



## NEC3 Professional Services Contract (PSC3)

**Contract between Eskom Holdings SOC Ltd  
(Reg No. 2002/015527/30)**

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

**for The provision of critical resources required to  
support the RMDC (Remote Monitoring and  
Diagnostic Centre)**

<b>Contents:</b>	<b>No of pages</b>
<b>Part C1 Agreements &amp; Contract Data</b>	<b>[16]</b>
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**CONTRACT No. [Insert at award stage]**

**PART C1:        AGREEMENTS & CONTRACT DATA**

<b>Document reference</b>	<b>Title</b>	<b>No of pages</b>
<b>C1.1</b>	<b>Form of Offer &amp; Acceptance</b>  [to be inserted from Returnable Documents at award stage]	<b>[3]</b>
<b>C1.2a</b>	<b>Contract Data provided by the <i>Employer</i></b>	<b>[9]</b>
<b>C1.2b</b>	<b>Contract Data provided by the <i>Consultant</i></b>	<b>[2]</b>

## C1.1 Form of Offer & Acceptance

### Offer

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

### **The provision of critical resources required for the support of the RMDC (Remote Monitoring and Diagnostic Centre)**

The tenderer, identified in the Offer signature block, has

<i>either</i>	examined the documents listed in the Tender Data and addenda thereto as listed in the Returnable Schedules, and by submitting this Offer has accepted the Conditions of Tender.
<i>or</i>	examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

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 *Consultant* 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.

The offered total of the Prices exclusive of VAT is	
Value Added Tax @ 15% is	
The offered total of the Prices inclusive of VAT is	
(in words)	

If Option E or G apply, for each offered total insert in brackets, "(Not Applicable – Cost reimbursable)"

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 *Consultant* 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

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)****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 Consultant 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: The Scope

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)

Tebogo Mokhutsane

Capacity

Middle Manager Operating  
Operating and Maintenance CoE  
Generation

**for the  
Employer**

Eskom Holding SOC limited, Generation Division

*(Insert name and address of organisation)*

Name &  
signature of  
witness

Date

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

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)****Schedule of Deviations**

Note:

1. To be completed by the Employer prior to award of contract. 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	N/A	
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

Tebogo Mokhutsane

Name

Middle Manager Operating  
Operating and Maintenance CoE  
Generation

Capacity

Eskom Holding SOC Limited

On behalf  
of*(Insert name and address of organisation)**(Insert name and address of organisation)*Name &  
signature  
of witness

Date

## C1.2 PSC3 Contract Data

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

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option	
		<b>E: Time based contract</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>X9: Transfer of Rights</b>
		<b>X10 <i>Employer's Agent</i></b>
		<b>X11: Termination by the <i>Employer</i></b>
		<b>X18: Limitation of liability</b>
		<b>X20: Key Performance Indicators</b>
		<b>Z: <i>Additional conditions of contract</i></b>
	of the NEC3 Professional Services Contract (April 2013) <sup>1</sup>	
10.1	The <i>Employer</i> is (Name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	013 296 3781
	Fax No.	
11.2(9)	The <i>services</i> are	The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)

<sup>1</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 011 803 3009 and [www.ecs.co.za](http://www.ecs.co.za)

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)**

11.2(10)	The following matters will be included in the Risk Register	Any potential deviation from planned time and cost parameters
11.2(11)	The Scope is in	Part 3: Scope of Work
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	2 weeks
13.6	The <i>period for retention</i> is	3 years following Completion or earlier termination.

**2 The Parties' main responsibilities**

25.2	The <i>Employer</i> provides access to the following persons, places and things	<b>access to</b>	<b>access date</b>
		1 [Eskom Sites, systems and services]	[contract start date]

**3 Time**

31.2	The <i>starting date</i> is.	<b>01 July 2022</b>
11.2(3)	The <i>completion date</i> for the whole of the <i>services</i> is.	<b>30 June 2025</b>
31.1	The <i>Consultant</i> is to submit a first programme for acceptance within	<b>2 Weeks of the Contract Date.</b>
32.2	The <i>Consultant</i> submits revised programmes at intervals no longer than	<b>As and when required</b>

**4 Quality**

40.2	The quality policy statement and quality plan are provided within	<b>2 weeks of the Contract Date</b>
42.2	The <i>defects date</i> is	<b>52 weeks after Completion of the whole of the services.</b>

**5 Payment**

50.1	The <i>assessment interval</i> is	On the 25 <sup>th</sup> – 28 <sup>th</sup> day of each successive month.	
50.3	The <i>expenses</i> stated by the <i>Employer</i> are	Item	Amount
		Prices for service provided to date	
51.1	The period within which payments are made is	4 weeks.	
51.2	The <i>currency of this contract</i> is the	South African Rand	

