

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.



NEC3 Engineering & Construction Contract

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

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

for Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

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CONTRACT No.

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

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:

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years

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

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

Options B	The offered total of the Prices exclusive of VAT is	as per Rates – see Pricelist
	Sub total	as per Rates – see Pricelist
	Value Added Tax @ 15% is	as per Rates – see Pricelist
	The offered total of the amount due inclusive of VAT is ¹	
	(in words) as per Rates – see Pricelist	

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 (if applicable)

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

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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: Works Information
- Part C4 Site 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 original copy signed between them of this document, including the Schedule of Deviations (if any).

Unless the tenderer (now *Contractor*) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

Signature(s)

Name(s)

Capacity

for the Employer

(Insert name and address of organisation)

Name & signature of witness

Date

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

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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	<i>(Insert name and address of organisation)</i>	<i>(Insert name and address of organisation)</i>
Name & signature of witness		
Date		

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C1.2 ECC3 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	General	
	<p>The <i>conditions of contract</i> are the core clauses and the clauses for main Option</p> <p>dispute resolution Option and secondary Options</p> <p>of the NEC3 Engineering and Construction Contract, April 2013 (ECC3)</p>	<p>B: Priced contract with bill of quantities</p> <p>W1: Dispute resolution procedure</p> <p>X1: Price adjustment for inflation</p> <p>X2 Changes in the law</p> <p>X7: Delay damages</p> <p>X16: Retention</p> <p>X18: Limitation of liability</p> <p>Z: Additional conditions of contract</p>
10.1	<p>The <i>Employer</i> is (Name):</p> <p>Address</p>	<p>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</p> <p>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</p>
10.1	<p>The <i>Project Manager</i> is: (Name)</p> <p>Address</p> <p>Tel</p> <p>Fax</p> <p>e-mail</p>	<p>Ahilan Kailasanathan</p> <p>PO Box 222, Brackenfell 7560</p> <p>021 980 3362</p> <p>N/A</p> <p>kailasa@eskom.co.za</p>
10.1	<p>The <i>Supervisor</i> is: (Name)</p> <p>Address</p> <p>Tel No.</p> <p>Fax No.</p>	<p>To be delegated at task order stage</p>

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e-mail

11.2(13)	The works are	<ul style="list-style-type: none"> To accelerate the rollout of smart technologies that can assist with the reduction of load shedding, the Western Cape requires the following services detailed under Works Information SOW (Part C3). The following scope is covered in the Provision of Meter Reading Services in the Cape Coastal Cluster: <ul style="list-style-type: none"> Meter Reading activities Meter Auditing activities, and Data Collection
11.2(14)	The following matters will be included in the Risk Register	To be prepared when issuing Works/Purchase Order, Site Specific
11.2(15)	The boundaries of the site are	<u>To be prepared when issuing Works/Purchase Order, Site Specific</u> The specific site to be indicated per works order
11.2(16)	The Site Information is in	<u>Part 4: Site Information (Will be site specific when issuing works/purchase order, site Specific)</u>
11.2(19)	The Works Information is in	<u>Part 3: Scope of Work and all documents and drawings to which it makes reference. (Will be site specific when issuing works/purchase order, site specific).</u>
12.2	The law of the contract is the law of	the Republic of South Africa
13.1	The language of this contract is	English
13.3	The period for reply is	2 working days
2	The Contractor's main responsibilities	Data required by this section of the core clauses is provided by the Contractor in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.
3	Time	
11.2(3)	The completion date for the whole of the works is	<u>As per Task Order (actual contract completion date???)</u>
11.2(9)	The key dates and the conditions to be met are:	To be confirmed when issuing Task/Purchase Order
30.1	The access dates are:	<u>Part of the Site</u> <u>Date</u> To be confirmed when issuing Works/Purchase Order
31.1	The Contractor is to submit a first programme for acceptance within	To be confirmed when issuing Works/Purchase Order, Site Specific
31.2	The starting date is	

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32.2 The *Contractor* submits revised programmes at intervals no longer than **2 weeks.**

35.1 The *Employer* is not willing to take over the *works* before the Completion Date. *[No data needed if this statement is included]*

4 Testing and Defects

42.2 The *defects date* is **52 weeks after Completion of the whole of the works.**

43.2 The *defect correction period* is **2 weeks**

5 Payment

50.1 The *assessment interval* is **between the 25th day of each successive month or as agreed with Projects Manager (per works/purchase order)**

51.1 The *currency of this contract* is the **South African Rand.**

51.2 The period within which payments are made is **As per Eskom payment terms listed against the vendor on the Eskom database.**

51.4 The *interest rate* is **the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and**

(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted *mutatis mutandis* every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.

6 Compensation events

60.1(13) The place where weather is to be recorded is: **Western Cape Province (Specific site to be confirmed when issuing Works/Purchase Order)**

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The *weather measurements* to be recorded for each calendar month are, **the cumulative rainfall (mm)**
the number of days with rainfall more than 20 mm
the number of days with minimum air temperature less than 0 degrees Celsius
the number of days with snow lying at 09:00 hours South African Time
and these measurements:

The *weather measurements* are supplied by **South African Weather Bureau**

The *weather data* are the records of past *weather measurements* for each calendar month which were recorded at: **As specified South African Weather Bureau**

and which are available from: **the South African Weather Bureau and included in Annexure A to this Contract Data provided by the Employer**

60.1(13)	Assumed values for the ten-year return <i>weather data</i> for each <i>weather measurement</i> for each calendar month are:	As stated in Annexure A to this Contract Data provided by the Employer. Note: If this arrangement is used, delete the rows above for 60.1(13) and delete this note.
7	Title	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	1. Refer to "Typical Risks" attached
9	Termination	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
10	Data for main Option clause	
B	Priced contract with bill of quantities	
60.6	The <i>method of measurement</i> is	Standard System of Measuring Builders Work (Sixth Edition Amended), Civil Engineering Standard Method of Measurement (Third Edition) and SANS, amended as stated in Part C2.1, Pricing Assumptions.
11	Data for Option W1	
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 www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the

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		Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
Address		[•]
Tel No.		[•]
Fax No.		[•]
e-mail		[•]
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 London Institution of Civil Engineers. (See www.ice-sa.org.za) 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	Within South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.
	- if the arbitration procedure does not state who selects an arbitrator, is	

12 Data for secondary Option clauses

X1	Price adjustment for inflation	
X1.1(a)	The <i>base date</i> for indices is	10 Feb 2025
X1.1(c)	The proportions used to calculate the Price Adjustment Factor are:	<p>The price will be fixed and firm for the first 12 months and thereafter be escalated as follows:</p> <p>Labour rates 60% in the Pricing Data will be adjusted as per SEIFSA TABLE C3. Transport rates 25% in the Pricing Data will be adjusted as per SEIFSA TABLE L1. Fixed portion will be 15% in the pricing data.</p>
X2	Changes in the law	South African law
X7	Delay damages (but not if Option X5 is also used)	R25000 per day
X7.1	Delay damages for Completion of the whole of the <i>works</i> are	To be confirmed when issuing Works/Purchase Order
X16	Retention (not used with Option F)	

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X16.1	<p>The <i>retention free amount</i> is</p> <p>The <i>retention percentage</i> is</p>	<p>2.5% SDL&I performance retention will be applied and 540% retention on smart meter installation.</p>
X18 Limitation of liability		
X18.1	<p>The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to:</p>	<p>R0.0 (zero Rand)</p>
X18.2	<p>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:</p>	<p>the amount of the deductibles relevant to the event</p>
X18.3	<p>The <i>Contractor's</i> liability for Defects due to his design which are not listed on the Defects Certificate is limited to</p>	<p>The greater of</p> <ul style="list-style-type: none"> • the total of the Prices at the Contract Date and • the amounts excluded and unrecoverable from the <i>Employer's</i> assets policy for correcting the Defect (other than the resulting physical damage which is not excluded) plus the applicable deductible as at contract date.
X18.4	<p>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 excluded matters, is limited to:</p>	<p>the total of the Prices other than for the additional excluded matters.</p> <p>The <i>Contractor's</i> total liability for the additional excluded matters is not limited.</p> <p>The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this contract for</p> <ul style="list-style-type: none"> • Defects due to his design which arise before the Defects Certificate is issued, • Defects due to manufacture and fabrication outside the Site, • loss of or damage to property (other than the <i>works</i>, Plant and Materials), • death of or injury to a person and • infringement of an intellectual property right.
X18.5	<p>The <i>end of liability date</i> is</p>	<p>(i) Seven years after the <i>defects date</i> for latent Defects and</p> <p>(ii) the date on which the liability in question prescribes in accordance with the Prescription Act No. 68 of 1969 (as amended or in terms of any replacement legislation) for any other matter.</p> <p>A latent Defect is a Defect which would not have been discovered on reasonable inspection by the <i>Employer</i> or the <i>Supervisor</i> before the <i>defects date</i>, without requiring any</p>

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inspection not ordinarily carried out by the Employer or the Supervisor during that period. If the Employer or the Supervisor do undertake any inspection over and above the reasonable inspection, this does not place a greater responsibility on the Employer or the Supervisor to have discovered the Defect.

Z The Additional conditions of contract are

Z1 to Z15 always apply.

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 *Project 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 *Project Manager* within thirty days of the notification or as otherwise instructed by the *Project 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 Works.
- 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 P3 as stated in clause 92, and the amount due is A1 and A3 as stated in clause 93.

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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 *Project 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 *works* or any portion thereof, in the course of Providing the Works and after Completion, requires the prior written consent of the *Project 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 *Project Manager*, the *Supervisor*, 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 *works*. 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 Site;
 - 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 *works*; and
 - undertakes, in and about the execution of the *works*, 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 *works*, complies with all applicable environmental laws and regulations and rules, guidelines and procedures otherwise provided for

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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 *Project 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 Works 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 from the last sentence in core clause 61.3, "unless the *Project Manager* should have notified the event to the *Contractor* but did not".

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 83.1 is provided for in 60.1(14) and the *Employer's* liability under the indemnity is limited.

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 Addition to secondary Option X7 Delay damages (if applicable in this contract)

- Z11.1 If the amount due for the *Contractor's* payment of delay damages reaches the limits stated in this Contract Data for Option X7 or Options X5 and X7 used together, the *Employer* may terminate the *Contractor's* obligation to Provide the Works using the same procedures and payment on termination as those applied for reasons R1 to R15 or R18 stated in the Termination Table.

Z12 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,

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- 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 *Contractor*, or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractor or the Subcontractor'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.

- Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.
- Z12.2 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.
- Z12.3 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.
- Z12.4 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.

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:

Insurance cover 84

- 84.1** 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.
- 84.2** The *Contractor* provides the insurances stated in the Insurance Table A.
- 84.3** The insurances provide cover for events which are at the *Contractor's* risk from the *starting date* until the earlier of Completion and the date of the termination certificate.

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

INSURANCE TABLE A

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

Z 13.2

Replace core clause 87 with the following:

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

INSURANCE TABLE B

Insurance against or name of policy	Minimum amount of cover or minimum l of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document

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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

Z14 Nuclear Liability

- Z14.1 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.
- Z14.2 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*.
- Z14.3 Subject to clause Z14.4 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*.
- Z14.4 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.
- Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z15 Asbestos

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

- AAIA** means approved asbestos inspection authority.
- ACM** means asbestos containing materials.
- AL** means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
- Ambient Air** means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
- Compliance Monitoring** means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.

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OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <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.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- Z15.1 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.
- Z15.2 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 Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
- Z15.3 The *Employer* manages asbestos and ACM according to the Standard.
- Z15.4 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.
- Z15.5 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.
- Z15.6 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.
- Z15.7 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.

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

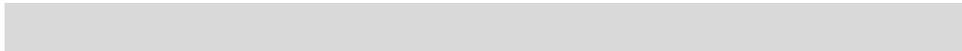
Annexure A: One-in-ten-year-return weather data obtained from SA Weather Bureau for [weather station]

Note: To be confirmed when issuing Works/Purchase Order, Site Specific. Not applicable on Smart meter installation.

If any one of these *weather measurements* recorded within a calendar month, before the Completion Date for the whole of the *works* and at the place stated in this Contract Data is shown to be more adverse than the amount stated below then the *Contractor* may notify a compensation event.

Month	Weather measurement				
	Cumulative rainfall (mm)	Number of days with rain more than 240mm	Number of days with min air temp < 0 deg.C	Number of days with snow lying at 08:00 CAT	[Other measurements if applicable]
January	[•]	[•]	[•]	[•]	
February	[•]	[•]	[•]	[•]	
March	[•]	[•]	[•]	[•]	
April	[•]	[•]	[•]	[•]	
May	[•]	[•]	[•]	[•]	
June	[•]	[•]	[•]	[•]	
July	[•]	[•]	[•]	[•]	
August	[•]	[•]	[•]	[•]	
September	[•]	[•]	[•]	[•]	
October	[•]	[•]	[•]	[•]	
November	[•]	[•]	[•]	[•]	
December	[•]	[•]	[•]	[•]	

Only the difference between the more adverse recorded weather and the equivalent measurement given above is taken into account in assessing a compensation event.



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C1.2 Contract Data

Part two - Data provided by the Contractor

Notes to a tendering contractor:

1. Please read both the NEC3 Engineering and Construction Contract (April 2013) and the relevant parts of its Guidance Notes (ECC3-GN)² 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 156 to 158 of the ECC3 (April 2013) Guidance Notes.
2. The number of the clause which requires the data is shown in the left-hand column for each statement however other clauses may also use the same data
3. Where a form field like this [] appears, data is required to be inserted relevant to the option selected. Click on the form field **once** and type in the data. Otherwise, complete by hand and in ink.

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

Clause	Statement	Data
10.1	The Contractor is (Name): Address Tel No. Fax No.	
11.2(8)	The <i>direct fee percentage</i> is The <i>subcontracted fee percentage</i> is	% %
11.2(18)	The <i>working areas</i> are the Site and	
24.1	The Contractor's key persons are: 1 Name: Job: Responsibilities: Qualifications: Experience: 2 Name: Job: Responsibilities: Qualifications: Experience:	CV's (and further key persons data including CVs) are appended to Tender Schedule entitled .

² Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009 or see www.ecs.co.za

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11.2(3)	The <i>completion date</i> for the whole of the <i>works</i> is							
11.2(14)	The following matters will be included in the Risk Register							
11.2(19)	The Works Information for the <i>Contractor's</i> design is in:							
31.1	The programme identified in the Contract Data is							
B	Priced contract with bill of quantities							
11.2(21)	The <i>bill of quantities</i> is in							
11.2(31)	The tendered total of the Prices is	(in figures) (in words), excluding VAT						
	Data for Schedules of Cost Components	<i>Note "SCC" means Schedule of Cost Components starting on page 60, and "SSCC" means Shorter Schedule of Cost Components starting on page 63 of ECC3 (April 2013).</i>						
B	Priced contract with bill of quantities	Data for the Shorter Schedule of Cost Components						
41 in SSCC	The percentage for people overheads is:	%						
21 in SSCC	The published list of Equipment is the last edition of the list published by The percentage for adjustment for Equipment in the published list is	Minus %						
22 in SSCC	The rates of other Equipment are:	<table border="1"> <thead> <tr> <th>Equipment</th> <th>Size or capacity</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Equipment	Size or capacity	Rate			
Equipment	Size or capacity	Rate						
61 in SSCC	The hourly rates for Defined Cost of design outside the Working Areas are Note: Hourly rates are estimated 'cost to company of the employee' and not selling rates. Please insert another schedule if foreign resources may also be used	<table border="1"> <thead> <tr> <th>Category of employee</th> <th>Hourly rate</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Category of employee	Hourly rate				
Category of employee	Hourly rate							
62 in SSCC	The percentage for design overheads is	%						

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63 in SSCC	The categories of design employees whose travelling expenses to and from the Working Areas are included in Defined Cost are:	
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Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

PART 2: PRICING DATA
ECC3 Option B

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option B	
C2.2	<i>The bill of quantities</i>	

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

C2.1 Pricing assumptions: Option B

1. How work is priced and assessed for payment

Clause 11 in NEC3 Engineering and Construction Contract (ECC3) Option B states:

Identified and defined terms	11	
	11.2	(21) The Bill of Quantities is the <i>bill of quantities</i> as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.
		(28) The Price for Work Done to Date is the total of <ul style="list-style-type: none"> • the quantity of the work which the <i>Contractor</i> has completed for each item in the Bill of Quantities multiplied by the rate and • a proportion of each lump sum which is the proportion of the work covered by the item which the <i>Contractor</i> has completed. <p>Completed work is work without Defects which would either delay or be covered by immediately following work.</p>
		(31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.

