



NEC3 Framework Contract

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

and

for **ESKOM DISTRIBUTION ELECTRIFICATION
PROJECTS HOUSEHOLDS AND HIGH VALUE
EXTENSIONS IN THE CAPE COASTAL EASTERN
CAPE**

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CONTRACT No.

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:

**ESKOM DISTRIBUTION ELECTRIFICATION PROJECTS – HOUSEHOLDS AND HIGH VALUE
EXTENSIONS IN THE CAPE COASTAL CLUSTER - EASTERN CAPE**

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.

Option B	The offered total of the Prices exclusive of VAT is	RATES BASED AS PER BOQ
	Value Added Tax @ 15% is	RATES BASED AS PER BOQ
	The offered total of the amount due inclusive of VAT is ¹	RATES BASED AS PER BOQ
	(Excluding VAT).	

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:**

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*.

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	Contract Data, (which includes this Form of Offer and Acceptance)
Part C2	Pricing Data
Part C3	Scope of Work: Framework Information
Part C4	<i>Selection and Quotation Procedure</i>

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) **Nosipho Manyonga**

Capacity **Senior Manager Asset Creation:
Cape Coastal Cluster EC**

for the **ESKOM HOLDINGS SOC LIMITED,
Employer Sunilaws Office Park, Beacon Bay
EAST LONDON, 5205**

Name & signature of witness Date

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

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

Note:

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

No.	Subject	Details
1		
2		
3		
4		
5		
6		
7		

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

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

For the tenderer:

For the Employer

Signature

Name

Capacity

On behalf
of

Name &
signature
of witness

Date

.....

Nosipho Manyonga

**Senior Manager Asset Creation:
Cape Coastal Cluster EC**

**ESKOM HOLDINGS SOC LIMITED,
Sunilaws Office Park, Beacon Bay
EAST LONDON, 5205**

.....

.....

C1.2 ECC3 Contract Data

Part one - Data provided by the *Employer*

10.1	The <i>Employer</i> is (Name):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
10.1	The <i>Project Manager</i> is: (Name)	The Deligated (DCF) Project Manager for a particular project.
	Address	
	Tel	
	Fax	
	e-mail	
10.1	The <i>Supervisor</i> is: (Name)	The supervisor will be the Clerk of Works appointed for a particular project.
	Address	
	Tel No.	
	Fax No.	
	e-mail	
11.2(3)	The Work Package are	Various categories of Work Packages on ELECTRIFICATION PROJECTS – HOUSEHOLDS AND HIGH VALUE EXTENSIONS IN THE CAPE COASTAL CLUSTER - EASTERN CAPE
11.2(15)	The <i>boundaries of the site</i> are	All projects to be executed in terms of this contract will be executed at various sites within the Cape Coastal Cluster - Eastern Cape.
11.2(16)	The Site Information is in	Part 4: Site Information of this contract.
11.2(2)	The Framework Information is in	Part 3: Work Package and all documents and drawings to which it makes reference, in terms of this contract.
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	One (1)week

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 <i>completion date</i> for the whole of the <i>works</i> is	30 SEPTEMBER 2023	
11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	Condition to be met	key date
		1 TBA	[•]
30.1	The <i>access dates</i> are:	Part of the Site	Date
		1 TBA	[•]
31.1	The <i>Contractor</i> is to submit a first programme for acceptance within	2 (two) weeks of the Contract Date.	
31.2	The <i>starting date</i> is	01 APRIL 2022	
32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	2 (two) weeks	
35.1	The <i>Employer</i> is not willing to take over the <i>works</i> before the Completion Date.		

4 Testing and Defects

42.2	The <i>defects date</i> is	52 weeks after Completion of the whole of the <i>works</i> per project or section thereof if sectional completion is applicable.
43.2	The <i>defect correction period</i> is	1 (one) weeks upon notification of defect

5 Payment

50.1	The <i>assessment interval</i> is	Period agreed upon by <i>Project Manager</i> and <i>Contractor</i> from the <i>Starting Date</i> .
51.1	The <i>currency of this contract</i> is the	South African Rand.
51.2	The period within which payments are made is	Either 14 (fourteen) days or 30 (thirty) days depending on the <i>Contractor's</i> BBBEE status at the date of payment.
51.4	The <i>interest rate</i> is	<p>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</p> <p>(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</p>

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.

93.1	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 Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
	Address	TO BE APPOINTED WHEN DISPUTE ARISE
	Tel No.	[•]
	Fax No.	[•]
	e-mail	[•]
93.2(2)	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.
93.4	The <i>tribunal</i> is:	arbitration.
	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	EAST LONDON, EASTERN CAPE, 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
	- if the arbitration procedure does not state who selects an arbitrator, is	of the Association of Arbitrators (Southern Africa) or its successor body.
Z	The <i>Additional conditions of contract</i> 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.

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 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 <i>Contractor</i> or a third party, such party’s employees, agents, or Subcontractors or Subcontractor’s employees, or any one or more of all of these parties’ relatives or friends,
Coercive Action	means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,
Collusive Action	means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,
Committing Party	means, as the context requires, the <i>Contractor</i> , or any member thereof in the case of a joint venture, or its employees, agents, or 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.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minim limit of indemnity
Loss of or damage to the works, Plant and Materials	The replacement cost where not covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible, as Contract Date, where covered by 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 works, 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> insurance The <i>Employer's</i> policy deductible, as Contract Date, where covered by 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 of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

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.
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.

C1.2 Contract Data

Part two - Data provided by the *Contractor*

The tendering contractor is advised to read both the NEC3 Engineering and Construction Short Contract (April 2013) and the relevant parts of its Guidance Notes (ECSC3-GN)¹ 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 page 31 of the ECSC3 April 2013 Guidance Notes.

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

Clause	Statement	Data
10.1	The <i>Contractor</i> is (Name): Address Tel No. Fax No.	
11.2(8)	The <i>direct fee percentage</i> is The <i>subcontracted fee percentage</i> is	5% 5%
11.2(9)	The Price List is in	the document called 'Price List' in Part 2 of this contract.
24.1	The <i>Contractor's</i> 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 .
11.2(3)	The <i>completion date</i> for the whole of the works is	30 SEPTEMBER 2023

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

PART 2: PRICING DATA

Document reference	Title	No of pages
C2.1	Pricing assumptions:	[03]
C2.2	The <i>bill of quantities</i>	[25]

C2.1 Pricing assumptions

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. Completed work is work without Defects which would either delay or be covered by immediately following work.
		(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.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

The P & G section of the bill is not used for the assessment of compensation events.

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.
- 4.2.6. A 5 % handling fee is applicable to all material purchased by the contractor
- 4.2.7. The contractor's offer for supply rates shall be approved by the relevant Quantity Surveyor. These will be fixed for the duration of the *Contract*.

4.3. Departures from the *method of measurement*

4.3.1.

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.

4.4.1.

C2.2 Price List


Use this page as a summary page or as a cover page to the *bill of quantities*.

ELECTRIFICATION BoQ including Rates


DISTRIBUTION

TRADE SECTIONS

Current Date: 25-November-21



SECTION	DESCRIPTION	GRAND TOTAL
A	PRELIMINARY AND GENERAL ITEMS	
B	BUSH CLEARING & TREE FELLING	
C	EXCAVATIONS	
D	PLANTING OF POLES	
E	Single Phase MV Structure BONDING INCL (BIL DOWNWIRE,SPARK GAP DEVICE INCLUDED OR EXCLUDED AS PER DESIGN)	
F	ASSEMBLE MV STAYS	
G	ASSEMBLE SINGLE PHASE LV STRUCTURES	
H	ASSEMBLE LV STAYS	
I	POLE TOP BOX INSTALLATION	
J	CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)	
K	EQUIPMENT INSTALLATION	
L	EARTHING INSTALLATION	
M	SERVICE CONNECTION INSTALLATION	
N	SERVICE CONDUCTOR INSTALLATION	
O	UNDERGROUND CABLE INSTALLATION	
P	MV/LV CABLE TERMINATION	
Q	CABLE JOINT	
R	EQUIPMENT DISMANTLING	
S	LABELLING	
T	EQUIPMENT TESTING	
U	AS - BUILTS	
V	MISCELLANEOUS	
W	TRANSPORT	
X	LABOUR ONLY	
Y	INFILLS	
Z	ADHOC MATERIAL	

ELECTRIFICATION BoQ including Rates DISTRIBUTION				
PRELIMINARY AND GENERAL ITEMS Current Date: 25-November-21				
				
Bill No:1	PRELIMINARY AND GENERAL ITEMS			RATE
No	DESCRIPTION			UNIT
A	FIXED CHARGE ITEMS			
A.1	Site Establishment:	The Contractor shall establish the site camp and maintain throughout the construction period and allow for removal of such upon completion of Works. The Eskom Representative reserves the right to negotiate the rates for rental arrangements based on the project scope and magnitude.		
A.1.1.		Office and Meeting Room complete as per P&G's Guideline	Sum	R 17 550.44
A.1.2.		Stores	Sum	R 15 242.89
A.1.3.		Sanitation	Sum	R 2 219.39
A.1.4.		Electricity	Sum	R 2 465.99
A.1.5.		Supply and Install Diamond mesh fencing at 1.8 meters high	m	R 186.74
A.1.6.		Supply and Install Diamond mesh Lockable Gate 1.8m high x 3.6m wide	each	R 2 142.05
A.1.7.		Project Preparation	Sum	R 24 465.24
A.2.	Sign Board Labour			
A.2.1		Contractor shall erect on site, maintain throughout the construction duration (Safety)	each	R 412.68
		Project sign board	each	R 3 500.00
A.3.	Health and Safety measures (In terms of 34-333)	Safety & Health, Environmental		
A.3.1	3.1.1	Compliance with OH&S Act & Construction Regulations. (for projects where task order value exceed R100,000-00)	Sum	R 15 000.00
	3.1.2	H&S compliance for projects where task orders are below R100k. Excl P&G's	Sum	R 6 500.00
	3.1.3	Maintenance of H&S file (only applicable for projects exceeding 2 months in duration)	Monthly	R 1 500.00
A.4.	Materials Management			
A4.1		The Contractor shall make allowance to receive at Eskom stores, offload and stack the free-issue materials supplied to the contractor.	Sum	R 11 209.04
A.5.	Contractual requirements	Comply ,maintain all insurance and statutory contributions, etc.		
A.5.1		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	cost + 5% fee
Sub-Total A				
B.	TIME RELATED ITEMS			
B.1	Site Establishment			
B.1.2.		Site office 6m x 3m with aircon	Weeks	R 1 700.00
B.1.3.		Site Storage 6m x 3m	Weeks	R 1 100.00
B.1.4.		Water	Weeks	R 420.34
B.1.5.		Sanitation (service)	Weeks	R 1 417.94
B.1.6.		Electricity (Eskom/Munic supply)	Weeks	R 313.85
B.1.7.		Electricity (Generator 6.5kVA)	Weeks	R 184.95
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	R 1 232.99
B.3	Security			
B.3.1.		Security on site - 24 Hour Unarmed Security (Must be registered with the appropriate body)	Weeks	cost plus 5%
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	R 106.76
B.4.2.		Construction Manager (SACPMP Registered)	hourly	R 73.56
B.4.3.		Storeman (Storeman is required to reconcile and quantify All material on site including Eskom supplied material using the correct material return to stores forms. The Storeman shall adhere to the implementation and maintenance plan for Materials Management System for the duration of the contract).	hourly	R 34.13
B.4.4.		Community Liaison Officer	Daily (Max)	R 212.62
B.4.5.		Safety Officer (SACPMP Registered)	hourly	R 59.55
Sub-Total B				
Total P & G's Carried To Summary				

ELECTRIFICATION BoQ including Rates					
DISTRIBUTION					
BOQ ITEMS					
Current Date: 25-November-21					
BILL OF ACTIVITIES					RATE
ITEM	REFERENCE DRAWING	DESCRIPTION			UNIT
A		PRELIMINARY AND GENERAL ITEMS			
SUB-TOTAL A					
B		BUSH CLEARING & TREE FELLING			
In the event where the contractor is required to cut, remove and clear trees on site. This activity shall be used to execute such work provided that the quotation submitted is from a contractor who meets all the necessary requirements for Bush Clearing plus fee.					
1		Bush Clearing and Tree Felling (Scattered Formation)			Sum Cost plus 5%
2		Bush Clearing and Tree Felling (Dense Formation)			Sum Cost plus 5%
SUB-TOTAL B					
C		EXCAVATIONS			
Excavate only as per Eskom Standard for Holes and Trenches for Poles, Stays and Struts. All material will be elsewhere measured.					
1		Excavations of holes where method is not specified below (cost to include all associated costs i.e. labour, fuel, equipment - rock drilling, TLB, compressor etc) - Contractor to submit a quotation to the Project Manager prior to commencement of this item. Once the quotation is accepted, then the contractor can commence. Proof of invoice for all hiring equipment etc are to be submitted as supporting documentation. The 5% handling fee will only be applied to costs associated with 3rd party payments i.e. hiring of equipment, fuel etc. 5% will not be added to the labour component)			cost plus 5%
STAYS & STRUTS					
2.1	D-DT-0350	LV Stay Back-Actor or Hand pickable			Each R 80.00
2.2	D-DT-0350	LV Stay auger (bobcat or similar auger)			Each R 495.00
2.3	D-DT-0350	LV Stay Back-Actor or TLB			Each R 360.00
2.4	D-DT-0350	LV Strut Back-Actor or Hand pickable excavation 9m strut			Each R 150.00
2.5	D-DT-0350	LV/MV Strut Back-Actor or Hand Excavations 11m strut			Each R 125.00
2.6	D-DT-0350	LV Strut Back-Actor or TLB			Each R 360.00
2.7	D-DT-0337	LV/MV Strut Back-Actor or Hand Excavations 12m strut			Each R 55.00
2.8	D-DT-0337	LV/MV Strut Back-Actor or Hand Excavations 15 & 15m strut			Each R 115.00
2.9	D-DT-0350	LV Short Strut Back-Actor or Hand Excavations			Each R 177.00
2.10	D-DT-0350	LV Short Strut Bobcat or similar Auger (Two Auger Holes)			Each R 945.00
2.11	D-DT-0350	MV Stay Back-Actor or TLB			Each R 390.00
2.12	D-DT-0350	MV Stay Back-Actor or Hand Excavations			Each R 105.00
2.13	D-DT-0350	MV Stay Bobcat or similarly Auger			Each R 685.00
2.14	D-DT-0350	MV/LV Strut Bobcat or similar Auger 9m strut (Two Auger Holes)			Each R 895.00
2.15	D-DT-0350	MV/LV Strut Bobcat or similar Auger 11m strut (Two Auger Holes)			Each R 790.00
2.16	D-DT-0350	MV/LV Strut Bobcat or similar Auger 12m strut (Two Auger Holes)			Each R 360.00
2.17	D-DT-0350	MV/LV Strut Bobcat or similar Auger 14m strut (Two Auger Holes)			Each R 725.00
2.18	D-DT-0350	MV/LV Strut Bobcat or similar Auger 15m strut (Two Auger Holes)			Each R 720.00
WOOD POLES					
2.1	D-DT-0338	2.5m Pole Wood Back-Actor or Hand (0.5m Deep)			Each R 40.00
2.2	D-DT-0338	2.5m Pole Wood Bobcat or similar Auger (0.5m Deep)			Each R 160.00
2.3	D-DT-0330	5m Pole Wood Back-Actor or Hand (1.0m Deep)			Each R 75.00
2.4	D-DT-0330	5m Pole Wood Bobcat or similar Auger (1.0m Deep)			Each R 315.00
2.5	D-DT-0330	5m Pole Wood Hard Rock Drilling (1.0m Deep)			Each R 905.00
2.6	D-DT-0330	5m Pole Wood Back-Actor or Hand (1.5m Deep)			Each R 180.26
2.7	D-DT-0330	5m Pole Wood auger (1.5m Deep)			Each R 1 306.34
2.8	D-DT-0330	7m Pole Wood Back-Actor or Hand (1.3m Deep)			Each R 221.87
2.9	D-DT-0330	7m Pole Wood Bobcat or similar Auger (1.3m Deep)			Each R 1 492.96
2.10	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter Back-Actor or Hand (1.3m Deep)			Each R 208.01
2.11	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter auger (1.3m Deep)			Each R 410.00
2.12	D-DT-0330	9m Pole Wood Back-Actor or Hand (1.5m Deep)			Each R 110.00
2.13	D-DT-0330	9m Pole Wood auger (1.5m Deep)			Each R 475.00
2.14	D-DT-0330	9m Pole Wood Bobcat or similar Auger (1.5m Deep)			Each R 1 355.00
2.15	D-DT-0330	10m Pole Wood Back-Actor or Hand (1.7m Deep)			Each R 125.00
2.16	D-DT-0330	10m Pole Wood Bobcat or similar auger (1.7m Deep)			Each R 535.00
2.17	D-DT-0330	11m Pole Wood Back-Actor or Hand (1.8m Deep)			Each R 130.00
2.18	D-DT-0330	11m Pole Wood Bobcat or similar auger (1.8m Deep)			Each R 570.00
2.19	D-DT-0330	12m Pole Wood Back-Actor or Hand (2.0m Deep)			Each R 145.00
2.20	D-DT-0330	12m Pole Wood Bobcat or similar auger (2.0m Deep)			Each R 630.00
2.21	D-DT-0330	13m - 16m Pole Wood Back-Actor or Hand (2.2m Deep)			Each R 160.00
2.22	D-DT-0330	13m - 16m Pole Wood Bobcat or similar auger (2.2m Deep)			Each R 695.00
2.23	D-DT-0330	18m Pole Wood Back-Actor or Hand (2.4m Deep)			Each R 175.00
2.24	D-DT-0330	18m Pole Wood Bobcat or similar auger (2.4m Deep)			Each R 755.00
CONCRETE POLES					
4.1	D-DT-0330	11m Pole Concrete Back-Actor or Hand (1.8m Deep)			Each R 249.60
4.2	D-DT-0330	11m Pole Concrete Bobcat or similar auger (1.8m Deep)			Each R 570.00
4.3	D-DT-0330	11m Pole Concrete Hard Rock Drilling (1.8m Deep)			Each R 1 946.77
4.4	D-DT-0330	12m Pole Concrete Pole Back-Actor or Hand (2m Deep)			Each R 277.35
4.5	D-DT-0330	12m Pole Concrete Pole Bobcat or similar auger (2m Deep)			Each R 630.00
4.6	D-DT-0330	12m Pole Concrete Hard Rock Drilling (1.0m Deep)			Each R 2 123.75
4.7	D-DT-0330	13m Pole Concrete Back-Actor or Hand (2.2m Deep)			Each R 305.08
4.8	D-DT-0330	13m Pole Concrete Bobcat or similar auger (2.2m Deep)			Each R 695.00
4.9	D-DT-0330	13m Pole Concrete Hard Rock Drilling (1.0m Deep)			Each R 2 300.72
4.10	D-DT-0330	14m Pole Concrete Back-Actor or Hand (2.3m Deep)			Each R 318.94
4.11	D-DT-0330	14m Pole Concrete Bobcat or similar auger (2.3m Deep)			Each R 725.00
4.12	D-DT-0330	14m Pole Concrete Hard Rock Drilling (2.3m Deep)			Each R 2 477.70
Heavy Conductor Wood Poles					
5.1	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 700mm Diameter			Each R 249.60
5.2	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 800mm Diameter			Each R 249.60
5.3	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter			Each R 249.60
5.4	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded			Each R 771.60
5.5	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded			Each R 945.60
5.6	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded			Each R 771.60
5.7	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded			Each R 771.60
5.8	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded			Each R 771.60
5.9	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded			Each R 945.60
5.10	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded			Each R 1 321.35
5.11	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded			Each R 1 321.35
5.12	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2200mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded			Each R 1 321.35

