



NEC3 Engineering & Construction Contract

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

and

(Reg No. _____)

for **Panel Contract for the Maintenance & Repairs of MV & LV Lines (Overhead aerial bundled conductor, bare conductor lines and underground cable reticulation) in Cape Coastal Cluster – Eastern Cape on an as and when required basis.**

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CONTRACT No.

Part C1: Agreements & Contract Data

Contents:	No of pages
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[to be inserted from Returnable Documents at award stage]	

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:

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in 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.

Options B	The offered total of the Prices exclusive of VAT is	Rate based Contract
	Value Added Tax @ 15% is	Rate based Contract
	The offered total of the amount due inclusive of VAT is ¹	Rate based Contract
	(in words) [●]	

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the tenderer becomes the party named as the *Contractor* in the *conditions of contract* identified in the Contract Data.

Signature(s)

Name(s)

Capacity

**For the
tenderer:**

(Insert name and address of organisation)

Name &
signature of
witness

Date

Tenderer's CIDB registration number (if applicable)

Acceptance

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*.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1	Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
Part C2	Pricing Data
Part C3	Scope of Work: Works Information
Part C4	Site Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy signed between them of this document, including the Schedule of Deviations (if any).

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

Signature(s)

Name(s)

Capacity

**for the
Employer**

Eskom Holdings SOC Limited

Name &
signature of
witness

Date

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

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

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

Eskom Holdings SOC Limited

C1.2 ECC3 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option	
		B: Priced contract with bill of quantities
	dispute resolution Option	W1: Dispute resolution procedure
	and secondary Options	
		X1: Price adjustment for inflation
		X2 Changes in the law
		X5: Sectional Completion
		X7: Delay damages
		X16: Retention
		X18: Limitation of liability
		Z: Additional conditions of contract
	of the NEC3 Engineering and Construction Contract, April 2013 (ECC3)	
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)	
	Address	
	Tel	
	Fax	
	e-mail	

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

10.1	The <i>Supervisor</i> is: (Name) Address Tel No. Fax No. e-mail	The supervisor will be the Clerk of Works appointed for a particular project and will be specified in the task order.
11.2(13)	The <i>works</i> are	• Panel Contract for the Maintenance & Repairs of MV & LV Lines (Overhead aerial bundled conductor, bare conductor lines and underground cable reticulation) in Cape Coastal Cluster – Eastern Cape on an as and when required basis
11.2(14)	The following matters will be included in the Risk Register	• LIVE UNDERGROUND CABLES • WORK IN LIVE CHAMBERS/RESTRICTED AREAS • LIVE OVERHEAD CONDUCTORS/CROSSINGS • CLOSE PROXIMITY WORK TO LIVE EQUIPMENT • OPERATING OF CRANES/VEHICLE MOUNTED • STATIC ELECTRICITY/INDUCTION • WORK WITH CHAINSAWS/MECHANICAL CUTTERS • MATERIALS HANDLING/ HEAVY EQUIPMENT HANDLING • VEHICLE RISKS • WORK IN OPEN TRENCHES/EXCAVATIONS • BIOLOGICAL/HEALTH RISKS (CAMPS) • WEATHER RELATED RISKS (UV, HEAT, COLD, WIND, RAIN, SNOW, ETC.) • ENVIRONMENTAL RISKS • ERGONOMIC RISKS (BODY POSITION, FATIGUE) • WORK ON/DISMANTLING OF RUSTED & ROTTEN POLES AND STRUCTURES • FIRE RISKS • PUBLIC SAFETY RISKS • WORK CLOSE TO PUBLIC ROADS • WORKING IN ENVIRONMENTAL SENSITIVE AREA • HISTORICAL EVENTS THAT COULD INFLUENCE THE PROJECT, • I.E. CURRENT STRUCTURE DESIGNS, AGE OF STRUCTURES TO BE WORKED ON, ETC • DEMOGRAPHICS OF THE AREA

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

11.2(15)	The <i>boundaries of the site</i> are	Panel Contract for the Maintenance & Repairs of MV & LV Lines (Overhead aerial bundled conductor, bare conductor lines and underground cable reticulation) in Cape Coastal Cluster – Eastern Cape on an as and when required basis	
11.2(16)	The Site Information is in	The Site Information will form part of the Task Order to be issued as part of the contract.	
11.2(19)	The Works Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.	
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa	
13.1	The <i>language of this contract</i> is	English	
13.3	The <i>period for reply</i> is	2 Working Days	
2	The Contractor's main responsibilities	Data required by this section of the core clauses is provided by the <i>Contractor</i> 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	TBC	
11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	Condition to be met	key date
		1 Any key date and conditions will be specified in the Task Order for any project executed in terms of this contract	
30.1	The <i>access dates</i> are:	Part of the Site	Date
		1 Access dates will be specified in the Task Order for any project executed in terms of this contract.	
31.1	The <i>Contractor</i> is to submit a first programme for acceptance within	1 week of the Contract Date.	
31.2	The <i>starting date</i> is	TBC	

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32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	The period between project progress meetings.
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35.1	The <i>Employer</i> is not willing to take over the <i>works</i> before the Completion Date.
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4 Testing and Defects

42.2	The <i>defects date</i> is	52 weeks after Completion of the whole of the <i>works</i> .
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43.2	The <i>defect correction period</i> is	Within 1 week upon notification of defect
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5 Payment

50.1	The <i>assessment interval</i> is	25 th of every month or as agreed with Employer's representative (per works/purchase order)
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51.1	The <i>currency of this contract</i> is the	South African Rand.
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51.2	The period within which payments are made is	TBA
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51.4	The <i>interest rate</i> is	the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and
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(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the

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payment in question, adjusted *mutatis mutandis* every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.

6	Compensation events	
60.1(13)	The place where weather is to be recorded is: The <i>weather measurements</i> to be recorded for each calendar month are, The <i>weather measurements</i> are supplied by The <i>weather data</i> are the records of past <i>weather measurements</i> for each calendar month which were recorded at: and which are available from:	The established site the cumulative rainfall (mm) the number of days with rainfall more than 10 mm the number of days with minimum air temperature less than 0 degrees Celsius the number of days with snow lying at 09:00 hours South African Time and these measurements: The contractor using actual weather readings from the established site The nearest weather station of the South African Weather Service to the site the South African Weather Bureau and included in Annexure A to this Contract Data provided by the <i>Employer</i>
60.1(13)	Assumed values for the ten year return <i>weather data</i> for each <i>weather measurement</i> for each calendar month are:	As stated in Annexure A to this Contract Data provided by the <i>Employer</i>.
7	Title	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	Inclement weather, Resident Complaints, Theft and vandalism, Material shortage, Political unrest
9	Termination	

10 Data for main Option clause		
B	Priced contract with bill of quantities	
60.6	The <i>method of measurement</i> is	
11 Data for Option W1		
W1.1	The <i>Adjudicator</i> is	
W1.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the London Institution of Civil Engineers. (See www.ice-sa.org.za) or its successor body.
W1.4(2)	The <i>tribunal</i> is:	arbitration.
W1.4(5)	The arbitration procedure is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
	The place where arbitration is to be held is	Decided within South Africa
	The person or organisation who will choose an arbitrator	The Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.
	- if the Parties cannot agree a choice or	
	- if the arbitration procedure does not state who selects an arbitrator, is	
12 Data for secondary Option clauses		
X1	Price adjustment for inflation	
X1.1(a)	The <i>base date</i> for indices is	1 month prior to Tender Closing Date
X1.1(c)	The proportions used to calculate the Price Adjustment Factor are:	Contract Price Adjustment (CPA) The panel will be an enabling contract, which will be utilised “as and when” there is a need in the business. The price will be fixed and firm for the first 12 months and thereafter be escalated as follows: Material rates will be compensated at cost plus 5%, suppliers will be required to submit 3 quotations.