This confirms that Option B is a re-measurement contract and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

2. Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that specifications and descriptions of the work or any constraints on how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information". Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

3. Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

There is no general provision in Option B for payment for materials on Site before incorporation into the *works*. If secondary Option X14 Advanced payment has not been used then the tendering contractor may obtain the same effect by inserting appropriate items in the method related charges where the *method of measurement* allows or alternatively making allowance in the rates of the *bill of quantities* for the financing of Plant and Materials until they are incorporated in the *works*.

When compensation events arise, the default position is that the Bill of Quantities is not used to calculate the cost effect of the event. Defined Cost and the resulting Fee is used and Defined Cost includes all components of cost which the *Contractor* is likely to incur, including so called P & G items. Rates and lump sums from the Bill of Quantities, or from any other source, may be used instead of Defined Cost and the Fee only if the *Contractor* and *Project Manager* agree. If they are unable to agree, then Defined Cost plus Fee is used.

Installation of smart meters, data concentrators and bulk load limiting devices for the various Zones within the Cape Coastal Cluster (Western Cape) on an "as and when" required basis for a period of 3 years.

4. Measurement and payment

4.1. Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

Abbreviation	Unit
%	percent
h	hour
ha	hectare
kg	kilogram
kl	kilolitre
km	kilometre
km-pass	kilometre-pass
kPa	kilopascal
kW	kilowatt
l	litre
m	metre
mm	millimetre
m ²	square metre
m ² -pass	square metre pass
m ³	cubic metre
m ³ -km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
No.	number
sum	Lump sum
t	tonne (1000kg)

4.2. General assumptions

- 4.2.1. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.
- 4.2.2. The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the *Contractor* in carrying out or providing that item.
- 4.2.3. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*.
- 4.2.4. The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the *Project Manager* at each assessment date will be used for determining payments due.
- 4.2.5. The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. Detail regarding the extent of the work entailed under each item is provided in the Works Information.

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4.3. Departures from the *method of measurement*

4.4. Amplification of or assumptions about measurement items

The following is provided to assist in the interpretation of descriptions given in the *method of measurement*. In the event of any ambiguity or inconsistency between the statements in the *method of measurement* and this section, the interpretation given in this section shall be used.

The Contractor shall take note of the following:

- All prices to make provision for all resources (local labour rates, equipment, subsistence, petrol costs – including cranes where required)
- All material is to be purchased only upon written instruction by *Employer's Representative* and the *Contractor* is to provide proof of purchase of such material for reimbursement. (i.e. this will be reimbursed separately)
- Material will be reimbursed on a basis of actual **cost** where the *Contractor* shall hand over actual invoices of material purchased to the *Employer* on completion of the installation of the said material.
- All claims to be accompanied by the supporting documentation such as time sheets, kilometer tracking sheets, actual invoices and contractor manhours.
- *Contractor* to only provide a quotation for the work that they are qualified to do.
- *Contractor* to ensure that the Site Supervisor has a valid and applicable ORHVS Authorization for working on live apparatus as well as close proximity in the Western Cape Operation Unit for applicable voltage categories.
- *Contractor* to ensure that there is always an Authorised person when issued with the works.
- Actual invoices required to enable reimbursement and allowance to make provision for accommodation.
- All overtime and weekend works must be authorised in writing by the delegated Eskom representative prior to execution.

A. SITE ESTABLISHMENT PRICE LIST

Under the heading Preliminaries and General (P&G's), Site Establishment is to make provision for:

- Transport to and from site, on site and transport of all materials from storage / closest CNC
- Security services to safeguard the whole site inclusive of people, plant, equipment material etc.
- Accommodation
- *Contractors* rates shall allow for Health and Safety as well as any other statutory requirements, including training for safety authorizations (Safety Equipment Training, First Aid, ORHVS) and other purposes
- Required handover and inspection meetings, commissioning and testing

C2.2 the bill of quantities

Item No.	DESCRIPTION	UOM	STANDARD RATES
A	PRELIMINARY AND GENERAL		
A.1	0-50km Radius (from nearest CNC to Site and back)		-
A1.1.1	Establish facilities on site (include all resources required to ensure work to be fully completed)	Sum	-
			R4 323.67
A1.1.2	Maintain facilities on site (include all resources required to ensure work to be fully completed)	Weeks	-
			R1 864.66
A1.1.3	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-
			R630.72
A1.1.4	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade C) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-
			R574.80
A1.1.5	De-establish facilities on site (ensure all items to provide the works be removed and that site is normalised to customers satisfaction)	Sum	-
			R3 170.33
A1.2	>50-100km Radius (from nearest CNC to Site and back)		-
A1.2.1	Establish facilities on site (include all resources required to ensure work to be fully completed)	Sum	-
			R4 986.13
A1.2.2	Maintain facilities on site (include all resources required to ensure work to be fully completed)	Weeks	-
			R1 864.69
A1.2.3	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-
			R630.72

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A1.2.4	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-	R574.80
A1.2.5	De-establish facilities on site (ensure all items to provide the works be removed and that site is normalised to customers satisfaction)	Sum	-	R4 165.29
A1.3	>100-150km Radius (from nearest CNC to Site and back)	-	-	-
A1.3.1	Establish facilities on site (include all resources required to ensure work to be fully completed)	Sum	-	R5 020.90
A1.3.2	Maintain facilities on site (include all resources required to ensure work to be fully completed)	Weeks	-	R1 849.48
A1.3.3	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-	R630.72
A1.3.4	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-	R574.80
A1.3.5	De-establish facilities on site (ensure all items to provide the works be removed and that site is normalised to customers satisfaction)	Sum	-	R4 675.73
A1.4	>150-200km Radius (from nearest CNC to Site and back)	-	-	-
A1.4.1	Establish facilities on site (include all resources required to ensure work to be fully completed)	Sum	-	R6 527.20
A1.4.2	Maintain facilities on site (include all resources required to ensure work to be fully completed)	Weeks	-	R1 849.48

A1.4.3	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-	R630.72
A1.4.4	Security (24/7), two security guards at all times, day shift needs 2 no security officers (Grade B) with bulletproof vests and two way radios. (All security service providers to be registered with PSIRA) (actual cost – proof of cost e.g. invoice to be submitted when claimed)	per person/12hr shift	-	R574.80
A1.4.5	De-establish facilities on-site (ensure all items to provide the works be removed and that site is normalised to customers satisfaction)	Sum	-	R4 800.47
-	Travel and Accommodation	-	-	-
A1.5	Once off rate per km (for site establishment purposes including all vehicles to transport resources etc to complete the works i.e. from contractors' base to nearest CNC including return distance) – Only when site is more than 50km from Contractor Base	km	-	R7.83
A1.6	Accommodation (3-Star or less) – proof of cost e.g. invoice to be submitted when claimed	Cost plus Handling Fee %	-	5%
A1.7	Professionally registered Civil Engineer	hr	-	R489.70
-	TRANSPORT & EQUIPMENT (Tracker sheets and or google map records to be provided as proof)	-	-	-
A1.8	LDV	km	-	R6.39
A1.9	Truck (2 to 4-ton)	km	-	R11.06
A1.10	Truck (8-ton)	km	-	R10.22
A1.11	Truck with Crane (8-ton)	km	-	R13.63
A1.12	Truck (22-ton) – used on approval from Eskom Representative	km	-	R23.02
-	WORKER RATES (These rates are only to be used if no other item in the BOQ caters for the activity)	-	-	-
A1.13	Linesman per hour (normal)	hr	-	R88.52
A1.14	Labourer per hour (normal)	hr	-	R27.57
A1.15	Supervisor per hour (normal)	hr	-	R130.54
A1.16	Cable Joints (Skilled)	hr	-	R123.99
-	TOTAL (P&Gs)	-	-	-
B	GENERAL	-	-	-
B1	Prepare for outagescorrect snag list – check safety /quality	each	-	R476.59
B2	Excavation of soft soil	m ³	-	R150.52
B3	Excavation of hard soil / rock	m ³	-	R420.71

INSTALLATION OF SMART METERS, DATA CONCENTRATORS AND BULK LOAD LIMITING DEVICES FOR THE VARIOUS ZONES WITHIN THE CAPE COASTAL CLUSTER (WESTERN CAPE) ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF 3 YEARS. RETICULATION PROJECTS PANEL CONTRACT

B4	Backfill and compact of holes – normal	m ³	-	R56.52
B5	Backfill and compact of holes – with sand and cement mixture (labour only)	m ³	-	R152.17
B6	Importing soil	m ³	-	R204.80
B7	Rock drilling or Excavate using mechanical boring device i.e. Auger or Excavate using a jack hammer & compressor (irrespective of depth of hole, each hole to be verified by Eskom's Clerk of Works) – proof of cost e.g. invoice to be submitted when claimed	Cost plus Handling Fee %	-	5%
B8	Adhoc Material – Compensation: only on written instruction from Employer – proof of cost e.g. invoice to be submitted when claimed (No retention deduction on material)	Cost plus Handling Fee %	-	5%
B9	Compliance to Environmental Management Plan and maintenance thereof	each	-	R3 974.29
B10	Health and Safety (in compliance with OH&S Act and Construction Regulations) – specify items to verify cost	each	-	R2 789.30
B11	Health & Safety Plan & maintaining File (For Minor Works & Split Metering Projects only 10% of the value to be paid)	each	-	R3 341.04
B12	PPE – proof of cost e.g. invoice to be submitted when claimed	Actual Cost	-	-Actual cost
B13	Temporary labour	hr	-	R28.42
B14	Erect goal posts: temporary structure and traffic signs to regulate traffic during construction for all road crossings/railway crossing. (This includes any loss of production during these crossings and ensuring access is maintained to roads and properties as well as any fees by Provincial Traffic Department)	each	-	R810.32
B15	Utilisation of Community Liaison Officer (Contractor to submit time sheet weekly for CLO based on attendance register)	per day	-	R320.00
B16	Cart away rubble and excavated soil to a registered dumping site	ton/km	-	R23.00
B17	Storage of material (proof of cost e.g., invoice to be submitted when claimed) Note: Proof of instruction from PC for material storage to be provided when claim storage cost). Storage claim is applicable when material is stored more than one day. The instruction from PC to indicate the duration of storage (start and completion date).	Cost plus Handling Fee %	-	5%

-	All "excess" material must be returned to Eskom stores within 1 week or sooner after completion. Final payment will be withheld until all material is returned.	-	-
B18	Scrapped material transported to Brackenfell by truck	km	R14.16
-	TOTAL (GENERAL)	-	-
C	LV WORKS	-	-
-	Excavate, backfill and compact as per Eskom standard and import backfill soil where required for holes and trenches for poles, stays, flying stays and earth electrodes (all material measured elsewhere)	D-DT-0350, 0342	-
C1	Excavate Holes Depth: 1.5 to 2.0msoft soil	each	R275.17
C2	Excavate Holes Depth: > 2.0msoft soil	each	R237.36
C3	Excavate Holes Depth: 1.5 to 2.0m.....hard soil	each	R437.31
C4	Excavate Holes Depth: > 2.0m....hard soil	each	R540.53
-	Layout and fit poles fully at hole position on site to ensure ease of lifting by hand or crane when planting	-	-
C5	Layout and fit poles (by crane) 4 – 7m Conc/Wood	each	R81.08
C6	Layout and fit pole (by crane) 7 – 13m Conc/Wood	each	R90.74
C7	Layout and fit poles (by hand) 4 – 7m Conc/Wood	each	R103.89
C8	Layout and fit pole (by hand) 7 – 13m Conc/Wood	each	R108.26
-	Erect (Plant) Poles	D-DT-0050 to 0058	-
C9	Erect (Plant) poles (by crane) 4 – 7m Conc/Wood	each	R99.22
C10	Erect (Plant) pole (by crane) 7 – 13m Conc/Wood	each	R171.19
C11	Erect (Plant) poles (by hand) 4 – 7m Conc/Wood	each	R99.91
C12	Erect (Plant) pole (by hand) 7 – 13m Conc/Wood	each	R222.00
C13	Assemble Struct. LV Insulators/ABC	each	R44.29
-	Assemble and Erect Struts and Stays	D-DT-0341 to 0343	-
C14	Assemble and Erect Strut (by hand)	each	R220.38
C15	Assemble and Erect Strut (by crane)	each	R190.88
C16	Stays: Make off Conventional Stays LV	each	R117.56
C17	Stays: Make off Flying Stays LV	each	R120.62
C18	Install Conventional Stays & Backfill LV	each	R179.39
C19	Install Flying Stays & Backfill LV	each	R123.11

-	Run-out, String, tension, regulate and bind in various conductors (inclusive of hardware and accessories)	D-DT-3136	-	-
C20	Run-out/ String/tension/regulate-bind in LV Bare conductor	m	-	R10.32
C21	Run-out/ String/binding conductor ABC 35mm	m	-	R9.49
C22	Run-out/ String/binding conductor ABC 70mm	m	-	R10.19
C23	Run-out/ String/binding conductor ABC 120mm	m	-	R14.08
C24	Making off tail ends in pole top box ABC	each	-	R66.01
C25	Making off tail ends on transformer ABC	each	-	R111.67
C26	Making off of ABC using IPC	set	-	R31.00
C27	Morsdorfer Installation	each	-	R108.50
C28	Metering LV Installation	each	-	R117.31
C29	Install LV Fuse Unit as per Eskom D-DT0030 assembly drawings. (Accessories inclusive of fuse bracket & mounting hardware, fuse holders and labels)	set	-	R94.02
C30	Repair of ABC (Heat Shrinking) remove and replace IPC's	each	-	R237.75
-	Install on wooden and/or concrete pole a pole mounted distribution box as specified complete with pole mounting brackets (incl sealing), cable ties, PG clamps, MCBs, neutral, phase and earth bars, insulated copper tails for connecting to LV ABC, IPCs & factory installed cable openings. Included shall be the stainless steel strapping, buckles and terminations of the tails onto LV ABC. Eskom D-DT standrad as amended will apply	D-DT-3055	-	-
C31	BOX, POLE TOP DIST 4-WAY 50A D3055	each	-	R93.90
C32	BOX, POLE TOP DIST 8-WAY 50A D3055	each	-	R93.98
C33	BOX, POLE TOP DIST 4-WAY 120A D3055	each	-	R93.98
C34	BOX, POLE TOP DIST 2-WAY 50A D3055	each	-	R93.04
C35	BOX, POLE TOP SPLIT METER 2-WAY 50A D3055	each	-	R93.04
C36	BOX, POLE TOP SPLIT METER 4-WAY 50A D3055	each	-	R93.98
C37	BOX, POLE TOP SPLIT METER 2-WAY 120A D3055	each	-	R93.98
C38	BOX, POLE TOP SPLIT METER 8-WAY 50A D3055	each	-	R93.98

-	Earthing at end of run and transformer points of LV line. (include trenching, backfill & compact for earthing, bonding, BIL downwire, spikes and connection thereof)	-	-
C39	Trenching	m	R39.42
C40	Earthing complete @ structure using galvanized kicker pipes	each	R161.47
C41	Testing of Transformer earthing (Hoenderpoort)	each	R79.56
-	Finishing of various types of structures complete for energising	-	-
C42	Finishing of LV Structures - Intermediate	each	R50.26
C43	Finishing of LV Structures - Suspension	each	R49.83
C44	Finishing of LV Structures - Strain	each	R57.04
C45	Finishing of LV Structures - Terminal	each	R60.16
-	Dismantling / Removal / Demolish LV Overhead Line hardware & attachments	-	-
C46	Loosening/slacking of conductor/Rolling up/cut-up/removal conductor	phase meter	R13.51
C47	Disassemble LV insulators/ABC attachment and other line hardware	each	R31.05
C48	Removal of Poles (backfill holes firmly and normalise site)	each	R133.30
C49	Transport dismantled items to nearest TSC / collection point as arranged by the Employer.	km	R13.66
-	Labelling	-	-
C50	Label wood pole number (LV Only)	each	R27.13
C51	Label pole mounted LV fuse/brkr	each	R27.39
C52	Print numbering label onto LV pole top box	each	R27.39
C53	Identify and label service connections in pole top box	each	R27.39
C54	Print label to kiosk to on kiosk/stubby door (Red circle background)	each	R27.39
C55	Identify and label feeder cables (Label at both ends)	each	R27.39
C56	Identify and label LV service connection cables	each	R27.39
C57	Identify and label customer meters in LV meterbox/meter room	each	R27.39
-	Service Connections	-	-
C58	Installation only of pre-paid energy dispenser units, including SPU back plate	each	R126.53