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)**

51.5	The <i>interest rate</i> is	Zero percent above the publicly quoted prime rate of interest(calculated on a 365 day year) charged from time to time by 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) at the time an amount payable in SA Rand was due.
<b>6</b>	<b>Compensation events</b>	Refer to Z7.1
<b>7</b>	<b>Rights to material</b>	No data required for this section of the conditions of contract
<b>8</b>	<b>Indemnity, insurance and liability</b>	See point 81.2 –Insurance Table A and Insurance Table B
82.1	The <i>Consultant'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	The total of the Prices
<b>9</b>	<b>Termination</b>	Termination 30 calendar days written notice by either party.
<b>10</b>	<b>Data for main Option clause</b>	
<b>E</b>	<b>Time based contract</b>	
21.4	The <i>Consultant</i> prepares forecasts of the total Time Charge and <i>expenses</i> at intervals no longer than	<b>4 Weeks.</b>
<b>11</b>	<b>Data for Option W1</b>	
W1.1	The <i>Adjudicator</i> is	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).
W1.2(3)	The <i>adjudicator nominating body</i> is:	The Chairman of the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering. (See <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ).
W1.4(2)	The <i>tribunal</i> is:	<b>Arbitration</b>
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>South Africa</b>



**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)**

	<p>The person or organisation who will choose an arbitrator</p> <ul style="list-style-type: none"> <li>• if the Parties cannot agree a choice or</li> <li>• if the <i>arbitration procedure</i> does not state who selects an arbitrator, is</li> </ul>	<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 index is	<b>CPA will apply</b>
<b>X2</b>	<b>Changes in the law</b>	
X2.1	The law of the project is	<b>Any law within the Republic of South Africa which applies to the Consultants providing the services</b>
<b>X9</b>	<b>Transfer of rights</b>	<b>All rights belong to the employer</b>
<b>X10</b>	<b>The <i>Employer's Agent</i></b>	
X10.1	<p>The <i>Employer's Agent</i> is</p> <p>Name:</p> <p>Address</p> <p>The authority of the <i>Employer's Agent</i> is</p>	<p><b>Erisha Chetty</b></p> <p><b>RMDC Middelburg offices</b>  <b>Jeppe Street</b>  <b>Middelburg</b>  <b>1050</b></p> <p><b>To carry out all the actions of the employer in this contract with the exception of those required by clauses 81.1</b></p>
<b>X11</b>	<b>Termination by the <i>Employer</i></b>	<b>There is no reference to Contract Data in this Option and terms in italics used in this Option are identified elsewhere in this Contract Data.</b>
<b>X18</b>	<b>Limitation of liability</b>	
X18.1	The <i>Consultant's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to:	<b>R0.00 (Zero Rand)</b>
X18.2	The <i>Consultant's</i> liability to the <i>Employer</i> for Defects that are not found until after the <i>defects date</i> is limited to:	<b>1% of the contract value</b>
X18.3	The <i>end of liability date</i> is	<b>2 months after completion of the whole of the services</b>
<b>X20</b>	<b>Key Performance Indicators (not used when Option X12 also applies)</b>	
X20.1	The <i>incentive schedule</i> for Key Performance Indicators is in	<b>to be defined first week after contract inception</b>
X20.2	A report of performance against each Key Performance Indicator is provided at intervals of	<b>6 months</b>

<b>Z</b>	<b>The Additional conditions of contract are</b>	<b>Z1 to Z12 always apply.</b>
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## **Z1 Cession delegation and assignment**

- Z1.1 The *Consultant* 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 *Consultant* 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 and the Electricity Distribution Industry.

## **Z2 Joint ventures**

- Z2.1 If the *Consultant* 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 *Employer* within two weeks of the Contract Date of the key person who has the authority to bind the *Consultant* on their behalf.
- Z2.3 The *Consultant* 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 *Consultant* in writing.

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

- Z3.1 Where a change in the *Consultant's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Consultant's* B-BBEE status, the *Consultant* notifies the *Employer* within seven days of the change.
- Z3.2 The *Consultant* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Employer* within thirty days of the notification or as otherwise instructed by the *Employer*.
- Z3.3 Where, as a result, the *Consultant's* B-BBEE status has decreased since the Contract Date the *Employer* may either re-negotiate this contract or alternatively, terminate the *Consultant's* obligation to Provide the Services.
- Z3.4 Failure by the *Consultant* 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 those stated in core clause 91. The payment on termination includes a deduction of the forecast of the additional cost to the *Employer* of completing the whole of the *services* in addition to the amounts due in terms of core clause 92.1.