5.13	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 321.35
5.14	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 700mm Diameter	Each	R	308.16
5.15	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 800mm Diameter	Each	R	308.16
5.16	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter	Each	R	308.16
5.17	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	830.16
5.18	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 004.16
5.19	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	830.16
5.20	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 004.16
5.21	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1800mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	830.16
5.22	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1800mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 004.16
5.23	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1800mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 352.16
5.24	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 352.16
5.25	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 2200mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 352.16
5.26	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 352.16
5.27	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 700mm Diameter	Each	R	318.94
5.28	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 800mm Diameter	Each	R	318.94
5.29	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1000mm Diameter	Each	R	318.94
5.30	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	840.94
5.31	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 014.94
5.32	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	840.94
5.33	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 014.94
5.34	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1800mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	840.94
5.35	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1800mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 014.94
5.36	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1800mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
5.37	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
5.38	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2200mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
5.39	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
6	Heavy Conductor Concrete Poles				
6.1	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 700mm Diameter	Each	R	249.60
6.2	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 900mm Diameter	Each	R	249.60
6.3	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter	Each	R	249.60
6.4	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	771.60
6.5	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R	945.60
6.6	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1250mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	771.60
6.7	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 1250mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	771.60
6.8	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1500mm Diameter	Each	R	771.60
6.9	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1500mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	945.60
6.10	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 1500mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 321.35
6.11	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	1 321.35
6.12	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 2000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 321.35
6.13	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 321.35
6.14	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	308.16
6.15	D-DT-0330 & 240-758831148	11m Pole Back-Actor or Hand - 1800mm Deep x 3000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	308.16
6.16	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 700mm Diameter	Each	R	308.16

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6.17	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 900mm Diameter	Each	R	830.16
6.18	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter	Each	R	1 004.16
6.19	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	830.16
6.20	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 004.16
6.21	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1250mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	830.16
6.22	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 1250mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 004.16
6.23	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1500mm Diameter	Each	R	1 352.16
6.24	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1500mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	1 352.16
6.25	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 1500mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 352.16
6.26	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R	1 352.16
6.27	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	318.94
6.28	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	318.94
6.29	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	318.94
6.30	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 3000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	840.94
6.31	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 700mm Diameter	Each	R	1 014.94
6.32	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 900mm Diameter	Each	R	840.94
6.33	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1000mm Diameter	Each	R	1 014.94
6.34	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	840.94
6.35	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 014.94
6.36	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1250mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	1 362.94
6.37	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1250mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 362.94
6.38	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter	Each	R	1 362.94
6.39	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	1 362.94
6.40	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil. cement is excluded	Each	R	1 362.94
6.41	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil. cement is excluded	Each	R	1 362.94
6.42	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R	1 362.94
6.43	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
6.44	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
6.45	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 3000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil. cement is excluded	Each	R	1 362.94
7	Free Standing Poles				
7.1	2-WT/0000	9m Pole Free Standing 18kN Back-Actor or Hand (1.5m Deep) - Soil Type 1 & 2	Each	R	311.75
7.2	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	311.75
7.3	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	467.62
7.4	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	623.49
7.5	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	584.52
7.6	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	876.79
7.7	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	1 169.05
7.8	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	1 052.14
7.9	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	1 578.21
7.10	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	2 104.29

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7.11	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	1 636.67
7.12	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	1 636.67
7.13	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	2 455.00
7.14	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	3 273.33
7.15	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	2 260.16
7.16	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	2 260.16
7.17	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	3 390.24
7.18	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	3 390.24
7.19	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	311.75
7.20	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	311.75
7.21	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	467.62
7.22	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	623.49
7.23	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	2 844.68
7.24	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	2 844.68
7.25	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	4 267.02
7.26	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	4 267.02
7.27	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	4 130.64
7.28	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	4 130.64
7.29	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	6 195.95
7.30	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	311.75
7.31	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	467.62
7.32	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	623.49
7.33	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	584.52
7.34	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	876.79
7.35	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	1 169.05
7.36	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R	1 052.14
7.37	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	1 578.21
7.38	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	2 104.29
7.39	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	1 636.67
7.40	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	1 636.67
7.41	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	2 455.00
7.42	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	3 273.33
7.43	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	2 260.16
7.44	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	2 260.16
7.45	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	3 390.24
7.46	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	3 390.24
7.47	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	311.75
7.48	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	311.75
7.49	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	467.62
7.50	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	623.49
7.51	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	2 844.68
7.52	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	2 844.68
7.53	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	4 267.02
7.54	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R	4 267.02
7.55	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R	4 130.64
7.56	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R	4 130.64
7.57	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R	6 195.95
SUB-TOTAL C					
D	PLANTING OF POLES				

Planting including backfilling and compaction are measured here. The costs are also inclusive of plant and equipment required to plant the Structures. Stay, Struts and Flying Stay are elsewhere measured. All backfill material included in price. Any other soil type claimed than specified by designer to be supported by DCP soil classification test completed by the contractor and reviewed by the designer according to 240-75883148 annex A. (At least 60% of tested hole must be the soil type claimed to be approved)					
CLASSIFICATION OF SOIL TYPE 1, 2, 3 AND 4					
		Soil Type 1 - Competent soil with equal or better consistency (strength or toughness) than would be encountered in stiff cohesive soils or medium dense cohesion less soils above the water table. Firm of stiff cohesive soils: moulding of soil with fingers is difficult to impossible. Excavation with a spade is difficult and picking is required. Medium dense non-cohesive soils: Considerable resistance to shovelling or penetration by hand bar. Texture: Cohesive soils: Very stiff clay, sandy clay, silty clay, sandy silts and silty sands. Cohesionless soils: compact, well graded gravels, sand and gravel sand mixtures, permanently above all water tables. The DCP will have a low penetration rate with DCP value of 7-8. The maximum bearing at foundation depth shall be 300kPa.			
		Soil Type 2 - A less competent soil than type 1 soil with equal or better consistency than would be encountered in firm to stiff swelling cohesive soils or, poor, dry graded loose to medium dense soils above the water table. Firm of stiff swelling cohesive soils: Soil can be moulding with fingers with strong to very strong pressure. Freshly exposed surface shows faint heel mark when stood upon. Excavation with shovel is difficult. Medium dense to loose soils: Having little to considerable resistance to shovelling or penetration with hand bar. Texture: Cohesive soils: Firm to stiff clay, sandy clay, sandy silt and silty sands. Clayey soil will have a smooth texture and will tend to stick to the DCP rod when removed. Cohesionless soils: Poor to well graded sands, gravels and gravel-sand mix, permanently above all water tables. Dry sand will have a coarse texture. The DCP will have visible penetration rate with DCP value of 5-6. The maximum bearing at foundation depth shall be 150kPa.			
		Soil Type 3 - Dry to loose cohesionless soil or very soft to soft cohesive soil. Soft to very soft cohesive soils: Mouldable with ease to manageable with fingers. Forms faint to distinct heel marks on freshly exposed surface when stood upon. Very loose to loose cohesionless soils: Easily excavated with spade and penetrable with hand bar. Texture: Cohesive soils: Soft to very soft clay, sandy clay, sandy silt and silty sands. Clay will stick to the DCP rod whilst sand will provide a clean rod when removed after the test. Cohesionless soils: Poorly graded sands, gravels and gravel-sand mixtures, permanently above all water tables. The DCP will have a high penetration rate with a DCP value of 3-4. The maximum bearing at foundation depth shall be 100kPa.			
		Soil Type 4 - Type 4 soils are for submerged cohesion less and cohesive soils. This also includes all soils below the permanent water table, including soils below a re-occurring perched water table, or permeable soils in low-laying areas subjected to seanal flooding. The DCP will have a very high penetration rate with a DCP value of 1-2. The maximum bearing at foundation depth to be used shall be 50kPa. Note: the DCP value might be high at the time of testing as the water table might be low at the time.			
1		Extra over for Importation of soil where deemed to exceed the normal requirement as per activities below		m3	R 687.90
2		Extra over for hiring of equipment not catered for within the activities below		Sum	cost plus 5%
3		PLANTING BY HAND (VEHICLE IN-ACCESSIBLE)			
3.1	D-DT-0058	POLE, WOOD 5.0 X 80-100 TOP DIA		Each	R 63.89
3.2	D-DT-0050	POLE, WOOD 7.0X100-120 TOP DIA		Each	R 118.67
3.3	D-DT-0050	POLE, WOOD 7.0X120-139 TOP DIA		Each	R 118.67
3.4	D-DT-0055	POLE:140-159MM TOP DIA X LG 9 M;WOOD		Each	R 143.06
3.5	D-DT-0055	POLE:160-179MM TOP DIA X LG 9 M;WOOD		Each	R 143.06
3.6	D-DT-0055	POLE:180-199MM TOP DIA X LG 9 M;WOOD		Each	R 143.06
3.7	D-DT-0052	POLE, WOOD 10.0m x 160-179		Each	R 286.12
3.8	D-DT-0052	POLE, WOOD 10.0m x 180-199		Each	R 286.12
3.9	D-DT-0052	POLE, WOOD 10.0m x 200-219		Each	R 286.12
3.10	D-DT-0051	POLE:140-159MM TOP DIA X LG 11M ;WOOD		Each	R 428.72
3.11	D-DT-0051	POLE:160-179MM TOP DIA X LG 11M ;WOOD		Each	R 428.72
3.12	D-DT-0051	POLE:180-199MM TOP DIA X LG 11M ;WOOD		Each	R 428.72
3.13	D-DT-0051	POLE:200-219MM TOP DIA X LG 11M ;WOOD		Each	R 428.72
3.14	D-DT-0053	POLE:160-179MM TOP DIA LG 12 M;WOOD		Each	R 477.50
3.15	D-DT-0053	POLE:180-199MM TOP DIA X LG 12 M;WOOD		Each	R 477.50
3.16	D-DT-0053	POLE:200-219MM TOP DIA X LG 12 M;WOOD		Each	R 477.50
3.17	D-DT-0053	POLE:PINE:160MM TOP DIA X LG 12 M;WOOD		Each	R 477.50
3.18	D-DT-0056	POLE, WOOD 13.0 x 160-179		Each	R 477.50
3.19	D-DT-0056	POLE, WOOD 13.0 x 180-199		Each	R 477.50
3.20	D-DT-0056	POLE, WOOD 13.0 x 200-219		Each	R 477.50
3.21	D-DT-0054	POLE, WOOD 14.0 x 160-179		Each	R 477.50
3.22	D-DT-0054	POLE, WOOD 14.0 x 180-199		Each	R 477.50
3.23	D-DT-0054	POLE, WOOD 14.0 x 200-219		Each	R 477.50
3.24	D-DT-0057	POLE, WOOD 15.0 x 160-179		Each	R 477.50
3.25	D-DT-0057	POLE, WOOD 15.0 x 180-199		Each	R 477.50
3.26	D-DT-0057	POLE, WOOD 15.0 x 200-219		Each	R 477.50
4		PLANTING BY CRANE (VEHICLE ACCESSIBLE)			
4.1	D-DT-0055	POLE:140-159MM TOP DIA X LG 9 M;WOOD		Each	R 215.67
4.2	D-DT-0055	POLE:160-179MM TOP DIA X LG 9 M;WOOD		Each	R 215.67
4.3	D-DT-0055	POLE:180-199MM TOP DIA X LG 9 M;WOOD		Each	R 215.67
4.4	D-DT-0052	POLE, WOOD 10.0m x 160-179		Each	R 215.67
4.5	D-DT-0052	POLE, WOOD 10.0m x 180-199		Each	R 215.67
4.6	D-DT-0052	POLE, WOOD 10.0m x 200-219		Each	R 215.67
4.7	D-DT-0051	POLE:140-159MM TOP DIA X LG 11M ;WOOD		Each	R 215.67
4.8	D-DT-0051	POLE:160-179MM TOP DIA X LG 11M ;WOOD		Each	R 215.67
4.9	D-DT-0051	POLE:180-199MM TOP DIA X LG 11M ;WOOD		Each	R 215.67
4.10	D-DT-0051	POLE:200-219MM TOP DIA X LG 11M ;WOOD		Each	R 215.67
4.11	D-DT-0053	POLE:160-179MM TOP DIA LG 12 M;WOOD		Each	R 215.67
4.12	D-DT-0053	POLE:180-199MM TOP DIA X LG 12 M;WOOD		Each	R 215.67
4.13	D-DT-0053	POLE:200-219MM TOP DIA X LG 12 M;WOOD		Each	R 215.67
4.14	D-DT-0053	POLE:PINE:160MM TOP DIA X LG 12 M;WOOD		Each	R 215.67
4.15	D-DT-0056	POLE, WOOD 13.0 x 160-179		Each	R 287.56
4.16	D-DT-0056	POLE, WOOD 13.0 x 180-199		Each	R 287.56
4.17	D-DT-0056	POLE, WOOD 13.0 x 200-219		Each	R 287.56
4.18	D-DT-0054	POLE, WOOD 14.0 x 160-179		Each	R 287.56
4.19	D-DT-0054	POLE, WOOD 14.0 x 180-199		Each	R 287.56
4.20	D-DT-0054	POLE, WOOD 14.0 x 200-219		Each	R 287.56
4.21	D-DT-0057	POLE, WOOD 15.0 x 160-179		Each	R 287.56
4.22	D-DT-0057	POLE, WOOD 15.0 x 180-199		Each	R 287.56
4.23	D-DT-0057	POLE, WOOD 15.0 x 200-219		Each	R 287.56
5		PLANTING OF POLES IN VARIOUS SOIL TYPES			
5.1	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 1		Each	R 126.52
5.2	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 2		Each	R 190.40
5.3	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 3		Each	R 879.61
5.4	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 4		Each	R 879.61
5.5	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 1		Each	R 151.82
5.6	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 2		Each	R 204.96
5.7	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 3		Each	R 879.61
5.8	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 4		Each	R 879.61
5.9	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 1		Each	R 151.81
5.11	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 2		Each	R 204.95
5.12	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 3		Each	R 879.61
5.13	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 4		Each	R 879.61
5.14	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 1		Each	R 177.12
5.15	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 2		Each	R 239.11
5.16	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 3		Each	R 879.61
5.17	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 4		Each	R 879.61
5.18	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 1		Each	R 202.43
5.19	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 2		Each	R 273.28
5.20	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 3		Each	R 879.61
5.21	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 4		Each	R 879.61
5.22	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 1		Each	R 217.82

