- The scope is for the provision of HVAC systems maintenance. The maintenance will be for corrective and preventative maintenance.
- Minor and major service shall include all supervision, labour, plant, materials, equipment, consumable, travel cost, reporting and testing of units / systems.
- The units / systems shall be maintained at optimum efficiency in accordance with manufacturer's recommendations and standards.
- The Contractor will be required to perform minor and major services on domestic air-conditioning units including heat pumps, extractor fans and cold rooms.
- The Contractor will be required to perform minor and major services on HVAC package plants and systems, hide way units, open closed loop chiller plant, VRV units, cooling towers etc.
- Inventory / register to be provided for each service. Additionally monthly update of the aircon/heat-pump inventory as per template provided by service manager must be submitted.
- The servicing of the open closed loop chiller plant shall include all pumps, motors, air handling unit and auxiliary systems and components. This excludes the cooling towers.
- The cooling tower servicing will be done as a separate item to the main plant / unit.
- Water treatment of cooling towers shall be required.
- The Contractor will be required to faulty find, repair and remove HVAC units as requested by the Service Manager.
- The Contractor will be required to perform maintenance on extractor fans and cold rooms.
- The Contractor will be required to advise on HVAC solutions for the various sites.
- The scope excludes major breakdowns.

- The Contractor will be part of a panel of service providers that will be used to provide this service. The Service Manager reserves the right to award any works detailed in this Contract to any other supplier it deems necessary.
- The frequency of the services will be stipulated by the Service Manager.
- The Contractor must only execute the service when issued with a Task Order
- Task Orders will be issued on an as and when required basis.
- In the event of the Contractor not executing or completing the Task Order as planned, the Service Manager at his discretion may withdraw the Task Order from the Contractor. The Contractor shall not be compensated for any claims arising due to the withdrawal of the Task Order. This will be deemed as non-performance by the Contractor.
- The Contractor shall provide all labour, supervision, administration and management, plant, equipment, tools, supplies and material required to provide service.
- The Contractor shall be required to execute the service at various sites across the province of Kwazulu Natal. The sites are in rural and urban areas. It is to be noted that the Employer uses an in-house team to provide services of a similar nature across the various sites. The Contractor shall be required to provide a service at these sites as and when the Employer deems it necessary.
- The Contractor shall be allocated to a home centre however the Employer may request the Contractor to provide the service across the cluster as it deems necessary.
- The Contractor must be available at short notice to execute the services.
- The Contractor will be required to be available 24 hours 7 days a week to respond to any services deemed an emergency by the Employer
- In terms of emergencies the Contractors response time to call-outs shall be within 6 hours, for all other call-outs a response time of 48 hours is required or as agreed upon by the Service Manager
- The Contractor may be required to provide quotations for works as specified by the Service Manager or his delegate. For emergency works the timeframe is specified under the preventative maintenance section.
- The response time for the Contractor to supply quotations for other works shall be 72 hours or as agreed upon at the time of request.
- The Contractor will be compensated for travelling to site for emergency or breakdown works. The Contractor will be compensated based on a round trip from the allocated home centre. The Contractor will be compensated for travel cost per kilometre and travel time for each employee responding to site, however the number of employees and the skill level must first be agreed upon and approved by the Service Manager or his delegate before any trip or claim to be made.
- When calculating travelling distance, the home centre will be used as the reference point to calculate the round-trip distance for any site. Google maps will be used to calculate distance.
- When calculating travelling time, the home centre will be used as the reference point to calculate the round-trip time for any site. Google maps will be used to calculate time.
- Travelling will be paid, upon agreement with Service Manager, from the site to the nearest supplier for spares if not on hand, in view of travelling back to home centre.
- For high-risk work/task orders, the Employer may require the Contractor to:
  - visit the work site to prepare the risk assessment, safe working procedures
  - prepare and meet the requirements for a site-specific safety file