**Z4 Confidentiality**

- Z4.1 The *Consultant* 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 *Consultant*, enters the public domain or to information which was already in the possession of the *Consultant* at the time of disclosure (evidenced by written records in existence at that time). Should the *Consultant* disclose information to Others in terms of clause 23.1, the *Consultant* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Consultant* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Employer*.
- Z4.3 In the event that the *Consultant* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Consultant*, 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 *Consultant* 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 *Employer's* project works or any portion thereof, in the course of Providing the Services and after Completion, requires the prior written consent of the *Employer*. All rights in and to all such images vests exclusively in the *Employer*.

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

- Z6.1 The *Consultant* (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.

**Z7 Notifying compensation events**

- Z7.1 Delete from the last sentence in core clause 61.3, "unless the *Employer* should have notified the event to the *Consultant* but did not".

**Z8 Employer's limitation of liability**

- Z8.1 The *Employer's* liability to the *Consultant* for the *Consultant's* indirect or consequential loss is limited to R0.00 (zero Rand)

**Z9 Termination: Add to core clause 90.1, at the second main bullet point, fourth sub-bullet point, after the words "against it":**

- Z9.1 or had a business rescue order granted against it.

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)****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 *Consultant* or a third party, such party's employees, agents, or Subconsultants or Subconsultant's employees, or any one or more of all of these parties' relatives or friends,

**Coercive Action** means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,

**Collusive Action** means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,

**Committing Party** means, as the context requires, the *Consultant*, or any member thereof in the case of a joint venture, or its employees, agents, or Subconsultants or the Subconsultant's employees,

**Corrupt Action** 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,

**Fraudulent Action** 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,

**Obstructive Action** 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

**Prohibited Action** 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 *Consultant's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Consultant* 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 *Consultant's* obligation to Provide the Services for this reason.

Z11.3 If the *Employer* terminates the *Consultant'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 *Consultant* ensures that the Committing Party co-operates fully with an investigation.

**Z12 Insurance**

Z12.1 Replace core clause 81 with the following:

81.1 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.

81.2 The *Consultant* 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.

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)****INSURANCE TABLE A**

<b>Insurance against</b>	<b>Minimum amount of cover</b>	<b>For the period following Completion of the whole of the services or earlier termination</b>
Liability of the <i>Consultant</i> for claims made against him arising out of his failure to use the skill and care normally used by professionals providing services similar to the <i>services</i>	Whatever the <i>Consultant</i> deems necessary in respect of each claim, without limit to the number of claims	Contract start and end date or earlier termination
Liability for death of or bodily injury to a person (not an employee of the <i>Consultant</i> ) or loss of or damage to property resulting from an action or failure to take action by the <i>Consultant</i>	<p><b><u>Loss of or damage to property:</u></b> Whatever the <i>Consultant</i> deems necessary in respect of each claim, without limit to the number of claims</p> <p><b><u>Bodily injury to or death of a person:</u></b> Whatever the <i>Consultant</i> deems necessary in respect of each claim, without limit to the number of claims</p>	Contract start and end date or earlier termination
Liability for death of or bodily injury to employees of the <i>Consultant</i> arising out of and in the course of their employment in connection with this contract	As prescribed by the Compensation for Occupational Injuries and diseases Act No.130 of 1993 and the <i>Consultant's</i> common law liability for people falling outside the scope of the Act with a limit of indemnity of not less than R500 000-00( five hundred thousand) in respect of each claim, without limit to the number of claims.	Contract start and end date or earlier termination

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

81.3

**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

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)**

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

## C1.2 Contract Data

### Part two - Data provided by the *Consultant*

[Instructions to the tendering consultant: (delete these notes in the final draft of a contract)]

1. The tendering consultant is advised to read both the NEC3 Professional Services Contract, April 2013 and the relevant parts of its Guidance Notes (PSC3-GN)<sup>2</sup> in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on pages 158 & 159 of the PSC3 April 2013 Guidance Notes.
2. The number of the clause in the PSC3 which requires the data is shown in the left hand column for each statement however other clauses may also use the same data.
3. Whenever a cell is shaded in the left hand column it denotes this data is optional in PSC3 and would be required in relation to the option selected. The *Employer* should already have made the selection and deleted the rows not required.