C59	Connect airdac to breaker (inside pole top box), string airdac to brick built house, drill access hole, fit pigtail and switch on	m	-	R8.00
C60	Modification only of Pole Top Boxes (4 way and 8 way) with stainless steel strapping	per pole top box	-	R45.65
C61	Morsdorfer Installation	set	-	R102.64
C62	Conversion (Removal of existing and replace with proposed) Prepaid Energy Dispensary Units (e.g. 20A replaced by 60A). The obsolete pre-paid ED/EC units remain the property of Eskom)	each	-	R366.23
C63	Meter shifting 0-10 in formal house	each	-	R410.03
C64	Excavate cable trenches not exceeding 600mm wide and 1000mm deep in the pickable material. Including backfilling with excavated material and compact	m	-	R79.13
C65	Laying of conductor in excavated trenches	m	-	R8.04
C66	Upload of PCS file and completion of application form with meter number, date of installation, GPS coordinates of meter (brick built) or transformer (informal dwelling/shack) and other relevant technical information still outstanding on application form	per connection	-	R10.96
C67	Connect airdac to breaker (inside pole top box), string airdac to 7m pole, Fit screw in pigtail on 7m pole, string to informal dwelling/shack, fit screw in pigtail on informal dwelling/shack, installation of sprig (informal dwelling/shack) and switch on	m	-	R8.14
C68	Mount meterbox to 7m pole	each	-	R92.50
C69	Connect service cable to meter per dwelling	each	-	R22.09
C70	Secure backing board to the dwelling	each	-	R21.29
C71	Mount socket outlet to the backing board (as and when required)	each	-	R19.41
C72	Connect socket outlet per dwelling (as and when required)	each	-	R22.78
C73	Repair of ABC (Heat Shrinking) remove and replace IPC's (as and when required)	each	-	R204.79
C74	Test installation and provide COC	each	-	R259.33
C75	Installation of IPC	each	-	R109.39
C76	Installation of split meter (Complete)	each	-	R116.01
C77	Installation of smart meters (Complete)	each	-	R116.01
C78	Install Data Concentrator (Complete)	each	-	R272.12

-	Metering	-	-
C79	Assemble & Erect H-poles ≥9 meter	each	R468.36
C80	Install equipment metering units	each	R906.45
C81	Install equipment: load-break switch	each	R789.65
C82	Install equipment: links	each	R330.27
C83	Install equipment: surge arrestors	each	R272.66
C84	Testing of metering units	each	R142.29
C85	Making off tail ends in pole top box ABC	each	R109.69
C86	Making off tail ends on transformer ABC	each	R119.75
C87	Making off of ABC using IPC	each	R28.07
D	MV OVERHEAD LINE	-	-
-	Excavate, backfill and compact as per Eskom standard and import backfill soil where required for holes and trenches for poles, stays, flying stays and earth electrodes (all material measured elsewhere)	D-DT-0350, 0342	-
D1	Excavate Holes Depth: 1.5 to 2.0msoft soil	each	R213.38
D2	Excavate Holes Depth: > 2.0msoft soil	each	R250.99
D3	Excavate Holes Depth: 1.5 to 2.0mhard soil	each	R391.86
D4	Excavate Holes Depth: > 2.0mhard soil	each	R519.31
-	Layout and fit poles fully at hole position on site to ensure ease of lifting by hand or crane when planting	-	-
D5	Layout and fit poles (by crane) 4 – 7m Conc/Wood	each	R79.31
D6	Layout and fit pole (by crane) 7 – 13m Conc/Wood	each	R89.56
D7	Layout and fit poles (by crane) >13m Conc/Wood	each	R198.76
D8	Layout and fit poles (by crane) H-Pole Wood	each	R284.04
D9	Layout and fit poles (by crane) Double-Pole Structure Wood	each	R349.96
D10	Layout and fit poles (by hand) 4 – 7m Conc/Wood	each	R102.88
D11	Layout and fit pole (by hand) 7 – 13m Conc/Wood	each	R109.31
D12	Layout and fit poles (by hand) >13m Conc/Wood	each	R182.28
D13	Layout and fit poles (by hand) H-Pole Wood	each	R350.84
D14	Layout and fit poles (by hand) Double-Pole Structure Wood	each	R461.52
-	Erect (Plant) Poles	D-DT-0050 to 0058	-

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D15	Erect (Plant) poles (by crane) 4 – 7m Conc/Wood	each	-	R100.09
D16	Erect (Plant) pole (by crane) 7 – 13m Conc/Wood	each	-	R195.62
D17	Erect (Plant) poles (by crane) >13m Conc/Wood	each	-	R205.73
D18	Erect (Plant) pole (by crane) H-Pole Wood	each	-	R219.88
D19	Erect (Plant) poles (by crane) Double-Pole Structure Wood	each	-	R316.62
D20	Erect (Plant) poles (by hand) 4 – 7m Conc/Wood	each	-	R100.09
D21	Erect (Plant) pole (by hand) 7 – 13m Conc/Wood	each	-	R241.53
D22	Erect (Plant) poles (by hand) >13m Conc/Wood	each	-	R334.31
D23	Erect (Plant) pole (by hand) H-Pole Wood	each	-	R314.51
D24	Erect (Plant) poles (by hand) Double-Pole Structure Wood	each	-	R694.95
-	Assemble and Erect Struts and Stays	D-DT 0341 to 0343	-	-
D25	Assemble and Erect Strut (by hand)	each	-	R89.27
D26	Assemble and Erect Strut (by crane)	each	-	R185.90
D27	Stays: Make-off Conventional Stays	each	-	R55.97
D28	Stays: Make-off Flying Stays	each	-	R39.73
D29	Install Conventional Stays & Backfill LV	each	-	R113.65
D30	Install Flying Stays & Backfill LV	each	-	R189.68
-	Run-out, String, tension, regulate and bind in various conductors (inclusive of hardware and accessories)	-	-	-
D31	Run-out/ String/tension/regulate/bind in MV Bare conductor (Squirrel, Fox, Mink, Acacia, Pine). Greased or ungreased	m	-	R4.41
D32	Run-out/ String/tension/regulate/bind in MV Bare conductor (Hare, Oak, 0.5Cu & 0.1Cu). Greased or ungreased	m	-	R7.42
D33	Run-out/ String/tension/regulate/bind in MV Bare conductor (Chickadee). Greased or ungreased	m	-	R8.28
D34	Extra-over: Installation of bird diverters	each	-	R12.03
D35	Extra-over: Installation of vibration dampers	each	-	R13.86
D36	Run-out/ String/binding conductor ABC 35mm (inclusive of all attachments to complete the activity)	m	-	R9.48
D37	Run-out/ String/binding conductor ABC 70mm (inclusive of all attachments to complete the activity)	m	-	R9.63

INSTALLATION OF SMART METERS, DATA CONCENTRATORS AND BULK LOAD LIMITING DEVICES FOR THE VARIOUS ZONES WITHIN THE CAPE COASTAL CLUSTER (WESTERN CAPE) ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF 3 YEARS. RETICULATION PROJECTS PANEL CONTRACT

D38	Run-out/ String/binding conductor ABC 120mm (inclusive of all attachments to complete the activity)	m	-	R11.29
D39	Making off tail ends in pole top box ABC	each	-	R67.59
D40	Making off of ABC using IPC	set	-	R25.62
D41	Repair of ABC (Heat Shrinking) remove and replace IPC's	each	-	R173.27
-	Transformers: (Complete installation include earthing)	D-DT 0420 to 0468 & D-DT 1860 to 1868	-	-
D42	11-22kV, and 33kV : 16-100kVA Single / 3 Phase	each	-	R575.34
D43	11-22kV, and 33kV : 200kVA – 500kVA	each	-	R789.27
D44	11-22kV : 1MVA	each	-	R1 242.08
-	Equipment: (Complete installation include earthing where required)	D-DT 1821 to 1877	-	-
D45	Surge Arrestors	set	-	R115.91
D46	Cut-out Fuses Complete (Fused) (D-WC-6498)	set	-	R256.65
D47	Load Break Switch D-DT-1857 and D-DT-1858	each	-	R632.81
D48	Ground Mounted Regulators D-WC-6478-20-01-00	set of 2 or 3 CANS	-	R8 909.58
D49	Switched/Fixed Shunt Capacitors D-WC-6447-20-03-00	set	-	R3 647.87
D50	Voltage Regulator Cans – Elevated D-WC-7216-20-09-00	set of 2 or 3 CANS	-	R4 695.38
D51	Recloser (complete with control box) D-WC-7343-20-03-01	each	-	R902.00
D52	Pole mounted switch-able units	each	-	R1 038.25
-	Earthing	D-DT 1821 to 1877	-	-
D53	Excavate and backfill trenches 400mm wide x 1000mm deep and lay 10mm round cable and make connections complete	m	-	R55.06
D54	Installation of earth spikes.	each	-	R17.54
-	Metering and ancillary cabling from installed transformer		-	-
D55	16kVA (Single Phase)	each	-	R389.97
D56	25kVA	each	-	R392.76
D57	32kVA	each	-	R406.89
D58	50kVA	each	-	R426.98
D59	100kVA	each	-	R514.74
D60	200kVA	each	-	R691.57
D61	500kVA	each	-	R1 149.81
D62	1MVA	each	-	R1 426.68

-	MV & LV Testing (Allowance for complete testing and commissioning of MV Equipment. Soil resistance test for equipment to be performed as per Eskom Standard and verified by Eskom's Clerk of Works)		-	-
D63	MV Earth Electrode Test	each	-	R83.96
D64	Transformer LV Earth Electrode Test	each	-	R83.96
-	Labeling of MV equipment		-	-
D65	Label pole mounted Trfr. Number	each	-	R23.72
D66	Label mounted device number (Fuse, Switch, Link etc.)	each	-	R23.72
D67	Label wood pole	each	-	R23.72
D68	Label Voltage Regulator	each	-	R23.72
D69	Label to pole mounted recloser/sectionalizer/capacitor/switch-able unit	each	-	R23.72
-	Dismantling / Removal / Demolish MV Overhead Line and Equipment		-	-
D70	Demolish existing 11 & 22 kV lines complete and transport to nearest TSC / collection point as arranged by the Employer. (This item includes loosening/slacking of all conductor/rolling up/cut up and removal of conductor; Detaching and removal of hardware; complete removal of poles and normalise site)	linear m (i.e. running all 3-phases)	-	R11.73
-	Removal of Pole Mounted & Ground Mounted Transformers/Minisubs :		-	-
D71	16kVA-100kVA Pole Mounted Transformer	each	-	R935.07
D72	>100-315kVA Pole Mounted Transformer	each	-	R1 005.35
D73	500kVA Pole Mounted Transformer	each	-	R1 149.43
D74	200 to 315kVA Minisub	each	-	R882.81
D75	500kVA Minisub	each	-	R1 432.84
D76	1MVA Minisub or Ground Mounted transformer	each	-	R1 591.70
-	Removal of other equipment:		-	-
D77	Voltage Regulators (3-CAN)	set	-	R335.89
D78	Voltage Regulators (2-CAN)	set	-	R219.15
D79	Auto-reclosers with control box / Sectionalizers / Switched or Shunt Capacitors	each	-	R69.51
D80	LPU Metering Units	each	-	R19.49
D81	Load Break Switch	each	-	R304.56
D82	MV links / Isolators	each	-	R110.54
D83	Surge Arrestors	set of 3	-	R108.77
D84	MV Fuses	set of 3	-	R102.27

D85	Remove all types of equipment plinths and dispose thereof at a registered dumping site	each	-	R163.88
-	TOTAL (MV OVERHEAD LINE)		-	-
E	MV UNDERGROUND CABLE	-	-	-
E4	Excavate, backfill and compact trenches 1.0m deep x 500mm wide for cables in pickable materials (soft) by hand (including laying of "danger tape")	m	-	R61.94
E2	Excavate, backfill and compact trenches 1.0m deep x 500mm wide for cables in hard materials by hand. (including laying of "danger tape")	m	-	R78.91
E3	Excavate, backfill and compact trenches 1.0m deep x 500mm wide for cables in all materials by machine. (including laying of "danger tape")	m	-	R93.94
-	laying of Pipes (Including backfilling and normalise the site)	-	-	-
E4	Lay PVC Pipe (110mm)	m	-	R59.40
E5	Lay PVC Pipe (160mm)	m	-	R71.16
E6	Lay HDPE Pipe (110mm)	m	-	R94.26
E7	Lay HDPE Pipe (160mm)	m	-	R105.72
-	Cable Laying / Termination		-	-
E8	Laying of 16-35mm sq LV cable	m	-	R6.75
E9	Terminate / Join 16/35mm LV cables	each	-	R124.68
E10	Laying of 70-95mm sq LV cable	m	-	R10.22
E11	Terminate / Join 70/95mm LV cables	each	-	R197.92
E12	Laying of 120mm sq LV cable	m	-	R12.56
E13	Terminate / Join 120 LV cables	each	-	R209.33
E14	Laying of 25mm sq MV Cable	m	-	R15.03
E15	Terminate / Join 25mm sq MV cables	each	-	R948.76
E16	Laying of 95mm sq MV Cable	m	-	R18.06
E17	Terminate / Join 95mm sq MV cables	each	-	R1-086.42
E18	Laying of 185mm sq MV Cable	m	-	R24.32
E19	Terminate / Join 185mm MV cables	each	-	R1-364.77
E20	Laying of 300mm sq Alu MV Cable	m	-	R29.56
E21	Terminate / Join 300mm sq Alu MV cables	each	-	R1-538.97
E22	Laying of 630mm sq single-core MV Cable	m	-	R25.13
E23	Terminate / Join 630mm sq single-core MV cables	each	-	R1-303.75
E24	MV Cable pressure test	each	-	R284.35
E25	Earthing of MV cables	each	-	R89.69

E26	Install concrete slab as cable cover (as per Eskom specification)	each	R85.50
-	Supply and installation of plinths for:		-
E27	Ring Main Units (RMU) D-DT-0863 set 6 pages 1-6	each	R3 792.46
E28	Mini Sub Type "A" =< 500kVA D-DT-0859 set 7 pages 1-2	each	R4 698.00
E29	Mini Sub Type "A" = 1000kVA D-DT-0859 set 7 pages 3-4	each	R5 020.00
E30	Mini Sub Type "B" Front Entry Cable D-DT-0859 set 7 page 6	each	R4 698.00
E31	Mini Sub Type "B" Side Entry Cable D-DT-0859 set 7 page 5	each	R5 020.00
E32	LPU metering (CT/VT unit) D-DT-0861 Set 2 sheets 1-2	each	R2 203.36
E33	CW1 Cubical D-DT-1010 Set 2 Sheets 1-2 or similar metering kiosk	each	R2 074.39
E34	Stubby Kiosk base complete	each	R486.04
-	Installation of equipment:		-
E35	RMU inclusive of labeling	each	R1 274.06
E36	Mini Sub Type "A" inclusive of labeling	each	R1 346.57
E37	Mini Sub Type "B" inclusive of labeling	each	R1 219.11
E38	LPU metering unit inclusive of labeling	each	R603.72
E39	CW1 Cubical D-DT-1010 Set 2 Sheets 1-2 or similar metering kiosk (inclusive of labelling)	each	R551.17
E40	Stubby Kiosk base complete	each	R635.35
-	Dismantling / Removal / Demolish MV Cable and Equipment		-
-	Removal of Minisubs/RMUs etc :	-	-
E41	Ring Main Units (RMU)	each	R1 103.13
E42	Mini Sub Type "A" =< 500kVA	each	R1 032.89
E43	Mini Sub Type "A" = 1000kVA	each	R1 227.53
E44	Mini Sub Type "B" Front Entry Cable	each	R1 123.52
E45	Mini Sub Type "B" Side Entry Cable	each	R1 082.28
E46	LPU metering (CT/VT unit)	each	R547.81
E47	CW1 Cubical or similar metering kiosk	each	R479.49
-	Removal of MV Cable (inclusive of Excavations, Rolling-up of cable and backfill & compact trench (normalise site)		-
E48	Removal of 4-core cable	m	R14.99
E49	Removal of 25 to 70mm sq 3-core MV cable	m	R30.40
E50	Removal of 95 to 185mm sq 3-core MV cable	m	R35.29
E51	Removal of =>300mm sq 3-core MV cable	m	R39.28