		Labour rates 65% in the Pricing Data will be adjusted as per SEIFSA TABLE C3. Transport rates 20% in the Pricing Data will be adjusted as per SEIFSA TABLE L1. Fixed portion will be 15% in the pricing data. Contracting party to submit supporting documentation evidencing the CPA calculations made. Under no circumstances is Eskom employees to initiate any CPA claim by providing the contracting party with CPA values and calculations to be verified by the contracting party.
X2	Changes in the law	There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.
X5	Sectional Completion	
X5.1	The <i>completion date</i> for each <i>section</i> of the <i>works</i> is:	The completion date for each section of the work will be specified in the Task Order for any project executed in terms of this contract.
X5 & X7	Sectional Completion and delay damages used together	The delay damage for each section of the work will be specified in the Task Order for any project executed in terms of this contract and will be relevant to the specific project being executed.
X7.1 X5.1	Delay damages for late Completion of the <i>sections</i> of the <i>works</i> are:	5% of the Task Order value per day. Limited to the total value of the Task Order
X16	Retention	
X16.1	The <i>retention free amount</i> is	nil
	The <i>retention percentage</i> is	5% on all task orders 2.5% SDL&I performance retention on all task orders
X18	Limitation of liability	

X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to:	R0.0 (zero Rand)
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to:	the amount of the deductibles relevant to the event
X18.3	The <i>Contractor's</i> liability for Defects due to his design which are not listed on the Defects Certificate is limited to	The greater of • the total of the Prices at the Contract Date and • the amounts excluded and unrecoverable from the <i>Employer's</i> assets policy for correcting the Defect (other than the resulting physical damage which is not excluded) plus the applicable deductible as at contract date.
X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> for all matters arising under or in connection with this contract, other than excluded matters, is limited to:	the total of the Prices other than for the additional excluded matters. The <i>Contractor's</i> total liability for the additional excluded matters is not limited. The additional excluded matters are amounts for which the <i>Contractor</i> is liable under this contract for • Defects due to his design which arise before the Defects Certificate is issued, • Defects due to manufacture and fabrication outside the Site, • loss of or damage to property (other than the <i>works</i>, Plant and Materials), • death of or injury to a person and • infringement of an intellectual property right.
X18.5	The <i>end of liability date</i> is	(i) seven years after the <i>defects date</i> for latent Defects and (ii) the date on which the liability in question prescribes in accordance with the Prescription Act No. 68 of 1969 (as

amended or in terms of any replacement legislation) for any other matter.

A latent Defect is a Defect which would not have been discovered on reasonable inspection by the *Employer* or the *Supervisor* before the *defects date*, without requiring any inspection not ordinarily carried out by the *Employer* or the *Supervisor* during that period.

If the *Employer* or the *Supervisor* do undertake any inspection over and above the reasonable inspection, this does not place a greater responsibility on the *Employer* or the *Supervisor* to have discovered the Defect.

Z	The <i>Additional conditions of contract</i> are	Z1 to Z15 always apply.
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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.

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- 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

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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

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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:

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Affected Party means, as the context requires, any party, irrespective of whether it is the *Contractor* or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,

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

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

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

Corrupt Action means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,

Fraudulent Action means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,

Obstructive Action means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and

Prohibited Action means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

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

Z12.2 The *Employer* may terminate the *Contractor's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Contractor* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Employer* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Employer* can terminate the *Contractor's* obligation to Provide the Services for this reason.

Z12.3 If the *Employer* terminates the *Contractor's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

Z13 Insurance

Z 13.1 Replace core clause 84 with the following:

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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 minimum limit of indemnity
Loss of or damage to the <i>works</i> , Plant and Materials	The replacement cost where covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance
Loss of or damage to Equipment	The replacement cost
Liability for loss of or damage to property (except the <i>works</i> , Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) caused by activity in connection with this contract	<u>Loss of or damage to property</u> <u>Employer's property</u> The replacement cost where covered by the <i>Employer's</i> insurance The <i>Employer's</i> policy deductible as at Contract Date, where covered by the <i>Employer's</i> insurance <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.

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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.

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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.

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- 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.

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

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

	<i>Weather measurement</i>				
Month	Cumulative rainfall (mm)	Number of days with rain more than 10mm	Number of days with min air temp < 0 deg.C	Number of days with snow lying at 08:00 CAT	[Other measurements if applicable]
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

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

C1.2 Contract Data

Part two - Data provided by the *Contractor*

Notes to a tendering contractor:

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

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

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

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

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

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62 in SSCC	The percentage for design overheads is	%
63 in SSCC	The categories of design employees whose travelling expenses to and from the Working Areas are included in Defined Cost are:	

PART 2: PRICING DATA**ECC3 Option B**

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option B	3
C2.2	The <i>bill of quantities</i>	13

C2.1 Pricing assumptions: Option B

1. How work is priced and assessed for payment

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

Identified and defined terms	11	
	11.2	(21) The Bill of Quantities is the <i>bill of quantities</i> as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.
		(28) The Price for Work Done to Date is the total of - 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.

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1. 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.