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

Clause	Statement	Data
10.1	The <i>Consultant</i> is (Name): Address Tel No. Fax No.	
22.1	The <i>key people</i> are: 1 Name: Job: Responsibilities: Qualifications: Experience: 2 Name: Job Responsibilities: Qualifications: Experience:	
Only if required		
11.2(3)	The <i>completion date</i> for the whole of the services is	30 June 2025
11.2(10)	The following matters will be included in the Risk Register	

<sup>2</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 011 803 3009 or [www.ecs.co.za](http://www.ecs.co.za)

**The provision of critical resources required to support the RMDC (Remote Monitoring and Diagnostic Centre)**

11.2(13)	The <i>staff rates</i> are:	Refer to Part C2.2		
	Either complete here or cross refer to a schedule in Part C2.2			
25.2	The <i>Employer</i> provides access to the following persons, places and things	access to		<i>access date</i>
		1	All relevant Eskom Sites	01 July 2022
		2	Required Eskom software programs and services	01 July 2022
		3	Eskom unique number	01 July 2022
		4	Fully equipped offices	01 July 2022
31.1	The programme identified in the Contract Data is			
50.3	The <i>expenses</i> stated by the <i>Consultant</i> are	Item		Amount



PART 2: PRICING DATA

PSC3 Option E

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option E	1
C2.2	<i>Staff rates and expenses</i>	1

## C2.1 Pricing assumptions: Option E

### How work is priced and assessed for payment

From Option E:

Identified and defined terms	11	
	11.2	(16) The Price for Services Provided to Date is the Time Charge for the work which has been completed.

(19) The Prices are the Time Charge.

From the core clauses:

Identified and defined terms	11.2	(13) The Time Charge is the sum of the products of each of the <i>staff rates</i> multiplied by the total staff time appropriate to that rate properly spent on work in this contract.
------------------------------	------	--

and

Assessing the amount due	50.3	<p>The amount due is</p> <ul style="list-style-type: none"> <li>• the Price for Services Provided to Date,</li> <li>• the amount of the <i>expenses</i> properly spent by the <i>Consultant</i> in Providing the Services and</li> <li>• other amounts to be paid to the <i>Consultant</i> less amounts to be paid by or retained from the <i>Consultant</i>.</li> </ul>
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Any tax which the law requires the *Employer* to pay to the *Consultant* is included in the amount due.

### Staff rates and expenses

Tendering consultants are advised to consult the NEC3 Professional Services Contract Guidance Notes before entering *staff rates* into Contract Data, or in C2.2 below.

This is because *staff rates* can be established in one of three ways:

- rates for named staff,
- rates for categories of staff or
- rates related to salaries paid to staff.

Rate adjustment for inflation, if necessary, can be based either on actual salary adjustments or by using Option X1: Price adjustment for inflation. See pages 13 and 14 of the PSC3 Guidance Notes.

*Expenses* associated with employing a staff member in Providing the Services are listed separately either by the *Employer* in Contract Data provided by the *Employer* or by the *Consultant* in Contract Data provided by the *Consultant*. As only the *expenses* listed may be claimed by the *Consultant*, all other cost to the *Consultant* associated with Providing the Services must be included within the *staff rates*.

Rate adjustment for inflation of *expenses* is explained on page 15 of the Guidance Notes.

## C2.2 Staff rates and expenses

This section can be used when the *staff rates* and *expenses* are considerable in number and more conveniently located here than in the Contract Data. Entries in the Contract Data should refer to this section of Part 2.

Remember to state whether the *staff rates* and *expenses* exclude or include VAT.

### The *staff rates* are:

No.	Designation (or category) or name of staff member	Rate per {hour, day, month} excluding VAT
1	Condition Monitoring/Technical Support service	
2	Condition Monitoring/Technical Support service	
3	Production Support Service	
4	Commissioning Support service	
5	Technical and Prism Support service	
6	HMI (Human Machine Interphase) and OT/IT (Operating Technology and Information Technology)	

### The *expenses* are:

No.	Expense item	Amount / rate excluding VAT
7	Shift allowance	Hourly Rate * 15%
8	Accommodation	Rate/night
9	Travel	Rate/km
10	Overtime	Rate

## PART 3: SCOPE OF WORK

Document reference	Title	No of pages
	This cover page	1
C3.1	<i>Employer's Scope</i>	11
C3.2	<i>Consultant's Scope</i>	1
	Total number of pages	13

## C3.1: EMPLOYER'S SCOPE

### C3.1: *Employer Scope of Work*

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C3.1: *Employer Scope of Work* iii

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## The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)

### 1 Description of the services

#### 2 Executive overview

The purpose of this contract is to acquire services with regards to Condition Monitoring/Technical Support, Commissioning, Production, HMI design and implementation, and Technical and Prism support for the RMDC (Remote Monitoring and Diagnostic Centre) in the Eskom Middelburg offices. In total, the number of resources required is 6. This Service will commence in March 2022 for a period of 3 (three) years which will be annually reviewed on an if-and-when required basis. The contractor will be informed three months before if the contract will be renewed or not. To provide the required service the following is required:

1.1.1 Two Condition Monitoring/Technical Support service with minimum requirements N6-National Technical Diploma and five years power plant experience.