E52	Removal of 630mm sq single-core MV Cable	m	-	R53.31
-	TOTAL (MV UNDERGROUND CABLE)		-	-
F	RE-INSTATEMENT		-	-
-	Trench Re-instatement	-	-	-
F1	Light duty road-way (Trench = 0.5-1m wide, 150mm base + 25mm premix) Note: Item includes supply and installation of tar and bitumen. The excavation, and backfilling to be measured somewhere else.	m	-	R216.20
F2	Footway (Trench = 0.5-1m wide, 75mm base + 25mm premix) Note: Item includes supply and installation of tar and bitumen. The excavation, and backfilling to be measured somewhere else.	m	-	R142.39
F3	Footway (Trench = 0.1-1.5m wide, 75mm base + 25mm premix) Note: Item includes supply and installation of tar and bitumen. The excavation, and backfilling to be measured somewhere else.	m	-	R253.02
F4	Heavy duty road-way (Trench = 0.5-1m wide, 225mm base + 40mm premix) Note: Item includes supply and installation of tar and bitumen. The excavation, and backfilling to be measured somewhere else.	m	-	R335.27
F5	Brick paving (labour only)	m ²	-	R77.06
F6	Concrete paving (labour only)	m ²	-	R77.06
F7	Kerb (labour only)	m	-	R34.20
F8	Channel (labour only)	m	-	R38.80
F9	Clear site and take away rubble to nearest dumping site	m ³	-	R162.07
F10	Saw cutting	m	-	R23.15
F11	Excavate trenches for layerworks	m ³	-	R92.05
-	General	-	-	-
F12	Traffic Control	per day	-	R297.76
-	TOTAL (RE-INSTATEMENT)		-	-
G	THRUSTBORING		-	-
-	(The items include all labour, plant, material and equipment required to install cable ducting by thrust-boring ducts under existing roadways and surfaced areas. Also to include transport within 100km radius from Brackenfell office)		-	-
-	Soil Conditions: Normal pickable	-	-	-
-	Install Cable Ducts— Supply, join & install the following sizes of PVC cable ducting under roads and surfaced areas by thrust-boring:		-	-
G1	160mm diameter PVC duct	m	-	R792.10
G2	110mm diameter PVC duct	m	-	R624.89

G3	75mm diameter PVC duct	m	-	R531.38
G4	63mm diameter PVC duct	m	-	R521.72
-	Install Cable Ducts – Supply, weld & install the following sizes of HDPE cable ducting under raods and surfaced areas by thrust boring :-	-	-	-
G5	160mm diameter HDPE duct	m	-	R927.49
G6	110mm diameter HDPE duct	m	-	R644.19
G7	75mm diameter HDPE duct	m	-	R465.17
G8	63mm diameter HDPE duct	m	-	R481.28
-	Soil Conditions: Intermediate	-	-	-
-	Install Cable Ducts – Supply, join & install the following sizes of PVC cable ducting under raods and surfaced areas by thrust boring :-	-	-	-
G9	160mm diameter PVC duct	m	-	R931.30
G10	110mm diameter PVC duct	m	-	R751.06
G11	75mm diameter PVC duct	m	-	R575.85
G12	63mm diameter PVC duct	m	-	R583.44
-	Install Cable Ducts – Supply, weld & install the following sizes of HDPE cable ducting under raods and surfaced areas by thrust boring :-	-	-	-
G13	160mm diameter HDPE duct	m	-	R908.07
G14	110mm diameter HDPE duct	m	-	R702.00
G15	75mm diameter HDPE duct	m	-	R539.27
G16	63mm diameter HDPE duct	m	-	R449.08
-	Soil Conditions: Heavy/Rocky	-	-	-
-	Install Cable Ducts – Supply, join & install the following sizes of PVC cable ducting under raods and surfaced areas by thrust boring :-	-	-	-
G17	160mm diameter PVC duct	m	-	R2 182.39
G18	110mm diameter PVC duct	m	-	R1 644.40
G19	75mm diameter PVC duct	m	-	R1 250.76
G20	63mm diameter PVC duct	m	-	R1 223.76
-	Install Cable Ducts – Supply, weld & install the following sizes of HDPE cable ducting under raods and surfaced areas by thrust boring :-	-	-	-
G21	160mm diameter HDPE duct	m	-	R2 927.86
G22	110mm diameter HDPE duct	m	-	R1 903.11
G23	75mm diameter HDPE duct	m	-	R1 399.88
G24	63mm diameter HDPE duct	m	-	R1 159.70
-	Transport Rate	-	-	-
G25	Travelling Rate (from base stated in contract)	km	-	R5.85

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 BASIS FOR A PERIOD OF 3 YEARS. [RETICULATION PROJECTS PANEL CONTRACT](#)

- TOTAL (THRUSTBORING) - -

2025-2028 SMART TECHNOLOGY BoQ Rev0

TRADE SECTIONS

Current Date: 04-March-26

SECTION	DESCRIPTION
A&B	PRELIMINARY AND GENERAL ITEMS
C	SERVICE CONDUCTOR INSTALLATION
D	TRANSPORT
E	ADHOC MATERIAL

2025-2028 SMART TECHNOLOGY BoQ Rev0

PRELIMINARY AND GENERAL ITEMS
 Current Date: 10-March-26



Bill No:1	PRELIMINARY AND GENERAL ITEMS				
No		DESCRIPTION	UNIT	RATE	
A	FIXED CHARGE ITEMS				
A.1.	Health and Safety measures (In terms of 34-333)	Safety & Health, Environmental			
A.1.1	3.1.1	Compliance with OH&S Act & Construction Regulations. (for projects where task order value exceed R100,000-00)	Sum		
A.2.	Materials Management				
A2.1		The Contractor shall make allowance to receive at Eskom stores, offload and stack the free-issue materials supplied to the contractor.	Sum		
A.3.	Contractual requirements	Comply ,maintain all insurance and statutory contributions, etc.			
A.3.1		Allowance to Comply ,maintain all insurance and statutory contributions, etc. (Actual cost will be paid at the end of the project and proof of policy must be provided and must be compliant to contractual requirements)	Sum		
			Sub-Total A		
B.	TIME RELATED ITEMS				
B.1	Site Establishment				
B.2	Accommodation	Accommodation Allowance is for the Contractors Staff excluding the casual labourers which are assumed to be residing in the area where the works are executed.			
B.2.1.		Staff Accommodation Allowance	Weeks		
B.3	Security				
B.3.1.		Security on site - 24 Hour Unarmed Security (Must be registered with the appropriate body)	Weeks		
B.4.	Labour	The Contractor need to submit Weekly Time Sheets for all hourly compensation claims and a Daily attendance register			
B.4.1.		Supervisor per team	hourly		
B.4.2.		Community Liaison Officer	Daily (Max)		
B.4.3.		Safety Officer (SACPMP Registered)	hourly		
B.4.4.		Maintenance of H&S file (only applicable for projects exceeding 1 month in duration)	Monthly		
B.4.5.		Tools and equipment (Provision made for only rental of Specialized Tools) - minimum of 3 supplier quotes required at task order approval stage.	Sum		
B.5		Android device for use as EDA tool to capture MMF (Meter movement Form). Note: EDA guideline to be applied: •Android 10 or earlier •Camera 13MP or higher •Barcode scanning keyboard installed (one per team)	each		
			Sub-Total B		
			Total P & G's Carried To Summary		

Contractor's Signature:

ESKOM HOLDINGS SOC Ltd CONTRACT NUMBER _____
 INSTALLATION OF SMART METERS, DATA CONCENTRATORS AND BULK LOAD LIMITING DEVICES FOR THE
 VARIOUS ZONES WITHIN THE CAPE COASTAL CLUSTER (WESTERN CAPE) ON AN "AS AND WHEN" REQUIRED
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2025-2028 SMART TECHNOLOGY BoQ Rev0



BOQ ITEMS
 Current Date: 04-March-26

BILL OF ACTIVITIES				RATE
ITEM	REFERENCE DRAWING	DESCRIPTION	UNIT	
C		SERVICE CONNECTION		
1.1		Survey area to determine the installed base of meters and classify installations into predefined categories provided		
1.1.1		Perform a survey in the allocated area to identify each type of installation.	each	
1.1.2		Compile and issue report with detailed information	each	
1.2		Replace existing basic split meter with smart meter (Basic split meter installed inside existing pole mounted split meter kiosk to be replaced with smart meter)		
1.2.1	DDT 9421	Replace split meter in pole top box with smart meter	each	
1.2.2	DDT 9422	Replace and Pair CIU and explain basic operation to customer	each	
1.2.3		Complete meter movement form	each	
1.2.4		Return replaced material to Eskom stores.	sum	
1.3		Replace existing basic split meter with smart meter (Basic split meter installed inside existing ground mounted split meter kiosk to be replaced with smart meter)		
1.3.1	DDT 9421	Replace split meter in ground mounted kiosk with smart meter	each	
1.3.2		Replace and pair CIU and explain basic operation to customer	each	
1.3.3		Complete meter movement form	each	
1.3.4		Return replaced material to stores.	sum	
1.3.5		Install meter blank-off plate		
1.4		Replace existing pole mounted distribution kiosk with Split meter kiosk		
1.4.1		Remove existing pole top distribution kiosk with meters	each	
1.4.2	D-DT 3063	Install split meter pole top box with new smart meters	each	
1.4.3	DDT 9421	Reconnect service cables to meters	each	
1.4.4		Pair CIU with meter	each	
1.4.5		Return replaced material to stores.	sum	
1.5		Replace existing ground mounted kiosk with Split meter kiosk		
1.5.1		Remove shell of existing ground mounted distribution kiosk	each	
1.5.2		Install retrofit ground mounted split meter pole top kiosk over existing kiosk core.	each	
1.5.3		Complete wiring	each	
1.5.4		Pair CIU with meter	each	
		Return the removed kiosk shell to Eskom		
1.6		Replace existing common base meter (ECU) with smart meter		
1.6.1		Remove ECU	each	
1.6.2		Replace existing Readyboard with split meter Readyboard	each	
1.6.3		Complete meter movement form	each	
1.6.4		Pair CIU with new meter	each	
1.6.5		Perform commissioning test	each	
1.6.6		Issue COC	each	

1.7		Replace existing common base meter (ED) with smart meter		
1.7.1		Remove ED	each	
1.7.2		Installation of meter blank-off cover (To by-pass common base)	each	
1.7.3		Completion of meter movement form	each	
1.7.4		Complete meter movement form	each	
1.7.5		Return all removed material to Eskom stores	sum	
1.8		Replace 1Ph conventional meter up to 16kVA with smart meter (Din rail)		
1.8.1	DDT 9421	Remove conventional meter	each	
1.8.2		Supply and install Din-rail (60mm)	each	
1.8.3		Install preconfigured 1ph smart meter	each	
1.8.4		Pair CIU with new meter	each	
1.8.5		Complete meter movement form	each	
1.9		Replace 3Ph meter up to 50kVA with smart meter		
1.9.1		Remove 3ph meter	each	
1.9.2	DDT 9421	Install preconfigured 3ph Smart meter	each	
1.9.3	D-DT 9503	Mount external antenna	each	
1.10		Install new 4Way pole mounted split meter kiosk		
1.10.1	D-WC-6461-02-02	Install pole top box (4 way)	each	
1.10.2	DDT 9421	Install Smart meters	each	
1.10.3		Install service pole	each	
1.10.4	D-DT-3140	Replace concentric service cable	each	
1.10.5	D-DT-3140	Adjust tensioning on concentric service cable	each	
1.10.6		Pair CIU and educate customer	each	
1.10.7		Return all removed material to Eskom Brackenfell	sum	
1.11		Install new 6Way Or 9Way pole mounted split meter kiosk		
1.11.1	D-WC-6461-10-03	Install pole top box (6 way Or 9way)	each	
1.11.2	DDT 9421	Install Smart meters	each	
1.11.3	D-DT-3140	Install service pole	m	
1.11.4	D-DT-3140	Replace concentric service cable	m	
1.11.5	D-DT-3141	Adjust tensioning on concentric service cable	each	
1.11.6		Pair CIU and educate customer	each	
1.11.7		Return all removed material to Eskom Brackenfell	sum	

ESKOM HOLDINGS SOC Ltd
INSTALLATION OF SMART METERS, DATA CONCENTRATORS AND BULK LOAD LIMITING DEVICES FOR THE
VARIOUS ZONES WITHIN THE CAPE COASTAL CLUSTER (WESTERN CAPE) ON AN "AS AND WHEN" REQUIRED
BASIS FOR A PERIOD OF 3 YEARS. [RETICULATION PROJECTS PANEL CONTRACT](#)

CONTRACT NUMBER _____

1.12		Install 12 way Ground Mounted Split meter kiosk + smart meters	
1.12.1	D-DT 3236	Install 12way Ground Mounted Split meter kiosk + base	each
1.12.2		Install meter	each
1.12.3		Terminate LV service cable	m
1.13		Install DC pole mounted	
1.13.1		Mount DC kiosk	each
1.13.2		Install LV cable between DC kiosk and Transformer bushing	each
1.13.3		Terminate LV cable at DC kiosk using compression gland(Indoor termination)	each
1.13.4		Terminate LV cable at Transformer bushing (Outdoor termination)	each
1.14		Install DC and summation meter inside new type minisub with meter panel	
1.14.1		Mount DC kiosk	each
1.14.2		Connect DC wiring	each
1.14.3		Mount meter	each
1.14.4		Connect meter wiring	each
1.15		Install DC in older minisub	
1.15.1		Install CT/VT kiosks	each
1.15.2		Install CTs on minisub LV busbar	ea
1.15.3		Trenching for multicore LV cable	m3
1.15.4		Laying of LV multicore cable between minisub and CT/VT kiosk	m
1.15.5		Backfilling and compaction for LV multicore cable	m3
1.15.6		Terminating of LV multicore cable on CTs and LV busbar	each
1.15.7		Terminating of LV multicore cable on 3ph meter	each
1.15.8		Terminating of LV multicore cable on DC	each
1.16		Install bulk load limiting solution kiosk 100-200kVA (LPU – Ground mounted)	
1.16.1		Install bulk load limiting kiosks	each
1.16.2		Trenching for LV cable and reroute and terminate existing LV from transformer to Bulk load limiting kiosk.	m3
1.16.3		Laying of LV cable between existing LPU kiosk and Bulk load limiting kiosk	m
1.16.4		Backfilling and compaction for LV cable	m3
1.16.5		Terminate of LV cable	per cable
1.17		Install bulk load limiting solution kiosk 100-200kVA (LPU – Pole mounted)	
1.17.1		Install bulk load limiting kiosks	each
1.17.2		Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.	each
1.17.3		Installation of LV cable between existing LPU kiosk and Bulk load limiting kiosk	m
1.17.4		Terminate LV cable	per cable
1.18		Install bulk load limiting solution kiosk 315-500kVA (LPU -Ground mounted)	
1.18.1		Install bulk load limiting kiosks	each
1.18.2		Trenching for LV cables	m3
1.18.3		Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.	each
1.18.4		Laying of LV cable between existing LPU kiosk and Bulk load limiting kiosk	m
1.18.5		Backfilling and compaction for LV cables	m3
1.18.6		Terminate of LV cable	per cable

ESKOM HOLDINGS SOC Ltd

CONTRACT NUMBER _____

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1.19		Install bulk load limiting solution kiosk 315-500kVA (LPU – Pole mounted)		
1.19.1		Install bulk load limiting kiosks	each	
1.19.2		Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.	each	
1.19.3		Installation of LV cable between existing LPU kiosk and Bulk load limiting kiosk	m	
1.19.4		Terminating of LV cable	per cable	
1.20		Reporting on installations completed		
1.20.1		Submit detailed reports on all installations completed using the template provided		
1.21		Replace 1Ph conventional meter up to 16kVA with smart meter (BS footprint)		
1.21.1		Remove conventional meter	each	
1.21.2		Install preconfigured 1ph smart meter (BS footprint)	each	
1.21.3		Mount external antenna	each	
1.21.4		Pair CIU with new meter	each	
1.21.5		Complete meter movement form	each	
1.21.6		Return all removed material to Eskom Brackenfell		
1.22		Replace 1Ph 16kVA metering kiosk		
1.22.1		Disconnect supply and service cables	each	
1.22.2		Remove existing meter kiosk	each	
1.22.3		Install new kiosk	each	
1.22.4		Reconnect supply and service cables	each	
1.22.5		Mount external antenna	each	
1.22.6		Return all removed material to Eskom Brackenfell		
1.23		Replace 3Ph 25-50 kVA metering kiosk		
1.23.1		Disconnect supply and service cables	each	
1.23.2		Remove existing meter kiosk	each	
1.23.3		Install new kiosk	each	
1.23.4		Reconnect supply and service cables	each	
1.23.5		Mount external antenna	each	
1.23.6		Return all removed material to Eskom Brackenfell	each	
TOTAL SUMMARY C				
Contractor's Signature:				

2025-2028 SMART TECHNOLOGY BoQ Rev0	
TRANSPORT ITEMS	
Current Date: 09-March-26	

BILL OF ACTIVITIES			
ITEM	DESCRIPTION	UNIT	RATE
D	TRANSPORT		
Unless otherwise specified, transport is to be used under specific instruction from the Project Manager only. This excludes staff transport. Staff transport is to be paid to transport workers from base location to site only. LDV/4x4 will only be paid for justifiable use and will be to the sole discretion of the Project Manager			
1.1	LDV 4x2	km	
1.2	LDV/4x4	km	
1.3	Personnel Transport for Staff	km	
1.4	10 m ³ Tipper Truck	km	
1.5	6 m ³ Tipper Truck	km	
1.6	Transport Truck 2-4 ton	km	
1.7	Transport Truck 5-8 ton	km	
1.8	Transport Truck 5-8 ton with crane	km	
1.9	Transport Truck 9-14 ton	km	
1.10	Transport Truck 9-14 ton with crane	km	
SUB-TOTAL D			
WORKER RATES (These rates are only to be used if no other item in the BOQ caters for the activity)			
1.1	Linesman per hour (normal)	hr	
1.2	Labourer per hour (normal)	hr	
1.3	Supervisor per hour (normal)	hr	
SUB-TOTAL D			

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2025-2028 SMART TECHNOLOGY BoQ Rev0			
AD HOC MATERIAL ITEMS			
Current Date: 04-March-26			
E	Adhoc material		
	DESCRIPTION	UNIT	RATE
This schedule is used to assist with all the adhoc material that is purchased on the request of the PM/PC. A % handling fee will be compensated to the contractor for the amount before VAT			
1.1	Material bought	%	
TOTAL - E			
Contractor's Signature:			

PART 3: SCOPE OF WORK

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

C3.1: EMPLOYER'S WORKS INFORMATION

C3.1.1 Works Information

1. Description of the works

- a) The Smart Technology Panel Contract for [Western Cape](#), Cape Coastal Cluster (~~WCOU~~).
- b) A detailed description of the scope of works will be provided with the purchase/works order in the document called "Project Specification" on a project basis which include:
 - a. Site and client's contact details
 - b. Details as indicated on the purchase/works order, including required start and completion dates etc.