5.23	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 2	Each	R	294.06
5.24	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 3	Each	R	879.61
5.25	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 4	Each	R	879.61
5.26	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 1	Each	R	245.05
5.27	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 2	Each	R	330.82
5.28	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 3	Each	R	879.61
5.29	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 4	Each	R	879.61
5.30	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R	272.28
5.31	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R	367.58
5.32	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R	879.61
5.33	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R	879.61
5.34	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 1	Each	R	255.05
5.35	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 2	Each	R	344.32
5.36	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.37	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.38	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 1	Each	R	255.05
5.39	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 2	Each	R	344.32
5.40	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.41	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.42	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H4 Soil Type 1	Each	R	283.39
5.43	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H4 Soil Type 2	Each	R	382.57
5.44	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.45	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.46	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H5 Soil Type 1	Each	R	283.39
5.47	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H5 Soil Type 2	Each	R	238.57
5.48	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.49	D-DT-0052	10m Wooden Pole 180-199mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.50	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H4 Soil Type 1	Each	R	311.74
5.51	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H4 Soil Type 2	Each	R	420.84
5.52	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.53	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.54	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H5 Soil Type 1	Each	R	311.74
5.55	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H5 Soil Type 2	Each	R	420.84
5.56	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.57	D-DT-0052	10m Wooden Pole 200-219mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.58	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H4 Soil Type 1	Each	R	274.23
5.59	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H4 Soil Type 2	Each	R	370.21
5.60	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.61	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.62	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H4 Soil Type 1	Each	R	274.23
5.63	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H4 Soil Type 2	Each	R	370.21
5.64	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H4 Soil Type 3	Each	R	879.61
5.65	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H4 Soil Type 4	Each	R	879.61
5.66	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H5 Soil Type 1	Each	R	274.23
5.67	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H5 Soil Type 2	Each	R	370.21
5.68	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.69	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.70	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H5 Soil Type 1	Each	R	308.51
5.71	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H5 Soil Type 2	Each	R	416.49
5.72	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H5 Soil Type 3	Each	R	879.61
5.73	D-DT-0051	11m Wooden Pole 140-159mm Top Diameter 75MPA H5 Soil Type 4	Each	R	879.61
5.74	D-DT-0051	11m Wooden Pole 160-179mm Top Diameter H4 Soil Type 1	Each	R	308.51
5.75	D-DT-0051	11m Wooden Pole 160-179mm Top Diameter H4 Soil Type 2	Each	R	416.49
5.76	D-DT-0051	11m Wooden Pole 160-179mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.77	D-DT-0051	11m Wooden Pole 160-179mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.78	D-DT-0051	11m Wooden Pole 180-199mm Top Diameter H4 Soil Type 1	Each	R	342.79
5.79	D-DT-0051	11m Wooden Pole 180-199mm Top Diameter H4 Soil Type 2	Each	R	462.77
5.80	D-DT-0051	11m Wooden Pole 180-199mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.81	D-DT-0051	11m Wooden Pole 180-199mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.82	D-DT-0051	11m Wooden Pole 200-219mm Top Diameter H4 Soil Type 1	Each	R	377.07
5.83	D-DT-0051	11m Wooden Pole 200-219mm Top Diameter H4 Soil Type 2	Each	R	509.04
5.84	D-DT-0051	11m Wooden Pole 200-219mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.85	D-DT-0051	11m Wooden Pole 200-219mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.86	D-DT-0053	12m Wooden Pole 160-179mm Top Diameter Soil Type 1	Each	R	307.49
5.87	D-DT-0053	12m Wooden Pole 160-179mm Top Diameter Soil Type 2	Each	R	415.11
5.88	D-DT-0053	12m Wooden Pole 160-179mm Top Diameter Soil Type 3	Each	R	879.61
5.89	D-DT-0053	12m Wooden Pole 160-179mm Top Diameter Soil Type 4	Each	R	879.61
5.90	D-DT-0053	12m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R	341.66
5.91	D-DT-0053	12m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R	461.25
5.92	D-DT-0053	12m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R	879.61
5.93	D-DT-0053	12m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R	879.61
5.94	D-DT-0053	12m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R	375.83
5.95	D-DT-0053	12m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R	507.37
5.96	D-DT-0053	12m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R	879.61
5.97	D-DT-0053	12m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R	879.61
5.98	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H4 Soil Type 1	Each	R	337.32
5.99	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H4 Soil Type 2	Each	R	455.39
5.100	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.101	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.102	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H5 Soil Type 1	Each	R	337.32
5.103	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H5 Soil Type 2	Each	R	455.39
5.104	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.105	D-DT-0056	13m Wooden Pole 160-179mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.106	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H4 Soil Type 1	Each	R	374.79
5.107	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H4 Soil Type 2	Each	R	505.97
5.108	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.109	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.110	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H5 Soil Type 1	Each	R	374.79
5.111	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H5 Soil Type 2	Each	R	505.97

ESKOM HOLDINGS SOC Ltd
ESKOM DISTRIBUTION ELECTRIFICATION PROJECTS – HOUSEHOLDS
AND HIGH VALUE EXTENSIONS IN THE CAPE COASTAL CLUSTER - EASTERN CAPE

CONTRACT NO. _____

5.112	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.113	D-DT-0056	13m Wooden Pole 180-199mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.114	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H4 Soil Type 1	Each	R	412.28
5.115	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H4 Soil Type 2	Each	R	556.57
5.116	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.117	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.118	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H5 Soil Type 1	Each	R	412.28
5.119	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H5 Soil Type 2	Each	R	556.57
5.120	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.121	D-DT-0056	13m Wooden Pole 200-219mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.122	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H4 Soil Type 1	Each	R	370.93
5.123	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H4 Soil Type 2	Each	R	500.75
5.124	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.125	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.126	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H5 Soil Type 1	Each	R	370.93
5.127	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H5 Soil Type 2	Each	R	500.75
5.128	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.129	D-DT-0054	14m Wooden Pole 160-179mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.130	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H4 Soil Type 1	Each	R	412.14
5.131	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H4 Soil Type 2	Each	R	556.39
5.132	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.133	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.134	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H5 Soil Type 1	Each	R	412.14
5.135	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H5 Soil Type 2	Each	R	556.39
5.136	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.137	D-DT-0054	14m Wooden Pole 180-199mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.138	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H4 Soil Type 1	Each	R	453.35
5.139	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H4 Soil Type 2	Each	R	612.02
5.140	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H4 Soil Type 3	Each	R	879.61
5.141	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H4 Soil Type 4	Each	R	879.61
5.142	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 1	Each	R	453.35
5.143	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 2	Each	R	612.02
5.144	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 3	Each	R	879.61
5.145	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 4	Each	R	879.61
5.146	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 1	Each	R	453.35
5.147	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 2	Each	R	612.02
5.148	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 3	Each	R	879.61
5.149	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 4	Each	R	879.61
5.150	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 1	Each	R	453.35
5.151	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 2	Each	R	612.02
5.152	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 3	Each	R	879.61
5.153	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 4	Each	R	879.61
5.154	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R	407.86
5.155	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R	550.61
5.156	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R	879.61
5.157	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R	879.61
5.158	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R	448.48
5.159	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R	605.45
5.160	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R	879.61
5.161	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R	879.61
5.162	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R	493.34
5.163	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R	666.01
5.164	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R	879.61
5.165	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R	879.61
5.166	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R	493.16
5.167	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R	665.77
5.168	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R	879.61
5.169	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R	879.61
5.170	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R	542.47
5.171	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R	732.34
5.172	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R	879.61
5.173	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R	879.61
6	Concrete Poles				
6.1	D-DT-0017	11m Concrete Pole 10kN Ultimate Load	Each	R	311.75
6.2	D-DT-0015	12m Concrete Pole 10kN Ultimate Load	Each	R	340.08
6.3	D-DT-0016	13m Concrete Pole 10kN Ultimate Load	Each	R	368.42
6.4	D-DT-0018	14m Concrete Pole 10kN Ultimate Load	Each	R	396.76
7	Free Standing(Unsupported)				
7.1	PA09599B01	9m Concrete Pole 18kN	Each	R	311.75
7.2	D-DT-1650	12m Concrete Pole 8kN	Each	R	311.75
7.3	D-DT-1651	12m Concrete Pole 15kN	Each	R	584.52
7.4	D-DT-1652	12m Concrete Pole 27kN	Each	R	1 052.14
7.5	D-DT-1653	12m Concrete Pole 42kN	Each	R	1 636.67
7.6	D-DT-1654	12m Concrete Pole 58kN	Each	R	2 260.16
7.7	D-DT-1655	12m Concrete Pole 65kN - Terminal Structure	Each	R	2 532.94
7.8	D-DT-1656	12m Concrete Pole 73kN	Each	R	2 844.68
7.9	D-DT-1657	12m Concrete Pole 106kN	Each	R	4 130.64
7.10	D-DT-1650	13m Concrete Pole 8kN	Each	R	337.72
7.11	D-DT-1651	13m Concrete Pole 15kN	Each	R	633.23
7.12	D-DT-1652	13m Concrete Pole 27kN	Each	R	1 139.82
7.13	D-DT-1653	13m Concrete Pole 42kN	Each	R	1 773.06
7.14	D-DT-1654	13m Concrete Pole 58kN	Each	R	2 448.51
7.15	D-DT-1655	13m Concrete Pole 65kN - Terminal Structure	Each	R	2 744.01
7.16	D-DT-1656	13m Concrete Pole 73kN	Each	R	3 081.74
7.17	D-DT-1657	13m Concrete Pole 106kN	Each	R	4 474.86
SUB-TOTAL D					
E	Single Phase MV Structure BONDING INCL (BIL DOWNWIRE, SPARK GAP DEVICE INCLUDED OR EXCLUDED AS PER DESIGN)				
	Supply and erect MV support structures as per Eskom DDT 0400, 1300, 1700, 1800 drawings and OU specific SI Engineering instructions. Auxiliary equipment such as bonding, jumpers, jumper terminations, pole and x-arm mounting and mounting hardware, conductor attachment hardware and insulators to be included. Poles are measured elsewhere, crossarms are included. Stay, strut material measured elsewhere. Pole, stay and strut excavations are measured elsewhere. Where road crossing structures are to be used the line hardware needs to be changed to include : For intermediate a suitable fullwrap road crossing tie and for a strain structure a 3bolt suitable pistol grip. Other relevant road crossing hardware to be included where required. Road crossings to be inserted in BOQ where required and marked with "RX" as part of the description. All line hardware purchased will be paid elsewhere as cost plus fee.				
	Intermediate - 0 deg				
1.1	D-EC2063	Phase / Phase - Delta intermediate 0 degrees D2063 - A-Frame with 4kN Posts + Bird Perch	Each	R	250.34

1.2	D-EC2063	Phase / Phase - Delta intermediate 0 degrees D2063 - A-Frame 10kN Posts + Bird Perch & road-xing ties	Each	R	250.34
1.3	D-EC2063	Phase / Phase - Delta intermediate 0 degrees D2063 - A-Frame with 4kN Posts + Bird Perch with spark gap	Each	R	269.12
1.4	D-EC2063	Phase / Phase - Delta intermediate 0 degrees D2063 - A-Frame 10kN Posts + Bird Perch & road-xing ties with spark gap	Each	R	269.12
1.5	1300	PHASE / PHASE - STAGGEREDVERTICAL (450mm SPACING) - INTERMEDIATE - 0° DEVIATION	Each	R	250.34
1.6	1300	Phase / phase – Staggered Vertical (450mm spacing) – Intermediate - 0° Deviation Rx	Each	R	251.34
1.7	1310	PHASE / PHASE - STAGGEREDVERTICAL (600mm SPACING) - INTERMEDIATE - 0° DEVIATION	Each	R	250.34
1.8	1310	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate - 0° Deviation Rx	Each	R	251.34
1.9	1320	Phase / phase – Delta (450mm Stud) – Intermediate - 0° Deviation	Each	R	219.05
1.10	1320	Phase / phase – Delta (450mm Stud) – Intermediate - 0° Deviation Rx	Each	R	219.05
1.11	1330	PHASE / PHASE - DELTA (600mmSTUD) - INTERMEDIATE - 0° DEVIATION	Each	R	219.05
1.12	1330	Phase / phase – Delta (600mm Stud) – Intermediate - 0° Deviation Rx	Each	R	219.05
1.13	1330	Phase / phase – Delta (600mm Stud) – Intermediate - 0° Deviation With Spark Gap Device	Each	R	250.34
1.14	1330	Phase / phase – Delta (600mm Stud) – Intermediate - 0° Deviation With Spark Gap Device -Rx	Each	R	250.34
1.15	1340	PHASE / PHASE - DELTA / 2,5mWOOD X-ARM - INTERMEDIATE - 0° DEVIATION	Each	R	250.34
1.16	1340	PHASE / PHASE - DELTA / 2,5mWOOD X-ARM - INTERMEDIATE - 0° DEVIATION RX	Each	R	250.34
1.17	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Intermediate - 0° Deviation	Each	R	250.34
1.18	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Intermediate - 0° Deviation Rx	Each	R	250.34
1.19	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Intermediate - 0° Deviation With Spark Gap Device	Each	R	269.12
1.20	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Intermediate - 0° Deviation With Spark Gap Device-Rx	Each	R	269.12
1.21	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation	Each	R	246.59
1.22	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -RX	Each	R	246.59
1.23	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -With Spark Gap device	Each	R	246.59
1.24	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -With Spark Gap device - RX	Each	R	246.59
1.25	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Each	R	393.19
1.26	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Each	R	393.19
1.27	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap device	Each	R	420.76
1.28	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap device-RX	Each	R	420.76
2		Strainer - Small (1 - 30) deg			
2.1	1301	PHASE / PHASE - VERTICAL (450mmSPACING) - INTERMEDIATE - SMALL(1°-±10°) DEVIATION	Each	R	187.76
2.2	1301	PHASE / PHASE - VERTICAL (450mmSPACING) - INTERMEDIATE - SMALL(1°-±10°) DEVIATION Rx	Each	R	187.76
2.3	1302	PHASE / PHASE - VERTICAL (450mmSPACING) - INTERMEDIATE - MEDIUM(±10°-30°) DEVIATION	Each	R	187.76
2.4	1302	PHASE / PHASE - VERTICAL (450mmSPACING) - INTERMEDIATE - MEDIUM(±10°-30°) DEVIATION Rx	Each	R	187.76
2.5	1311	PHASE / PHASE - VERTICAL (600mmSPACING) - INTERMEDIATE - SMALL (1°-±10°) DEVIATION	Each	R	219.05
2.6	1311	PHASE / PHASE - VERTICAL (600mmSPACING) - INTERMEDIATE - SMALL (1°-±10°) DEVIATION Rx	Each	R	219.05
2.7	1312	Phase / phase – Vertical (600mm spacing) – Intermediate - Medium (10-30°) Deviation	Each	R	219.05
2.8	1312	Phase / phase – Vertical (600mm spacing) – Intermediate - Medium (10-30°) Deviation Rx	Each	R	219.05
2.9	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 – 10°) deviation	Each	R	391.41
2.10	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 – 10°) deviation-RX	Each	R	391.41
2.11	1391	Phase / phase - T-frame/ 2m Steel X-arm – Intermediate - Small (1- +/-10°) Deviation	Each	R	246.59
2.12	1391	Phase / phase - T-frame/ 2m Steel X-arm – Intermediate - Small (1- +/-10°) Deviation -RX	Each	R	215.76
3		Strainer - 0 deg			
3.1	1303	PHASE / PHASE - VERTICAL (450mmSPACING) - STRAIN - 0° DEVIATION	Each	R	250.34
3.2	1303	PHASE / PHASE - VERTICAL (450mmSPACING) - STRAIN - 0° DEVIATION Rx	Each	R	250.34
3.3	1313	PHASE / PHASE - VERTICAL (600mmSPACING) - STRAIN - 0° DEVIATION	Each	R	250.34
3.4	1313	PHASE / PHASE - VERTICAL (600mmSPACING) - STRAIN - 0° DEVIATION Rx	Each	R	250.34
3.5	1340	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R	247.71
3.6	1340	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation Rx	Each	R	247.71
3.7	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R	247.71
3.8	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation Rx	Each	R	247.71
3.9	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation With Spark Gap Device	Each	R	266.29
3.10	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation With Spark Gap Device-Rx	Each	R	266.29
3.11	1343	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R	247.71
3.12	1343	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation - Rx	Each	R	247.71
3.13	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation	Each	R	391.41
3.14	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation -RX	Each	R	391.41
4		Strainer - Medium (1 - 60) deg			
4.1	1304	PHASE / PHASE - VERTICAL (450mmSPACING) - STRAIN - SMALL(1°-30°) DEVIATION	Each	R	146.78
4.2	1304	PHASE / PHASE - VERTICAL (450mmSPACING) - STRAIN - SMALL(1°-30°) DEVIATION - Rx	Each	R	146.78