1.1.2 One Production Support service with minimum requirements N6 -National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification experience

1.1.3 One Commissioning Support service with minimum requirements N6- National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification commissioning experience

1.1.4 One Technical and Prism Support service with minimum requirements N6-National Technical Diploma and five years power plant experience

1.1.5 One HMI (Human Machine Interphase) and OT/IT (Operating Technology and Information Technology) Support with minimum requirements National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification HMI design and PI Process Book experience

### 3 Interpretation and terminology

The following abbreviations are used in this Scope:

Abbreviation	Meaning given to the abbreviation
ECSA	Engineering Council of South Africa
OU	Operating Unit
RMDC	Remote Monitoring and Diagnostic Centre
PSR	Plant Safety Regulations
PFFR	Pulverized Fuel Firing Regulation
ORHVS	Operating Regulation for High Voltage system
INO	Initial Notification of Occurrence
UCLF	Unplanned Capability Loss Factor
RTS	Return to Service
EIT	Engineer in Training
CRA	Concept Release Approval
DRA	Design Release Approval
ERA	Execution Release Approval
HMI	Human Machine Interface
LOPP	Life Of Plant Plan
SOW	Scope of Work
PM	Plant Maintenance

**The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

NQF	National Qualification Framework
EPPEI	Eskom Power Plant Engineering Institute
NOx	Nitrogen Oxide
EtaPRO	Online Heat Rate Monitoring
OSIsoft	Data Historian Service Provider
PI Processes Book,	Data Display and Retrieval
AF Alarming	PI Alarming Engine
SVG	Scalable Vector Graphics
PRISM	Online Condition Monitoring
STEP	Station Thermal Efficiency Program
OT	Operational Technology
IT	Information Technology
w.r.t.	With respect to
PF	Pulverised Fuel

#### 4 Specification and description of the services

##### 5 Two Condition Monitoring/Technical Support service to RMDC Middelburg (minimum requirements National Diploma Technical and five years' after qualification technical support experience)

The Advisor station support Service Scope of Work shall encompass the following deliverables:

###### ENSURE REAL TIME HEAT RATE AND CONDITION MONITORING

- Ensuring that Heat Rate and Condition Monitoring is established across multiple stations
- Ensuring that good Remote Monitoring Principles are adhered to.
- Advising the stations on corrective actions to increase reliability where the plant is operating out of norm and drive these actions through relevant and appropriate platforms.
- Ensuring that all relevant modules are established within the RMDC to realise the full potential of the Heat Rate and Condition Monitoring packages
- Advising stations on corrective actions to increase efficiency where plant is operating out of norm.
- Advising stations on Long Term Plant damage which may occur if design specifications are exceeded.
- Designing effective Heat Rate and Condition Monitoring modules to ensure increased efficiencies together with predictive monitoring capability.

###### REVIEW CRITICAL PLANT OPERATIONS, PHILOSOPHIES AND DEVELOP EFFECTIVE WORKS METHOD WHERE DEFICIENCIES OCCUR BY:

- Checking that all plant parameters conform to set operating standards
- Advising of safe operating parameters in accordance with Heat Rate and Condition Monitoring analysis.
- Monitoring all major plant during commissioning and advising engineering and production on acceptance. Compiling and issuing recommendations to correct any deviations as required and documented accordingly.
- Station Alarm monitoring and mitigations put in place to eliminate risks.

###### ASSISTING WITH TRIP REDUCTION AND ROOT CAUSE ANALYSIS BY:

## **The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

- Making recommendations with regard to resolutions to prevent re-occurrence of incidents by making use of RMDC root cause analysis report.
- Trip Reduction Support reports are compiled and updated and the station trip reduction forums attended to further assist and advise the station.
- Making use of Trend Design to determine Direct Cause, Root Cause and Sub Causes of each significant load loss.

### **ENSURING LTPH (LONG TERM PLANT HEALTH) LIFE CYCLE BY:**

- Advising on corrective actions to rectify long term plant health parameters that have been exceeded.
- Monitoring Life Time Plant health indicators with predictive monitoring capability within the RMDC
- Liaising with the relevant specialist or platforms to create awareness of any LTPH indicators that are exceeded on a real time basis.