The works will generally include the following activities:

To accelerate the rollout of smart technologies that can assist with the reduction of load shedding, the Western Cape requires the following services:

Activity 1: Survey area to determine the installed base of meters and classify installations into predefined categories provided.

- Perform a survey in the allocated area to identify each type of installation.
- Following information to be captured:
 - LV network type (O/H vs U/G)
 - Kiosk type (Split meter vs Distribution)
 - Meter type (ED, ECU or Split meter)
 - Ready board details
 - Meter cover plate required
 - Transformer structure/minisub accessible
 - Outage required for DC installation
- Compile and issue report with detailed information

Activity 2: Replace existing basic split meter with smart meter (Basic split meter installed inside existing pole mounted split meter kiosk to be replaced with smart meter)

- Replace split meter in pole top box with smart meter
- Replace and Pair CIU and explain basic operation to customer
- Complete meter movement form
- Return replaced material to Eskom stores.

DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	1
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Activity 3: Replace existing basic split meter with smart meter (Basic split meter installed inside existing ground mounted split meter kiosk to be replaced with smart meter)

- Replace split meter in ground mounted kiosk with smart meter
- Replace and pair CIU and explain basic operation to customer
- Complete meter movement form
- Return replaced material to stores.

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INSTALLATION OF SMART METERS, DATA CONCENTRATORS AND BULK LOAD LIMITING DEVICES FOR THE VARIOUS ZONES WITHIN THE CAPE COASTAL CLUSTER (WESTERN CAPE) ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF 3 YEARS.[ESKOM HOLDINGS SOC Ltd](#)

- Install meter blank-off plate

DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	1
-------------	--------	---	----	---

Activity 4: Replace existing pole mounted distribution kiosk with Split meter kiosk

- Remove existing pole top distribution kiosk with meters
- Install split meter pole top box with new smart meters
- Reconnect service cables to meters
- Pair CIU with meter
- Return the removed kiosk to Eskom

Activity 5: Replace existing ground mounted kiosk with Split meter kiosk

- Remove shell of existing ground mounted distribution kiosk
- Install retrofit ground mounted split meter pole top kiosk over existing kiosk core.
- Complete wiring
- Pair CIU with meter
- Return the removed kiosk shell to Eskom

Activity 6: Replace existing common base meter (ECU) with smart meter

- Remove ECU
- Replace existing Readyboard with split meter Readyboard
- Complete meter movement form
- Pair CIU with new meter
- Perform commissioning test
- Issue COC

Note: this activity will be performed in addition to the installation of the smart meter inside Split meter kiosk

D-DT 3063	662703	KIT: SPLITMETER WITH BULKHEAD; READYBOARD	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	1

Activity 7: Replace existing common base meter (ED) with smart meter

- Remove ED
- Installation of meter blank-off cover (To by-pass common base)
- Completion of meter movement form
- **Note:** this activity will be performed in addition to the installation of the smart meter inside Split meter kiosk

D-DT 3171	575056	COVER, ACCESS: PROTECTIVE; IVORY B77	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	1

Activity 8: Replace 1Ph conventional meter up to 16kVA with smart meter (Din rail)

ESKOM HOLDINGS SOC LTD

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- Remove conventional meter
- Supply and install Din-rail (60mm)
- Install preconfigured 1ph smart meter
- Pair CIU with new meter
- Complete meter movement form

DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	1
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Activity 9: Replace 3Ph meter up to 50kVA with smart meter

- Remove 3ph meter
- Install preconfigured 3ph Smart meter
- Mount external antenna

DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	9
D-DT 9503	246197	ANTENNA, WEBB ESKANT GSM D9503	EA	1
B/Out		Pop rivets	EA	4

Activity 10: Install new 4Way pole mounted split meter kiosk

- Install pole top box (4 way)
- Install Smart meters
- Install service pole
- Replace concentric service cable
- Adjust tensioning on concentric service cable
- Pair CIU and educate customer
- Return all removed material to Eskom Brackenfell

Note: this activity will be performed in addition to the replacement of a common base meter

Activity 11: Install new 6Way Or 9Way pole mounted split meter kiosk

- Install pole top box (6 way Or 9way)
- Install Smart meters
- Install service pole
- Replace concentric service cable
- Adjust tensioning on concentric service cable
- Pair CIU and educate customer
- Return all removed material to Eskom Brackenfell

Note: this activity will be performed in addition to the replacement of a common base meter

1. Overhead 4 Way				
D-WC-6461-02-02	567826	BOX, POLE TOP, SPLIT METER, 4 WAY	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	4
D-DT-3140	632881	CABLE, ELECT:1000 V; TCU GSW;6 MM2	M	40
2. Overhead 6 Way				
D-WC-6461-10-03	669215	BOX, POLE TOP, SPLIT METER, 6 WAY	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	6
D-DT-3140	632881	CABLE, ELECT:1000 V; TCU GSW;6 MM2	M	40

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3. Overhead 9 Way				
D-WC-6461-10-02	669215	BOX, POLE TOP, SPLIT METER, 9 WAY	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	6
D-DT-3140	632881	CABLE, ELECT:1000 V; TCU GSW;6 MM2	M	40

Activity 12: Install 12-way Ground Mounted Split meter kiosk + smart meters

- Install 12way Ground Mounted Split meter kiosk + base
- Install meter
- Terminate LV service cable

D-DT 3236	615216	KSK MTR:1PH;16 KVA;12 WAY PREPAY	EA	1
DDT 9421	750638	METER, ELECTRICAL SERVICE: TYPE: SMART(DIN) G3-PLC) 80A;	EA	9
D-DT 9503	246197	ANTENNA, WEBB ESKANT GSM D9503	EA	1
B/Out		Pop rivets	EA	4

Note: this activity will be performed in addition to the replacement of a common base meter

Activity 13: Install DC pole mounted

- Mount DC kiosk
- Install LV cable between DC kiosk and Transformer bushing
- Terminate LV cable at DC kiosk using compression gland(Indoor termination)
- Terminate LV cable at Transformer bushing (Outdoor termination)

Overhead line applications Option 1 -Armoured cable

DDT	SAP nr	Description	UOM	Quantity
D-DT 1034	571155	KSK MTR:3PH;0 KVA; DC SECURE POLE MOUNT	EA	1
D-DT 9421	621052	INTERFACE: DC450 G3; PLC DC;230 V (INTERNAL MODEM)	EA	1
D-DT 3110	400900	BUCKLE, STRAP 12 C254 D3110	EA	10
D-DT 3111	400902	STRAP, TIE DOWN: WD 12MM X THK 0.75MM	M	0.35
D-DT 3148	168958	CABLE END 4-25mm SQ D3148	EA	1
D-DT 3102	707881	LUG, CRIMP CU 4.0SQxM12 F/H D3102	EA	4
D-DT 3138	707885	TUBING SET 2.5-4 SQ 4C LV CABLE D3138	EA	1
D-DT 3128	404764	CABLE ELECT:1 KV;4C; CU;4 MM2; STL WIRE	M	3
D-DT 3070	168367	GLAND, CABLE: ADJUSTABLE; NO 1; BRS CD PLTD	EA	1

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Overhead line applications Option 2 -Insulated copper conductors

DDT	SAP nr	Description	UOM	Quantity
D-DT 1034	571155	KSK MTR:3PH;0 KVA; DC SECURE POLE MOUNT	EA	1
D-DT 9421	621052	INTERFACE: DC450 G3; PLC DC;230 V (INTERNAL MODEM)	EA	1
D-DT 3110	400900	BUCKLE, STRAP 12 C254 D3110	EA	10
D-DT 3111	400902	STRAP, TIE DOWN: WD 12MM X THK 0.75MM	M	0.35
D-DT 3039	165494	CLAMP, IPC BIMET 35-95I/6-25I D3039	EA	4
D-DT 3137	400660	WIRE, CU 16SQ 7/1.79 STR PVC BLACK D3137 (4 x 3m)	m	12
D-DT 3070	404471	GLAND, CABLE: COMPRESSION A2; NO 1	EA	4
D-DT 9503	246197	ANTENNA, WEBB ESKANT GSM D9503	EA	1

Activity 14: Install DC and summation meter inside new type minisub with meter panel

- Mount DC kiosk
- Connect DC wiring
- Mount meter
- Connect meter wiring

DDT	SAP nr	Description	UOM	Quantity
D-DT 9421	621052	INTERFACE: DC450 G3; PLC DC;230 V (INTERNAL MODEM)	EA	1
D-DT 9421	686390	Landis+Gyr description: E650 - ZMD405CT44.2407.00 B2 1//5A	EA	1
D-DT 9503	246197	ANTENNA, WEBB ESKANT GSM D9503	EA	1
B/Out		Pop rivets	EA	4

Activity 15: Install DC in older minisub

- Install CT/VT kiosks
- Install CTs on minisub LV busbar
- Trenching for multicore LV cable
- Laying of LV multicore cable between minisub and CT/VT kiosk
- Backfilling and compaction for LV multicore cable
- Terminating of LV multicore cable on CTs and LV busbar
- Terminating of LV multicore cable on 3ph meter
- Terminating of LV multicore cable on DC

DDT	SAP nr	Description	UOM	Quantity
D-DT 9421	621052	INTERFACE: DC450 G3; PLC DC;230 V (INTERNAL MODEM)	EA	1

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D-DT 9421	686390	E650 - ZMD405CT44.2407.00 B2 1//5A	EA	1
D-DT 3236	730492	KSK MTR:3PH;230 V; CTVT	EA	1
D-DT-3128	404761	CABLE ELECT:1 KV;12C; CU;2.5 MM2; STL WIRE	M	15
D-DT-3102	404438	LUG, CRIMP CU 2.5SQxM6 F/H D3102	EA	16
D-DT 3070	168279	GLAND, CABLE: ADJUSTABLE; NO 2;BRS NI PLTD	EA	2
D-DT 9503	246197	ANTENNA, WEBB ESKANT GSM D9503	EA	1

Activity 16: Install bulk load limiting solution kiosk 100-200kVA (LPU – Ground mounted)

- Install bulk load limiting kiosks
- Trenching for LV cable and reroute and terminate existing LV from transformer to Bulk load limiting kiosk.
- Laying of LV cable between existing LPU kiosk and Bulk load limiting kiosk
- Backfilling and compaction for LV cable
- Terminating of LV cable

Activity 17: Install bulk load limiting solution kiosk 100-200kVA (LPU – Pole mounted)

- Install bulk load limiting kiosks
- Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.
- Installation of LV cable between existing LPU kiosk and Bulk load limiting kiosk
- Terminating of LV cables

Activity 18: Install bulk load limiting solution kiosk 315-500kVA (LPU -Ground mounted)

- Install bulk load limiting kiosks
- Trenching for LV cables
- Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.
- Laying of LV cables between existing LPU kiosk and Bulk load limiting kiosk
- Backfilling and compaction for LV cables
- Terminating of LV cables

Activity 19: Install bulk load limiting solution kiosk 315-500kVA (LPU – Pole mounted)

- Install bulk load limiting kiosks
- Reroute and terminate existing LV from transformer to Bulk load limiting kiosk.
- Installation of LV cable between existing LPU kiosk and Bulk load limiting kiosk
- Terminating of LV cable

Activity 20: Reporting on installations completed

- Submit detailed reports on all installations completed using the template provided

Supply of material

DDT	SAP nr	Description
D-DT 1034	571155	KSK MTR:3PH;0 KVA; DC SECURE POLE MOUNT
D-DT 9421	621052	INTERFACE: DC450 G3; PLC DC;230 V (INTERNAL MODEM)
D-DT 3110	400900	BUCKLE, STRAP 12 C254 D3110

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D-DT 3111	400902	STRAP, TIE DOWN: WD 12MM X THK 0.75MM
D-DT 3148	168958	CABLE END 4-25mm SQ D3148
D-DT 3102	707881	LUG, CRIMP CU 4.0SQxM12 F/H D3102
D-DT 3138	707885	TUBING SET 2.5-4 SQ 4C LV CABLE D3138
D-DT 3128	404764	CABLE ELECT:1 KV;4C; CU;4 MM2; STL WIRE
D-DT 3070	168367	GLAND, CABLE: ADJUSTABLE; NO 1; BRS CD PLTD
D-DT 3039	165494	CLAMP, IPC BIMET 35-95I/6-25I D3039
D-DT 3137	400660	WIRE, CU 16SQ 7/1.79 STR PVC BLACK D3137 (4 x 3m)
D-DT 3070	404471	GLAND, CABLE: COMPRESSION A2; NO 1
D-DT 3236	730492	KSK MTR:3PH;230 V; CTVT
D-DT-3128	404761	CABLE ELECT:1 KV;12C; CU;2.5 MM2; STL WIRE
D-DT-3102	404438	LUG, CRIMP CU 2.5SQxM6 F/H D3102
D-DT 3070	168279	GLAND, CABLE: ADJUSTABLE; NO 2; BRS NI PLTD
D-DT 9421	686390	Landis+ E650 - ZMD405CT44.2407.00 B2 1//5A
D-DT 3063	662703	KIT: SPLITMETER WITH BULK HEAD; READYBOARD
D-DT 3171	575056	COVER, ACCESS: PROTECTIVE; IVORY B77
D-WC-6461-02-02	567826	BOX, POLE TOP, SPLIT METER, 4 WAY
D-WC-6461-10-03	669215	BOX, POLE TOP, SPLIT METER, 6 WAY
D-WC-6461-10-02	567825	BOX, POLE TOP, SPLIT METER, 9 WAY
D-DT 3236	615216	KSK MTR:1PH;16 KVA;12 WAY PREPAY
D-DT1048	736858	IED: LOAD LIMITER 100 KVA;400 V
D-DT1048	736860	IED: LOAD LIMITER 200 KVA;400 V
D-DT1048	736859	IED: LOAD LIMITER 315 KVA;400 V
D-DT1048	736861	IED: LOAD LIMITER 500 KVA;400 V

The following scope is covered in the *Provision of Meter Reading Services in the Cape Coastal Cluster*:

Meter Reading activities:

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- Read and record the SPU, LPU & STATS Meters.
- Check that all meter seals are intact.
- Check for meter tampering (1st line).
- Check for any sign of oil leakage at the transformer.
- To see if meter is still operating.
- Check for any other abnormalities on the metering installation.
- Check and confirm the serial number of the meter. If no number visible it must be noted.
- Ad hoc meter read if necessary.
- Provide photos for every meter clearly showing its reading and meter number.
- Move in / Move out.
- Move out - Final meter reading to be taken.
- Move in - Opening meter reading to be taken.