4.3	1314	PHASE / PHASE - VERTICAL (600mmSPACING) - STRAIN - SMALL(1°-30°) DEVIATION	Each	R	146.78
4.4	1314	PHASE / PHASE - VERTICAL (600mmSPACING) - STRAIN - SMALL(1°-30°) DEVIATION - Rx	Each	R	146.78
4.5	1334	PHASE / PHASE - DELTA / 1,3mSTEEL X-ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Each	R	247.71
4.6	1334	PHASE / PHASE - DELTA / 1,3mSTEEL X-ARM - STRAIN - MEDIUM (1°-60°) DEVIATION Rx	Each	R	247.71
4.7	1344	Phase / phase – Delta/2.5M Wooden X-arm –Strain - Medium (1-60°) Deviation	Each	R	247.71
4.8	1344	Phase / phase – Delta/2.5M Wooden X-arm –Strain - Medium (1-60°) Deviation -Rx	Each	R	247.71
4.9	1374	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain - Medium(1°- 60°) Deviation	Each	R	391.41
4.10	1374	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain - Medium(1°- 60°) Deviation -RX	Each	R	391.41
5		Strainer - Terminal			
5.1	1346	Phase / phase – Delta/2.5M Wood X-arm – Strain - Terminal	Each	R	247.71
5.2	1346	Phase / phase – Delta/2.5M Wood X-arm – Strain - Terminal -Rx	Each	R	247.71
5.3	1376	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – Terminal	Each	R	391.41
5.4	1376	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – Terminal -RX	Each	R	391.41
6		Take-Off			
6.1	1811	Phase / phase Take-off – Vertical (600mm spacing)	Each	R	146.78
6.2	1811	Phase / phase Take-off – Vertical (600mm spacing)-RX	Each	R	146.78
6.3	1814	Phase / phase Take-off - 2,5m Wooden X-arm	Each	R	184.94
6.4	1814	Phase / phase Take-off - 2,5m Wooden X-arm-RX	Each	R	184.94
6.5	1815	Phase / phase Take-off - 2 x 2,5m Wooden X-arm	Each	R	293.55
6.6	1815	Phase / phase Take-off - 2 x 2,5m Wooden X-arm-RX	Each	R	293.55
6.7	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)	Each	R	342.48
6.8	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)-RX	Each	R	342.48
6.9	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm)	Each	R	391.41
6.10	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm) -RX	Each	R	391.41
		Assemble Three Phase MV Structures BONDING INCL (BIL DOWNWIRE, SPARK GAP DEVICE INCLUDED OR EXCLUDED AS PER DESIGN)			
7		Intermediate - 0 deg			
7.1	D-EC2063	3 Phase Delta intermediate 0 degrees D2063 - A-Frame with 4kN Posts + Bird Perch	Each	R	250.34
7.2	D-EC2063	3 Phase Delta intermediate 0 degrees D2063 - A-Frame 10kN Posts + Bird Perch & road-xing ties	Each	R	250.34
7.3	D-EC2063	3 Phase Delta intermediate 0 degrees D2063 - A-Frame with 4kN Posts + Bird Perch with spark gap	Each	R	269.12
7.4	D-EC2063	3 Phase Delta intermediate 0 degrees D2063 - A-Frame 10kN Posts + Bird Perch & road-xing ties with spark gap	Each	R	269.12
7.5	D-DT-1700	3 Phase - Staggered Vertical (450mm Spacing)	Each	R	207.61
7.6	D-DT-1710	3 Phase - Staggered Vertical (600mm Spacing)	Each	R	207.61
7.7	D-DT-1720	3 Phase - Delta (450mm Stud)	Each	R	207.61
7.8	D-DT-1730	3 Phase - Delta (Intermediate T' Crossarm)	Each	R	207.61
7.9	D-DT-1740	3 Phase - Delta / 2,5m Wood Crossarm	Each	R	237.27
7.10	D-DT-1750	3 Phase - Delta / 4,5m Wood Crossarm	Each	R	470.78
7.11	D-DT-1760	3 Phase - H-Pole / 3,5m Wood Crossarm	Each	R	376.62
7.12	D-DT-1770	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R	376.62
7.13	D-DT-1785	MV Heavy Conductor - 3 Phase Staggered Vertical 800mm Spacing	Each	R	470.78
7.14	D-DT-1790	MV Heavy Conductor - 3 Phase - Delta - 3500mm Wooden Crossarm	Each	R	470.78
7.15	D-DT-1793	MV Heavy Conductor - 22kV H-Pole Suspension Structure General Arrangement	Each	R	470.78
7.16	D-DT-1870	Three Phase T-Frame / 2m Steel Crossarm	Each	R	237.27
7.17	1740	3 Phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R	246.59
7.18	1740	3 Phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation Rx	Each	R	246.59
7.19	D-DT-1870B	Three Phase T-Frame / 2m Steel Cross arm, Horizontal Configuration	Each	R	246.59
7.20	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation	Each	R	246.59
7.21	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -RX	Each	R	246.59
7.22	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device	Each	R	265.08
7.23	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device-RX	Each	R	265.08
7.24	1750	3 Phase - Delta / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Each	R	470.78
7.25	1750	3 Phase - Delta / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device	Each	R	470.78
7.26	1750	3 Phase - Delta / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device-RX	Each	R	470.78
7.27	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx	Each	R	207.61
7.28	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Each	R	391.41
7.29	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device	Each	R	376.62
7.30	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device -RX	Each	R	376.62
7.31	1790	Heavy Conductor - 3 Phase Delta-3500mm Wooden X-arm Intermediate 0° Deviation Rx	Each	R	470.78
7.32	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx	Each	R	207.61
8		Intermediate - (0 - 10) deg			
8.1	D-DT-1701	3 Phase - Vertical (450mm Spacing)	Each	R	207.61
8.2	D-DT-1711	3 Phase - Vertical (600mm Spacing)	Each	R	207.61
8.3	D-DT-1771	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R	376.62
8.4	D-DT-1871	Three Phase T-Frame / 2m Steel Crossarm	Each	R	237.27
8.5	1771	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - Small(1°-±10°) Deviation -RX	Each	R	376.62
8.6	1711	3 Phase - Vertical (600mm Spacing) Intermediate-Small (1 - ±10°) Deviation Rx	Each	R	207.61
9		Intermediate - (15 - 30) deg			
9.1	D-DT-1702	3 Phase - Vertical (450mm Spacing)	Each	R	207.61
9.2	D-DT-1712	3 Phase - Vertical (600mm Spacing)	Each	R	207.61
9.3	1712	3 Phase - Vertical (600mm Spacing) Intermediate-Medium (±15-30°) Deviation Rx	Each	R	207.61
10		Strainer - 0 deg			
10.1	D-DT-1703	3 Phase - Vertical (450mm Spacing)	Each	R	237.27

ESKOM HOLDINGS SOC Ltd
ESKOM DISTRIBUTION ELECTRIFICATION PROJECTS – HOUSEHOLDS
AND HIGH VALUE EXTENSIONS IN THE CAPE COASTAL CLUSTER - EASTERN CAPE

CONTRACT NO. _____

10.2	D-DT-1713	3 Phase - Vertical (600mm Spacing)	Each	R	237.27
10.3	D-DT-1733	3 Phase - Delta / 1,3m Steel Crossarm	Each	R	237.27
10.4	D-DT-1743	3 Phase - 600mm Phase Spacing Delta / 2,5m Wood Crossarm	Each	R	266.93
10.5	D-DT-1747	3 Phase - 600mm Phase Spacing Delta / 2 x 2,5m Wood Crossarm	Each	R	470.78
10.6	D-DT-1747	3 Phase - 800mm Phase Spacing Delta / 2 x 2,5m Wood Crossarm	Each	R	470.78
10.7	D-DT-1753	3 Phase - Delta / 4,5m Wood Crossarm	Each	R	470.78
10.8	D-DT-1763	3 Phase - Delta / 3,5m Wood Crossarm	Each	R	470.78
10.9	D-DT-1767	3 Phase - H-Pole / 2 x 3,5m Wood Crossarm	Each	R	819.16
10.10	D-DT-1773	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R	376.62
10.11	D-DT-1777	3 Phase - H-Pole / 2 x 4,5m Wood Crossarm	Each	R	819.16
10.12	D-DT-1783	3 Phase - Trips	Each	R	847.40
10.13	D-DT-1786	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R	470.78
10.14	D-DT-1794	MV Heavy Conductor - 22kV H-Pole Braced	Each	R	470.78
10.15	1767	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - 0° Deviation -RX	Each	R	819.16
10.16	1773	3 Phase - H-Pole / 4,5m Wood X-arm - Strain - 0° Deviation-RX	Each	R	376.62
10.17	1777	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain - 0° Deviation -RX	Each	R	819.16
10.18	1713	3 Phase - Vertical (600mm Spacing) Strain 0° Deviation Rx	Each	R	237.27
10.19	1743	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation -RX	Each	R	266.93
10.20	1747	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R	470.78
10.21	1753	3 Phase - Delta / 4,5m Wood X-arm - Strain – 0° Deviation -RX	Each	R	470.78
10.22	1763	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R	470.78
10.23	1785	3 Phase - Staggered Vertical (800mm spacing) 0° Deviation Rx Wood Poles Rx	Each	R	470.78
10.24	1786	3 Phase - Vertical (800mm spacing) Strain 0° Deviation 10kN Wood Poles Rx	Each	R	470.78
10.25	1783	3 Phase – Trips – Strain - 0° Deviation (Front view) -RX	Each	R	847.40
10.26	1794	Heavy Conductor H-Pole Braced In-Line strain-RX	Each	R	470.78
11		Strainer - Small (1 - 30) deg			
11.1	D-DT-1704	3 Phase - Vertical (450mm Spacing)	Each	R	237.27
11.2	D-DT-1714	3 Phase - Vertical (600mm Spacing)	Each	R	237.27
11.3	D-DT-1734	3 Phase - Delta / 1,3m Steel Crossarm	Each	R	266.93
11.4	D-DT-1787	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R	470.78
11.5	1714	3 Phase - Vertical (600mm Spacing) Strain - Small(1-30°) Deviation Rx	Each	R	237.27
11.6	1787	3 Phase - Vertical (800mm spacing) Strain 0-30° Deviation 10kN Wood Poles Rx	Each	R	470.78
12		Strainer - Medium (1 - 60) deg			
12.1	D-DT-1744	3 Phase - Delta / 2,5m Wood Crossarm	Each	R	266.93
12.2	D-DT-1748	3 Phase - Delta / 2 x 2,5m Wood Crossarm	Each	R	470.78
12.3	D-DT-1754	3 Phase - Delta / 4,5m Wood Crossarm	Each	R	470.78
12.4	D-DT-1754	3 Phase - Delta / 2 x 4,5m Wood Crossarm	Each	R	470.78
12.5	D-DT-1764	3 Phase - H-Pole / 3,5m Wood Crossarm	Each	R	470.78
12.6	D-DT-1768	3 Phase - Pole / 2 x 3,5m Wood Crossarm	Each	R	819.16
12.7	D-DT-1774	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R	376.62
12.8	D-DT-1778	3 Phase - Pole / 2 x 4,5m Wood Crossarm	Each	R	819.16
12.9	D-DT-1795	MV Heavy Conductor - 22kV H-Pole Braced	Each	R	470.78
12.10	1744	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R	266.93
12.11	1748	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R	470.78
12.12	1754	3 Phase - Delta / 4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R	470.78
12.13	1754	3 Phase - Delta / 2x4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R	470.78
12.14	1764	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R	470.78
12.15	1768	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - Medium(1°-60°) Deviation -RX	Each	R	819.16
12.16	1774	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R	376.62
12.17	1778	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium(1°-60°) Deviation -RX	Each	R	819.16
12.18	1795	Heavy Conductor H-Pole Braced Angle strain (1-60°)-RX	Each	R	470.78
13		Strainer - Large (61- 90) deg			
13.1	D-DT-1705	3 Phase - Vertical (450mm Spacing)	Each	R	266.93
13.2	D-DT-1715	3 Phase - Vertical (600mm Spacing)	Each	R	237.27
13.3	D-DT-1735	3 Phase - Delta / 1,3m Steel Crossarm	Each	R	237.27
13.4	D-DT-1742	3 Phase - Delta 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R	431.25
13.5	D-DT-1742	3 Phase - Delta 2,5m Wood Crossarm / 2,5m Wood Crossarm	Each	R	431.25
13.6	D-DT-1745	3 Phase - Delta 2 x 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R	470.78
13.7	D-DT-1745	3 Phase - Delta 2 x 2,5m Wood Crossarm / 2 x 2,5m Wood Crossarm	Each	R	470.78
13.8	D-DT-1745	3 Phase - Delta 1 x 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R	470.78
13.9	D-DT-1745	3 Phase - Delta 2,5m Wood Crossarm 2,5m Wood Crossarm	Each	R	470.78
13.10	D-DT-1784	3 Phase - Trips	Each	R	847.40
13.11	D-DT-1788	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R	470.78
13.12	D-DT-1791	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing (Double Wood Poles)	Each	R	862.50
13.13	D-DT-1792	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing (Double Wood Poles)	Each	R	862.50
13.14	D-DT-1873	3 Phase - H-Pole / 2 x 4,5m Wooden Crossarm	Each	R	819.16
13.15	1715	3 Phase - Vertical (600mm Spacing) Strain - Large(30-90°) Deviation Rx	Each	R	237.27
13.16	1745	3 Phase - Delta /2 x 2,5m wood x-arms/1700 WOOD x-arm - strain - (60° - 90°) deviation-RX	Each	R	470.78
13.17	1745	3 Phase - Delta /2 x 2,5m wood x-arms/ 3x2.5 wood x-arms - strain - (60° - 90°) deviation	Each	R	470.78
13.18	1745	3 Phase - Delta /2 x 2,5m wood x-arms/ 3x2.5 wood x-arms - strain - (60° - 90°) deviation-RX	Each	R	470.78
13.19	1784	3 Phase – Trips – Strain - Large(1°-90°) Deviation (Front view) -RX	Each	R	847.40
13.20	1873	3 Phase H-pole /2X4.5m Wooden X-arm Strain Large (60-90°) Deviation Rx	Each	R	819.16
14		Strainer - Terminal			
14.1	D-DT-1706	3 Phase - Vertical (450mm Spacing)	Each	R	237.27
14.2	D-DT-1716	3 Phase - Vertical (600mm Spacing)	Each	R	207.61
14.3	D-DT-1736	3 Phase - Delta / 1,3m Steel Crossarm	Each	R	237.27
14.4	D-DT-1746	3 Phase - Delta / 2,5m Wood Crossarm	Each	R	266.93
14.5	D-DT-1749	3 Phase - Delta / 2 x 2,5m Wood Crossarm	Each	R	470.78
14.6	D-DT-1756	3 Phase - Delta / 4,5m Wood Crossarm	Each	R	470.78