4.3. Departures from the *method of measurement*

4.4. Amplification of or assumptions about measurement items

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

C2.2 the *bill of quantities*

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

MV & LV Maintenance		
DESCRIPTION	UNIT	Rate
All structure prices Exclude the big 5 (Conductor, Transformers, Poles and Wooden X-Arms, Metering Kiosks)		
MATERIALS AND LABOUR		
3000 Series		
LV-STAY ASSEMBLY (LV - 35kN) WOOD OR CONCRETE POLES	Nº	
MV-STAY ASSEMBLY (MV - 97kN) WOOD POLES	Nº	
MV-STAY ASSEMBLY (MV - 97kN) WOOD OR CONCRETE POLES	Nº	
LV/MV - STRUT ASSEMBLY FLAT 45 DEG. BRACKET FOR 9m WOOD POLES (not for MV Line)	Nº	
LV - FLYING STAY ARRANGEMENT	Nº	
MV - FLYING STAY ARRANGEMENT	Nº	
MV-STRUT ASSEMBLY - SWIVEL BRACKET - 11m & 12m POLES	Nº	
MV-STRUT ASSEMBLY - SWIVEL BRACKET - H POLES	Nº	
MV-ROCK ANCHOR INSTALLATION (2 EYED ROD & PIN TYPE)	Nº	
LV-ROCK ANCHOR INSTALLATION (2 EYED ROD & PIN TYPE)	Nº	
4000 Series		
MV SWER - INTERMEDIATE 0 DEG. DEVIATION - excl BIL	Nº	
MV SWER - INTERMEDIATE SMALL ±1-10 DEG. DEVIATION	Nº	
MV SWER - STRAIN SMALL 0 DEG. DEVIATION	Nº	
MV SWER - STRAIN SMALL 1-30 DEG. DEVIATION	Nº	
MV SWER - STRAIN LARGE 30-90 DEG. DEVIATION	Nº	
MV SWER - TERMINAL	Nº	
Measured Complete	Nº	
MV SWER - INTERMEDIATE WITH EARTH WIRE 0 DEG. DEVIATION	Nº	
MV SWER - INTERMEDIATE WITH EARTH WIRE SMALL ±1-10 DEG. DEVIATION.	Nº	
MV SWER - STRAIN WITH EARTH WIRE 0 DEG. DEVIATION	Nº	
MV SWER - STRAIN WITH EARTH WIRE SMALL 1-30 DEG. DEVIATION	Nº	
MV SWER - STRAIN WITH EARTH WIRE LARGE 30-90 DEG. DEVIATION	Nº	
MV SWER - TERMINAL WITH EARTH WIRE	Nº	
MV SWER - EARTH WIRE TERMINAL [Understrung Only]	Nº	
Excluding Main Str - Claim separately.	Nº	
MV SWER - TAKE-OFF FROM INTERMEDIATE AND FROM STRAIN [excluding Main Str], - TAKE-OFF FROM INTERMEDIATE POST INSULATOR ON TOP [excluding Main Str]	Nº	
MV SWER - TAKE-OFF WITH EARTH WIRE FROM INTERMEDIATE AND FROM STRAIN	Nº	
MV SWER - SINGLE SWER DISTRIBUTION TRANSFORMER 16 TO 32kVA (incl. earthing of TRFR)	Nº	
MV SWER - BACK TO BACK 64kVA DUAL PHASE SUPPLY FROM A 19kVA SWER BACKBONE (incl. earthing)	Nº	
MV SWER - SINGLE PHASE RECLOSER ON A SINGLE POLE (incl.earthing)	Nº	
MV SWER - RETICULATION SWER CUT-OUT	Nº	
6000 Series		
TRANSFORMER SINGLE POLE MOUNTING (MV p= 300 for 30ohm ELECTRODE AT TRANSFORMER) Only for use as per Project Engineers request. Example for the upgarding of an existing Trfr	Each	
TRANSFORMER SINGLE POLE MOUNTING (LV p= 300 for 30ohm ELECTRODE AT TRANSFORMER) Only for use as per Project Engineers request. Example for the upgarding of an existing Trfr	Each	
8000 Series		
LV OUTDOOR CABLE TERMINATION TO ABC LINE (UNFUSED) ≤ 25mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (UNFUSED) ≤35mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (UNFUSED) 70mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (UNFUSED) ≤ 25mm² 4 CORE TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (UNFUSED) 70mm² 4 CORE TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (UNFUSED) ≤ 25mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (UNFUSED) 35mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (UNFUSED) 70mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO TRANSFORMER (UNFUSED) ≤ 25mm² 4 CORE	Nº	
LV OUTDOOR CABLE TERMINATION TO TRANSFORMER (UNFUSED) 1 x 70mm 4 CORE	Nº	
LV OUTDOOR CABLE TERMINATION TO TRANSFORMER (UNFUSED) 2 x 150mm² 4 CORE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (FUSED) ≤25mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (FUSED) 35mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO ABC LINE (FUSED) 70mm² 4 CORE INTERMEDIATE STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (FUSED) ≤25mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (FUSED) ≤35mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (FUSED) 70mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO OPEN WIRE LINE (FUSED) 150mm² 4 CORE INTERMEDIATE OR TERMINAL STRUCTURE	Nº	
LV OUTDOOR CABLE TERMINATION TO TRANSFORMER (FUSED) ≤ 25mm² 4 CORE	Nº	
LV OUTDOOR CABLE TERMINATION TO TRANSFORMER (FUSED) 1x70mm² 4 CORE	Nº	
LV DISTRIBUTION KIOSK ASSEMBLY STRUCTURE	Nº	
CABLE TERMINATION ONTO OVERHEAD LINE WITH FUSE-CUT-OUT ASSEMBLY GENERAL ARRANGEMENT	Nº	
CABLE TERMINATION ONTO VERTICAL STRAIN TERMINAL WITH FUSE-CUT-OUT ASSEMBLY GENERAL ARRANGEMENT	Nº	
CABLE TERMINATION ONTO EASTERN REGION W.I.S.P. STRUCTURE WITH FUSE-CUT-OUT ASSEMBLY GENERAL ARRANGEMENT	Nº	
CABLE TERMINATION ONTO H-POLE STRUCTURE GENERAL ARRANGEMENT	Nº	
OVERHEAD CABLE SUPPORT BRACKET FOR STATION CLASS S.A.'S	Nº	
OVERHEAD CABLE SUPPORT BRACKET FOR DISTRIBUTION CLASS S.A.'S	Nº	
OVERHEAD H-POLE CABLE SUPPORT BRACKET FOR STATION CLASS S.A.'S	Nº	
OVERHEAD H-POLE CABLE SUPPORT BRACKET FOR STATION CLASS S.A.'S	Nº	
11/22kV UNIVERSAL TYPE A MINI-SUBSTATION PLINTH (CAST ON SITE)	Nº	
11/22kV UNIVERSAL TYPE A MINI-SUBSTATION PLINTH (PRE-CAST)	Nº	
11/22kV 1MVA TYPE 'A' MINI-SUBSTATION PLINTH DETAILS (CAST ON SITE)	Nº	
11/22kV 1MVA TYPE 'A' MINI-SUBSTATION PLINTH DETAILS (PRE-CAST)	Nº	
TYPE 'B' MINI-SUBSTATION WITH CABLE FRONT OR SIDE ENTRY R.M.U. PLINTH DETAILS (CAST ON SITE)	Nº	
TYPE 'B' MINI-SUBSTATION WITH CABLE FRONT ENTRY R.M.U. PLINTH DETAILS (CAST ON SITE)	Nº	
TYPE 'B' MINI-SUBSTATION WITH CABLE FRONT ENTRY R.M.U. PLINTH DETAILS (PRE-CAST)	Nº	
TRANSFORMER PLINTH FOR 100 - 1000kVA TRFRS PLAN AND SECTION (CAST ON SITE)	Nº	
TRANSFORMER PLINTH FOR 100 - 1000kVA TRFRS PLAN AND SECTION (PRE-CAST)	Nº	
9000 Series		
LV BARE WIRE SYSTEMS - 3 PHASE INTERMEDIATE ASSEMBLY 0 DEG.	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE IN-LINE STRAIN ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE ANGLE ASSEMBLY 1-100 DEG.	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE TERMINAL ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE T-OFF ASSEMBLY FROM INTERMEDIATE	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE INTERMEDIATE RIGHT ANGLE CROSSING	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE T-OFF ASSEMBLY FROM STRAIN (PG clamp)	Nº	
LV BARE WIRE SYSTEMS - THREE PHASE CABLE CONNECTION (PG Clamps)	Nº	
LV BARE WIRE SYSTEMS - SERVICE DISTRIBUTION BOX CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE OPEN WIRE / ABC CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE INTERMEDIATE STRAIN CROSSING	Nº	
LV BARE WIRE SYSTEMS - 3 PHASE STRAIN - STRAIN CROSSING	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE INTERMEDIATE ASSEMBLY 0 DEG.	Nº	