- have a safety officer in place on a full-time basis for the duration of the work
  - have a supervisor in place on a full-time basis for the duration of the work
  - meet any other requirements as specified by the Service Manager
- The Contractor will be required to perform some of the services while working at heights. The Contractor must ensure adherence to all legislation and Eskom's working at heights standard.
- The Contractor will be subject to performance appraisals based on Eskom's key performance indicators. Based on outcomes of these performance appraisals, the Service Manager reserves the right to withhold allocation of works to a non-performing contractor.
- Sub-Contracting must be agreed upon by the Service Manager. This will be allowed for limited services where the Contractor does not have the necessary skill or expertise.
- The Contractor will be required to ensure that all sub-contractors adhere to all health and safety requirements.
- The skill level and experience for the Contractors people are stipulated below
  - Technician with minimum NQF level 6 and more than 5 years related experience.
  - Artisan with a Refrigeration Mechanic Trade Test, NQF level 4 and more than 5 years related experience.
  - Artisan Assistant with minimum NQF level 4 and more than 3 years related experience.
- The Contractor must abide by Eskom's standard namely "Life Saving Rules" at all times. Refer to the latest revision of the standard 240-62196227 Life Saving Rules
- The Contractors shall comply with the requirements of the OSH Act and regulation
- The Contractors shall comply to Eskom Procedures and Policies as per the latest revision
- The Contractors must close out any audit findings or any other findings related to the service within the corrective action due date
- The Contractor will be required to attend the Employers Contractor forums and meetings from time to time as specified by the Service Manager
- The Contractor shall provide monthly a written record, in schedule form, reflecting the manhours for all employees associated with this contract.
- The Contractor shall ensure that a safety file is prepared and accepted by the Employer's safety officer within 1 day after the starting date of the contract.
- The Contractor must at all times comply with Eskom's Vendor Management System requirements to ensure invoices are processed and paid timeously. It is the Contractor's responsibility to ensure that Eskom is informed of any changes in it's organisation that would affect it's vendor status, and to ensure that the necessary actions and due diligences are taken to ensure compliance with the Vendor Management System. The Employer will not be held responsible for the delay on payment of invoices as a result of the Contractor's non-compliant status on the Eskom Vendor Management System and no interest will be claimable in this instance.

## **PREVENTATIVE MAINTENANCE**

### **Minor Service**

#### **All Air Conditioning Units**

- As a minimum the Contractor will:
  - Clean filters.
  - Check unit for correct operation.
  - Clean exterior of unit.
  - Clean covers of indoor units.
  - Visually inspect unit for any obvious faults.
  - Ensure work area is clean and tidy.
  - Record and report any faults. Submit record of service to Service Manager.

#### **All Refrigeration Units**

- As a minimum the Contractor will:
  - Check operation of units.
  - Record and report any faults. Submit record of service to Service Manager.

#### **Hideaway Evaporator Units**

- As a minimum the Contractor will:
  - Check filter and clean where necessary. Should the filter be torn or damaged it will be necessary to provide a new filter.
  - Check Condensate drains and clear observe its operation in all its functions.
  - Clean equipment generally and observe its operation in all its functions.
  - Check amperage reading on cooling / heating - fan only operation and compare to name plate ratings.
  - Check all electrical components and loose connections.

#### **Package Units**

- As a minimum the Contractor will:
  - Check for undue noise, vibration and temperature.
  - Generally clean equipment.
  - Drain and clean equipment of Chilled water expansion tank.
  - Clean interior and exterior of Electrical Panel.
  - Visually inspect all wiring and switch gear of Electrical Panel.
  - Check operation of ramp meters/pilot lights on Electrical Panel.
  - Check electrical connections for tightness in Electrical Panel.
  - Perform safety checks as per selected random test sheet.
  - Check operation of chilled water bypass control and record the chilled water supply. pressure, the chilled water return pressure and the set point in kPa.
  - Check operation of condenser water bypass control and record the condenser water supply temperature, the condenser water return temperature and the set point in °C.
  - Co-ordinate fire alarm interface test.
  - Co-ordinate load shed test.
  - Co-ordinate remote alarm indication test.
  - Leak test refrigerant circuits of multi stack water cooled water chiller.
  - Visually inspect wiring and contactors to multi stack water chiller.
  - Visually inspect oil leaks to multi stack water chiller.
  - Check operation of micro processor control to ensure there are no faults indicated within memory of multi stack water chiller.
  - Generally clean equipment of multi stack water chiller.

- Ensure all unit covers are fitted securely to multi stack water chiller.
- Check efficiency of evaporators to multi stack water chiller.
- Check efficiency of condensers to multi stack water chiller.
- Check operation of condenser and chilled water flow stitches.
- Check operation of LWT safety cut-out.
- Check operation of HP & LP safety cut-outs in multi stack water chiller.
- Check tightness of all electrical connections in multi stack water chiller.
- Check variable speed controller to input fan.
- Clean filter on the air intake box on the extract fan.
- Check oil level and adjust as required to chilled water pump.
- Check mechanical seal for leaks to chilled water pump.
- Clean drip tray and ensure free flow to chilled water pump.
- Check coupling for wear and tightness to chilled water pump.
- Check tightness & security of pump & motor down bolts to chilled water pump.
- Check pump motor electrical connections to chilled water pump.
- Check operation & calibration of discharge flow stitch to chilled water pump.
- Clean water strainer to chilled water pump.
- Clean inline filtration plant strainer to condenser water pump.
- Drain, clean out and refill sump.
- Check operation and set point of ball valve.
- Lubricate fan bearings as required.
- Check condition and clean intake screens as required.
- Ensure all removable cover screws are well lubricated.
- Generally, check corrosion and covering of black epoxy.
- Check condition of the distribution fill.
- Check and clean discharge eliminators.
- Check spray nozzles and clean if required.
- Check fan motor electrical connections.