14.7	D-DT-1766	3 Phase - H-pole / 3.5m Wood Crossarm	Each	R	470.78
14.8	D-DT-1769	3 Phase - H-pole / 2 x 3.5m Wood Crossarm	Each	R	819.16
14.9	D-DT-1776	3 Phase - H-pole / 4.5m Wood Crossarm	Each	R	376.62
14.10	D-DT-1779	3 Phase - H-pole / 2 x 4.5m Wood Crossarm	Each	R	819.16
14.11	D-DT-1789	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R	470.78
14.12	D-DT-1796	MV Heavy Conductor - 22kV H-Pole Braced	Each	R	470.78
14.13	1746	3 Phase - Delta / 2.5m Wood X-arm - Strain - Terminal -RX	Each	R	277.41
14.14	1749	3 Phase - Delta / 2 x 2.5m Wood X-arm - Strain - Terminal -RX	Each	R	489.26
14.15	1756	3 Phase - Delta / 4.5m Wood X-arm - Strain - Terminal -RX	Each	R	489.26
14.16	1766	3 Phase - H-Pole / 3.5m Wood X-arm - Strain - Terminal -RX	Each	R	489.26
14.17	1769	3 Phase - H-Pole / 2 x 3.5m Wood X-arm - Strain - Terminal -RX	Each	R	851.31
14.18	1776	3 Phase - H-Pole / 4.5m Wood X-arm - Strain - Terminal -RX	Each	R	391.41
14.19	1779	3 Phase - H-Pole / 2 x 4.5m Wood X-arm - Strain - Terminal -RX	Each	R	851.31
14.20	1789	3 Phase - Vertical (800mm spacing) Strain - Terminal (10kN Wood Poles) Rx	Each	R	489.26
14.21	1716	3 Phase - Vertical (600mm Spacing) Strain - Terminal Rx	Each	R	215.76
14.22	1796	Heavy Conductor H-Pole Braced Terminal structure-RX	Each	R	489.26
14.23	1793	Heavy Conductor H-Pole Suspension Structure-RX	Each	R	489.26
14.24	1793	Heavy Conductor H-Pole Suspension Structure- With Spark Gap Device	Each	R	518.61
14.25	1793	Heavy Conductor H-Pole Suspension Structure- With Spark Gap Device-RX	Each	R	518.61
15		Take-Off			
15.1	D-DT-1800	3 Phase Take-Off - Vertical (450mm Spacing)	Each	R	207.61
15.2	D-DT-1801	3 Phase Take-Off - Vertical (600mm Spacing)	Each	R	207.61
15.3	D-DT-1803	3 Phase Take-Off - Delta / 1.3m Steel Crossarm	Each	R	207.61
15.4	D-DT-1804	3 Phase Take-Off - 2.5M Wooden Crossarm	Each	R	207.61
15.5	D-DT-1805	3 Phase Take-Off - 2 x 2.5M Wooden Crossarm	Each	R	376.62
15.6	D-DT-1806	3 Phase Take-Off - H-Pole 3.5M Wooden Crossarm	Each	R	329.55
15.7	D-DT-1807	3 Phase Take-Off - H-Pole 2 x 3.5M Wooden Crossarm	Each	R	376.62
15.8	D-DT-1808	3 Phase Take-Off - 1.7m Steel Crossarm (Fox)	Each	R	164.77
15.9	D-DT-1809	3 Phase Take-Off - 1.7m Steel Crossarm (Hare)	Each	R	164.77
15.10	1801	3 Phase Take-off - Vertical 600mm Spacing Rx	Each	R	207.61
15.11	1804	3 Phase Take-off - 2.5m Wooden X-arm-RX	Each	R	207.61
15.12	1805	3 Phase Take-off - 2 x 2.5m Wooden X-arm-RX	Each	R	376.62
15.13	1806	3 Phase Take-off - H-Pole (3.5m Wooden X-arm)-RX	Each	R	329.55
15.14	1807	3 Phase Take-off - H-Pole (2 x 3.5m Wooden X-arm) -RX	Each	R	376.62
15.15	(OU Specific Drawing No)	Erect goal posts, supply and erect temporary structures and traffic signs and regulate traffic during construction for all road crossings/railways crossings. (This includes any loss of production during road crossings and ensuring that access is maintained to roads and properties as well as any fees by Prov. Traffic Dept)	Each	R	2 965.84
SUB-TOTAL E					
F		ASSEMBLE MV STAYS			
Supply and install stays, flying stays, struts Hip Stay including backfilling & compaction (cement measured elsewhere). Accessories include staywire, stayrods, stay plates, soil anchors, stay insulators, guy grips stay mounting brackets, mounting hardware, anti climbing devices, stayguards and danger labels. Poles and excavations are measured elsewhere. The installation and erection of strut poles are measured here. All hardware purchased will be paid elsewhere as cost plus fee.					
1.1	D-DT-0341	Make-Off Conventional Stay	Each	R	348.61
1.2	D-DT-0343	Make-Off Flying Stay	Each	R	416.12
1.3	D-DT-0342/0351	Make-Off Strut Pole	Each	R	308.96
1.4	D-DT-0344	Hip Stay	Each	R	545.47
1.5	0357 (Sh 1 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (EXPANDABLE SHELL & RESIN TYPE)	Each	R	245.75
1.6	0357 (Sh 2 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (2 EYED ROD AND PIN TYPE)	Each	R	196.60
1.7	0357 (Sh 3 of 3)	MV- SOFT ROCK ANCHOR INSTALLATION	Each	R	196.60
SUB-TOTAL F					
G		ASSEMBLE SINGLE PHASE LV STRUCTURES			
Supply and erect LV support structures as per Eskom DDT 1100 (use insulated/bare neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					
1		A. List of single-phase ABC wood pole			
1.1	1153	LV 1 phase insulated/bare neutral ABC Suspension Assembly (0°- 30°)	Each	R	73.39
1.2	1154	LV 1 phase insulated/bare neutral ABC Terminal Assembly	Each	R	97.85
1.3	1155	LV 1 phase insulated/bare neutral ABC Strain Assembly (0°- 60°)	Each	R	97.85
1.4	1156	LV 1 phase insulated/bare neutral LV 2 phase bare neutral (60°- 90°)	Each	R	97.85
1.5	1157	LV 1 phase insulated/bare neutral ABC T from Intermediate	Each	R	97.85
1.6	1158	LV 1 phase insulated/bare neutral ABC Cross Intermediate Suspension Assembly	Each	R	122.31
1.7	1159	LV 1 phase insulated/bare neutral ABC T from Strain	Each	R	146.78
1.8	1160	LV 1 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Each	R	171.24
1.9	1161	LV - 1 PHASE BARE NEUTRAL ABC INLINE FUSE UNIT ASSEMBLY WOOD POLE	Each	R	171.24
		ASSEMBLE DUAL PHASE LV STRUCTURES			
Supply and erect LV support structures as per Eskom DDT 1100(only use insulated/bare neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					
2		B. List of Dual - phase ABC wood pole			
2.1	1145	LV 2 phase insulated/bare neutral ABC Suspension Assembly (0°- 30°)	Each	R	73.39
2.2	1146	LV 2 phase insulated/bare neutral LABC Terminal Assembly	Each	R	97.85
2.3	1147	LV 2 phase insulated/bare neutral ABC Strain Assembly (0°- 60°)	Each	R	97.85
2.4	1148	LV 2 phase insulated/bare neutral ABC Strain Assembly (60°- 90°)	Each	R	97.85
2.5	1149	LV 2 phase insulated/bare neutral ABC T from Intermediate	Each	R	97.85
2.6	1150	LV 2 phase insulated/bare neutral ABC Intermediate Suspension Assembly	Each	R	122.31
2.7	1151	LV 2 phase insulated/bare neutral ABC T from Strain	Each	R	146.78
2.8	1152	LV 2 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Each	R	171.24
		ASSEMBLE 3 PHASE LV STRUCTURES			
Supply and erect LV support structures as per Eskom DDT 1100 (use insulated/bare neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					

3		A. List of 3-phase ABC wood pole			
3.1	D-DT-1100	LV - 3 Phase insulated/bare neutral ABC Suspension Assembly 0-30 Deg.	Each	R	91.80
3.2	D-DT-1121	LV - 3 Phase insulated/bare neutral ABC Strain Assembly 0-60 Deg.	Each	R	122.40
3.3	D-DT-1122	LV - 3 Phase insulated/bare neutral ABC Strain Assembly 60-90 Deg.	Each	R	122.40
3.4	D-DT-1120	LV - 3 Phase insulated/bare neutral ABC Terminal Assembly	Each	R	122.40
3.5	D-DT-1140	LV - 3 Phase insulated/bare neutral ABC T-Off Assembly from Intermediate	Each	R	122.40
3.6	D-DT-1141	LV - 3 Phase insulated/bare neutral ABC Cross Intermediate - Intermediate Assembly	Each	R	153.00
3.7	D-DT-1142	LV - 3 Phase insulated/bare neutral ABC T-Off Assembly From Strain	Each	R	183.60
3.8	D-DT-1143	LV - 3 Phase insulated/bare neutral ABC Cross Intermediate - Strain Assembly	Each	R	214.20
Supply and erect LV support structures as per Eskom DDT 1100. Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					
4		D. List of three-phase Bare Wire wood pole			
4.1	0920	LV 3phase Bare Wire Suspension Assembly 0 Deg	Each	R	124.18
4.2	0921	LV 3phase Bare Wire in-line Strain Assembly	Each	R	124.18
4.3	0922	LV 3 phase Bare Wire 1-100 Deg Angle Assembly	Each	R	124.18
4.4	0924	LV 3 phase Bare Wire Terminal Assembly	Each	R	124.18
4.5	0925	LV 3 phase Bare Wire T-Off Assembly from Intermediate	Each	R	124.18
4.6	0926	LV 3 phase Bare Wire Intermediate Right Angle Crossing	Each	R	198.68
4.7	0927	LV 3 phase Bare Wire T-Off Assembly from Strain	Each	R	124.18
4.8	0928	LV 3 phase Bare Wire Cable Connection	Each	R	124.18
4.9	0929	LV 3 phase Bare Wire Service Distribution Box Connection	Each	R	99.34
4.10	0932	LV 3 phase Bare Wire Open Wire/ABC Connection	Each	R	124.18
4.11	0934	LV 3 phase Bare Wire Intermediate Strain Crossing	Each	R	173.85
4.12	0935	LV 3 phase Bare Wire Strain-Strain Crossing	Each	R	198.68
ASSEMBLE DUAL - PHASE LV STRUCTURES					
Supply and erect LV support structures as per Eskom DDT 1100. Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					
5		E. List of Dual - phase Bare Wire Wood pole			
5.1	0940	LV 2phase Bare Wire Suspension Assembly 0 Deg	Each	R	99.34
5.2	0941	LV 2phase Bare Wire in-line Strain Assembly	Each	R	99.34
5.3	0942	LV 2 phase Bare Wire 1-100 Deg Angle Assembly	Each	R	99.34
5.4	0944	LV 2 phase Bare Wire Terminal Assembly	Each	R	99.34
5.5	0945	LV 2phase Bare Wire T-Off Assembly from Intermediate	Each	R	99.34
5.6	0946	LV 2phase Bare Wire Intermediate Right Angle Crossing	Each	R	198.68
5.7	0947	LV 2 phase Bare Wire T-Off Assembly from Strain	Each	R	99.34
5.8	0948	LV 2 phase Bare Wire Cable Connection	Each	R	99.34
5.9	0949	LV 2 phase Bare Wire Service Distribution Box Connection	Each	R	74.51
5.10	0950	LV 2 phase Bare Wire Open Wire/ABC Connection	Each	R	99.34
5.11	0951	LV 2 phase Bare Wire Intermediate Strain Crossing	Each	R	149.01
5.12	0952	LV 2 phase Bare Wire Strain-Strain Crossing	Each	R	173.85
ASSEMBLE SINGLE - PHASE LV STRUCTURES					
Supply and erect LV support structures as per Eskom DDT 1100. Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436					
6		F. List of Single-phase Bare Wire wood pole			
6.1	0960	LV 1phase Bare Wire Suspension Assembly 0 Deg	Each	R	49.67
6.2	0961	LV 1phase Bare Wire in-line Strain Assembly	Each	R	74.51
6.3	0962	LV 1 phase Bare Wire 1-100 Deg Angle Assembly	Each	R	74.51
6.4	0964	LV 1 phase Bare Wire Terminal Assembly	Each	R	74.51
6.5	0965	LV 1phase Bare Wire T-Off Assembly from Intermediate	Each	R	74.51
6.6	0966	LV 1phase Bare Wire Intermediate Right Angle Crossing	Each	R	173.85
6.7	0967	LV 1 phase Bare Wire T-Off Assembly from Strain	Each	R	74.51
6.8	0968	LV 1 phase Bare Wire Cable Connection	Each	R	74.51
6.9	0969	LV 1 phase Bare Wire Service Distribution Box Connection	Each	R	49.67
6.10	0970	LV 1phase Bare Wire Open Wire/ABC Connection	Each	R	74.51
6.11	0971	LV 1 phase Bare Wire Intermediate Strain Crossing	Each	R	149.01
6.12	0972	LV 1 phase Bare Wire Strain-Strain Crossing	Each	R	149.01
6.13	0980	LV Bare Wire - MV/LV Bare Wire Staying Technology	Each	R	49.67
6.14	0981	LV Bare Wire - LV Metering 3Phase, 2Phase and 1Phase Connections	Each	R	49.67
6.15	0982	LV Bare Wire - Eye Nut Assembly	Each	R	24.84
6.16	0983	LV Bare Wire - Binding Techniques	Each	R	24.84
SUB-TOTAL G					
H		ASSEMBLE LV STAYS			
Supply and install stays, flying stays, struts Short Stay including backfilling & compaction. Accessories include staywire, stayrods, stay plates, soil anchors, stay insulators, guy grips stay mounting brackets, mounting hardware, anti climbing devices, stayguards and danger labels. Poles and excavations are measured elsewhere. The installation and erection of strut poles are measured here. All hardware purchased will be paid elsewhere as cost plus fee.					
1.1	D-DT-0341	Make-Off Conventional Stay	Each	R	331.17
1.2	D-DT-0343	Make-Off Flying Stay	Each	R	395.33
1.3	D-DT-0342/0351	Make-Off Strut Pole	Each	R	293.52
1.4	D-DT-0344	Make-Off Short Strut Pole	Each	R	293.52
SUB-TOTAL H					
I		POLE TOP BOX INSTALLATION			
Install on a wooden and/or concrete pole a pole mounted distribution box as specified complete with pole mounting brackets (including sealing), cable ties, PG clamps, miniature circuit breaker(s), neutral, phase and earth bars, insulated copper tails for connecting to LV ABC, insulation piercing connectors and factory installed cable openings. Included shall be the stainless steel strapping, buckles and terminations of the tails onto the LV ABC. Eskom D-DT standards as amended will apply.					
1.1	D-DT-3236	2 Way Steel Box for Split/Smart Metering	Each	R	260.00
1.2	D-DT-3236	4 Way Steel Box for Split/Smart Metering	Each	R	260.00
1.3	D-DT-3236	6 Way Steel Box for Split/Smart Metering	Each	R	260.00
1.3	D-DT-3236	8 Way Steel Box for Split/Smart Metering	Each	R	260.00
1.4	3055	BOX,POLE TOP Split/Smart METER 2-WAY 50A D3055	Each	R	260.00
1.5	3055	BOX,POLE TOP Split/Smart METER 4-WAY 50A D3055	Each	R	260.00
1.6	3055	BOX,POLE TOP Split/Smart METER 6-WAY 50A D3055	Each	R	260.00
1.7	3055	BOX,POLE TOP Split/Smart METER 2-WAY 120A D3055	Each	R	260.00
1.8	3055	BOX,POLE TOP Split/Smart METER 8-WAY 50A D3055	Each	R	260.00
1.9	D-DT-0338	LV Services Ground (Cross arm) Mounted Small Power User Outdoor Supply	Each	R	260.00
1.10	D-DT-0338	LV Services Pole (H-Pole F Bracket) mounted Large Power User Outdoor Supply	Each	R	260.00
1.11	D-DT-0338	LV Services Pole Mounted Small Power User Outdoor Supply	Each	R	260.00

ESKOM HOLDINGS SOC Ltd
ESKOM DISTRIBUTION ELECTRIFICATION PROJECTS – HOUSEHOLDS
AND HIGH VALUE EXTENSIONS IN THE CAPE COASTAL CLUSTER - EASTERN CAPE