LV BARE WIRE SYSTEMS - 2 PHASE IN-LINE STRAIN ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE ANGLE ASSEMBLY 1-100 DEG.	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE TERMINAL ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE T-OFF ASSEMBLY FROM INTERMEDIATE	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE INTERMEDIATE RIGHT ANGLE CROSSING	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE T-OFF ASSEMBLY FROM STRAIN	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE CABLE CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE SERVICE DISTRIBUTION BOX CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE OPEN WIRE / ABC CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE INTERMEDIATE STRAIN CROSSING	Nº	
LV BARE WIRE SYSTEMS - 2 PHASE STRAIN - STRAIN CROSSING	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE INTERMEDIATE ASSEMBLY 0 DEG.	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE IN-LINE STRAIN ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE ANGLE ASSEMBLY 1-100 DEG.	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE TERMINAL ASSEMBLY or Take off ASSEMBLY	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE T-OFF ASSEMBLY FROM INTERMEDIATE	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE INTERMEDIATE RIGHT ANGLE CROSSING	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE T-OFF ASSEMBLY FROM STRAIN	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE CABLE CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE SERVICE DISTRIBUTION BOX CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE OPEN WIRE / ABC CONNECTION	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE INTERMEDIATE STRAIN CROSSING	Nº	
LV BARE WIRE SYSTEMS - 1 PHASE STRAIN - STRAIN CROSSING	Nº	
1100 Series		
LV - 3 PHASE BARE NEUTRAL ABC SUSPENSION ASSEMBLY 0-30 DEG.	Nº	
LV - 3 PHASE BARE NEUTRAL ABC TERMINAL ASSEMBLY	Nº	
LV - 3 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 0-60 DEG.	Nº	
LV - 3 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 60-90 DEG.	Nº	
LV - 3 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM INTERMEDIATE	Nº	
LV - 3 PHASE BARE NEUTRAL ABC CROSS INTERMEDIATE - INTERMEDIATE ASSEMBLY (rare occasions)	Nº	
LV - 3 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM STRAIN	Nº	
LV - 3 PHASE BARE NEUTRAL ABC CROSS INTERMEDIATE - STRAIN ASSEMBLY	Nº	
LV - 2 PHASE BARE NEUTRAL ABC SUSPENSION ASSEMBLY 0-30 DEG.	Nº	
LV - 2 PHASE BARE NEUTRAL ABC TERMINAL ASSEMBLY	Nº	
LV - 2 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 0-60 DEG. (Please check with 3 phase)	Nº	
LV - 2 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 60-90 DEG.(Please check with 3 phase)	Nº	
LV - 2 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM INTERMEDIATE (Please check with 3 phase)	Nº	
LV - 2 PHASE BARE NEUTRAL ABC CROSS INTERMEDIATE - INTERMEDIATE ASSEMBLY (Please check with 3 phase)	Nº	
LV - 2 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM STRAIN (Please check with 3 phase)	Nº	
LV - 2 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM STRAIN(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC SUSPENSION ASSEMBLY 0-30 DEG.(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC TERMINAL ASSEMBLY(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 0-60 DEG.(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC STRAIN ASSEMBLY 60-90 DEG.(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM INTERMEDIATE(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC CROSS INTERMEDIATE - INTERMEDIATE ASSEMBLY(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC T-OFF ASSEMBLY FROM STRAIN(Please check with 3 phase)	Nº	
LV - 1 PHASE BARE NEUTRAL ABC CROSS INTERMEDIATE - STRAIN ASSEMBLY(Please check with 3 phase)	Nº	
1300 Series		
PHASE / PHASE - STAGGERED VERTICAL (800mm SPACING) - INTERMEDIATE - 0° DEVIATION - Incl Bonding	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - INTERMEDIATE - SMALL (1°-±10°) DEVIATION	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - INTERMEDIATE - MEDIUM(±10°-30°) DEVIATION	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - STRAIN - 0° DEVIATION	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - STRAIN - SMALL(1°-30°) DEVIATION	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - STRAIN - LARGE (30°-90°) DEVIATION	Nº	
PHASE / PHASE - VERTICAL (800mm SPACING) - STRAIN - TERMINAL	Nº	
PHASE / PHASE - DELTA (450mm STUD) - INTERMEDIATE - 0° DEVIATION	Nº	
PHASE / PHASE - DELTA / 1,3m STEEL X-ARM - STRAIN - 0° DEVIATION	Nº	
PHASE / PHASE - DELTA / 1,3m STEEL X-ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
PHASE / PHASE - DELTA / 1,3m STEEL X-ARM - STRAIN - LARGE (60°-90°) DEVIATION	Nº	
PHASE / PHASE - DELTA / 1,3m STEEL X-ARM - STRAIN - TERMINAL	Nº	
PHASE / PHASE - DELTA / 2,5m WOOD X-ARM - INTERMEDIATE - 0° DEVIATION	Nº	
PHASE / PHASE - DELTA / 2,5m WOOD X-ARM - STRAIN - 0° DEVIATION	Nº	
PHASE / PHASE - DELTA / 2,5m WOOD X-ARM - STRAIN - MEDIUM(1°-60°) DEVIATION	Nº	
PHASE / PHASE - DELTA / 2,5m WOOD X-ARM - STRAIN - TERMINAL	Nº	
PHASE / PHASE - H-POLE / 4,5m WOOD X-ARM - INTERMEDIATE - 0° DEVIATION	Nº	
PHASE / PHASE - H-POLE / 4,5m WOOD X-ARM - INTERMEDIATE - SMALL (1°-±10°) DEVIATION	Nº	
PHASE / PHASE - H-POLE / 4,5m WOOD X-ARM - STRAIN - 0° DEVIATION	Nº	
PHASE / PHASE - H-POLE / 4,5m WOOD X-ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
PHASE / PHASE - H-POLE / 4,5m WOOD X-ARM - STRAIN - TERMINAL	Nº	
PHASE/ PHASE - H-POLE / 2 X 4,5m WOOD CROSS ARM - STRAIN - 0 DEG. DEVIATION	Nº	
H-POLE / 2 x 4,5m WOOD CROSS ARM - STRAIN - MEDIUM (0-60) DEG. DEVIATION	Nº	
1700 Series		
3 PHASE - STAGGERED VERTICAL (450-600mm SPACING) - INTERMEDIATE - 0° DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - INTERMEDIATE - SMALL (1°-±10°) DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - INTERMEDIATE - MEDIUM (±15°-30°) DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - STRAIN - 0° DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - STRAIN - SMALL (1°-30°) DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - STRAIN - LARGE (30°-90°) DEVIATION	Nº	
3 PHASE - VERTICAL (450-600mm SPACING) - STRAIN - TERMINAL	Nº	
3 PHASE - DELTA (450-600mm STUD) - INTERMEDIATE - 0° DEVIATION	Nº	
3 PHASE - DELTA / 1,3m STEEL CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - DELTA / 1,3m STEEL CROSS ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
3 PHASE - DELTA / 1,3m STEEL CROSS ARM - STRAIN - LARGE (60°-90°) DEVIATION	Nº	
3 PHASE - DELTA / 1,3m STEEL CROSS ARM - STRAIN - TERMINAL	Nº	
3 PHASE - DELTA / 2,5m WOOD CROSS ARM - INTERMEDIATE - 0° DEVIATION (Sht 2)	Nº	
3 PHASE - DELTA / 2,5m WOOD CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - DELTA / 2,5m WOOD CROSS ARM - STRAIN - 1-60° DEVIATION	Nº	
3 PHASE - DELTA / 2,5m WOOD CROSS ARM - STRAIN - TERMINAL	Nº	
3 PHASE - DELTA / 2 x 2,5m WOOD CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - DELTA / 2 x 2,5m WOOD CROSS ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
3 PHASE - DELTA / 2 x 2,5m WOOD CROSS ARM - STRAIN - TERMINAL	Nº	
3 PHASE - DELTA / 4,5m WOOD CROSSARM - INTERMEDIATE - 0° DEVIATION	Nº	
3 PHASE - DELTA / 4,5m WOOD CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - DELTA / 4,5m WOOD CROSS ARM - STRAIN - MEDIUM(1°-60°) DEVIATION	Nº	
3 PHASE - DELTA / 2 x 4,5m WOOD CROSS ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
3 PHASE - H-POLE / 3,5m WOOD CROSS ARM - INTERMEDIATE - 0° DEVIATION	Nº	
3 PHASE - H-POLE / 3,5m WOOD CROSS ARM - STRAIN - TERMINAL	Nº	
3 PHASE - H-POLE / 2 x 3,5m WOOD CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - H-POLE / 2 x 3,5m WOOD CROSS ARM - STRAIN - MEDIUM (1°-60°) DEVIATION	Nº	
3 PHASE - H-POLE / 4,5m WOOD CROSS ARM - INTERMEDIATE - 0° DEVIATION	Nº	
3 PHASE - H-POLE / 4,5m WOOD CROSS ARM - INTERMEDIATE - SMALL (1°-±10°) DEVIATION	Nº	
3 PHASE - H-POLE / 4,5m WOOD CROSS ARM - STRAIN - 0° DEVIATION	Nº	
3 PHASE - H-POLE / 4,5m WOOD CROSS ARM - STRAIN - MEDIUM(1°-60°) DEVIATION	Nº	
3 PHASE - H-POLE / 4,5m WOOD CROSS ARM - STRAIN - TERMINAL	Nº	
3 PHASE - H-POLE / 2 X 4,5m WOOD CROSS ARM - STRAIN - 0 DEG. DEVIATION	Nº	
H-POLE / 2 x 4,5m WOOD CROSS ARM - STRAIN - MEDIUM (0-60) DEG. DEVIATION	Nº	
3 PHASE - TRIPS - STRAIN - 0° DEVIATION	Nº	
3 PHASE - TRIPS - STRAIN - LARGE (1°-90°) DEVIATION	Nº	