#### Package Units

- As a minimum the Contractor will:
  - Clean drains and drip trays.
  - Pour water into drip tray and check flow.
  - Check for undue noise, vibration and temp.
  - Check belt drive for wear and tension.
  - Check general condition of evaporator coil.
  - Check general condition of fan blades and scrolls.
  - Grease fan bearing as required.
  - Check operation of duct isolating damper actuator.
  - Check operation of chilled water two way valve.
  - Check operation of duct heater current valves.
  - Generally clean.
  - Check canvass collar for leaks.
  - Check operation of duct heater current valves safety controls.
  - Check and record Filter pressure drop in Pa.
  - Check and record Space Temperature in °C.
  - Check and record Space humidity in %RH.
  - Check and record Space Pressure in Pa.
  - Check humidifier operation.
  - Visually check wiring and contactors.
  - Check digital display and record alarms.
  - Check drain cycle operation.
  - Check condition of steam hoses.
  - Strip and clean boiler.
  - Check water supply piping and strainers and clean.

### **Major Service**

- As a minimum the contractor will:
- Clean filters.
  - Check unit for correct operation.
  - Clean exterior of unit.
  - Clean covers of indoor units.
  - Visually inspect unit for any obvious faults.
  - Chemically clean (wash) condenser and evaporator unit.
  - Clean condenser fan blades.
  - Check condition of condenser and evaporator coils.
  - Check fan operation.
  - Check gas charge – If gas is required this is to be quoted for an approved by service manager.
  - Check for visible gas leaks.
  - Leak test unit.
  - Check oil level and condition of oil if possible.
  - Check and clean out electrics.
  - Check electrical connections.
  - Check compressor efficiency.
  - Check for any undue noise or vibrations.
  - Clean and check condenser drain and drip pans.
  - Lubricate fan bearings where possible.
  - Check heater operation if applicable.
  - Check vee driver where possible.
  - Check operating controls.
  - Check all pressure switches and safety valves for correct functionality.
  - Check operation of all pumps and motors.
  - Check and adjust tension of belts where necessary. Check and perform alignments where necessary.
  - Check and clean all strainers.
  - Check for damaged pipe insulation.
  - Ensure work area is clean and tidy.
  - Replace batteries in all remotes.
  - Record and report any faults. Submit record of service to Service Manager.

### **Window Wall and Console Air Conditioning Units**

- As a minimum the Contractor will:
    - Remove - chemically wash entire unit, including condenser and evaporator coils.
    - Clean return air filter and check media.
    - Oil fan motors where possible.
    - Reassemble, test and re-install.
- Record and report any faults. Submit record of service to Service Manager.

### **All types of Split Room Air Conditioning Units**

- As a minimum the Contractor will:
  - Clean return air filter.
  - Chemically hot wash air cooled condenser coils.
  - Clean condenser fan blades.
  - Check evaporator coil and chemically clean or blow out if necessary.
  - Clean evaporator fan blade and casing if necessary.
  - Check refrigerant charge.

- Leak test unit.
- Check and blow out electric's.
- Check electrical connection.
- Check compressor motor amps.
- Clean and check condenser drain and drip pans.
- Lubricate fan bearings where possible.
- Check heater operation if applicable.
- Check vee driver where applicable.
- Check operating controls.
- Check for damaged pipe insulation.
- Check overall operation of unit.
- Record and report any faults. Submit record of service to Service Manager.

#### All Refrigeration Units

- As a minimum the Contractor will:
  - Chemically hot wash air cooler condenser coils.
  - Clean condenser fan blades.
  - Check condenser fan motors, clean if necessary and oil bearings if possible.
  - Check operator coils and wash if possible.
  - Check evaporator fan motors, clean if necessary and oil bearing if possible.
  - Leak test for refrigeration leaks.
  - Check refrigerant charge.
  - Check and clean electric's tighten terminals.
  - Check correct operation of controls including safety controls.
  - Check compressor where sight glass provided.
  - Check compressor.
  - Check lubricating oil in compressor where sight glass provided.
  - Check DX valve for correct operation.
  - Check door seal and door catch mechanism for correct operation.
  - Check defrost on freezer room, including drain water.
  - Check and clean condensate drain and pan.
  - Report any fault found for further action.
  - Package plant and cooling tower information.