Note: Eskom pay per customer installation reading viz an installation could have one or three meters, but payment is only made for the single installation.

Meter Auditing activities:

- Check that all meter seals are intact.
- Check for any meter tampering (2nd line)
- Check for any sign of oil leakage at transformer.
- Check to see if meter is still operating.
- Check for any other abnormalities on installation.
- Data collection for Customer network link (CNL) every quarter (Jun, Sep, Dec, Mar).
- Provide photos for every meter clearly showing its reading and meter number.
- Conform that the installation is safe.
- Confirm that the meter kiosk is locked.

Note: Eskom pay per customer installation reading viz an installation could have one or three meters, but payment is only made for the single installation.

Data Collection:

- The work requested will be dispatched via the designated Eskom personnel.
- This activity will be co-ordinated in the most cost-effective way.
- The *Contractor* is to have instruments to secure the respective GPS co-ordinates.
- Data to be captured and returned to designate Eskom personnel within agreed timelines.

Note:

The EDA guideline says the device must be able to:

- capture accurate GPS coordinates,
- take clear photos with date/time stamp,
- upload meter and site information, and
- support Eskom's digital field workflows (Service Suite/EDA submission).

2. Management Meetings

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

Title and purpose	Approximate time & interval	Location	Attendance by:
Pre-introductory meeting	Upon request of the Project Manager at an agreed date by all parties	Site	<i>PM, QS, Site Supervisor, Safety and Environmental Representatives and the Contractor.</i>
Introductory meeting	After safety and environmental files have been assessed and approved.	Site	<i>PM, QS, Site Supervisor, Safety and Environmental Representatives and the Contractor.</i>
Toolbox talk and risk assessment	Daily before work begins.	Site	<i>Contractor and Site Supervisor.</i>
Risk register and compensation events	As necessary.	Site	<i>PM, Contractor and Site Supervisor.</i>
Overall contract progress and feedback	On a regular basis as agreed with the Project Team and the Contractor	Site	<i>PM, QS, Contractor, Site Supervisor, and Safety and Environmental Representatives.</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Works Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *works*. Records of these meetings shall be submitted to the *Project 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.

All project instructions are to be issued by the Project Manager only.

3. General

- Material for the proposed projects supplied by the *Contractor* shall be in accordance with the latest revision of Eskom's Distribution Standards (Buyer's Guide), project drawings and specified Bill of Materials
- The onus is on the *Contractor* to obtain the latest revision of standards and procedures applicable
- Damage caused to Eskom or public property as a result of negligence and/or non-compliance by the *Contractor* will be for the *Contractor's* own account
- The *Contractor* should at all times inform the Employer's Representative and the Clerk of Works of any activity that he will be carrying out on site i.e. excavations etc

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- Specialised Services may be required during the term of this contract. These services may be acquired via Subcontracting. The Contractor is to note the conditions for subcontracting contained in this contract.
- The *Contractor's* invoice(s) reflecting the cost of specialist services provided shall have a copy of the specialist services provider's invoice attached.
- The *Contractor's* invoice(s) shall reflect all the invoice(s) for material purchased attached.
- Proof of any cost on the *Contractor's* invoice(s) shall be submitted to the *Employer's* Representative.
- For Works to be provided under this contract, a Response Time of Twenty-Four (24) hours is required unless otherwise stated by the *Employer's* Representative. In the event of a Normal Call-Out for a Breakdown the Response Time will be Three (3) hours from the time of call.
- In the case of an Emergency, meaning a situation with life threatening consequences or a situation that will cause damage to property or equipment, the *Employer's* Representative will state clearly that this is an "Emergency situation and a 1 hour turn around response time will be required. A written works order will follow up the phone call.
- All Tools and/or Equipment to perform all of the Works as per works order shall be supplied by the *Contractor*. The *Employer* will not supply any tools and/or equipment to provide the Works or a part of the Works. The *Contractor* will not be allowed to make use of the *Employer's* Trolleys or Ladders.
- Tools and Equipment entering the Site can be subject to an inspection by the *Employer's* Representative for conformance to safety standards. The latest tool/machinery safety checklist shall be represented at the same time. Should the *Employer's* Representative find any non-conforming item(s) on the Site, the *Employer's* Representative will request the *Contractor's* Responsible Person to remove such non-conforming item(s) from the Site immediately.
- Each task shall be performed in a safe manner at all times for the well being of the *Contractor's* staff and the *Employer's* staff.
- All personal protective clothing and equipment to safely perform all of the Works shall be available on the Site at all times. The Principal *Contractor* and all his/her subcontractors are responsible to make all personal protective clothing and equipment available to all his/her staff.
- No waste or redundant material/spares shall be dumped in the *Employer's* waste bins at the loading bay area or placed in the surrounding area at the waste bins. All waste and redundant material/spares shall be removed from the Site daily by the *Contractor* only to be disposed off at a registered dump site. A Certificate of the safe disposal shall be obtained from the registered dump site by the *Contractor* and placed on record in his/her Health and Safety File. The Site shall be neat and clean at the end of the day. On completion of each task the same shall apply.
- The *Contractor* shall ensure that the work area(s) are properly barricaded before proceeding to provide the Works. Barricading shall be firm and solid, be up at all times and be clearly visible from all angles to the staff, workers and the public. No barricading or part of the barricading shall be removed before all of the Works have been provided.
- The Principal *Contractor* and all his/her Subcontractors shall at all times adhere to the *Employer's* lockout procedure. The *Contractor* is responsible to supply all locks, lockout mechanisms and notices to be displayed to safely lock out all sources of energy e.g. *Mechanical, Electrical, Pneumatic* and *Hydraulic*.
- During this contractual period, should any additions or alterations be made to any of the existing facilities or service systems "Approved As Built Drawings" must be submitted to the *Employer* on completion.
- On completion of this contract the *Contractor* shall hand over to the *Employer's* Representative his/her Health and Safety File. No final payment will be authorized until the *Employer's* Representative is in receipt of the *Contractor's* Health and Safety File.
- On request for a quotation for work via a works/purchase order, a full comprehensive break down on the men, material, machines, transport and whatever else might constitute the work to be supplied in full before commencement of any work related to that specific works/purchase order.

The Following to be noted;

- No Electrical *Contractor* will be allowed to perform any work on an Electrical Installation or a part of the Electrical Installation unless the installation or part of the installation is isolated and made safe. For an Electrical *Contractor* to perform work on a Live Electrical Installation will require the following: (1) LV Authorization. (2) Equipped with a complete set of 1000Volt insulated tools. (3) Equipped with

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the required protective clothing and equipment. (4) Written risk assessments and Safe Work Procedures shall be in place. 5) Permit to work has been issued.

- When the Principal *Contractor* or his/her Subcontractor(s) make use of the Goods Lift(s) to take material to a floor or remove waste from a floor, the Principal *Contractor* shall ensure that the Goods Lift(s) are neat and clean on Completion of the Works. [Pertaining mainly to Bellville & Brackenfell]
- The *Employer's* Representative reserves the right to stop any task/job being performed at any time should the Principal *Contractor* or his/her Subcontractor(s) not comply to the specifications for the task/job and/or when workmanship and/or quality is not to the satisfaction of the *Employer's* Representative.
- Any Employee employed by the *Employer* has the right to stop a task/job at any time should he/she find the Principal *Contractor* or his/her Subcontractor(s) deviating from safety standards and procedures as per the *Employer* and/or the Construction Health and Safety Regulations/Occupational Health and Safety Act [Act 85-1993].
- The *Employer's* Representative reserves the right to send any Employee employed by the Principal *Contractor* or his/her Subcontractor off the Site should the Employee make himself/herself guilty of transgression of **the 5 cardinal rules or any** form of unsatisfactory behaviour.
- All material and/or spares that may become redundant while performing any task/job on the Site shall remain the property of the *Employer* unless otherwise stated by the *Employer's* Representative.
- All open landings, edges or openings in slabs or floors will be protected by fixed solid balustrades of 1,20m high with intermediate supports and rails. Hazard tape shall be wrapped around the full length of the barricade with signage.
- The Contractor's authorisation level shall be based on one of the following:
 - Medium Voltage authorisation as a responsible person (can receive a work permit), test dead and apply working earths in terms of the ORHVS.
 - If the responsible person needs to do work on the LV side, a separate LV authorisation is required.
 - Authorise in terms of Low Voltage, isolate, earth and work on LV network only
 - Low Voltage Live Line Authorisation as a responsible person (can receive work permit)

The Contractor shall refer to the detailed drawings, specifications and works information as attached to this contract and is responsible to ensure work is completed with the latest revision of these relevant documents.

4. Works/Purchase Order Process

- Works/purchase orders shall be issued by the *Employer* to the *Contractor* through the Task Order Committee Terms of Reference at least 5 working days prior commencement of the works.
- The Contractor is expected to review the scope in line with the works order and do the necessary amends to the works order to include the full scope to be completed for the stipulated construction period.
- A works/task order is only complete once this instruction has been fully completed, signed by both parties, a purchase order number has been issued, and the access certificate has been handed to the Contractor.
- The Contractor may accept / reject (with reason) work as per works/purchase order within the *Period for Reply*.
- Details of the *works* required will be issued as an Activity List within the works Order as per Price List attached to this contract
- The following to be completed per Works/Purchase Order.
 - Detail of the Project
 - *Start and Completion* dates

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- Purchase Order Number (i.e., 45-number)
- WBS Number
- SAP ID number of *Employer's Representative*
- Construction execution checklist
- Any discrepancies picked up by the *Contractor* regarding the Works/Purchase Order must immediately be brought to the attention of the *Employer*.
- Should any changes be required during the construction period, the Contractor should bring this to the attention of the Employer/Project Manager. Only once approval has been granted via a written instruction, can the Contractor proceed with these changes.
- Work can only commence once the Contractor is given a valid 45 number.

5. Compensation Events and Overtime

- Compensation events and overtime will only be applicable when a written approval was issued by the *Employer's representative*. The *Employer* will instruct the *Contractor* to provide a quotation for a valid compensation.
- The *Employer* will accept (as per Event Register) or reject the compensation event.
- Compensation rates shall not be used for works that are already listed and priced for in the Activity Price List
- Overtime will be applied as a compensation only when instructed and agreed by the *Employer*

The following where stated in the Pricelist, will only be reimbursed when proof of payment is provided;

- Re –imbursement for Accommodation shall be based on actual cost
- Re –imbursement for material shall be based on actual cost
- Re –imbursement for PPE shall be based on actual cost

6. Inspection and commissioning

- The *Contractor* shall complete the standard Eskom quality check sheets for Smart Technology in conjunction with the *Employer*, Clerk of Works and Project Engineer and ensure compliance prior to requesting the *Employer*, Clerk of Works and Project Engineer to inspect.
- All additional costs for non-compliance requiring additional inspections will be borne by the *Contractor*.
- The *Contractor* shall notify the *Employer* and Clerk of Works at **least 5 working days prior to requiring** an inspection. A date and time will be arranged to meet on site and conduct such an inspection. The *Employer* and Clerk of Works will keep a formal signed off checklist of the inspection on record.
- The *Contractor* shall ensure that no network shall be energized without the written permission of the *Employer* or the *Employer's Representative* (Clerk of Works).
- Ensure that copies of the Certificates of Compliance are kept on file in terms of the ORHVS and that the original Certificates of Compliance are handed over to the *Employer*. Copies of the COC to be distributed as follows:
 - Client to get one copy
 - Applicable CNC to get one copy
 - Project Management, Project Co-ordinator to get the original with issue of invoice by *Contractor*

7. Drawings

The drawings/specs are on the SCOT SharePoint, links copied out below:

<file:///172.29.58.95/Test%20Share/BG/3000/3236.pdf>

<file:///172.29.58.95/Test%20Share/BG/1000/1034.pdf>

<file:///172.29.58.95/Test%20Share/BG/3000/3128.pdf>

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Accessibility to Eskom Technology Standards

The contractor is to confirm that accessibility to Eskom Technical Standards Website is secured prior to commencement of the project. The accessibility to the website may be acquired by contacting the following persons.

1. Brenda Morrison
Assistant Officer
Tel: 011 629 5266
Fax: 086 662 6387
Brenda.morrison@eskom.co.za

2. Kevin Layley
Document Controller
Technology
Power Delivery Engineering
Design Base Operating Unit Support
Tel +27 11 800 6181
E-mail Kevin.Layley@eskom.co.za

8. Specifications

The documents below form part of this legal binding contract, the *Contractor* confirms that he has familiarized himself with all the documents from 1 to 25 as indicated. For access to these documents please liaise with Procurement.

No	UNIQUE IDENTIFIER	REVISION	DOCUMENT TITLE
1	32 - 727	0	SAFETY, HEALTH, ENVIRONMENT AND QUALITY (SHEQ) POLICY 32-727
2	32 - 136	0	CONSTRUCTION SAFETY HEALTH AND ENVIRONMENTAL MANAGEMENT
3	32-524	0	DEVELOPING A SAFETY, HEALTH AND ENVIRONMENTAL SPECIFICATION
4	34 - 333	1	HEALTH AND SAFETY REQUIREMENTS TO BE MET BY PRINCIPAL CONTRACTORS EMPLOYED BY ESKOM DISTRIBUTION 34-333
5	ESKOM LIFE SAVING RULES	1	ESKOM LIFE SAVING RULES 240-62196227
6	CONSTRUCTION REG 3		NOTIFICATION OF CONSTRUCTION WORK TO DEPARTMENT OF LABOUR

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7	CONSTRUCTION REG 4 & 5		APPOINTMENT LETTERS FOR CLIENT REPRESENTATIVE, PRINCIPAL CONTRACTOR & CONTRACTOR
8 & 9	OHS ACT	1	WRITTEN AGREEMENT ON OHS ACT SECTION 37(2) & STANDARD CLAUSE
10, 11 & 12	34 - 1063	0	EXPANDED PUBLIC WORKS REPORT 34-1063.
13	<u>DST 34-961</u>	0	LEGAL APPOINTMENTS AND AUTHORIZATIONS
14	TPC 41-55		TRANSPORTING PERSONS ON BACK OF VEHICLES
15	LTIR	MASTER	LOST TIME INJURY REPORT
16	1. Contractor Performance Evaluation	MASTER	
17	2. Supplier Contract Quality Requirements	MASTER	
18	3. Hard Hat Specifications OHS 01/12/	MASTER	
19	4. Identifying, Analysing, Documenting and Observing Tasks according to Criticality.	REV 1	
20	5. Health & Safety Representatives inspection reports and guidelines	REV 1	
21	6. Work at Heights Procedure	REV 1	
22	7. SHE Requirements for the Eskom Commercial Process	REV 1	

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23	8. Vehicle Safety	REV 0	
24	9. 32-95 Environmental Occupational Health and Safety Incident Management Procedure	REV 5	
25	10. Risk Audit System Template	REV 0	

Acknowledgement by Contractor

I/WE, DO HEREBY ACKNOWLEDGE HAVING READ AND UNDERSTOOD THE ABOVE ANNEXED DOCUMENTS FROM 1 TO 25 IN SECTION 1.3.2 OF THIS CONTRACT.

I/WE UNDERTAKE TO STUDY AND ABIDE BY THESE REQUIREMENTS AT ALL TIME.

SIGNED AT: ON THE DAY OF 20.....

Note: Please return the above pages with the other tender returnables to the Eskom office that issued this enquiry after complying with the above.

9. Constraints on how the Contractor Provides the Works

9.1 Meetings

Adhoc meetings arranged by Employer's representative or Contractor to discuss progress or any contract related matter which cannot be resolved via other communication method

9.2 Use of standard forms

The Contractor to utilise or ensure utilisation of the following standard forms and letters during the administration of the contract;

- Access to the work.
- Completion Certificate
- Defects Certificate
- Event Register
- Payment Certificate
- Project Manager's Instruction
- Termination Certificate
- Delay Damages for Non-completion
- Early Warning
- Notification of Default
- Notification of Defect
- Notification of Dispute
- Rate of Progress
- Termination Notification
- Contractor Performance Appraisal

10. Insurances

The contractor shall ensure that they submit a copy of their company Insurances at tender stage, this should include, Contractor All risk, public liability and third party insurances.

11. Authorisations

The nature of this contract scope requires authorisation as works will be performed within or close proximity of "live" conditions. It is therefore the responsibility of the Contractor to ensure that he maintains his **Western Cape Authorisation for the full duration of this Contract**. There are limited projects that does NOT require authorisation and as a result, should you not have authorisation, we cannot guarantee that works/purchase order request will be issued.