1800 Series		
3 PHASE TAKE-OFF - VERTICAL (450-600mm SPACING) TAKE-OFF - FROM THE BACK OF AN EXISTING X-ARM (Non Road Crossing)	Nº	
TAKE-OFF - FROM THE BACK OF AN EXISTING X-ARM (Non Road Crossing)	Nº	
3 PHASE TAKE-OFF - 2.5m WOODEN CROSS ARM	Nº	
3 PHASE TAKE-OFF - 2 x 2.5m WOODEN CROSS ARM	Nº	
3 PHASE TAKE-OFF - H-POLE 3.5m WOODEN CROSS ARM	Nº	
PHASE / PHASE TAKE-OFF - VERTICAL 600mm SPACING	Nº	
PHASE / PHASE TAKE-OFF - DELTA / 1.3m STEEL CROSS ARM	Nº	
PHASE / PHASE TAKE-OFF - 2.5m WOODEN CROSS ARM	Nº	
PHASE / PHASE TAKE-OFF - 2 x 2.5m WOODEN CROSS ARM	Nº	
PHASE / PHASE TAKE-OFF - H-POLE 3.5m WOODEN CROSS ARM	Nº	
3 PHASE MV RECLOSER STRUCTURE (GENERAL ARRANGEMENT) (Including Earthing and Excluding Str & Cut out switches)	Nº	
3 Phase - CT/VT METERING BULK TARIFF (GENERAL ARRANGEMENT)	Nº	
Phase / Phase - CT/VT METERING BULK TARIFF (GENERAL ARRANGEMENT)	Nº	
3 Phase - SECTION LINKS CUT/OUTS OR DISCONNECTORS 3.5/4.5m WOOD CROSS ARM / H-POLE	Nº	
Dual Phase - SECTION LINKS CUT/OUTS OR DISCONNECTORS 3.5/4.5m WOOD CROSS ARM / H-POLE	Nº	
3 Phase - SECTION LINKS CUT/OUTS OR DISCONNECTORS 2.5m WOOD CROSS ARM / SINGLE POLE	Nº	
Dual Phase - SECTION LINKS CUT/OUTS OR DISCONNECTORS 2.5m WOOD CROSS ARM / SINGLE POLE	Nº	
3 Phase - EQUIPMENT LINKS CUT-OUTS OR DISCONNECTORS 2.5m WOOD CROSS ARM / SINGLE POLE	Nº	
Dual Phase - EQUIPMENT LINKS CUT-OUTS OR DISCONNECTORS 2.5m WOOD CROSS ARM / SINGLE POLE	Nº	
3 Phase - SECTION / EQUIPMENT LINKS OR DISCONNECTORS 1.3m STEEL CROSS ARM / SINGLE POLE	Nº	
Dual Phase - SECTION / EQUIPMENT LINKS OR DISCONNECTORS 1.3m STEEL CROSS ARM / SINGLE POLE	Nº	
3 Phase - EQUIPMENT LINKS - CUT-OUTS OR DISCONNECTORS - 2.5m WOOD CROSS ARM / H-POLE	Nº	
Dual Phase - EQUIPMENT LINKS - CUT-OUTS OR DISCONNECTORS - 2.5m WOOD CROSS ARM / H-POLE	Nº	
3 Phase - EQUIPMENT LINKS - CUT-OUTS OR DISCONNECTORS - 3.5/4.5m WOOD CROSS ARM / H-POLE	Nº	
Dual Phase - EQUIPMENT LINKS - CUT-OUTS OR DISCONNECTORS - 3.5/4.5m WOOD CROSS ARM / H-POLE	Nº	
3 Phase - EQUIPMENT ISOLATING (IN-OUT) LINKS - CUT-OUTS OR DISCONNECTORS - 2 x 2.5m WOOD CROSS ARM / H-POLE	Nº	
Dual Phase - EQUIPMENT ISOLATING (IN-OUT) LINKS - CUT-OUTS OR DISCONNECTORS - 2 x 2.5m WOOD CROSS ARM / H-POLE	Nº	
Transformers	Nº	
Rates for Transformer Structures shall be all inclusive of Transformer installation, MV and LV S/A's, and installation of Earthing, Labels, Earthing Tests & Certificates. The Cut Out required for the Structure is claimed separately. [Transformer Electrode Standard Earth for P=300 (30 ohm) to be included. Cut Outs need to measured separately]. Earthing Trench Excavation, Backfilling of Trench and Compaction of Trench to be measured separately.	Nº	
3 Phase - Transformer - 15-100kVA / Single Pole Mounted Transformer.	Nº	
Phase - Phase - Tranformer - 5-64kVA / Single Pole Mounted Transformer	Nº	
3 Phase - Transformer - 15-100kVA / Single Pole Mounted Transformer. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Phase - Phase - Tranformer - 5-64kVA / Single Pole Mounted Transformer. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3 Phase - Transformer - 100-200kVA / 2-Pole Platform Mounted (H-Pole)	Nº	
3 Phase - Transformer - 100-200kVA / 2-Pole Platform Mounted (H-Pole). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3 phase - Transformer 300-500kVA - 5-Pole Double Platform Mounted	Nº	
3 phase - Transformer 300-500kVA - 5-Pole Double Platform Mounted. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3 Phase - Transformer 100-200kVA - 2-Pole Platform Mounted (In-Line)	Nº	
3 Phase - Transformer 100-200kVA - 2-Pole Platform Mounted (In-Line). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3Phase - Transformer 100-200kVA - 2 Pole Platform Mounted (Out of Line)	Nº	
3Phase - Transformer 100-200kVA - 2 Pole Platform Mounted (Out of Line). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3 Phase - Transformer 100-200kVA - 2-Pole Platform Mounted (Out of Line)	Nº	
3 Phase - Transformer 100-200kVA - 2-Pole Platform Mounted (Out of Line). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
3085 3 Ph Cut out Switches Only (inclusive of jumpers, bimetal lugs, T crimps) Fitted to a take-off X-arm for example.	Nº	
3086 Ph/ Ph Cut out Switches Only (inclusive of jumpers, bimetal lugs, T crimps) Fitted to a take-off X-arm for example.	Nº	
3 Phase - Transformer - 15 -100kVA / Single Pole Mounted (Out of Line)	Nº	
Phase - Phase - Transformer - 5 -64kVA / Single Pole Mounted (Out of Line)	Nº	
3 Phase - Transformer - 15 -100kVA / Single Pole Mounted (Out of Line). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Phase - Phase - Transformer - 5 -64kVA / Single Pole Mounted (Out of Line). This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Trfr - 25 -50kVA / Single Pole Mounted (Out of Line) D-EC 1866A 3 Ph	Nº	
Trfr - 5 -64kVA / Single Pole Mounted (Out of Line) D-EC 1866A Ph/Ph	Nº	
Trfr - 25 -50kVA / Single Pole Mounted (Out of Line) D-EC 1866A 3 Ph. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Trfr - 5 -64kVA / Single Pole Mounted (Out of Line) D-EC 1866A Ph/Ph. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Dual Phase - Transformer - Back to Back 64kVA Dual Phase Supply.	Nº	
Dual Phase - Transformer - Back to Back 128kVA Dual Phase Supply	Nº	
Dual Phase - Transformer - Back to Back 64kVA Dual Phase Supply. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Dual Phase - Transformer - Back to Back 128kVA Dual Phase Supply. This activity excludes earthing but inclusive of Earthing Tests & Certificates.	Nº	
Miscellaneous		
MV Structures		
Excavations and Poles measured elsewhere. Backfilling of holes must be included in rate.	Nº	
3 Phase - Steel A-frame non road crossing (complete, Isulator, spindle, ties, etc.)	Nº	
Phase - Phase Steel A-frame non road crossing (complete, Isulator, spindle, ties, etc.)	Nº	
3 Phase - Steel A-frame road crossing (complete, Isulator, spindle, ties, etc.)	Nº	
Phase - Phase Steel A-frame road crossing (complete, Isulator, spindle, ties, etc.)	Nº	
Raptor Perch - DEC 2063 For Existing Phase/ Phase Structures being upgraded to 3 phase only!	Nº	
Installation of pistol grip (as Request by Project Engineering).	Nº	
Installation of additional single link (as Request by Project Engineering)	Nº	