CONTRACT NO. _____

1.12	D-DT-0338	LV Services Ground Mounted LPU Outdoor Supply	Each	R	260.00
1.13	D-DT-0338	LV Services Ground (Cross Arm) Mounted SPU outdoor Supply (Away From Transformer)	Each	R	260.00
1.14	D-DT-0338	LV Services Ground Mounted Large Power User < 200kVA Outdoor Supply (away from Transformer)	Each	R	260.00
1.15	D-DT-1042 & D-DT-3055	Box, pole top smart split meter 2-way 20A	Each	R	260.00
1.16	D-DT-1042 & D-DT-3056	Box, pole top smart split meter 2-way 60A	Each	R	260.00
1.17	D-DT-1043 & D-DT-3055	Box, pole top smart split meter 4-way 20A	Each	R	260.00
1.18	D-DT-1043 & D-DT-3056	Box, pole smart top split meter 4-way 60A	Each	R	260.00
1.19	D-DT-1043 & D-DT-3057	Box, pole top split meter 6-way 20A	Each	R	260.00
1.20	D-DT-1043 & D-DT-3058	Box, pole top split meter 6-way 60A	Each	R	260.00
1.21	D-DT-1045 & D-DT-3055	Box, pole top smart split meter 8-way 20A	Each	R	260.00
1.22	D-DT-1030	Kiosk meter: 1ph; 4.6 kVA; 2 way; secure; pole mount (20A)	Each	R	260.00
1.23	D-DT-1031	Kiosk meter: 1ph; 4.6 kVA; 4 way; secure; pole mount (20A)	Each	R	260.00
1.24	D-DT-1032	Kiosk meter: 1ph; 4.6 kVA; 6 way; secure; pole mount (20A)	Each	R	260.00
1.25	D-DT-1033	Kiosk meter: 1ph; 4.6 kVA; 8 way; secure; pole mount (20A)	Each	R	260.00
1.26	D-DT-1030	Kiosk meter: 1ph; 14 kVA; 2 way; secure; pole mount (60A)	Each	R	260.00
1.27	D-DT-1031	Kiosk meter: 1ph; 14 kVA; 4 way; secure; pole mount (60A)	Each	R	260.00
1.28	D-DT-1032	Kiosk meter: 1ph; 14 kVA; 6 way; secure; pole mount (60A)	Each	R	260.00
1.29	D-DT-1033	Kiosk meter: 1ph; 14 kVA; 8 way; secure; pole mount (60A)	Each	R	260.00
1.30	D-DT-6050	PADLOCK, ST LV MASTER KZN OU D6050 (ORANGE)	Each	R	325.00
SUB-TOTAL I					
J	CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)				
Install Eskom issued marked conductor. Material quantity to allow for 5% sag in addition to actual conductor length quantity. Installation includes handling, stringing and final sagging. This will be for greased ungreased conductor					
1.1		Fox Conductor 1-Phase	m	R	3.76
1.2		Fox Full Tension Joint*	Each	R	92.20
1.3		Mink Conductor 1-Phase	m	R	3.76
1.4		Mink Full Tension Joint*	Each	R	92.20
1.5		Hare Conductor 1-Phase	m	R	3.76
1.6		Hare Full Tension Joint*	Each	R	92.20
1.7		Chickadee Conductor 1-Phase	m	R	15.80
1.8		Chickadee Full Tension Joint*	Each	R	173.82
1.9		Kingbird Conductor 1-Phase	m	R	15.80
1.10		Kingbird Full Tension Joint*	Each	R	173.82
1.11	3136	MV Bare AAAC Pine Greased	m	R	3.76
1.12		Pine Conductor Full Tension Joint	Each	R	92.20
1.13	3136	MV Bare AAAC Oak Greased	m	R	3.76
1.14		Oak Conductor Full Tension Joint	Each	R	92.20
1.15	3136	MV Bare AAAC 35mmsq Greased	m	R	3.76
1.16	0831	35mm sq. Full Tension Joint* 2 Core	Each	R	92.20
1.17	0831	35mm sq. Full Tension Joint* 3 Core	Each	R	138.80
1.18	0831	35mm sq. Full Tension Joint* 4 Core	Each	R	368.79
1.19	0800 series	70mm sq. Full Tension Joint* 4 Core	Each	R	92.20
1.20	3141	COND,ABC 2C XLPE 35SQ INS/Bare NEUT	m	R	2.30
1.21	3141	COND,ABC 3C XLPE 35SQ INS/Bare NEUT	m	R	2.45
1.22	3141	COND,ABC 4C XLPE 35SQ INS/Bare NEUT	m	R	3.26
1.23	3141	COND,ABC 3C XLPE 70SQ INS/Bare NEUT	m	R	2.45
1.24	3141	COND,ABC 4C XLPE 70SQ INS/Bare NEUT	m	R	3.26
1.25	3141	COND,ABC 4C XLPE 95SQ INS/Bare NEUT	m	R	4.43
SUB-TOTAL J					
K	EQUIPMENT INSTALLATION				
Install Transformer/Recloser/Voltage Regulator/MV Metering Units as per relevant Eskom DDT 1800 Series Assembly Drawing and OU Specific SI Engineering Instructions. All Auxiliary Equipment to include Station and Distribution MV, LV Surge Arrestors, Control Boxes, Metering Kiosks, Jumper Terminations, Anti Climbing Devices , LDPE Pipe Covered Jumpers as per 02TB-023 and Danger Labels, Channel Irons, Cradles, Standoff Insulators, Conductor Busbars and suitable Equipment Labels & X Arms. Pole Planting, Stays, Struts, Isolators Earthing Material and Excavations are elsewhere measured. Transformers/Reclosers/Voltage Regulators and MV Metering Units will be Eskom Free Issue Material. Main Line Structures and Auxiliary Equipment are elsewhere measured. All material purchased will be paid elsewhere as cost plus fee.					
1		Transformers			
1.1	D-DT-1862	Install 5-Pole Double Platform Mounted Transformer Structure	Each	R	2 695.31
1.2	D-DT-1863	Install 2-Pole Platform Mounted Transformer Structure	Each	R	2 432.29
1.3	D-DT-1864	Install 5-Pole Double Platform Mounted Transformer Structure (Out of Line)	Each	R	3 678.75
1.4	D-DT-1865	Install 2-Pole Platform Mounted Transformer Structure (Out of Line)	Each	R	2 432.29
1.5	D-DT-1865B	Transformer - Out- of- Line 100kVA to 200kVA	Each	R	2 432.29
1.6	D-DT-1866	Install Single Pole Mounted Out of Line Transformer Structure (Out of Line)	Each	R	2 138.86

1.7	D-DT-1866B	Transformer - Out-of-Line 16kVA to 100kVA/64kVA	Each	R	2 138.86
1.8	D-DT-3021	Relocate - 300-500kVA x 3-Phase	Each	R	8 208.93
1.9	D-DT-3021	Install Transformer - 300-500kVA x 3-Phase	Each	R	6 616.12
1.10	D-DT-3021	Relocate - 200kVA x 3-Phase	Each	R	3 987.89
1.11	D-DT-3021	Install Transformer - 200kVA x 3-Phase	Each	R	2 432.29
1.12	D-DT-3021	Relocate - 100kVA x 3-Phase	Each	R	3 987.89
1.13	D-DT-3021	Install Transformer - 100kVA x 3-Phase	Each	R	2 432.29
1.16	D-DT-3021	Relocate - 50kVA x 3-Phase	Each	R	2 463.41
1.17	D-DT-3021	Install Transformer - 50kVA x 3-Phase	Each	R	2 138.86
1.18	D-DT-3021	Relocate - 25kVA x 3-Phase	Each	R	2 463.41
1.19	D-DT-3021	Install Transformer - 25kVA x 3-Phase	Each	R	2 138.86
1.20	D-DT-3021	Relocate Transformer - 16kVA x 1-Phase	Each	R	2 463.41
1.22	D-DT-3021	Install Transformer - 16kVA x 1-Phase	Each	R	2 138.86
1.23		Install Labels (Chromadek)	Each	R	462.33
1.24	1860	Transformer - 5-100kVA Single Pole Mounted	Each	R	1 647.22
1.25	1861	TRANSFORMER - 100-200kVA / 2-POLE PLATFORM MOUNTED (H-POLE) GENERAL ARRANGEMENT	Each	R	1 709.61
1.26	D-FS 14414	TRANSFORMER - 100-200kVA / 2-POLE PLATFORM MOUNTED (H-POLE) GENERAL ARRANGEMENT	Each	R	1 709.61
1.27		Install 2.5/3.5cross arm on H-Pole with 3x Post insulators. For very long jumpers.	Each	R	256.84
2		Transformer MV Protection			
2.1	D-DT-1849	Equipment Links Cut-Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	425.63
2.2	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R	425.63
2.3	D-DT-1869	Section / Equipment Links Cut/Out Or Disconnectors 1.7m Steel Crossarm/Single Pole	Each	R	255.38
2.4	D-DT-0261	Install Surge Arresters (3-phase)	Each	R	344.71
2.5		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
3		Transformer LV Protection			
3.1	D-DT-0309	80A Morsdorf Type Fuses - 3-Phase	Set	R	188.52
3.2	D-DT-0309	125A Morsdorf Type Fuses - 3-Phase	Set	R	377.07
3.3	D-DT-0309	160A Morsdorf Type Fuses - 3-Phase	Set	R	377.07
3.4	D-DT-3034	150A MCCB - 3-Phase(Circuit breaker)	Each	R	377.07
3.5	D-DT-3034	300A MCCB - 3-Phase(Circuit breaker)	Each	R	412.95
3.6	0309	Three phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set	R	111.06
3.7	0309	Three phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set	R	111.06
3.8	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set	R	111.06
3.9	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set	R	111.06
3.10	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set	R	188.52
3.11	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 125A NH00	Set	R	377.07
3.12	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 160A NH00	Set	R	377.07
3.13	0309	Single phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set	R	111.06
3.14	0309	Single phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set	R	111.06
3.15	0309	Single phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set	R	188.52
3.16	0309	Single phase trf and LV fuse holder connection - ABC conductor- 125A NH00	Set	R	377.07
3.17	0309	Single phase trf and LV fuse holder connection - ABC conductor- 160A NH00	Set	R	377.07
3.18		Install Data Concentrator (Complete)	Each	R	120.00
3.19		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek) To maximum of 3 LV feeders	Each	R	462.33
3.18		Gateway/Data Concentrators (DCU) + Internal/Plug-in GSM Modem	Each	R	120.00
3.19		Gateway/Data Concentrators (DCU) + External GSM Modem	Each	R	120.00
3.20	D-DT-1034	Kiosk meter: 1ph; RAT/DC; secure; pole mount	Each	R	120.00
4		Pole Mounted Sectionalizer			
4.1	D-DT-1821	Install Sectionalizer Structure	Each	R	955.69
4.2	D-DT-1828	Install Sectionalizer - Out-Of-Line Structure	Each	R	1 433.53
4.3	D-DT-1821	Install Sectionalizer	Each	R	1 433.53
4.4	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	255.38
4.5	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R	425.63
4.6	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R	766.13
4.7	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R	766.13
4.8	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R	510.75
4.9	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R	510.75
4.10	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R	766.13
4.11	D-DT-0261	Install Surge Arresters	Each	R	344.71
4.12		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
5		Pole Mounted Recloser			
5.1	D-DT-1825	Install Recloser Structure	Each	R	1 464.76
5.2	D-DT-1829	Install Recloser - Out-Of-Line Structure	Each	R	1 674.00
5.3	D-FS-15735	Install Recloser Structure	Each	R	1 464.76
5.4	D-FS-15688	Install Recloser Structure	Each	R	1 464.76
5.5	3249	Install Recloser Aux Supply Box	Each	R	260.00
5.6	D-DT-0272	Install Recloser On Existing Structure	Each	R	1 674.00
5.7	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	255.38
5.8	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R	425.63
5.9	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R	766.13

5.10	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R	766.13
5.11	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R	510.75
5.12	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R	510.75
5.13	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R	766.13
5.14	D-DT-0270	Install Auxiliary Transformer	Each	R	2 138.86
5.15	D-DT-0261	Install Surge Arresters	Each	R	344.71
5.16		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
5.17	D-DT-1829B	Recloser structure – General arrangement (INCLUDING PMRTV) (sheet 1 of 2) (Bypass structure not included)	Each	R	1 950.04
6		Voltage Regulator			
6.1	D-DT-1830	Install Voltage Regulator - 11/22kV 100/200A Open Delta Structure	Each	R	1 989.75
6.2	D-DT-1831	Install Voltage Regulator - 11/22kV 100/200A Closed Delta Structure	Each	R	1 989.75
6.3	D-DT-1833	Install Voltage Regulator - 11/22kV 100/200A Open Delta - Out-Of-Line Structure	Each	R	2 274.00
6.4	1833B	Regulator - 100 / 200A Open Delta – General Arrangement (sheet 1 of 3)	Each	R	2 648.98
6.5	D-DT-1834	Install Voltage Regulator - 11/22kV 100/200A Closed Delta - Out-Of-Line Structure	Each	R	2 274.00
6.6	1834B	Regulator - 100 / 200A Closed Delta - General Arrangement (Sheet 1 of 2)	Each	R	2 648.98
6.7	D-DT-3119	Install Voltage Regulator On Existing Structure	Each	R	2 648.98
6.8	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	255.38
6.9	D-DT-1851	Equipment Links - Cut-Outs Or Disconnectors - 2.5m Wood Crossarm / H-Pole	Each	R	255.38
6.10	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R	425.63
6.11	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R	425.63
6.12	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R	510.75
6.13	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R	510.75
6.14	D-DT-1874	Equipment Links Or Disconnectors 2.4m Steel Crossarm / H-Pole	Each	R	766.13
6.15	D-DT-0261	Install Surge Arresters	Each	R	344.71
6.16		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
7		Pole Mounted CT-VT Unit			
7.1	D-DT-1839	Install MV CT / VT Metering Bulk Tariff Out-Of-Line Structure	Each	R	1 674.00
7.2	D-DT-1840	Install MV CT / VT Metering Bulk Tariff In Line Structure	Each	R	1 674.00
7.3	D-DT-1841	Install CT/VT Metering Statistical Structure	Each	R	1 989.75
7.4	D-DT-1846	Install CT/VT Metering Statistical Out-Of-Line Structure	Each	R	1 989.75
7.5	D-DT-3118	Install CT/VT unit	Each	R	2 274.00
7.6	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	255.38
7.7	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R	194.04
7.8	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R	425.63
7.9	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R	766.13
7.10	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R	425.63
7.11	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R	510.75
7.12	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R	510.75
7.13	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R	766.13
7.14	D-DT-3236	Install CT/VT Metering Kiosk	Each	R	144.82
7.15	D-DT-0261	Install Surge Arresters	Each	R	344.71
7.16		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
8		Pole Mounted Shunt Capacitor Banks			
8.1	D-DT-1832	Install Capacitor Structure	Each	R	2 274.00
8.2	D-DT-3218	Install Capacitor Bank	Each	R	2 274.00
8.3	D-DT-1849	Equipment Links Cut-Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	425.63
8.4	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R	425.63
8.5	D-DT-0261	Install Surge Arresters	Each	R	344.71
8.6		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
9		Line Arrester			
9.1		Install Equipment Links	Each	R	572.50
9.2	D-DT-1842	Line Arresters 1.3m Long Steel Crossarm Staggered Vertical Configuration	Each	R	344.71
9.3	D-DT-1843	Line Arresters 2.5m Long Wooden Crossarm Vertical Configuration	Each	R	344.71
9.4	D-DT-1844	Line Arresters H-Pole Configuration	Each	R	398.72
9.5	D-DT-1845	Line Arresters Delta Configuration	Each	R	344.71
9.6		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)	Each	R	462.33
10		3 Phase Sectional Links			
10.1	D-DT-1847	Section Links Cut/Outs Or Disconnectors 3.5/4.5m Wood Crossarm / H-Pole	Each	R	425.63
10.2	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R	255.38
10.3	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole		R	255.38
10.4	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R	510.75
10.5	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R	510.75
10.6	D-DT-1869	Section / Equipment Links Cut/Out Or Disconnectors 1.7m Steel Crossarm/Single Pole	Each	R	255.38