#### Cooling Towers

- As a minimum the Contractor will:
  1. Check fans:
    - a) Shafts
    - b) Bearings
    - c) Fan wheels and blades
    - d) Pulleys
    - e) V-belts
    - f) Vibration
    - g) Dis-alignment
    - h) Distortion
    - i) Direction
  2. Check grid eliminators:
    - a) Condition
    - b) Position
    - c) Direction
  3. Check water level and adjust if necessary
  4. Clean sump and strainers



5. Check bleed - roll (automatic bleed - off system)
6. Check chemical dosing pump
7. Check chemical level and stock
8. Check motor and motor controls
9. Check dampers and dampers controls
10. Check pumps and pumps controls
11. Take water samples and analyse
12. Inspect whole structure for cracks, leaks, distortion and fatigue
13. Check drainpipes and troughs
14. Clean structure
15. Log conditions on logbook

#### Pump for Cooling Towers

- As a minimum the Contractor will:
  - Check pump bearing grease/ oil level and adjust as required.
  - Adjust gland packing for slight drip.
  - Inspect coupling and check adjustment.
  - Check, lubricate motor bearings.
  - Check for tightness and security of pump and motor holding down bolts.
  - Check bearing temperature.
  - Clean pump drain and pipe work.
  - Lubricate isolation valve stems and operate valves.
  - Check, clean and adjust valve glands repack if required.
  - Drain refill pump grease/oil.
  - Clean strainer.
  - Replace the gland packing and check for wear pump shaft sleeve.
  - Record operating parameters.

#### Hideaway Evaporator Units

- As a minimum the Contractor will:
  - Check air filter and clean where necessary. Should the filter be torn or damaged it will be necessary to provide a new filter.
  - Check condition of evaporator oil and clean. Straighten fins with fin comb where necessary.
  - Check condition of condenser oil and clean. Straighten fins with fin comb where necessary.
  - Check condensate drip trays and treat for corrosion if necessary. Ensure unobstructed gravity flow.
  - Check condensate drains ( clear if necessary to prevent water leaks.
  - Check fans to ensure that they are secured to the fan shafts not out of alignment and are free of corrosion, chips, dents etc.
  - Check fan motor(s) to ensure that it (they) is (are) running freely and true and that the bearings shows no sign of wear.
  - Ensure that the baffle plates are secure between in and outlet air.
  - Check Compressor to ensure that it is suspended freely, that all grommets and bushes are in good condition, that the klixton (overload protector) is operating efficiently, that the compressor is operating correctly and that it does not overheat in normal operating conditions.
  - Check thermostat(s)/switches/contactors and the wiring thereto to ensure that all electrical connections are secure and clean.
  - Check refrigerant system for leaks and repair where necessary.
  - Ensure all tubing is clear of other components.
  - Check equipment generally and observe its operation in all its functions.
  - Check amperage readings on cooling/heating fan only operation and compare nameplate ratings.
  - For split units only: The above services (points 1 to 12) plus the following:

- (a) Check and tighten where necessary all refrigerant pipefittings.
- (b) Check head and suction pressures and ensure that these are in accordance with specifications. If not, adjust gas volume to the required head.

#### Condenser Units

- As a minimum the Contractor will:
  - Check condition of condensers and clean.
  - Check condition of condenser fans, covers and hail guards.
  - Check fans bearings, V-belts, pulleys, mountings, fan blades and flexible ducting.
  - Check operation of compressors.
  - Check conditions of compressors mountings and vibro's.
  - Replace all filter core driers.
  - Replace compressor's oil.
  - Test oil samples for acidity and moisture.
  - Test and calibrate L.P. switches (Low Pressure).
  - Test and calibrate H.P. switches (High Pressure).
  - Test and calibrate thermostats.
  - Test and calibrate thermos controllers.
  - Test and calibrate oil pressure switches.
  - Test and calibrate flow switches.
  - Test and calibrate freeze-stats.
  - Test and calibrate overload protection.
  - Check performance.
  - Check performance of electrical components for sound operation.
  - Check electrical control system for active response.
  - Leak detect whole system and repair leaks.
  - Top up charge with same refrigerant.
  - Clean whole structure.