Installation of "Spark Gap Device" - (Bil wire priced separately)	Nº	
Replace Insulators [per insulator].	Nº	
Post, Post R/C, Longrod, Longrod R/C.	Nº	
Post	Nº	
Post R/C	Nº	
Longrod	Nº	
Longrod R/C	Nº	
Replace 2.4m Cross-arm Intermediate (Including Bracing/ Tie straps, bonding, Clips & threaded rods)	Nº	
Replace Cross-arm Strain (Including Bracing/ Tie straps, bonding, Clips & threaded rods)	Nº	
Mini Substation (Inclusive of MV, LV (straight 5 rod), Equipotential Earth Electrodes, Plinth)	Nº	
MV compartment - joints & trminations of cables not included. LV Compartment circiut breakers not included - Eskom will provide as free issue. LV Cables need to be claimed separately, including terminations. Earthing - Standard earth has been included in the form of trench earths have been included. Eqi-potential earthing has been included. The installation of the pre-cast plinth included.	Nº	
Type A - 315kVA - 22 or 11 kV Mini Sub	Nº	
Type B - 315kVA - 22 or 11 kV Mini Sub	Nº	
Type A - 500kVA - 22 or 11 kV Mini Sub	Nº	
Type B - 500kVA - 22 or 11 kV Mini Sub	Nº	
Type A - 1 MVA - 22 or 11 kV Mini Sub	Nº	
Type B - 1 MVA - 22 or 11 kV Mini Sub	Nº	
Minisub Earthing - Only for replacement of an existing	Nº	
Supply of CONCRETE PLINTH (Refer to D-DT 0859). Installation has been inlced into Minisub Price	Nº	
Installation of PLINTH,PRE-CAST Type A Minisub - Only for replacement of an existing plinth	Nº	
Installation of PLINTH,PRE-CAST Type B Minisub - Only for replacement of an existing plinth	Nº	
MV Cables - All Inclusive (Cable slabs & route markers priced separately)		
22kV - 50mm² 3c, 95mm² 3c XLPE,		
11kV - 50mm² 3c, 95mm² 3c , 185mm² 3c XLPE.		
The cables will be issued as part of free issue materials. Contractor are to allow for laying, warning tape, selected backfilling and compaction. Including cable warning tape, markers and concrete slabs.		
22kV - individually screened.		
50mm² 3c XLPE	Nº	
95mm² 3c XLPE	Nº	
11kV - unscreened.		
50mm² 3c XLPE	Nº	
95mm² 3c XLPE	Nº	
185mm² 3c XLPE	Nº	
MV Cable Terminations - All Inclusive		
22kV - individ. screened - 50mm² 3c, 95mm² 3c XLPE,		
11kV - unscreened - 50-95mm² 3c, 120-185mm² 3c ID & OD XLPE.		
Contractors are to allow for the Terminations of cable in accordance with DT Standard. Allow for everything necessary.		
22kV - screened.		
CONNECTOR,SEP SCR CBL 1 22kV 25-50 D8017	Nº	
CONNECTOR,SEP SCR CBL 1 22kV 70-185 D8017	Nº	
11kV - unscreened.		
TERM KIT 3C 11kV 50-95SQ ID XLPE D8006	Nº	
TERM KIT 3C 11kV 50-95SQ OD XLPE D8006	Nº	
TERM KIT 3C 11kV 120-185SQ ID XLPE D8006	Nº	
TERM KIT 3C 11kV 120-185SQ OD XLPE D8006	Nº	
MV Cable XLPE Joints - All Inclusive - (Excavate/ backfill joint bay inclusive)		
22kV - individ. screened - 50mm² 3c, 95mm² 3c XLPE,		
11kV - unscreened - 50mm² 3c, 95mm² 3c , 185mm² 3c XLPE.		
Contractors are to allow for the Terminations of cable in accordance with DT Standard. Allow for everything necessary.		
22kV - individually screened.		
50mm² 3c XLPE	Nº	
95mm² 3c XLPE	Nº	
11kV - individually screened.		
50mm² 3c XLPE	Nº	
95mm² 3c XLPE	Nº	
185mm² 3c XLPE	Nº	
Equi-Potential Earthing - ONLY for Existing Mini sub or RMU.	Nº	
SUPPLY INSTALLATION OF CABLE MARKER (D-DT 8012)	Nº	
CONCRETE CABLE SLABS	Nº	
Installation of BIL per Structure including Gap Device, fixings staples and bonding clipsas per DT Spec. Bonding is included in the Str.		
BIL for 12-14m Pole length.	Nº	
BIL for 10-11m Pole length.	Nº	
BIL for 8-9m Pole length.	Nº	
LV Section		
LV Mosdorfer Fuses (Mosdorf) c/w Bracket and mounting.		
Installation of 3, 2, 1 Phase		
Installation of 3 Phase LV Fuse .	Nº	
Installation of 2 Phase LV Fuse	Nº	
Installation of 1 Phase LV Fuse	Nº	
LV Feeder Labels	Nº	
LV Maximum Fuse Labels	Nº	
Relocating existing LV Feeders - Upgrading Trfr.		
[needed when uprating Trfr and there is clearance issues]		
2 Wire LV Feeder.	Nº	
3 Wire LV Feeder.	Nº	
4 Wire LV Feeder.	Nº	
LV Kiosks excl cable		
LV Kiosks excl cable	Nº	
Single Pole mounted Kiosk (16-100kVA)		
Ground Mounted Kiosks		
16kVA (2-6 WAY), 25kVA (2-4 WAY), 50kVA (2-4 WAY), 100kVA, 200kVA, 315kVA & 500kVA.		
16kVA (2-6 WAY)	Nº	
25kVA (2-4 WAY)	Nº	
50kVA (2-4 WAY)	Nº	
100kVA	Nº	
200kVA	Nº	
315kVA	Nº	
500kVA	Nº	
Service Connections / Metering		
Supply and Install Conductor - Cable 1kV 2C - Concentric/ Airdac Cu D3140		
4mm², 10mm²	m	
10mm² D3140	m	
20Amp & 60 Amp Prepaid Split Meter (PLC) without Kicker Pole (Pig Tail Bolt)		
20Amp Prepaid Meter to Brick Wall without Kicker Pole	Nº	
20Amp Prepaid Meter to Tin Wall without Kicker Pole	Nº	