## **6 Production Support services to RMDC Middelburg (minimum requirements National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification experience)**

The Production Service *Scope of Work* shall encompass the following deliverables:

- Remote monitoring of all power Stations
- Advise stations to reduce or mitigate risks of any abnormal operating parameters
- Analyse results from predictive monitoring equipment and advise Operating, Engineering and Maintenance at stations as to any operating risks
- Alert power stations if any Plant Safety Regulations (PSR), Pulverized Fuel Firing Regulation (PFFR), and Operating Regulation for High Voltage system, ORHVS are operated out of norm
- Assist stations with plant operational trouble shooting
- Compile INO for all major UCLF and Trip incidents identified in the RMDC
- Advise as to best practice/methods of start-up of RTS plant during light-up and other conditions
- Monitor and advice on capability testing to ensure safe and reliable unit operations by production during capability testing
- Assist production departments by giving early warning of any risks on any plant before synchronization
- Perform normal Operating routines such as shift logs, shift handover reports, shift communication and other shift responsibilities
- Produce business requirements, weekly and monthly report documents

## **7 Commissioning Support service to RMDC Middelburg (minimum requirements National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification commissioning experience)**

The Commissioning Service *Scope of Work* shall encompass the following deliverables:

- Design critical pre and post outage performance parameters
- Analyse and advise on achieving successful capability testing
- Review commissioning scope of work including inputs from relevant departments
- Transfer of personal technical skills, knowhow, information and experience to trainee engineers, operating, and technical personnel in order to improve the organizations technical knowledge base
- Advise and assist with commissioning after any Design, Systems interfaces and Control Philosophy changes
- Interfaces with the Discipline Engineers to share ideas, reasons, etc. on improving engineering capability pre and post outage
- Advise as to the alignment of the commissioning programme with project and production plan
- Assist the outage and construction manager with commissioning and hand-over of plant
- Reviews and witnesses that tests are being executed according to commissioning procedures
- Evaluates pre-commissioning status before commissioning activities of plant commences



## **The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

- Provide Engineering proposals, and alternative methods to optimise project plans towards achieving the project due dates.

### **8 Technical and Prism Support service (minimum requirements National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification experience)**

*The Condition Monitoring Service Scope of Work shall encompass the following:*

- Implementation of PRISM model as per defined scope
  - Create/Review Point List
  - Create Templates
  - Build Models
  - Test Models
  - Fine Tune Models
  - Create Annunciator Panels or watch lists
- Conduct Alarm Analysis and Management
  - Review PRISM alarms
  - Retrain models or flag potential issues
  - Use RMDC systems to track and report issues to RMDC technical advisors.
  - Create log entry or assistance entry to track each case
- Reporting
  - Create weekly/monthly reports
  - Provide Assistance, Support and User Training to RMDC personnel when required
  - Fault Reporting
  - Track and report should signals or systems not being updating or in service.

### **9 HMI Advisor (Human Machine Interphase) and OT/IT (Operating Technology and Information Technology) Support with minimum requirements National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification HMI design and PI Process Book experience**

*The HMI design Service Scope of Work shall encompass the following deliverables:*

- Design and implement HMI interface graphics for RMDC (Remote Monitoring and Diagnostic Centre) the IGCC, Engineering and Power Stations as required
- Develop monitoring models for RMDC
- Develop specialized screens as requested by the power station and approved by RMDC management
- Development of calculations and performance equations as needed or requested by RMDC technical support department.
- PI Process Book design and implementation
- Leading role w.r.t. OT and IT integration in RMDC
- Manage OSIsoft and PI security and system administration
- Alarming support within PI Process book for all developed screens
- Generate reports as required with regards to OT/IT signal integrity
- Resolving Signal integrity. Signal unreliability or unavailability is a major risk to the operations within the RMDC and IGCC
- Provide Pi admin and development Training to RMDC and Station staff

## **10 Stage 2 Concept**

### **Specific Service Deliverables**

**Past experience shows that the service is typically but not exclusively delivered by:**

## The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)

Two Condition Monitoring/Technical Support service with minimum requirements N6-National Technical Diploma and five years power plant experience.

One Production Support service with minimum requirements N6 -National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification experience

One Commissioning Support service with minimum requirements N6- National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification commissioning experience

One Technical and Prism Support service with minimum requirements N6-National Technical Diploma and five years power plant experience.

One HMI (Human Machine Interphase) and OT/IT (Operating Technology and Information Technology) support service with minimum requirements N6-National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification HMI design and PI Process Book

Note:

1. An hourly rate per resource type for services 1 – 6 is required.
2. Not all services will be required for the full 3 year contract period –see point **3.2 Consultant's Key Persons**
3. Eskom will require CV's and proof of qualifications and experience within the power station environment. (Individuals with past Eskom experience is preferred)
4. Eskom will attend interviews if it might be required.