#### Replacement Of New Compressor Procedure

- Check condenser and evaporator coils for corrosion and cleanliness.
- Remove faulty compressor capacitor.
- Test compressor oil for acid and contaminate.  
NB: If compressor oil is contaminated or acidic, system should be flushed if possible, and burn our filter dried fitted in the suction line, evacuated and recharged, running for minimum of 72 hours. Burnt out drier should then be removed and liquid line drier replaced on cooling only units.
- Fit new compressor using springs/ rubbers.
- Fit new compressor capacitor.
- Check all electrical controls and connections.
- Check all wiring for burnt wires and general condition.
- Evacuate system minimum half hour, break vacuum with refrigerant and vacuum again one hour minimum.
- Break vacuum with refrigerant .
- Check for leaks using halide torch or electronic leak detector.
- Recharge system checking amperage and superheat.
- Check for leaks.
- Crimp and weld charging line if possible.
- Check piping and lagging and make sure no pipes are touching chassis or other pipes
- Final checks operation for unit and fan motor/s, bearings etc, check filter.

## REACTIVE MAINTENANCE

- The Contractor to ensure that facilities are in place to enable the Service Manager or his delegate to contact the Contractor in the event of call outs etc.
- When a defect needs to be rectified the Contractor shall submit a quotation within 24 hours for any work deemed as an emergency by the Service Manager
- The Contractor shall be required to provide for supervision, labour, safety requirements, spares, consumables, plant, equipment, transportation to execute the service.

### 1.3. Interpretation and Terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
CNC	Customer Network Centre
OHSACT	Occupational Hygiene and Safety Act
SABS	South African Bureau of Standards
ISO	International Organization for Standardization
SANS	South African National Standards
N/A	Not Applicable

## 2 MANAGEMENT STRATEGY AND START UP

### 2.1 The Contractor's Plan for the Service

The Contractor must submit a plan which stipulates how he intends on performing the service throughout the service period, as required by clause 21.1.

The plan must include the staff structure and list technical reporting and scheduling requirements which are to be incorporated into the Contractor's plan.

### 2.2 Management Meetings

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

Title and purpose	Approximate time & interval	Location	Attendance by:
Overall contract progress/feedback in terms of contract obligations	Monthly intervals or when deemed required by the Service Manager.	Relevant home centre	Employer / Service Manager / relevant Eskom representatives and appointed Contractor representatives.

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 Contractor must include an organogram of the structure that will be supporting with contract. The names, identity numbers, qualifications and experience must be listed.

### 2.4 Provision of Bonds and Guarantees

Not Applicable

### 2.5 Documentation Control

The Contractor to ensure that all documentation relating to this contract is filed and kept on site for viewing by the Service Manager at any time. The Contractor must ensure that all documents are also kept in soft copy and backed up on a hard drive which must be handed to the Service Manager at the end of the contract. Files are to be neatly labelled and indexed.

All correspondence shall be dated and sequentially numbered and distributed in accordance with a procedure as agreed and accepted by the Service Manager.

Any required Service will be communicated to the Contractor via a Task Order.

Feedback questionnaires must be duly completed by Eskom departmental supervisors and managers and forwarded to the Eskom Real Estate Department.

Eskom will periodically request detailed reports from the Contractor regarding the gaps, problems and highlights. Possible solutions will be required with this detailed report.

## **2.6 Invoicing and Payment**

The Contractor provides a statement on the 10th and 25th of every month for the duration of the contract. The statement will reflect the following information on all invoices submitted for payment, from the start of the contract:

Date of Invoice

Date of delivery of Service

Invoice Number

Invoice Amount excluding VAT

PO Number

Task Order Number

GR Number

Payment Status (either Paid or Unpaid)

The statement will also reflect the following summaries:

Invoice payments outstanding <= 30days

Invoice payments outstanding > 30days <=60 days

Invoices payment outstanding > 60days <=90 days

Invoices payment outstanding > 60days <=90 days

Invoices payment outstanding > 90days

Total of Invoices where the Contractor has received payment

Total of Invoices where the Contractor is awaiting 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

ESKOM HOLDINGS SOC Ltd

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;

The Contractor shall comply with the Employer's E-Invoicing process when submitting invoices for payment.

### **2.6.1 Payment Item Descriptions**

The descriptions given for the payment items in the Price List, indicate the work to be allowed for in the tendered rates and prices for such payment items, and are for the guidance of the Contractor and do not necessarily repeat all the details of work and materials required by and described in the Service Information.

### **2.6.2 Prices to be Inclusive**

The Contractor shall accept the payment provided in the Contract and represented by the rates and prices tendered by him in the Price List, as payment in full for executing and completing the work as specified.

Where the Contractor has priced an item as "nil" or "0-00" it will be deemed that no charges are or will be incurred against such an item. In the event of no price having been entered against any item, the tendered rate, price or sum will be taken as "nil" or "0-00".

### **2.6.3 Measurement Meetings**

The Contractor shall attend monthly meetings with the Service Manager and Supervisor where all matters concerning payment shall be discussed. In particular the Contractor shall submit for the meeting a monthly statement together with all calculations and supporting data in substantiation of any payments.