12. Quality Assurance and Quality Plan

- "Quality Assurance Requirements: The *Contractor* shall comply with all quality requirements as set out in the document QM-58 i.e. Eskom Contract Quality Requirements Specification.
- The *Contractor* shall comply with ISO9001:2008 Quality Management System Requirements.
- The *Contractor* shall comply with all other regulatory and statutory requirements applicable to the *works*.
- The *Contractor* needs to submit a quality plan indicating the control points for quality to ensure that the *works* are done according to specification.

13. Access to the site

- The *Employer* will provide the *Contractor* with an Access Certificate to formally provide access to the site and *works* implementation.
- The *Contractor* shall ensure that he is familiar with conditions of access roads and sites as well as subsurface conditions.
- The *Contractor* will adhere to all the requirements as per the specification **Access to Farms** which includes, but is not restricted to:
 - Identity cards with photographs
 - Clearly marked vehicles NB: All contractor vehicles need to be marked with a sticker stating "Eskom Contractor" but should be on Eskom Standard. All Contractor staff should be identifiable by the use of PPE and gibbons reflecting company's name.
 - Cooperation in order to help Eskom provide the customer with a project schedule reflecting the period during which the construction and commissioning activities will take place.
- The *Contractor* shall be responsible for negotiation with customers/landowners with regard to use of access routes on farms etc.
- The *Contractor* will be responsible for negotiation with land or business owners and / or the Local Authority with regard to the *works*.
- The *Contractor* will be responsible for external disputes which may occur with regard to the *works*.
- The *Contractor* is required to make all the necessary arrangements with the Local Authorities for road crossing structures and removal thereof, e.g. Removal of pavements, thrust boring under roads, wayleaves, etc.

14. Material and Bill of Quantities

- The *Employer* shall supply all required materials to complete the *works* and deliver it to site or *Contractor's* store unless otherwise agreed.
- All dismantled and unused material, unless otherwise instructed by the *Employer*, are to be returned to the Brackenfell stores on completion of the *works* as per Works Order.
- Contractors will be instructed by the Project Manager to collect material from Brackenfell on weekly basis.
 - a. Supply of ad hoc material by Contractor:

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- In the event that Eskom cannot procure material for any of the projects executed under this contract within the required timeframes, the Contractor will be requested to submit a quotation/s in order to supply this material.
 - The Employer will assess the quotation and provide an instruction to proceed with the procurement of such material.
 - Contractor will only be reimbursed for material purchases upon submission of the actual supplier invoice. This should be submitted with the Contractor's progress claims.
- b. Storage of all material issued by Eskom
- Contractors should have sufficient space and capacity at their facilities to store all material related to this project.
 - Contractors take full accountability of all materials (as well as the replacement and management thereof) once delivered and handed over by Eskom.
 - Contractor to adhere to good housekeeping practises when storing material.

15. Interaction with Customers / Parties affected

- The *Contractor* shall be responsible for negotiation with customers with regard to use of access routes on farms etc.
- The Contractor will be responsible for negotiation with land or business owners and / or the Local Authority with regard to the works
- The *Contractor* shall be responsible for adequate liaison with all landowners affected during the project to ensure that they are aware of the location of the *Contractor* at all times as well as the estimated time the *Contractor* will be working on the premises.
- The *Contractor* shall adequately inform the land-owners on the number of employees that will be working on the land-owners land at one particular time.
- The *Contractor* shall negotiate access with property owners for the erection of the network and installation of service connections.
- The *Contractor* is required to make all the necessary arrangements with the Local Authorities for road crossing structures and removal thereof.
- The *Contractor* may exercise the option to use a Liaison Officer (e.g. CLO – Community Liaison Officer) for interaction with Customers or parties affected. The onus is on the Contractor to liaise with the Ward Councillor to acquire the relevant CLO
- The Contractor will be responsible for external disputes which may occur with regard to the works

16. Carrying out the works

- The Scope of "*Works*" is an extension of the drawings, specifications and bills of quantities listed. The *Contractor* shall notify the *Employer* of any discrepancies before commencement of the *work*.
- The *Contractor* shall familiarize himself with all existing services (water, electricity, sewage, etc) prior to starting of the *works*.
- The onus is on the *Contractor* to obtain the latest revision of standards applicable at the time of issue of the Works Order.
- The *Contractor* is required to supply all labour, plant, equipment, loose tools and transport for the duration and completion of the project.
- The *Contractor* to use local labour at various sites as encouraged by the Department of Public Works in their latest document "**Framework for the Implementation of Labour-Intensive Projects under the Expanded Public Works Programme (EPWP)**". The Contractor to ensure liaising and meeting with the relevant Ward Councillor to obtain Community Liaison Officer (CLO) to assist in acquiring localised labour as required by the EPWP.
- The *Contractor* will ensure that testing and commissioning of installations takes place where applicable as per the handover document attached to this contract and that all required Certificates of Compliance are completed.
- *Contractor* to provide breakdown of all costs for the execution of the *works* of the complete project.
- The *Contractor* must immediately notify the *Employer* in writing of scope and compensation events. .

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- The *Contractor* will report all obstacles or risks on site that could impact on time, cost, quality, environmental as well as health and safety in writing to the *Employer*. In the event of an emergency, the *Contractor* will report the incident immediately to the *Employer*
- The *Contractor* shall ensure that all Construction work is carried out in accordance with all other statutory requirements applicable to the area.
- The *Contractor* shall ensure that all Construction work is carried out in accordance with Eskom's specifications, standards and regulations including the CD containing "A Technical brief for Electrical Reticulation Projects" handed to and signed for by the *Contractor*.
- The *Contractor* is responsible for providing all PPE for the duration and completion of this contract per project. Contractor should provide a list of their permanent staff as well as submit copies of the ID docs of the temporary staff whom they will provide PPE for.

17. Expanded Public Works Programme (EPWP)

- The contractor must report all local/temporary labourers employed in a project. The cost of employing such labour will be inclusive in the activity/item in the price list. No additional costs will be paid.
- The contractor is to submit the completed EPWP report with the submission of each progress claim.
- The contractor must submit REV 7EPWP report together with the assessment claim for payment. This template could change during the course of this contract and the latest applicable template should apply at all times.
- The contractor is responsible for assisting Eskom in reporting all work done.
- No payment will be certified without the required report being submitted

18. Lost Time Injury Report (LTIR)/OHS Stats Report of Man Hours and incidents

- The Contractor must submit this report with each payment assessment claim for all Smart meter projects.
- The Contractor must also submit a monthly Man-hours report for work done on all Smart meter projects.

19. Wayleaves and other

- The *Contractor* shall adhere to all the requirements of the applicable Local Authority or Metrorail when arranging and completing road and rail crossing.
- All costs for damaged fences and road reserve shall be borne by the *Contractor*.

20. Subcontracting

The Contractor should ensure that a vetting/evaluation process is done on all his subcontractors performing work under this contract. This process will determine whether the subcontractor meets the Employers' minimum requirements and has the technical capability to perform the scope. This process will follow after the Employer's acceptance of the said subcontractor and prior to his appointment to perform the scope.

The vetting/evaluation process could include an internal evaluation by the Employer. (Note: In order to determine whether this is a requirement for your subcontractor, please consult with the *Employer's representative/project coordinator*).

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IMPORTANT NOTE: The principle Contractor is not allowed to subcontract more than 30% of the scope of work to his subcontractor. In reference to Panel/term contracts; a Principle contractor may not subcontract work to another Contractor on the same panel.

12.1 Subcontractor requirements

The principle Contractor must ensure that his proposed subcontractor has the following documentation on record (for access by the Employer) before the appointment.

- Valid accreditations, authorization and/or Registration necessary to perform the scope
- Signed 37.2 agreement between Principle Contractor and Subcontractor
- Approved H&S plan for the subcontractor's portion of the works.
- Principle contractor to ensure his subcontractor complies with the construction regulations. E.g. Where security services are subcontracted the Contract is to ensure that Eskom Protective Services department has vetted and approve the security subcontractor before they can be mobilized OR in the case of Bush clearing, that this appointment is done via relevant Eskom department (Land Development/Environmental)
- A signed written contract that clearly outlines the roles and responsibilities of each party - must exist between the principal contractor and sub-contractor/s preferably in the NEC Engineering and Construction Subcontract or Short Subcontract form.
- Subcontractor should submit a valid Tax clearance certificate to the principle contractor.
- Subcontractors should comply with relevant requirements of the Skills Levies Act, Unemployment Insurance Fund Act and the Compensation of Occupational Injuries and Diseases Act.
- Have the required CIDB grading in place to execute the scope.
- Compliance to approved Safety, Health, Environmental and Quality plans

The contractor to indicate the percentage of subcontracting, the proposed subcontractors together with their BBBEE statuses, and the sources of assets, goods or services when local content and production criteria are applicable. The NEC system is compulsory for all subcontract documentation.

21. Retention

Eskom will retain 2.5% of each payment certificate issued under this contract for SDL&I performance. The 2.5% will only be reimbursed to the supplier at the end of the contract term if the contractor fulfilled its SDL&I obligations. Every contract should be accompanied by the SDL&I implementation schedule which must be completed by the supplier and returned to SDL&I within 30 days of contract award.

It shall be used as a reference document for monitoring, measuring and reporting on the supplier's progress in delivering on their stated SDL&I commitments.

In addition to this, a further 5% retention will be deducted on all Smart meter projects.

22. Payment and Invoicing

May 2019 Rev0

PAYMENT PROCESS – Project Execution WCOU

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In an endeavour to reduce the time taken to pay suppliers/contractors, the process now allows submission of invoices from manual to electronic submission via e-mail to invoiceseskomlocal@eskom.co.za
The *Contractor* assesses the amount due and applies to the *Employer* for payment adhering to the following payment process:

item	ACTIVITY	RESPONSIBLE PERSON
1	<ul style="list-style-type: none"> The <i>Contractor</i> to forward to the PC an Assessment of work completed on the <i>assessment day</i>. (i.e. as per NEC3 Payment Certificate format as attached to this contract with supporting Bill of Quantities and cost). The <i>Contractor</i> attaches the detail assessment of the amount due to each tax invoice showing the Price for Work Done to Date for each item in the Price List for work which he has completed. 	<i>Contractor</i>
2	<ul style="list-style-type: none"> PC/PM (known as <i>Employer</i>) together with the <i>Contractor</i> agrees to the Assessment. Any possible issues regarding the claim of actual work completed will be addressed with the <i>Contractor</i>. 	PC/PM and <i>Contractor</i>
3	PC/PM will thereafter submit Assessment to the relevant QS to compile a Payment Certificate	PC/PM
4	Once the Assessment is verified, the Payment Certificate will be compiled and signed by the QS and handed over to the PC/PM	QS
5	The PC/PM will check the Payment Certificate with Assessment and request the Project Controller to process the required detail on the SAP system	PC/PM
6	The Project Controller to process the Service Entry on SAP and create a SE Number	Project Controller
7	The Project Controller to notify PC/PM once the SE number is generated	Project Controller
8	The PC/PM will then approve the SE on SAP thereby generating a Good Receipt (GR) number	PC/PM
9	The SE number and the GR number to be populated on the Payment Certificate	PC/PM
10	PC/PM to sign and issue the Payment Certificate to <i>Contractor</i>	PC/PM
11	On receipt of the Payment Certificate with the SE and GR numbers, the <i>Contractor</i> will sign the Payment Certificate and, together with the relevant invoice, submit directly to invoiceseskomlocal@eskom.co.za	<i>Contractor</i>
Project Co-ordinator – PC; Quantity Surveyor – QS ; Service Entry – SE ; Goods Receipt – GR; Employer’s Representative or Programme Manager - PM SAP - Financial Accounting System		

In terms of core clause 50 the *Contractor* assesses the amount due and applies to the *Employer* for payment. The *Contractor* applies for payment with a tax invoice addressed to the *Employer* as follows:

The *Contractor* includes the following information on each tax invoice:

- Name and address of the Contractor

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- The contract number (46...) and title as well as Purchase Order Number (45...);
- The total Price for Work Done to Date which the Contractor has completed;
- Other amounts to be paid to the Contractor;
- Less amounts to be paid by or retained from the Contractor;
- The change in the amount due since the previous payment being the invoiced amount - excluding VAT, the VAT and including VAT;
- (add other as required)

In addition;

1. The words "**TAX INVOICE**" in a prominent place (preferably at the top of the page).
2. **Name, address** and **VAT registration number** of the **supplier/contractor**.
3. **Name, address** and **VAT registration number** of the **recipient**.

Please note: Eskom's name has to be reflected as **Eskom Holdings SOC Limited** on all tax invoices and Eskom's VAT number is 4740101508. The word just Eskom is not acceptable.

4. An **individual serial number** (tax invoice number) and **date issued**.
5. A **full and proper description** of goods and/or services supplied.

Please note: Merely referring to a contract is not sufficient.

6. The **quantity** or **volume** of goods or services supplied.
7. Ensure that the Eskom Purchase Order Number is clearly indicated on your invoice together with the line number on the order you are billing for
8. Where the supply is subject to VAT at the standard rate, the following in Rand:
 - The pre-VAT value, VAT amount and consideration OR
 - The total consideration with a statement that VAT is included @15% OR
 - The total consideration and the Rand amount of VAT charged.

Invoice Submission:

- All electronic invoices must be sent in PDF format only
- Each PDF file should contain one invoice; or one debit note; or one credit note only. Eskom SAP system does not support more than one PDF being linked into workflow at a time
- Only one PDF file per email. (i.e. one invoice or one debit note or one credit note only)
- Send all invoices in PDF straight from your system to the Eskom email address i.e. invoiceseskomlocal@eskom.co.za

Follow-up with Finance Shared Services (FSS):

All queries and follow-up on invoice payments should be made by contacting the FSS Contact Centre at +27 11 800 5060 or email fss@eskom.co.za

Introducing electronic invoicing does not guarantee payment, but will ensure visibility of all invoices as well as ensure that no invoices are lost. If the Goods Receipt (GR) is **not** done, the invoice will be parked and the system will automatically send an email to the end user to do the GR. This is also tracked by Eskom through the park invoice report.

Your company can request a park invoice report from the Finance Shared Services (FSS) Contact Center which can then be followed up and corrected. You are welcome to forward the details of invoices corrected to the FSS Contact Center.

23. Performance Management

- The *Contractor's* Performance will be assessed in accordance with the **Performance Appraisal Process** attached to this contract at completion of each works order.
- The signed Contractor performance appraisal needs **to be submitted with the final invoice/payment** for each works order.

24. Health and Safety Management

The *Contractor* shall ensure adherence to Eskom Life Saving Rules at all times.

Note: Contravention to any of the Eskom Life Saving rules, can result in termination of the contract subject to the outcome on an investigation.

RULE 1: OPEN, ISOLATE, TEST, EARTH, BOND AND/OR INSULATE BEFORE TOUCH

No person may work on any electrical network unless:

- He / she is trained and authorised as competent for the task to be done.
- A pre-task risk assessment to identify all risks and hazards must be conducted prior to any work commencing.
- An equi-potential zone is created for each worker on the job site by earthing, bonding and/or insulating according to approved divisional procedures.
- All conducting material is connected together, all staff onsite wear electrical safety shoes and insulating techniques are applied according to standards.
- The authorised person (Team leader) has certified and shown all team members that the apparatus is safe to work on. He / she is trained and authorised as competent for the task to be done.
- *Contractor* to take precautionary measures when working in close proximity to other power lines.
- Jumper covering is provided to serve as an overhead jumper protection covering above solid cut-outs to reduce bird electrocutions

RULE 2 : HOOK UP AT HEIGHTS

Working at height is defined as any work where an activity above 2 metres is performed from ladders, scaffolds, platforms, buckets, excavation, structures or where there is a potential for a fall. A pre-task risk assessment to identify all risks and hazards must be conducted prior to any work at height commencing.

No person may work at height where there is a risk of falling unless:

- You are appropriately trained.
- You are appropriately secured during ascending and descending.
- You are using an approved fall arrest system where applicable

The *Contractor* must be aware of the operating heights when working under HV lines.