10.7	D DT 3086	CUT - OUT (Single Phase)		Each	R	125.00
10.8		Supply and Install all Labels per structure, excludes pole aluminium label (Chromadek)		Each	R	462.33
11		Bird Flight Diverter				
11.1	D-DT-3029	Install Bird Flight Diverter		Each	R	7.00
12		Miniature Substation				
12.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth		m ²	R	347.56
12.2	D-DT-0859	Install Pre-Cast Plinth		Each	R	4 672.47
12.3	D-DT-0859	Install Miniature Substation		Each	R	2 005.76
12.4	D-DT-3034	MCCB - 3-Phase		Each	R	412.95
12.5		Vermis Proofing		Each	R	463.67
12.6		Stencilling (paint)		Each	R	17.70
12.7		Install Labels (Chromadek and Aluminium)		SET	R	462.33
12.8	D-DT-3409	Install Vertical Fuse Pillar		Each	R	225.00
12.9	D-DT-3181	Install NH02 Fuse		Each	R	225.00
13		Ring Main Unit				
13.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth		m ²	R	347.56
13.2	D-DT-0863	Install Pre-Cast Plinth		Each	R	2 359.72
13.3	D-DT-8060	Install Ring Main Unit		Each	R	1 415.83
13.4		Vermis Proofing		Each	R	463.67
13.5		Stencilling (paint)		p/letter	R	17.70
13.6		Install Labels (Chromadek)		Each	R	462.33
14		Ground Mounted CT-VT Unit				
14.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth		m ²	R	347.56
14.2	D-DT-0865	Install Pre-Cast Plinth		Each	R	2 359.72
14.3	D-DT-0865	Install CT-VT Unit		Each	R	1 002.88
14.4		Vermis Proofing		Each	R	463.67
14.5		Stencilling (paint)		p/letter	R	17.70
14.6		Install Labels (Chromadek)		Each	R	462.33
15		Meter Kiosk				
15.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth		m ²	R	347.56
15.2	D-DT-0865	Install Pre-Cast Plinth		Each	R	2 772.67
15.3	D-DT-0865	Install LPU Meter Kiosk		Each	R	144.82
15.4	D-DT-3236	4 Way High Risk Steel Kiosk		Each	R	711.33
15.5	D-DT-3236	6 Way High Risk Steel Kiosk		Each	R	711.33
15.6	D-DT-3236	8 Way High Risk Steel Kiosk		Each	R	711.33
15.7	D-DT-3236	12 Way High Risk Steel Kiosk		Each	R	711.33
15.8	D-DT-3236 / 1034	Data concentrator/RAT kiosk		Each	R	260.00
15.9		Energy Management Units (Meter)		Each	R	405.16
15.10		Vermis Proofing		Each	R	463.67
15.11		Stencilling (paint)		p/letter	R	17.70
15.12		Supply and Install all Labels per kiosk, excludes cable aluminium label (Chromadek)		Each	R	462.33
15.13	D-DT-1035	Kiosk meter: 1ph; 16 kVA; 2 way prepay; ground mount		Each	R	175.07
15.14	D-DT-1036	Kiosk meter: 1ph; 16 kVA; 4 way prepay; ground mount		Each	R	175.07
15.15	D-DT-1037	Kiosk meter: 1ph; 16 kVA; 6 way prepay; ground mount		Each	R	175.07
15.16	D-DT-1038	Kiosk meter: 1ph; 16 kVA; 8 way prepay; ground mount		Each	R	175.07
15.17	D-DT-1039	Kiosk meter: 1ph; 16 kVA; 12 way prepay; ground mount		Each	R	175.07
15.18	D-DT-1039	KSK MTR:1PH;16 KVA;12 WAY PREPAY NO BASE		Each	R	175.07
SUB-TOTAL K						
L	EARTHING INSTALLATION					
MV & LV Earthing Trenching shall include Excavation, Backfilling, Compaction and Installation of electrode and conductor as per the Eskom Standard for Earthing						
1	Transformer - MV Earthing					
1.1		Excavation - length long, 0.5m deep and 0.6m wide		m ³	R	147.48
1.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor		m	R	11.80
1.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor		m	R	11.80
1.4	D-DT-3091	Earth Electrode (Type as per the design)		Each	R	247.77
1.5		Backfill - length long, 0.5m deep and 0.6m wide		m ³	R	120.35
2	Transformer - LV Earthing					
2.1		Excavation - length long, 0.5m deep and 0.6m wide		m ³	R	147.48
2.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor		m	R	11.80
2.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor		m	R	11.80
2.4	D-DT-3091	Earth Electrode (Type as per the design)		Each	R	247.77
2.5		Backfill - length long, 0.5m deep and 0.6m wide		m ³	R	120.35
3	Other Overhead System Equipment Earthing - Capacitor Bank / CT-VT Unit / Line Arrester / Recloser / Sectionaliser / Voltage Regulator					
3.1		Excavation - length long, 0.5m deep and 0.6m wide		m ³	R	147.48
3.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor		m	R	11.80
3.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor		m	R	11.80
3.4	D-DT-3091	Earth Electrode (Type as per the design)		Each	R	247.77
3.5		Backfill - length long, 0.5m deep and 0.6m wide		m ³	R	120.35
4	Other Underground System Equipment Earthing - Miniature Substation / Ring Main Unit / CT-VT Unit					
4.1		Excavation - length long, 0.5m deep and 0.6m wide		m ³	R	147.48
4.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor		m	R	11.80
4.3	D-DT-3091	Earth Electrode (Type as per the design)		Each	R	247.77
4.4		Backfill - length long, 0.5m deep and 0.6m wide		m ³	R	120.35
SUB-TOTAL - L						
M	SERVICE CONNECTION INSTALLATION					
House Connections include installation of ready board, mounting hardware, wooden backboards, customer interface units, conduit pipe, excavations and backfilling of underground connection, capturing of customer data including GPS coordinates. Digging and bulleting for road crossing including installation of sleeves and warning tape are measured here						
1.1	D-DT-0360/361	Overhead service connection direct to dwelling or kicker pole(from the pole top box to the pre-paid meter)		Each	R	72.03
1.2	D-DT-0367	Underground Service Connection		Each	R	490.80
1.3		25mm Conduit LDPE Pipe		m	R	147.48
1.4	D-DT-0854	Excavation - 0.75m Deep and 0.45 Wide		m ³	R	147.48
1.5		Road Crossing - Digging		m	R	926.19
1.6		Road Crossing - Bulleting		Each	R	421.59

1.7	D-DT-8018	Install Sleeves	m	R	4.72
1.8	D-DT-0854	Laying of Warning Tape	m	R	2.75
1.9	D-DT-0854	Backfill - 0.75m Deep and 0.45 Wide (includes laying of warning tape)	m ³	R	120.35
2		Split / Smart Metering			
2.1	D-DT-3145	Customer Interface Unit	Each	R	35.00
2.2	D-DT-3176	Split Meter Ready-Board	Each	R	176.98
2.3	D-ST-2351	Wooden Backboard for Ready board mounting (for Tin and Mud houses)	Each	R	147.48
2.4		Split Meter Installation	Each	R	325.00
2.5		Smart meter installation (incl of all components)	each	R	325.00
2.6		Capture and Upload of Customer Data New & Existing Including GPS Coordinates	Each	R	9.72
2.7	D-DT-9421	DIN Rail Single Phase PLC Smart Split Meter with CIU 60A	Each	R	73.84
2.8	D-DT-9421	DIN Rail Single Phase PLC Smart Split Meter with CIU 20A	each	R	73.84
2.9		L&G smart split meter + CIU, single phase, din rail, 20A, PLC	each	R	325.00
2.10		L&G smart split meter + CIU, single phase, din rail, 60A, PLC	each	R	325.00
2.11		L&G data concentrator + internal GSM modem	each	R	120.00
2.12		3CR12 kiosk to secure the data concentrator, kiosk for mounting on pole	each	R	204.82
SUB-TOTAL M					
N		Service Conductor Installation: Accessories for Service Conductor installation shall include installation of pigtails, bolts, strain clamps, threaded rod, cable saddles, stringing of all types of service cable. Installation of poles and its accessories are measured elsewhere			
1	D-DT-3140	6mm sq Tinned Copper Airdac with Communication Core	m	R	2.14
2	D-DT-3128	16mm sq Underground	m	R	6.44
3	0366	Service suspension assembly	Each	R	24.46
4	0384	Service strain assembly/arrangement	Each	R	48.93
SUB-TOTAL N					
O		Underground Cable Installation: Installation of underground cable include trenching for excavation in general trench, rail/road crossing or along the road, directional drilling & excavation for end pits, backfilling of trench, supply of accessories includes appropriate sleeves, supply & compaction of imported bedding and blanket soil, laying of warning tape and installation of cable route markers. Laying of cable shall be in accordance with Eskom standard of laying cables. After the execution of the works, reinstatement on gardens, pavements, driveways and tarred surfaces shall be measured here			
1		Trenching			
1.1	D-DT-0854	Excavation - General Trench - 1.0m Deep and 0.45m Wide	m ³	R	147.48
1.2	D-DT-0854	Excavation - Rail/Road Crossing Trench - 1.6m Deep and 0.45m Wide	m ³	R	147.48
1.3	D-DT-0854	Excavation - Along The Road Trench - 1.3m Deep and 0.45m Wide	m ³	R	147.48
1.4		Install Barricading	m	R	41.30
1.5		Install Shoring	m	R	225.00
1.6	D-DT-0854	Compact Blanket Soil	m ²	R	120.35
1.7	D-DT-0854	Sifted Soil - 0.25m High and 0.45m Wide	m ³	R	120.35
1.8		Dispose of unused Excavated Material at approved disposal site	m ³	R	245.00
1.9	D-DT-0854	Imported Soil - 0.25m High and 0.45m Wide	m ³	R	383.45
2		Road & Rail Crossing			
2.1		Directional Drilling (Supply Invoice + 5%)	m		cost plus 5%
2.2		Excavate Start and End Pits	m ³	R	147.48
2.3		Supply and Install appropriate sleeve	Each	R	321.59
2.4		Rail, river and Road -pipe jacking method including access holes, shoring as well as handling of equipment-(outsourced) Supply Invoice + 5%	m		cost plus 5%
3		Road crossing trench import of backfill material and compaction			
3.1	D-DT0854	Application of tar according to municipal standard - Supply Invoice + 5%	sum		cost plus 5%
3.2		Bedding soil for cable	m	R	13.21
3.3		Blanket soil for cable	m ³	R	13.21
3.4		G5 filling for cable	m ³	R	17.62
4		Compacting Bedding Soil			
4.1	D-DT-0854	Sifted Soil - 0.15m High and 0.45m Wide	m ²	R	120.35
4.2	D-DT-0854	Imported Soil - 0.15m High and 0.45m Wide	m ²	R	348.06
5		Laying of Cable			
5.1	D-DT-0854	Laying of 3-Core 50mm sq. MV Cable	m	R	17.70
5.2	D-DT-0854	Laying of 3-Core 95mm sq. MV Cable	m	R	40.00
5.3	D-DT-0854	Laying of 3-Core 185mm sq. MV Cable	m	R	65.00
5.4	D-DT-0854	Laying of 3-Core 300mm sq. MV Cable	m	R	120.00
5.5	D-DT-0854	Laying of 4-Core 16mm sq. LV Cable	m	R	17.70
5.6	D-DT-0854	8 way High Risk Steel Kiosk	m	R	17.70
5.7	D-DT-0854	Laying of 4-Core 35mm sq. LV Cable	m	R	17.70
5.8	D-DT-0854	Laying of 4-Core 50mm sq. LV Cable	m	R	17.70
5.9	D-DT-0854	Laying of 4-Core 70mm sq. LV Cable	m	R	35.00
5.10	D-DT-0854	Laying of 4-Core 120mm sq. LV Cable	m	R	58.00
5.11	D-DT-0854	Laying of 4-Core 185mm sq. LV Cable	m	R	65.00
5.12	D-DT-0854	Laying of 4-Core 240mm sq. LV Cable	m	R	120.00
6		Compacting Blanket Soil			
6.1	D-DT-0854	Sifted Soil - 0.25m High and 0.45m Wide	m ²	R	120.35
6.2	D-DT-0854	Imported Soil - 0.25m High and 0.45m Wide	m ²	R	348.06
7		Backfilling of the Cable Trench			
7.1	D-DT-0854	General Trench - 0.6m High and 0.45m Wide	m ³	R	120.35
7.2	D-DT-0854	Rail/Road Crossing Trench - 1.2m High and 0.45m Wide	m ³	R	120.35
7.3	D-DT-0854	Along The Road Trench - 0.9m High and 0.45m Wide	m ³	R	120.35
7.4	D-DT-0854	Laying of Warning Tape	m	R	2.75
7.5	D-DT-8012	Installation of Cable Route Markers	Each	R	141.58
7.6		Re-instatement of Gardens	m ²	R	225.49
7.7		Re-instatement of Pavements	m ²	R	271.43
7.8		Re-instatement of Driveways	m ²	R	1 728.49
7.9		Re-instatement of Tarred surfaces	m ²	R	772.81
SUB-TOTAL O					
P		MV/LV CABLE TERMINATION			
Termination of cable shall be done in accordance with Eskom standard of terminating cables for the termination onto air-filled cable, termination onto overhead line cable in their deferent classifications. Termination material are free issue, unless otherwise ordered and/or specified by the Project Manger to supply all accessories on an as and when required basis as cost plus fee.					
1		LV Cable Termination onto Air-Filled Cable Termination Enclosure			

1.1		Install 2-Core 16mm sq. LV Bare Termination	Each	R	1 250.65
1.2		Install 4-Core 16mm sq. LV Bare Termination	Each	R	1 250.65
1.3		Install 4-Core 25mm sq. LV Bare Termination	Each	R	1 250.65
1.4		Install 4-Core 35mm sq. LV Bare Termination	Each	R	1 250.65
1.5		Install 4-Core 50mm sq. LV Bare Termination	Each	R	1 250.65
1.6		Install 4-Core 70mm sq. LV Bare Termination	Each	R	1 250.65
1.7		Install 4-Core 120mm sq. LV Bare Termination	Each	R	1 250.65
1.8		Install 4-Core 185mm sq. LV Bare Termination	Each	R	1 250.65
1.9		Install 4-Core 240mm sq. LV Bare Termination	Each	R	1 250.65
1.10		Install 3-Core 50mm sq. Shrouded Termination	Each	R	1 250.65
2		MV Cable Termination onto Air-Filled Cable Termination Enclosure			
2.1	D-DT-8011	Install 3-Core 50mm sq. Shrouded Termination	Each	R	1 250.65
2.2	D-DT-8006	Install 3-Core 50mm sq. Unscreened Separable Connector Termination	Each	R	1 592.81
2.3	D-DT-8006	Install 3-Core 50mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R	1 592.81
2.4	D-DT-8006	Install 3-Core 50mm sq. Screened Separable Connector Termination	Each	R	1 592.81
2.5	D-DT-8011	Install 3-Core 95mm sq. Shrouded Termination	Each	R	1 250.65
2.6	D-DT-8006	Install 3-Core 95mm sq. Unscreened Separable Connector Termination	Each	R	1 592.81
2.7	D-DT-8006	Install 3-Core 95mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R	1 592.81
2.8	D-DT-8006	Install 3-Core 95mm sq. Screened Separable Connector Termination	Each	R	1 592.81
2.9	D-DT-8011	Install 3-Core 185mm sq. Shrouded Termination	Each	R	1 250.65
2.10	D-DT-8006	Install 3-Core 185mm sq. Unscreened Separable Connector Termination	Each	R	1 592.81
2.11	D-DT-8006	Install 3-Core 185mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R	1 592.81
2.12	D-DT-8006	Install 3-Core 185mm sq. Screened Separable Connector Termination	Each	R	1 740.29
2.13	D-DT-8011	Install 3-Core 300mm sq. Shrouded Termination	Each	R	1 250.65
2.14	D-DT-8006	Install 3-Core 300mm sq. Unscreened Separable Connector Termination	Each	R	1 592.81
2.15	D-DT-8006	Install 3-Core 300mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R	1 592.81
2.16	D-DT-8006	Install 3-Core 300mm sq. Screened Separable Connector Termination	Each	R	1 740.29
3		MV Cable Termination onto Overhead Line from Substation			
3.1	D-DT-0850	Install 50mm sq O/D Termination	Each	R	892.92
3.2	D-DT-0851	Install 50mm sq O/D Termination	Each	R	892.92
3.3	D-DT-0850	Install 95mm sq O/D Termination	Each	R	892.92
3.4	D-DT-0851	Install 95mm sq O/D Termination	Each	R	892.92
3.5	D-DT-0850	Install 185mm sq O/D Termination	Each	R	892.92
3.6	D-DT-0851	Install 185mm sq O/D Termination	Each	R	892.92
3.7	D-DT-0850	Install 300mm sq O/D Termination	Each	R	892.92
3.8	D-DT-0851	Install 300mm sq O/D Termination	Each	R	892.92
3.9	D-DT-1850	Install Equipment Links - 3-Phase	Each	R	892.92
3.10	D-DT-0261	Install Surge Arresters - 3-Phase	Each	R	344.71
3.11	D-DT-8023	Install a Steel Pipe	Each	R	294.96
SUB-TOTAL P					
Q		CABLE JOINT			
Cable joint bay shall be executed in accordance with Eskom standard of jointing cables in their different classifications. Joint bay materials including kits are free issue, unless otherwise ordered and/or specified by the Project Manager to supply all accessories on an as and when required basis and paid as cost plus fee. Excavations, compaction and backfilling of cable joints bay shall be measured here including supply of imported soil in bedding and blankets or sifted soil where specified.					
1.1	D-DT-0854	Excavate a Joint Bay	m ³	R	147.48
1.2	D-DT-0854	Compact Bedding Soil	m ²	R	120.35
1.3	D-DT-0854	Sifted Soil - 0.15m High and 0.45m Wide	m ³	R	120.35
1.4		Dispose of Excavated Material at approved disposal site	m ³	R	245.00
1.5	D-DT-0854	Imported Soil -0.15m High and 0.45m Wide	m ³	R	348.06
1.6	D-DT-8008	Make-Off a Cable Joint - 3-Core 16mm sq MV Cable	Each	R	92.20
1.7	D-DT-8008	Make-Off a Cable Joint - 3-Core 50mm sq MV Cable	Each	R	92.20
1.8	D-DT-8008	Make-Off a Cable Joint - 3-Core 95mm sq MV Cable	Each	R	92.20
1.9	D-DT-8008	Make-Off a Cable Joint - 3-Core 185mm sq MV Cable	Each	R	92.20
1.10	D-DT-8008	Make-Off a Cable Joint - 3-Core 300mm sq MV Cable	Each	R	92.20
1.10	D-DT-8014	Make-Off a Cable Joint - 4-Core 16mm sq LV Cable	Each	R	92.20
1.10	D-DT-8014	Make-Off a Cable Joint - 4-Core 25mm sq LV Cable	Each	R	92.20
1.11	D-DT-8014	Make-Off a Cable Joint - 4-Core 35mm sq LV Cable	Each	R	92.20
1.12	D-DT-8014	Make-Off a Cable Joint - 4-Core 50mm sq LV Cable	Each	R	92.20
1.13	D-DT-8014	Make-Off a Cable Joint - 4-Core 70mm sq LV Cable	Each	R	92.20
1.13	D-DT-8014	Make-Off a Cable Joint - 4-Core 120mm sq LV Cable	Each	R	92.20
1.18	D-DT-8014	Make-Off a Cable Joint - 4-Core 185mm sq LV Cable	Each	R	92.20
1.19	D-DT-8014	Make-Off a Cable Joint - 4-Core 240mm sq LV Cable	Each	R	92.20
1.20	D-DT-0854	Backfill a Joint Bay	m ³	R	120.35
1.21	D-DT-8012	Install a Route Marker	Each	R	141.58
SUB-TOTAL Q					
R		EQUIPMENT DISMANTLING			
Includes Cut Up, Coiling And Loading But Excludes Transport To The Nearest Eskom Stores					
1.1		Dismantle LV Conductor	m	R	4.72
1.2		Dismantle MV Conductor	m	R	4.72
1.3		Dismantle Service Cable	m	R	3.15
1.4		Dismantle MV Overhead Transformers	Each	R	412.95
1.5		Dismantle MV Overhead Sectionalizer	Each	R	412.95
1.6		Dismantle MV Overhead Reclosers	Each	R	412.95
1.7		Dismantle MV Pole Mounted CT-VT Unit	Each	R	412.95
1.8		Dismantle MV Pole Mounted Shunt Capacitor Banks	Each	R	412.95
1.9		Dismantle MV Line Arrestor	Each	R	397.67
1.10		Dismantle MV Overhead Section / Equipment Links	Each	R	397.67
1.11		Remove LV Pole Top Boxes	Each	R	355.64
1.12		Dismantle Stays - including removal and backfill	Each	R	261.12
1.13		Dismantle Poles - including removal and backfill	Each	R	240.33
1.14		Remove MV Cable, includes excavation and backfill	m	R	177.00
1.15		Remove LV Cable, includes excavation and backfill	m	R	177.00
1.16		Remove MV Cable I/D Terminations	Each	R	365.76
1.17		Remove MV Cable O/D Terminations	Each	R	365.76
1.18		Remove RMU	Each	R	2 949.65
1.19		Remove Minisub	Each	R	2 949.65
1.20		Remove Ground Mounted CT-VT Unit	Each	R	1 749.65