**Shift allowance of 15% should be indicated separately and will be applicable to the Remote Monitoring 24/7 shift worker only.**

### Overtime:

Overtime is applicable at a flat rate and only in emergency circumstances. The contractor resources to adequately comply with the basic conditions of employment act with regards to working times and rest period for the duration prescribed by the task orders.

### Accommodation:

It will be required to travel and "sleep out" from time to time. A living out rate is required as per Pricing Data

### Traveling:

There will traveling required and a travel rate per kilometer is required as indicated in Pricing Data

## 11 Constraints on how the *Consultant* Provides the Services.

### 12 Management meetings

Regular meetings of a general nature may be convened and chaired by the *Employer's Agent* as follows:

Meetings of a specialist nature may be convened as specified elsewhere in this Scope or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *services*. Records of these meetings shall be submitted to the *Employer's Agent* 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.

The following table below is such meetings that can occur but not limited to:

Title and purpose	Approximate time & interval	Location	Attendance by:
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**The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

Team Meetings	Three days a week as long as Covid 19 lock down restrictions in place or as when required	MS Team or RMDC board room TBA	Employer, Contractor and designated representative
Safety Meeting	Monthly	MS Team or RMDC board room TBA	Employer, Contractor and designated representative
Risk register and compensation events	As and when required	MS Team or RMDC board room TBA	Employer, Contractor and designated representative
Work Stoppages	As and when required	MS Team or RMDC board room TBA	Employer, Contractor and designated representative
Overall contract progress and feedback	As and when required	MS Team or RMDC board room TBA	Employer, Contractor and designated representative
Assessment, KPI's and monthly RMDC performance	As and when required	MS Team or RMDC board room TBA	Employer, Contractor and designated representative

**13 Consultant's key persons**

	<b>Required Core Crew and Temporary team on an as and when required basis</b>				
<b>Designation</b>	Two Condition Monitoring/ Technical Support service	One Production Support Service	Commissioning Support Service	Technical and Prism Support service	Advisor HMI (Human Machine Interphase)
<b>Number of</b>	two	one	one	one	one
<b>Special requirement</b>	Full-time on site	Full-time on site	Full Time on site	Full-time on site	Full-time on site
<b>Qualifications</b>	N6-National Technical Diploma and five years power plant experience.	N6 -National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification experience	N6- National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification commissioning experience	N6-National Technical Diploma and five years power plant experience	N6-National Diploma Technical / NQF 5 (Fossil Power Plant Process Control) and five years' after qualification HMI design and PI Process Book
<b>Experience</b>	Minimum of 5 years of Related Experience	Minimum of 5 years of Related Experience	Minimum 5 years' after qualification commissioning experience	Minimum of 5 years' after qualification related experience	Minimum 5 five years' after qualification HMI design and PI Process Book related experience

**14 Strike and Industrial Action**

The *Contractor* ensures that the contracted service is performed regardless of strike and industrial action.

**15 Police clearance**

- A) All *Contractor* personnel to undertake Police clearance. Certificates to be provided to the services manager before work commence.

**The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

- B) The *Service Manager* reserves the right to refuse entry to all persons whose criminal records indicate that their presence on site might create an unsafe and insecure environment to Kendal Power Station.
- C) The following website can be used to guide the process.  
[http://www.saps.gov.za/services/applying\\_clearance\\_certificate.php](http://www.saps.gov.za/services/applying_clearance_certificate.php)

**16 Provision of bonds and guarantees**

The form in which a bond or guarantee required by the *conditions of contract* (if any) is to be provided by the *Consultant* is given in Part 1 Agreements and Contract Data, document C1.3, Sureties.

The *Employer* may withhold payment of amounts due to the *Consultant* until the bond or guarantee required in terms of this contract has been received and accepted by the person notified to the *Consultant* by the *Employer's Agent* to receive and accept such bond or guarantee. Such withholding of payment due to the *Consultant* does not affect the *Employer's* right to termination stated in this contract.

**17 Documentation control and retention****18 Identification and communication**

All communications from the *Consultant* carry the contract number and title and is numbered sequentially on the basis of the communication source. The Employer responds in likely manner, numbering communications.

Note: All correspondence headings include:

- RMDC
- The Contract or order description
- The Employer's contract or order number
- The correspondence subject matter

**19 Retention of documents**

Clause 13.6 states that the *Consultant* retains copies of drawings, specifications, reports and other documents which record the *services* in the form stated in the Scope. Note the time period for which the *Consultant* is to retain such documents is the *period for retention* stated in the Contract Data.