## **2.7 Contract Change Management**

Templates in terms of NEC3 as prepared by the Service Manager for payment certificates, early warnings and defect notifications can only be used in this contract.  
The Contractor shall request these forms from the Service Manager.

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

All records as required to back up any defined costs must be kept on file by the Contractor and be made available when requested by the Service Manager.

## **2.9 Insurance Provided by the Employer**

Refer to Clause 83.1 above – Insurance provided by the Employer

## **2.10 Training Workshops and Technology Transfer**

The Contractor shall provide training for personnel at dates as agreed upon by the Contractor and the Service Manager.

All SHEQ training to be risk based and in accordance with Eskom Procedures and National Regulations  
The Contractor shall ensure that the employees are adequately trained to execute the services required in this contract.

## **2.11 Design and Supply of Equipment**

The Contractor takes full liability for the use of all equipment in the execution of Services for 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**

Summary of all quantity of items supplied by Contractor as per the Price List for the duration of the contract.

Summary of lessons learnt during the contract period.

Summary of training undertaken by the Contractor's employees over the duration of the contract.

Copy of all monthly reports

All Safety Files and all other relevant safety documentation relevant to this contract.

## **2.13 Management of Work Done by Task Order**

The Contractor must only carry out work if he receives a signed Task Order from the Service Manager or his delegates.

**2.14 Low Service Damage Table**

<b>Item</b>	<b>Reference</b>	<b>Amount</b>
Non-compliance by the Contractor to Eskom's Life Saving Rules	Sub-section (1.2) of Section 1 of Employers Service Information	R 1 000 per finding
Non-compliance by the Contractor to Eskom SHE Specification	Sub-section (3.1) of Section 3 of Employers Service Information	R 1 000 per finding
Non-compliance by the Contractor to the OHS ACT and Regulations	Sub-section (1.2) of Section 1 of Employers Service Information	R 1 000 per finding
Contractor does not close out any Audit findings or any other findings related to the service within the corrective action due date	Sub-section (1.2) of Section 1 of Employers Service Information	R 250 per day after the corrective action date per finding, to a maximum of R 10 000
Non-compliance by the Contractor to Eskom Procedures and Policies as per the latest revision	Sub-section (1.2) of Section 1 of Employers Service Information	R 500 per finding
Contractor does not submit manhours	Sub-section (1.2) of Section 1 of Employers Service Information	R 500 per non-submission

### **3 HEALTH AND SAFETY, 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 Contractor shall comply with the health and safety requirements contained in Part 4 – “Safety Requirements” to this Service Information.

#### **3.2 Environmental Constraints and Management**

The Contractor shall comply with the environmental criteria and constraints stated in Part 6 – “Environmental Requirements” to this Service Information.

#### **3.3 Quality Assurance Requirements**

##### **Quality management**

##### **System requirements**

The Contractor shall control his activities and processes in accordance with Eskom’s Quality Assurance Standard QM58: Supplier contractor quality requirements specification.

The Contractor will be responsible for the verification and signing of the quality inspection points which must be maintained by the Contractor and presented to Eskom on request.

##### **Information in the quality plan**

The Contractor shall demonstrate, provide and maintain a Quality Management System (QMS) that is ISO 9001 compliant or provide Quality Policy and Method statement or Contract Quality Plan.

The Contractor agrees to control and professionally preserve and store appropriate documents, records and recordings to guarantee the traceability of the services rendered and inspection thereof;

The delivered services shall be uniform in Quality and condition, consistent with good industry practices and adhere to requested Eskom requirements, without deviation.

Eskom shall have the right to conduct surveys and perform surveillance of the Contractor’s facilities.

Eskom reserves the right to inspect any or all of the work. Verification by Eskom shall not absolve the Contractor of the responsibility to provide acceptable services, nor shall it preclude subsequent rejection.

The services must comply with the agreed specifications and the applicable directives set out in the agreement. Defects notified by Eskom shall be remedied by the Contractor upon demand by Eskom without undue delay and at no extra cost. The Contractor shall continuously monitor and identify non-conformances, relating to the scope of work, as signals of opportunities for improvement making process and other relevant changes to prevent recurrence.

The Contractor shall further identify potential problems before they occur by identifying deviations in patterns or trends in service or process performance.

Nothing contained in the Contract shall relieve in any way the Contractor from the obligation of Quality control thereof.

The Contractor guarantees that the quantity, Quality and outward appearance of the delivered services will comply with the requirements of the contract and/or relevant specifications.

The Contractor shall prove its ability, on request, to relate to the proposed scope of work which establishes the manner in which the Contractor intends to perform the Contract.