20Amp Prepaid Meter to Mud Wall without Kicker Pole	Nº	
60Amp Prepaid Meter to Brick Wall without Kicker Pole	Nº	
60Amp Prepaid Meter to Tin Wall without Kicker Pole	Nº	
60Amp Prepaid Meter to Mud Wall without Kicker Pole	Nº	
20, 60Amp Prepaid Meter - with Shack Pole - [5m Pole], excl. supply of pole, treat as Buy Out if Supplied by Contractor [approval sort before installation].		
20Amp Prepaid to Brick wall	Nº	
20Amp Prepaid to Tin wall	Nº	
20Amp Prepaid Meter to Mud wall	Nº	
60Amp Prepaid Meter to Brick wall	Nº	
60Amp Prepaid Meter to Tin wall	Nº	
60Amp Prepaid Meter to Mud wall	Nº	
20, 60Amp Prepaid Split Meter (PLC) - with Intermediate Kicker Pole [7m Pole], excl. supply of pole, treat as Buy Out if Supplied by Contractor [approval sort before installation].		
20Amp Prepaid to Brick wall.	Nº	
20Amp Prepaid to Tin wall.	Nº	
20Amp Prepaid Meter to Mud wall.	Nº	
60Amp Prepaid Meter to Brick wall.	Nº	
60Amp Prepaid Meter to Tin wall.	Nº	
60Amp Prepaid Meter to Mud wall.	Nº	
Installation of 60Amp Prepaid Split Meter (PLC) only	Nº	
60Amp Prepaid Split Meter (PLC) in an existing meter kiosk (Inclusive of the 80amp Mcb & Live, Neutral jumper, terminal block)	Nº	
Installation of Pole Top Box Only (Refer to D-DT 0363)		
2-4 Way 50A Pole Box	Nº	
5-8 Way 50A Pole Box	Nº	
Remove MCB and replace with 63 Amp. (incl. wire)	Nº	
Minor Works Allowance [materials only]		
Note:		
Labels to be included in Trfr, Switching Points and LV Fuses package.		
All Trfr Earth resistance test to included in cost of package		
LABOUR ONLY		
<u>Preliminaries & General (Exclude SHEQ, %) Inclusive of Site Establishment - If required (This activity includes the establishment of all resources (tools, plant & equipment) on site, the maintenance of facilities on site and the removal of the said facilities and refuse upon the completion of the task/project) SHEQ (CNC)</u>	%	
SHEQ (% of Transport & Labour per task order)	%	
<u>Bush/Tree Trimming</u>		
Bush Clearing - Scattered Bush / Light density (Max. 4²m) get approval from consultant	m²	
Bush Clearing - Thick Bush (Max. 4²m) get approval from consultant	m²	
Treefell & Remove Dia >200mm <500mm	Each	
Treefell & Remove Dia >=500mm	Each	
<u>Excavated Holes</u>		
Depth : 0,8 to 1,0m		
Pickable Soil	Each	
Pickable Rock	Each	
Compressor Rock (Inc. Inv. for Comp, Hose, Moils, Hammers, Fuel, etc.) excl Transport.	per/hole	
Excavated Holes Depth : 1,3 to 1,5m		
Pickable Soil	Each	
Pickable Rock	Each	
Compressor Rock (Inc. Inv. for Comp, Hose, Moils, Hammers, Fuel, etc.) excl Transport.	per/hole	
Excavated Holes Depth : 1,8 to 2,0m		
Pickable Soil - Shoring	Each	
Pickable Rock - Shoring	Each	
Compressor Rock (Inc. Inv. for Comp, Hose, Moils, Hammers, Fuel, etc.) excl Transport	per/hole	
Excavated Holes Depth : 2,0 to 2.5m		
Pickable Soil.	Each	
Pickable Rock.	Each	
Compressor Rock (Inc. Invoice of Comp, Hose, Moils, Hammers, Fuel, etc.) excl. Transport.	per/hole	
Excavated Holes Stay Hole - MV		
Pickable Soil,	Each	
Pickable Rock,	Each	
Compressor Rock (Inc. Invoice of Comp, Hose, Moils, Hammers, Fuel, etc.) excl transport,	per/hole	
Excavated Holes Stay Hole - LV		
Pickable Soil,	Each	
Pickable Rock,	Each	
Compressor Rock (Inc. Invoice of Comp, Hose, Moils, Hammers, Fuel, etc.) excl transport,	per/hole	
<u>Excavations & Backfilling of Trenches</u> only applicable in urban areas, LV or MV cabling.		
Importing Soil from with in - 100m radius (Only for use where trenching takes place in Rock)	m³	
Trench [0.6m deep] Including Backfill/ Compact, Sieving, Import bedding/ blanket soil & installation of warning tape		
Trench/hand .45m wide applicable in urban areas, LV cabling		
Pickable Soil	m	
Pickable Rock	m	
Compressor Rock - excl transport of compressor.	m	
Trench [1.0m deep] Including Backfill/ Compact, Sieving, Import bedding/ blanket soil & installation of warning tape (Only for use where LV cables are to be at 1m depth. "PE" request)	m	
Trench/hand .50m wide applicable in urban areas, MV cabling		
Pickable Soil	m	
Pickable Rock	m	
Compressor Rock - excl transport of compressor.	m	
36m MV & LV Earthing trenching [0.5m deep] including excavation, backfilling and compaction	m	
Trench/hand .45m wide applicable in urban areas, normal Tfr earthing eg. D-DT 1860 series		
Pickable Soil	Each	
Pickable Rock	Each	
Compressor Rock - excl transport of compressor.	Each	
<u>Erect Single Poles/Struts</u> (Plant, erect, compact, backfill & BIL Wiring)		
LV STRUT (only claimed when relocating existing strut pole)		
Vehicle Accessible, - 5-7m Wood, - 8-9m Wood, - 11-12m Wood, - 14m Wood, & 16m Wood.		
5-7m Wood	Each	
8-9m Wood	Each	
11-12m Wood	Each	
14m Wood	Each	
16m Wood	Each	
Vehicle Inaccessible, - 5-7m Wood, - 8-9m Wood, - 11-12m Wood, - 14m Wood, & 16m Wood.		
5-7m Wood.	Each	
8-9m Wood.	Each	
11-12m Wood.	Each	
14m Wood.	Each	
16m Wood.	Each	
<u>Erect H-Poles,</u> (Plant, erect, compact, backfill & BIL Wiring)		