RULE 3 : BUCKLE UP

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No person may drive any vehicle on Eskom business:
Unless the driver and all passengers are wearing seat belt

RULE 4: BE SOBER

No person is allowed to work under the influence of drugs and alcohol. Under-the-influence' means the use of alcohol, drugs and /or a controlled substance to the extent that:

- The individuals faculties are in any way impaired by the consumption or use of the substances or;
- The individual is unable to perform in a safe, productive manner or;
- The individual has a level of any such substance in his body that corresponds with or exceeds accepted medical/legal standards or;
- The individual has a level of alcohol in his body that is greater than 0,02 % blood alcohol concentration.
- Any level of an illegal substance in the body' irrespective of when the substance was used

RULE 5: ENSURE THAT YOU HAVE A PERMIT TO WORK

Where an authorisation limitation dictates, no person shall work without the required Permit to Work. (PTW)

- Work is as defined in the Plant Safety Regulations (PSR) and Operating Regulations for High Voltage Systems (ORHVS) of Eskom.
- A Risk Assessment must be carried out jointly by the Authorised (AP) and Responsible Person (RP) on all work before it commences.
- The PTW must be issued by an AP, in accordance with the PSR.
- The PTW must be accepted in writing by an authorised RP.
- The PTW shall be shown to everyone working on the job and the risks explained.
- The RP must ensure that all staff working on that job is entered on a Workers' Register and the risks explained to each one.
- The RP must ensure that the conditions of the PTW are enforced for the duration of the work.

SHEQ REQUIREMENTS:

In compliance to Eskom's SHEQ Policy, the Contractor to ensure;

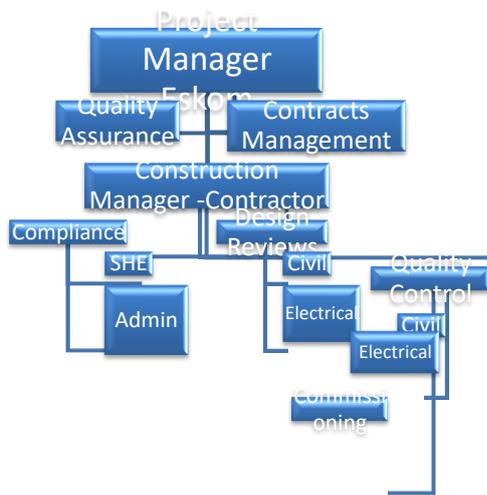
- Commitment to safety, health and environmental excellence
- Conduct business with respect and care for people and minimise or avoid impact on the environment
- Compliance to environmental legislation, conditions of Environmental Authorisations and requirements set out in environmental management plans
- Acceptance that all injuries and occupational illnesses, as well as safety and environmental incidents are preventable

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- Report, respond to, investigate, close-out, and share learning from safety and environmental incidents
- That SHE is an integral part of your operations and that:
 - no operating condition, or urgency of service, can justify endangering the life of anyone or cause injury or damage to the environment

In addition, the *Contractor* to ensure as a **tender returnable** the following information (as per organogram) is provided to the *Employer*, stating who the relevant qualified person is as per various role levels of the below organogram with all required credentials.



Other Health & Safety Requirements:

- **The Contractor shall comply with:**
 - The **Occupational Health and Safety Act, 1993**, and all regulations made there under as per the standard clause Z6, stipulated on page 8 of this contract.
 - The **Construction Regulations, 2003**.
 - The Health and Safety Requirements of the *Employer* more fully set out in Distribution Standards **34-333** (The Contractor will sign page 36 of the specification as acknowledgement of receipt and adherence)
 - All Eskom Safety and Operating Procedures as outlined in the **ORHVS (Operating Regulations on High Voltage Systems)** and the standards attached to this document i.e. 34-145 and 34-146.
 - The Contractor shall ensure that the Site Supervisor has a valid and applicable ORHVS Authorisation. Should a Contractor be in the process of having an in-house employee authorised, then he should indicate by schedule as to when the person will be fully authorised. This however should be finalised before tenders are evaluated and proof thereof provided.
- The Contractor shall ensure that the Contractor's Responsible Person shall supervise the works at all times and be available to take permits where necessary.

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- The Contractor shall appoint a person who will liaise with the Eskom Safety Officer responsible for the premises relevant to this contract.

"LEGAL COMPLIANCE TO CONSTRUCTION REGULATIONS 2014 Regulation 8(5 and6)

Appointment of Construction Health and Safety Officer (CHSO) and Professional Registration:

The 2014 Construction Regulations were promulgated in February 2014 and have fundamental implications on Eskom and its contractors. These regulations describe the requirements and obligations that are binding and applicable to all persons involved in construction work.

One of the fundamental requirements focuses on professional registration, where a contractor must appoint in writing, a full time or part time Construction Health and Safety Officer (CHSO) after consultation with the client and after having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site. No contractor may appoint a CHSO who is not registered with the South African Council for the Project and Construction Management Professions (SACPCMP) and has necessary competencies and resources. The CHSO's involvement is generally to assist with the control of all health and safety related aspects on site. This will be effective as of 6th August 2015."

- The person so appointed shall:
 - supply the Eskom Safety Officer with copies of minutes of all Health and Safety Committee meetings (if relevant), on a monthly basis.
 - supply the Eskom Safety Officer with copies of all appointments in respect of employees employed on this contract, in terms of the Act and Regulations and shall advise the Eskom Safety Officer of any changes thereto – to be handed over to the *Employer* prior to construction start.
- Eskom may, at any stage during the currency of this agreement, be entitled to;
 - do safety audits at the *Contractor's* premises, its work-places and on its employees;
 - refuse any employee, sub-contractor or agent of the *Contractor* access to its premises if such person has been found to commit any unlawful act or any unsafe working practice or is found to be not authorized or qualified in terms of the Act
 - issue the *Contractor* with a work stop order or a compliance order should Eskom become aware of any unsafe working procedures or conditions or any non-compliance with the Act, Regulations and Procedures referred to in 1 above by the *Contractor* or any of its employees, sub-contractors or agents.
- No extension of time will be allowed as a result of any action taken by Eskom in terms of the above and the *Contractor shall* have no claim against Eskom as a result thereof. Furthermore, no amendments to the Act or the Regulations or reasonable amendment to Eskom's Safety and Operating Procedures will entitle the *Contractor* to claim any additional costs incurred in complying therewith from Eskom.
- The *Contractor* shall be responsible for all expenses incurred to ensure adherence to Health and Safety Regulations as stipulated above which includes but is not restricted to ORHVS training courses, etc.
- Typically, the identified risks as listed in the "Health & Safety Specification" for this contract which could endanger persons/*works* as per scope of work to be completed by the *Contractor*. Specific risks, related to this project are as follows:

NB: To be prepared when issuing Works/Purchase Order, Site Specific

Typical Risk	Y/N	Detailed Description
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LIVE UNDERGROUND CABLES		
WORK IN LIVE CHAMBERS/RESTRICTED AREAS		
LIVE OVERHEAD CONDUCTORS/CROSSINGS		
CLOSE PROXIMITY WORK TO LIVE EQUIPMENT		
OPERATING OF CRANES/VEHICLE MOUNTED		
STATIC ELECTRICITY/INDUCTION		
WORK WITH CHAINSAWS/MECHANICAL CUTTERS		
MATERIALS HANDLING/ HEAVY EQUIPMENT HANDLING		
CONDUCTOR STRINGING AND TENSIONING		
VEHICLE RISKS		
WORK IN OPEN TRENCHES/EXCAVATIONS		
BIOLOGICAL/HEALTH RISKS (CAMPS)		
WEATHER RELATED RISKS (UV, HEAT, COLD, WIND, RAIN, SNOW, ETC.)		
ENVIRONMENTAL RISKS		
ERGONOMIC RISKS (BODY POSITION, FATIGUE)		
WORK ON/DISMANTLING OF RUSTED & ROTTEN POLES AND STRUCTURES		
FIRE RISKS		
PUBLIC SAFETY RISKS		
WORK CLOSE TO PUBLIC ROADS		
WORKING IN ENVIRONMENTAL SENSITIVE AREA		
HISTORICAL EVENTS THAT COULD INFLUENCE THE PROJECT, I.E. CURRENT STRUCTURE DESIGNS, AGE OF STRUCTURES TO BE WORKED ON, ETC		
DEMOGRAPHICS OF THE AREA		

- **THE CONTRACTOR SHALL IDENTIFY MITIGATION ACTIONS FOR ALL IDENTIFIED RISKS, AS WELL AS IDENTIFY ANY ADDITIONAL RISKS AND INCLUDE IT IN THE HEALTH AND SAFETY PLAN TO BE PROVIDED TO THE EMPLOYER ON TENDER RETURN.**

25. Compensation for Occupational Injuries and Diseases (COID) Act

The *Contractor* shall submit with his tender proof of adherence to the above Act.

- To be completed per project and submitted to *Employer's* Representatives as per works order.

26. Quality of workmanship

- The *Contractor* is required to employ a competent Supervisor or Foreman on site for the duration of the project to implement workmanship quality checks. The Supervisor / Foreman appointed by the *Contractor* must be authorized to take a permit in terms of ORHVS and working earths.
- Eskom will do inspections and quality checks on installations completed by the *Contractor* prior to hand-over of each project.

27. Environmental Management

- The *Contractor* shall receive a Generic Environmental Management Plan where applicable and *Contractor* shall manage the documents.
- Specific Environmental Management Plans might be applicable to some projects. The specific EMP shall be handed over to the *Contractor* at commencement of the project and the *Contractor* shall manage it accordingly.
- All environmental legal Liabilities and claims arising from the activities of the *Contractor* shall be for the *Contractors* expense and shall be priced for in the P&G's Price List.
- The *Contractor* is required to have an understanding of Eskom's basic environmental principles and commitments.
- No open fires will be allowed on Site.
- Existing roads or tracks are to be used as far as possible.

28. Construction Safety

- The *Contractor* shall comply with other Safety application provisions of Government, Provincial, Municipal Safety Laws, Building, Construction, Electricity Regulations and Eskom Distribution Standards.
- The *Contractor* shall accept full responsibility for the means, methods, sequence or procedures of construction for safety precautions or programmes incident to the work of the *contractor*.
- The *Contractor* is required to submit a working methodology statement with regards to the Safety Standards while working within hazardous areas such as live substations or in close proximity of energized apparatus and/or lines.
- The *Contractor* shall indemnify the *Employer* and the Engineer against responsibility for safety on the site of the works.
- Reference of the Safety Methodology Statement can be found in the Government Occupational Health and Safety Act (Act 85 of 1993) and Construction Regulations Document which is publicly available.
- Typically, RISK ANALYSIS IDENTIFYING RISKS THAT could endanger the work as done by the *Contractor* will be done per Works Order. The *Contractor* should identify mitigation actions for these risks, as well as identify any additional risks and submit at tender
- The safety of the *Contractors* personnel and employees acquire precedence over the construction works.
- The *Contractor* shall submit a Safety Plan to the *Employer* within one week of award of contract prior to starting on site. The Safety Plan to be assessed by the *Employers* Representative where after on approval will the *Contractor* be allowed access to site.

29. Handover on completion

1. On completion of the works as indicated on the works order, the Contractor shall complete the installation by adhering to all requirements as stipulated in the Handover Procedure as attached to this contract.
2. The Contractor shall negotiate with the *Employer* a reasonable handover date for each project.
3. At the handover meeting, all relevant requirements as per the Handover procedure shall be adhered to by the Contractor. The *Employer's* representative shall only verify the handover documentation.
4. All relevant test readings, including earth readings shall be indicated by the Contractor on the Handover Documentation. All test readings shall be done according to Eskom Specifications and Standards.

30. General

1. Except for site management and specialized labour such as operators for plant and equipment, the *Contractor* is encouraged to use "local" labour on a temporary basis for all manual tasks.
2. The *Contractor* will attend all site meetings as arranged by the *Employer*

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3. The *Contractor* will report all obstacles on site that could impact on time and cost e.g. Trees, obsolete poles, and inclement weather to the *Employer* in writing.
4. All Construction work shall be carried out in accordance with all the statutory requirements applicable to the area, Eskom's specifications, standards and regulations
5. The *Contractor* will be given access to the proposed site and the *Contractor* must comply with Eskom's, National, Provincial and Local environmental policies, safety standards and laws.
6. The onus is on the *Contractor* to obtain the latest revision of standards applicable.
7. The *Employer* reserves the right to alter the scope of the works, programme and constraints.
8. The Clerk of Works of the *Employer* will do Quality Control Checks and inspections on the *works*. The *Contractor* notifies the Clerk of Works or *Employer's* Representative of any inspections to be done three days in advance.
9. The *Contractor* shall ensure that caution is exercised when working in close proximity of live electrical equipment.

31. Requirements for the programme

- A comprehensive and fully detailed programme is to be submitted within the seven (7) days after the introductory meeting and should indicate all milestones and critical dates. This programme must first be approved by the *Project Manager* and must be updated on an as and when required basis by the *Project Manager*.
- **The following dates shall be clearly reflected on the programme:**
- Starting and completion dates for all activities as well as relevant key dates for hold or witness points. All relevant significant activities shall be shown in order to monitor the progress in the factory/workshop.
- The programme shall also reflect a 2-week period for inspection and correcting of Defects before the completion date.
- Updated programmes must be available at all meetings reflecting progress to date and the date when delivery will take place through the use of task orders.

FORMAT OF THE PROGRAM

- The *Contractor* shall submit his construction program in terms of the conditions of contract.
- The *Contractor* is to submit a revised programme for acceptance at each site meeting.
- This program shall be in the form of an approved Gantt Chart containing the following information:
- All construction activities, including milestones, initial tasks, critical path, required Outages, and target *Dates*. All potential risk activities should be clearly indicated on the critical path.
- Every activity on the programme will be clearly linked to labour resources and equipment required to perform the specific activity.
- Projected weekly progress on *site* for the entire duration of the contract.
- Completion and hand-over *Dates* for formal inspection by the site supervisor must be indicated.
- A column showing the daily tempo of all the construction activities must be indicated next to the activity on the programme.
- Project expenditure on a monthly basis for the entire duration of the contract.
- The following project phases and activities are minimum requirements for the programme:
- Site Establishment and Material Delivery – Lead times to be specified.
- Preparation work – Work that can be completed without the necessity of power outages
- Outage work – Work that must be completed under outage conditions
- Planned outages to be included in the programme
- *Contractors* float to be included in the programme

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- The Contract Program will be on display in the *Contractors Site Offices* and will be updated weekly. In addition to the maintaining of this programme, the *Contractor* will report progress to the *Project Manager* at each site meeting or at request of the *Project Manager*.
- The *Contractor* shall also provide an organisation chart showing the personnel to be employed for the works, along with a detailed CV of all key personnel.
- Should any deviations to the program be found the *Contractor* shall submit a revised program to the *Project Manager* within one week of such deviations being brought to the *Contractor's* attention.
- The Outages must be arranged with *Employer* via the Outage arrangement procedures, as a pre-requisite for the acceptance of the programme by the *Project Manager*.
- Acceptance of any program by the *Project Manager* shall have no contractual status other than an indication that the *Project Manager* is satisfied as to the order in which the work is to be carried out, and that the *Contractor* undertakes to perform all work in accordance with the accepted program.
- The *Project Manager* retains the right to alter the accepted program should circumstances on *site* necessitate such a change.
 - OTHER INFORMATION TO BE SHOWN ON THE PROGRAM.
- The following Statutory non-working days are included within the contract period:
- All Public Holidays for the duration of the contract.
- The programme must clearly indicate the non-working days for the entire construction period.

32. Services and other things provided by the Employer

Item	Date by which it will be supplied
Access to site	Per task order
All project specific drawings	Per task order
Way leaves	Per task order
Health and Safety Spec	Per task order

PART 4: SITE INFORMATION

Document reference	Title	No of pages
C4	This cover page Site Information	1

PART 4: SITE INFORMATION

General description

1. The *Contractor* to ensure that he becomes fully aware of site conditions as well as access conditions such as soil/subsurface/ground water levels conditions prior to submitting a tender.
2. The *Contractor* is required to work in close proximity of existing underground cables within the substation property.
3. Access control to be monitored by the *Contractor* to avoid the public and animals from entering the premises during and after working hours.

For example: If an existing barrier fence is removed, it must be replaced the same day

4. The *Contractor* is deemed to execute Safety Procedures to ensure the safety of his staff, Subcontractors and community during the Contract Period.
5. The safety of the *Contractors'* employees, Subcontractors and community takes preference over the scope of the works.
6. Caution to be implemented when *works* commences. Damage to Eskom, farmers/adjacent owner's property will be to the *Contractors'* account.
7. The *Contractor* should take all reasonable steps to become fully aware of existing services.
8. No fires are allowed on site (to fully comply with the EMP).

Security on site is to be provided by the *Contractor* after he has assessed the security risk and the need to have security on site. Contractor to adhere to the "subcontracting requirements" outlined in this contract.

Subsoil information

Hidden services

The *Contractor* shall liaise with the relevant Eskom representative after the exact position of a structure and proposed cable route have been marked out as per design to determine the implication of design to underground services and all excavations to be done by hand.