The Contractor shall, on request, prove its organisational, logistics and support resources to ensure the requirements of the contract can be achieved.



Eskom reserves the right to assess and measure, in the selection process, the qualifications, capability and competence of the key staff (assigned personnel) in relation to the scope of work and to interview any / all Contractor to confirm the Quality evaluation.

The Contractor shall comply with the environmental criteria and constraints stated in Part 5 – “Quality Requirements” to this Service Information.

## **4 PROCUREMENT**

### **4.1 People**

The Contractor is solely responsible for the resolution of any dispute or problems that may occur between himself and his staff.

The Contractor undertakes to hold the Employer harmless against any determination or award made in terms of the Labour Relations Act No.66 of 1995 as amended.

The Contractor shall ensure that the people that are in employment at the time they take over the contract, are taken over in line with S197 of the Labour Relations Act as per the Constitutional Court ruling. This is applicable to cleaning and gardening staff.

#### **4.1.1 Minimum requirements of people employed**

All of the Contractor's staff must be able to communicate in English.

All of the Contractor's staff must have the necessary qualifications to execute the designated functions

All of the Contractor's staff who are not South African citizens, must have valid work permits.

#### **4.1.2 BBBEE and preferencing scheme**

SANAS accredited BBBEE certificate (certified copy) or valid original sworn affidavit (DTI template, duly completed, dated and signed by both deponent and the commissioner of oaths, and stamped by the commissioner of oaths) for EME/QSE level 1 to 2.

### **4.2 Sub-contracting**

#### **4.2.1 Preferred subcontractors**

No limitation

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

SANAS accredited BBBEE certificate (certified copy) or valid original sworn affidavit (DTI template, duly completed, dated and signed by both the deponent and the commissioner of oaths, and stamped by the commissioner of oaths).

#### **4.2.3 Limitations on subcontracting**

The use of Sub Contractors by the Contractor must be approved in writing by the Service Manager before commencement on site.

#### **4.2.4 Attendance on subcontractors**

This is the sole responsibility of the Contractor.

### **4.3 Plant and Materials**

#### **4.3.1 Specifications**

Not Applicable

#### **4.3.2 Correction of defects**

Not Applicable

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

Not Applicable

**4.3.4 Tests and inspections before delivery**

Not Applicable

**4.3.5 Plant & Materials provided “free issue” by the Employer**

The Employer will not provide any materials for use by the Contractor.

## **5 WORKING ON THE AFFECTED PROPERTY**

### **5.1 Employer's Site Entry and Security Control, Permits, and Site Regulations**

The Contractor and all of his staff shall undergo Eskom induction prior to entering the Affected Property.

#### **5.1.1 Roads and Vehicles**

All vehicles used on site, by the Contractor will be compliant with Eskom Standards.

All road signs and traffic laws / regulations on site will be adhered to. Employees of the Contractor failing to comply will be removed from site and denied any further access.

Drivers of vehicles in the Eskom Property will be required to obtain an Eskom Driver Permit.

#### **5.1.2 Security**

The Contractor's staff will be subject to all security measures, rules and regulations of the Eskom Security Services

Vehicles and staff agree and accept the searching of all staff, bags, briefcases and vehicles.

#### **5.1.3 Access to and Departure from the Site**

Access to all sites will be via the main security gate. The Employer informs the Contractor of the access procedures, and it should be expected that such procedures may change depending on the prevailing security situation.

The Employer reserves the right for its Security personnel to search persons or vehicles entering or leaving the premises. This includes, but is not limited to staff, briefcases, bags and toolboxes.

All persons entering Eskom sites are subjected to alcohol testing.

#### **5.1.4 Temporary Gate Permits**

The Contractor provides the Employer with the personal details of their staff at least two weeks prior to the contract start date. All names and details to be submitted to the Employer who arranges for all gate permits.

If an employee is no longer in the employ of the Contractor, the Contractor shall notify the Employer in advance, and replacements communicated to the Employer as well, whereby they will have to attend induction as well.

The Contractor ensures that all equipment and materials brought through the security gate is signed in at the main security gate on the approved Eskom security form.

#### **5.1.5 Removal**

The Contractor is not allowed to remove any equipment or materials from site without producing the relevant Eskom security forms and the equipment lists.

If the equipment or material is to be removed the same day, on which they were brought on to site, then the security form will need to be produced at the gate when leaving the site.

The removal of any item at a later stage of the contract will require a security form with the necessary approval and responsible manager's signature.

If the equipment or material is removed after this time then a Non-Returnable Gate Release will be provided by the Employer's Representative, on receipt of the original security form, with which the Contractor brought the equipment on site.