**20 Records and forecasting of the Time Charge**

The consultant keeps records of each and every component, including the salaries of the people they are employing.

**21 Invoicing and payment**

Clause 50.2 states invoices submitted by the *Consultant* include the details stated in the Scope to show how the amount due has been assessed. Also state what must be shown on the Invoice. The following text is suggested.

The following details shall be shown on or attached to each invoice to show how the amount due has been assessed:

The *Consultant* shall address the tax invoice to:

Eskom Holdings Ltd (Find Out)

Remote Monitoring & Diagnostic Centre (RMDC)

RMDC Offices Corner of Jeppe and Verdoorn Street Middelburg, Mpumalanga  
Middleburg

The following information will be included on each invoice:

- Name and address of the *Consultant* and the *Employer's Agent*;
- The contract number and title;
- *Consultant's* VAT registration number;
- The *Employer's* VAT registration number 4740101508;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;

**The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

- (add other as required)

All invoices are to be submitted to the *Employer's Agent*.

Payment will be made electronically 30 days after assessment and receipt of a valid invoice.

If Cost Price Adjustment implementation (CPA) is applicable, the *Employer's Agent* and the *Consultant* must confirm the increase/decrease with the QS (Quantity Survey) department BEFORE the revised prices are stated on the Invoice. The QS and *Employer's Agent* must confirm the escalation with the Financial Department before it may be implemented.

NB: If there is CPA indicate in the invoices should always be separate to effect payments while CPA calculations are being concluded.

**3.6.1 Invoice price versus order price**

It is important that the value stated on the Invoice must be the same as the value stated on the Task Order and contract. If the Invoice value is different from the Order or contract, payment of the invoice will be delayed. It is strongly recommended that if there are any discrepancies on the Invoice, it be rectified between the *Consultant* and the *Employer's Agent* before it is submitted for payment.

**22 Inclusions in the programme**

The *Consultant* provides a programme for specific tasks given to him as requested by the Employer. The *Consultant* is required to attend interface meetings with others to establish possession and sectional Completion dates for those items as detailed in the task order.

**23 Quality management****24 System requirements**

The *Consultant* to provide a quality statement and quality plan, which complies with requirements, stated in the QM-58.

**25 The Parties use of material provided by the *Consultant*****26 *Employer's* purpose for the material**

Clause 70.1 states that the *Employer* has the right to use the material provided by the *Consultant* for the purpose stated in the Scope.

**27 Transfer of rights if Option X 9 applies**

Refer to option X9

**28 Health and safety**

The *Consultant* shall at all times comply with the health and safety requirements prescribed by law as they may apply to the *services*.

The *Consultant* may be required to work on Eskom premises, such as a power station, where health and safety requirements additional to those prescribed by law apply, the consultant shall comply with the health and the safety requirements contained in the Contractor health and Safety Requirements 32-136. The contractor complies with the occupational Health and Safety Act and Regulations, 1993 and all regulations made there under as well as the Employers Safety and operating procedures. Other than the above mentioned consultant is to complete Construction Regulation 37(2)

**29 Procurement****30 BBBEE and preferencing scheme**

BBBEE status will be part of weighted tender evaluation process prior to contract award.

**The provision of critical resources required to support for the RMDC (Remote Monitoring and Diagnostic Centre)**

**31 Correction of Defects**

Refer to clause 41.2

**32 Working on the *Employer's* property**

Refer Contractor Health and Safety Requirements 32-136

**33 Cooperating with and obtaining acceptance of Others**

- 1) Refer clause 23.1 for cooperation with others and refer to 11.2(7) for the definition of others.
- 2) Requirements for liaison with and acceptance from statutory authorities or inspection agencies

**34 Things provided by the *Employer***

Provide details of any facilities and equipment made available by the *Employer* for the *Consultant's* use during performance of the *services*. State any conditions relating thereto.

Facilities supplied by <i>Employer</i>	Description
Access	It is critical that access is provided by the <i>employer</i> to all relevant areas. Furnished offices for use by the consultant are supplied by the <i>employer</i> . Access to Eskom outlook, Intranet and internet.
Communication Infrastructure	The ability to maintain on-going contact with the consultant and employer's teams during working hours is imperative to successful coordination of the project activities. For this to occur in a cost effective manner, the availability of a telephone, fax and e-mail is supplied by the employer.
Consumables	All consumables in line with providing the service on site

**35 List of drawings**

**36 Drawings issued by the *Employer***

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

Drawing number	Revision	Title
N/A		