1.21		Remove LV Kiosks	Each	R	123.09
1.22		Remove Plinths	Each	R	1 849.65
1.23		Transport Of Dismantled/Decommissioned To Eskom Stores	KM	R	22.06
1.28		Removal of a post / pin insulator	Each	R	24.46
1.30		Removal of SPU unit with rails	Each	R	24.46
1.31		Removal of LPU unit (indoor and outdoor)	No	R	24.46
1.33		Moving of pre-Paid Meter (Meter Shifting)	Each	R	73.39
1.39		Removal of ED / ECU	Each	R	74.86
1.41		AP4 Meter Box + Pipe	Each	R	112.28
1.42		Removal - complete of one Regulator can/voltage regulator	Each	R	131.37
1.43		Remove Label (Chromadeck)	Each	R	65.87
2		BIL & BONDING		R	-
2.1		Re-instate broken/damage bonding & BIL on existing structure	No	R	48.93
SUB-TOTAL R					
S		LABELLING			
Allow for the following end items to be applied as per relevant Eskom Instructions/Bulletins/Procedures and Standards where not already allowed for in Structure Package					
1.1		MV Pole Number	Each	R	17.70
1.2		LV Pole Number	Each	R	17.70
1.3		Meter Number	Each	R	17.70
1.4		House Number • 100 x 240mm x 0,6mm Yellow Chromadec plate with two pre-drilled 6mm holes (rust-free metal). • Fixed with two 6mm x 75mm nylon anchor or 6mm Zink bolt and 2x nuts. • All corners rounded. Clear powder coat finish. • Cast vinyl with 75mm Helvetica Compact script.	Each	R	17.70
SUB-TOTAL S					
T		EQUIPMENT TESTING			
Allowance shall be made for the complete testing and commissioning of Medium Voltage equipment. Tests to include earth electrode resistance measurement. Transformer to include a LV earth electrode resistance measurement. Soil Resistivity Tests for Equipment to be performed as appropriate and to be verified by Eskom's Clerk of Works, and must be according to Eskom Standard					
1.1		Perform Phasing Test (not required if COC option is selected)	Each	R	95.42
1.2		Continuity Tests (not required if COC option is selected)	Each	R	95.42
1.3		Earth Resistance Test (MV or LV Earth electrode test)	Each	R	95.42
1.4		A.C. Over-Voltage Test	Each	R	95.42
1.5		D.C. Insulation Test	Each	R	95.42
1.6		Outer Sheath Test (Serving Test)	Each	R	95.42
1.7		Compaction Test	Each	R	95.42
1.8		C.O.C Test for Certificate (20A and 60A prepaid connections)	No	R	250.00
1.9		Voltage Regulator commissioning test	No	R	95.42
1.10		Recloser commissioning test	No	R	95.42
SUB-TOTAL T					
U		AS - BUILTS			
Allow for the following end items to be applied as per relevant Eskom Instructions/Bulletins/Procedures and Standards where not already allowed for in Structure Package					
1		As-built Drawings	Each	R	3 500.00
SUB-TOTAL U					
V		MISCELLANEOUS			
Allow for the following end items to be applied as per relevant Eskom instructions/bulletins/procedures and standards where not already allowed for in structure package. Note the cross arms below are applicable for existing structures only.					
1.1	3175	Damper,vibrat spiral 8.29-11.71 D3175	Each	R	24.46
1.2	3175	Damper,vibrat spiral 11.72-14.30 D3175	Each	R	24.46
1.3	7028	Set: Device warning-Aircraft warning 8.87-13.55;2	SET	R	54.31
1.4	7028	Set: Device warning -Aircraft warning 7.35-14.16;2	SET	R	54.31
1.5	7028	Set: Device warning-Aircraft warning 18.13-23.88;2	SET	R	54.31
	3029/3053	BIRD FLIGHT DIVERTERS	Each	R	34.84
	3303	Raptor protector	Each	R	34.84
SUB-TOTAL V					



ELECTRIFICATION BoQ including Rates DISTRIBUTION			
INFILLS ITEMS Current Date: 25-November-21			
Eskom			
ITEM Y	INFILLS		
No	DESCRIPTION	UNIT	RATE
P&G's			
1.1	Provision of 10% Allowance for all P&G's Expenses (<i>Excluding Transport, Running Costs</i>)	lump sum	P&G's at 10% of TO value
SUB-TOTAL 1			
DIRECT & INDIRECT CONNECTIONS	House Connections (Type 1 & 2). Accessories include House Labels, Pigtail Bolts, Strain clamps, Cable Saddles, Ready Board Mounting Hardware, Threaded Rods. Meters, Customer Interface Units, Ready Boards, Service Cable, Poles and Excavations are all inclusive. All Free Issue Material will be issued. Capturing and Handing over of Customer Data and updated PCS file is included.		
2.1	Type 1 connection can involve service cable and / or a meter. The main infrastructure must be on the boundary of the property applying for point of supply.	e.a.	R 971.82
2.3	Type 2 Only LV Infrastructure required connections can only involve extension of the main LV Overhead Line, Cable or Bundle Conductor in order to supply the Customer. (connecting this customer must not require the increase of a Transformer Capacity-Pole Mounted or Mini Sub). Service Cable and Meter included.	e.a.	R 1 700.41
SUB-TOTAL 2			
TRANSPORT	Transport of resources to and from site will be done in terms of OHS Act (T). The cost to the Contractor to provide safe transport for his employees should be in terms of the Construction Regulations Clause 21 (2) (a) and (i) & adhere to Eskom Life Saving rules. Tracker records to be provided as proof of km's travelled.		
3.1	LDV 2X4	km	R 5.72
3.2	LDV 4X4	km	R 5.72
3.3	2-4 Ton Truck	km	R 8.63
3.4	8 Ton Truck	km	R 11.96
3.5	8 Ton Truck (with Crane)	km	R 16.93
TOTAL - Y			

ELECTRIFICATION BoQ including Rates DISTRIBUTION					
AD HOC MATERIAL ITEMS Current Date: 25-November-21					
Eskom					
ITEM: Z	Adhoc material	SCOPE			
	DESCRIPTION	%	Price before VAT	Cost +	Total
This schedule is used to assist with all the adhoc material that is purchased on the request of the PM/PC. A 5% handling fee will be compensated to the contractor for the amount before VAT					
1.1	Material bought	5%	R0.00	R 0.00	R 0.00
TOTAL - Z					R 0.00

PART 3: FRAMEWORK INFORMATION

Document reference	Title	No of pages
C3.1	This cover page	[01]
	<i>Work Package</i>	[04]
	Total number of pages	[05]

C3.1: WORK PACKAGE

Contents

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1 Description of <i>works</i>	48
2 Selection and Quotation Procedure.....	48

1 Description of the works

1.1 Executive overview

The purpose of this contract is to facilitate the construction of all Electrification of Household Connection for the Asset Creation Section of Distribution within the Eastern Cape Operating Unit within South Africa.

This contract will facilitate ease of appointment of contractors who prequalify according to the Conditions of Tender as advertised. Work will be allocated on a fair basis to each contractor depending on the Panel they are appointed on, their CIDB Grading and financial evaluations as carried out by Eskom for projects with a value equal to or exceeding Three Million Rand.

All work shall be carried out to the specified requirements, standards and quality as set out by Eskom while observing and complying with all safety and environmental requirements at the agreed rates.

The Contractor is appointed on this contract on a Rate Only basis. Eskom will provide confirmation of the total value of work completed in terms of this contract once the period of the contract has reached its agreed end date, or upon request of the contractor for the total value of project completed to date at the time of request.

1.2 Employer's objectives and purpose of the works

The provision of electrical infrastructure including compilation of all information to successfully upload the PCS files as required for reporting of energized connections.

The Establishment of the site for:

- The erection of the installation, as per the approved design (Final Design Package).
- The testing and commissioning of the entire installation.
- The provision of acceptable marked up signed, stamped and dated "as-built" drawings sag and tension charts, compliance and hand over procedure.
- Making good of house walls where ready boards or passive bases have been installed.
- The handing over of the installation in a working order with all the necessary administration.
- The contractor will fix marketing labels, provided by Eskom Holdings SOC Limited, as per the labelling standard.
- Completing of PCS file for uploading of connections to be done immediately after energization and registering of all connected customers on the Eskom Holdings SOC
- Limited customer management system within 7 days after energization under dead or live conditions.
- Sealing of all installed customer meters.
- The completion of all the necessary administration work in providing the works. (SACS, Planning, Survey, Project Engineering).

Abridged certificate of compliance or installation of certificate to be completed by a competent resource and to be submitted within 7 days after energization

2 Selection and Quotation Procedure

The Eskom Project Manager will contact the allocated Contractor and issue the Contractor with the Work Package for the project to be executed. A Project Specific NEC ECC will be issued as well, which will detail all the project specific requirements for execution of the project. The NEC ECC issued will form the basis of the agreement between Eskom and the Contractor for each project to be executed in terms of this contract.

The terms and conditions contained in the NEC ECC will be in accordance with the terms and conditions of this contract but specific to the requirements of the project to be executed.

The allocated Contractor will do a site visit at his own cost (This is not applicable for Type 1 Infills) with the Eskom project representatives and verify the scope of work to be executed contained in the Work Package, assess the Site conditions, the Project Specific SHEQ requirements and SD&L requirements before the quotation for the works is finalised. The Project Manager will then request a quotation from the Contractor for the execution of the works as verified. The Contractor must submit quotation to the Project Manager within (7) seven calendar days. The Project Manager will request the Quantity Surveyor to verify the quotation for correctness and confirm the cost according to the agreed negotiated rates.

Should the quotation require adjustment, the Project Manager will request the allocated Contractor to amend the quotation. Once Eskom has accepted the quotation, the Project Manager will issue the allocated Contractor with a Package Order and NEC ECC for the project. The Project Manager and Contractor will then sign off the Package Order and NEC ECC, then work may then commence on the project.

No work may commence on a project unless the Package Order and NEC ECC for the project has been signed, the Contractor Safety File has been approved by Eskom, the 37(2) agreement has been signed and Site Access has been granted to the allocated Contractor. Eskom will not be liable to pay for any work unless a valid NEC ECC has been issued and signed.

After the Package Order and NEC ECC has been signed, the Contractor is to submit the Project Specific Safety File within (7) seven calendar days upon being requested to do so by the Project Manager for approval by Eskom. The Safety File is to conform to all Eskom and OHS requirements. Should there be a need to rectify the safety file an additional opportunity will be granted to conform to the recommendations made by the Eskom SHE representative, and must be resubmitted within seven days for approval. Should the Project Specific Safety File fail upon resubmission the works will be allocated to another Contractor.

The Contractor will compile a Risk Register as per the terms and conditions of the ECC for discussion at regular Risk Reduction Meetings or as per agreement with the Project Manager.

It is expected from the Contractor to do the whole of the work as per timeframe set in the NEC ECC and agreed Program of the Works.

The Contractor will be responsible for the collection and transporting of all necessary material from any and/or all Eskom warehouses and delivery of the material to site as well as return any material to Eskom stores from the site upon instruction from the Project Manager. Payments will be made based on the distance from the site to the relevant Eskom store and back to site.

Minimum recommended working hours to be observed site are from 07h30 to 16h00 and these hours constitute normal working hours in terms of this contract.

The contractor is to ensure that all required documentation prescribed by Law is kept on file at the site office. All OHS and Construction Regulation requirements are to be adhered to by the contractor.

The Contractor will also ensure that all plant, equipment and resources dedicated to the project will not be removed from site until there is no use for the intended plant and equipment. No moving of equipment and resources between projects will be allowed without *Project Manager* approval as it will have impact on completion of the project and lead to delays in completion.

The Contractor is to ensure that all Site Managers are competent, and trained in the use of the ECC and are fully conversant and familiar with the usage and procedures thereof. Adherence to the terms and conditions of the ECC are essential and a requirement of all Contractor Site Managers dedicated to each project as per the Construction Regulations.

Payment Assessments will only be done for work done to date. No material on site will be paid for. Records of defined costs are to be kept on file on site whereby the *Project Manager* has access to this file at all times.

All excavation activities shall be inclusive of excavation or drilling or blasting, backfilling, compacting and disposal of surplus excavated materials including boulders to a registered dumping site and the Contractor shall retain records of disposal.

PART 4: SITE INFORMATION

Document reference	Title	No of pages
C4	This cover page	1
	Site Information	1
Total number of pages		2

PART 4: SITE INFORMATION

Core clause 11.2(16) states

“Site Information is information which

- describes the Site and its surroundings and
- is in the documents which the Contract Data states it is in.”

In Contract Data, reference has been made to this Part 4 of the contract for the location of Site Information.

Delete this note and others given in boxes like this one at final draft stage.

The compiler of this document should first consult the ECC3 2013 Guidance Notes page 24. Further notes are given under each heading below.

Site Information is information about the Site at the time of tender upon which the tendering contractor bases his prices. It is fixed and does not include anything about what happens on the Site after award; that is Works Information.

Site Information does not include weather data; that is included in the Contract Data.

If the *Contractor* subsequently encounters conditions which are different to those described here, he may be entitled to notify a compensation event.

1. General description

Provide a general description of the Site and its location. Reference would probably be made to a drawing showing the Site and its surroundings and the *boundaries of the site* as required by the Contract Data. It is particularly important that details of surrounding buildings be provided where crane operation is likely to be affected, or the *works* involve deep foundations adjacent to existing buildings.

2. Existing buildings, structures, and plant & machinery on the Site

Some of the existing infrastructure is indicated on substation layout drawings provided. Though it is the *Contractor's* responsibility, to familiarise himself with all existing infrastructure in and around the working place.

3. Subsoil information

All excavations and associated soil information are described under the Works information and Bill of Quantities. No geotechnical study or report provided.

4. Hidden services

In the event of a discrepancy between physical condition and the information on a drawing, the *Contractor* shall notify the *Project Manager* immediately if the physical condition found on *site* is such that the deviation from the drawing requires a change in the design of the *works*.