### **5.2 People Restrictions, Hours of work, Conduct and Records**

The Contractor is responsible for the provision of meals of his own personnel, and the cost thereof.

The Contractor is responsible for the provision of transportation for all personnel to site, from site and on Site.

The Contractor is responsible for the training and development of his staff whilst employed by the Employer.

The Contractor keeps records of his people working on the Affected Property, including those of his Subcontractors and the Service Manager shall have access to these records at any time.

### **5.3 Health and Safety Facilities on the Affected Property**

Contractor to provide own Emergency preparedness procedure and align to site emergency procedure.

### **5.4 Environmental Controls, Fauna & Flora**

#### **5.4.1 Protection of Flora**

The removal, damage and disturbance of indigenous flora are prohibited.

The use of herbicides is prohibited unless accepted by the Service Manager.

#### **5.4.2 Protection of the Fauna**

The Contractor shall protect fauna living within the Site and shall ensure that hunting, snaring, poisoning, shooting, nest raiding or egg collecting and disturbance does not occur.

The Contractor is to ensure that his employees are instructed not to feed wild animals.

The use of pesticides is prohibited unless accepted by the Service Manager.

No domestic pets or livestock are permitted on site.

### **5.5 Cooperating with and Obtaining Acceptance of Others**

The Contractor will cooperate with the Service Manager, his delegates and support structures, in matters relating to this contract.

The Contractor will cooperate with the management staff of the Affected Property.

The Contractor will cooperate with all statutory authorities or inspection agencies.

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

Prior to starting work on the Affected Site, the Contractor will compile a list of his equipment, either owned or hired, which will be used for the execution of this contract. It should include the make, type, year of manufacture, colour and function or use. This list will be signed off by the Contractor and the Service Manager.

Any electrical equipment or appliances used by the Contractor must comply with all relevant safety regulations and requirements and be maintained in safe and proper working condition.

The Employer has the right to stop the Contractor's use of any electrical equipment or appliance, which in the Employer's opinion does not conform to the foregoing.

### **5.7 Equipment Provided by the Employer**

Prior to starting work on the Affected Site, the Contractor will compile the list of the Employer's equipment which is on site and will be used for the execution of the contract. This list will be signed off by the Contractor and the Service Manager.

All of the Employer's equipment will be returned to the Employer by the Contractor upon termination of the contract.

## **5.8 Site Services and Facilities**

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

Water and Electricity usage

Water and Electricity will be supplied by the Employer and must be used in accordance with the Eskom Environmental objectives.

The Employer will provide a central waste disposal area.

The Employer will provide ablution facilities for use by the Contractor's employees on site.

Offices, Workshops and Stores

The Contractor will make use of the work areas provided by the Employer in pursuit of doing Eskom work. The cleaning and housekeeping of all areas provided is the responsibility of the Contractor.

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

The Contractor shall provide everything else necessary for Providing the Service.

## **5.9 Control of Noise, Dust, Water and Waste**

Comply with the Occupational Health and Safety Act, Act 85 of 1993 and the applicable Regulations relating to noise and dust. The Water Act, Act 54 of 1956 for water and the Waste Act, Act 107 of 1998

Having due regard for local communities and dwellings, the Contractor shall restrict any of his operations which result in undue noise disturbance to those communities and dwellings.

The Contractor shall take appropriate measures to minimise the generation of dust as a result of his works, operations and activities to the satisfaction of the Service Manager.

The management of solid waste on site shall be strictly controlled and monitored. Only accepted waste disposal methods shall be allowed;

Littering shall be avoided;

Domestic waste

Metal refuse bins or equivalent plastic refuse bins, all with lids, shall be provided by the Employer for all buildings. Refuse shall be collected and removed by the Contractor from all facilities on a daily basis to the central waste disposal area.

Organic waste

Refuse from food preparation and eating areas shall be collected and removed daily. Organic Waste shall be disposed of as per Domestic Waste.

Used oil and grease

Used oil and/or grease shall be removed from site and sold to an accepted used oil recycling company.

Hazardous waste

All hazardous waste shall be disposed of in an accepted hazardous waste disposal site and a disposal certificate supplied to the Service Manager.

## **5.10 Hook Ups to Existing Works**

Should the Contractor require interfacing his equipment to the Affected Facility, this will be done at the Contractor's cost based on approval by the Service Manager.

Compliance to the Eskom Life Saving procedure and Work at Height Standard, 32-418.

## **5.11 Tests and Inspections**

- Inspection sheets to be displayed at the required work areas.
- Supervisor to do inspections as per check list, and sign off as verified,
- All check lists and Supervisor reports are to be submitted to the Service Manager timeously.

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

Refer to Employer's requirements for the service above.

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

Not Applicable