Vehicle Accessible, - H Poles - 11-12m Wood & 13-14m Wood		
11m Structure	Each	
12m Structure	Each	
Vehicle Inaccessible, - H Poles - 11-12m Wood & 13-14m Wood		
11m Structure.	Each	
12m Structure.	Each	
<u>Stringing & Tensioning (MV & LV) - Bare Conductor, ABC 35mm², ABC 70mm², Additional Crimping per Lug / T-joint / Non tension joint. As requested by the Designer</u>		
Bare Conductor	Ph/m	
ABC 35mm²	m	
ABC 70mm²	m	
Additional Crimping per lug / T-joint / Non-Tension joint	Each	
<u>Installation of Cable & Kiosk (Up or Down Grade).</u>		
<u>16 - 50kVA Kiosk, 64 - 100kVA Kiosk, 200kVA Kiosk & 315 - 500kVA Kiosk.</u>		
Install SUPPLY/SOURCE Cable Connection and Kiosk, inclusive of cabling & Strapping		
16 - 50kVA Kiosk	Each	
64 - 100kVA Kiosk	Each	
200kVA Kiosk	Each	
315 - 500kVA Kiosk	Each	
<u>When Upgrading or Down Grading Transformers</u>		
<u>MV - Equipment Mounting Assembly Anti-Climbing Device [Barbed Wire] D-DT0399</u>		
MV - Equipment Mounting Assembly Anti-Climbing Device [Barbed Wire]	Pole	
<u>Install Equipment</u>		
Cable Termination into Kiosk and onto Bus Bar (for loop through of cable) incl. Slack cable as per DT.		
16 to 70mm Cable & 95 to 150mm Cable, - .		
95 to 150mm Cable	Each	
16 to 70mm Cable	Each	
<u>Laying of LV Cables,</u>		
<u>Up to & including 70mm², above 70mm and including 95mm².</u>		
Laying of Cables, Inc. Danger Tape & Bedding)		
Laying of cable LV < 70mm	m	
Laying of cables LV >70mm	m	
MV Cables 50mm²	m	
<u>"Additional Earthing (MV & LV) + Testing</u>		
<u>Lay 5m Bare Copper Wire and 1 earth spike. (Additional material - buy out)</u>		
<u>Additional Earth Resistance Test (As requested by Project Engineering)"</u>		
Earthing and Backfilling	m	
Test earth electrode resistance	Each	
<u>Re-tensioning of Conductor - Loosening of Conductor MV/ SWER Structures: - 1 Phase, - 2 Phase, - 3 Phase, - Strain - Tensioning and Regulating, only applicable when retensioning & Binding In of Conductor/phase/Suspension.</u>		
Loosening of Conductor - 1 Phase	No/Struc	
Loosening of Conductor - 2 Phase	No/Struc	
Loosening of Conductor - 3 Phase	No/Struc	
Strain - Tensioning and Regulating, only applicable when retensioning	per Insul	
Binding In of Conductor/phase/Suspension	per Insul	
<u>Re-tensioning of Stay - Loosening of Stay wire on Strain Structures: - Strain - Tensioning and Regulating, only applicable when replacing a Strain structure bringing down each stay, reinstall, retensioning & Binding In of each stay.</u>		
LV Stay - Tensioning and Regulating. Only applicable when replacing a Strain structure	per Stay	
MV Stay - Tensioning and Regulating. Only applicable when replacing a Strain structure	per Stay	
<u>Sundries as per FDP</u>		
<u>Fit Bird Flappers / Diverters, - Aviation Spheres, - Vibration Damper, - Pole Re-Numbering & Strapping (Buckle Strap).</u>		
Fit Bird Flappers / Diverters	Each	
Aviation Spheres	Each	
Vibration Damper	Each	
Pole Re-Numbering	Each	
Strapping (Buckle Strap)	Each	
<u>Install circuit breaker</u>		
<u>Install circuit breaker single phase, - three phase up to 80 AMP, three phase up to 225 AMP & three phase up to 800 AMP</u>		
Install circuit breaker single phase	Each	
three phase up to 80 AMP	Each	
three phase up to 225 AMP	Each	
three phase up to 800 AMP	Each	
<u>STREETLIGHT MAINTENANCE</u>		
Replacement of bulb	Each	
Replacement of MCB	Each	
Replacement of day-night switch	Each	
Replacement of street light fitting	Each	
Replacement of complete street light (including all activities involved)	Each	
Replacement of street light cover	Each	
<u>Sunday - Maintenance Outages</u>		
The Contractor is expected to shift from normal to overtime to coincide with a maintenance outage on a Sunday. The amount detailed can be claimed for the team having to work on Sunday.		
Additional Time / Team	Day/Team	
<u>Lost time for Approved Outages</u>		
The Contractor is allowed to claim for lost time due to cancellation of Approved Outages when these are cancelled at the last minute due to no fault of the Contractor. The rates calculated on 1 x team cost which will include the following staff [4 x linesmen, 1 x supervisor, 1 x truck driver, 2 x labourers]. The Contractor should negotiate the number of teams required for the cancelled scope and to claim multiple teams as negotiated according to scope of the aborted outage. The cost for the team should be at least a daily rate.	Daily rate	
Time Lost / Team	Day/Team	
Time Lost / Crane Truck	Day/Crane	
<u>Inspection - Clerk of Works</u>		
Should the Project be inspected by an authorised external Clerk of Works and he signs the handover and produces a photograph of the meter as proof of having visited the site, claim the following. This is not for Eskom inspected projects. The Clerk of Works would need to attend the outages for type 2-6, if any, as well. This would be a 1 off cost.		
(Type 1 Connection)	Inspection	
(Type 2 Connection)	Inspection / Outage	
(Type 3-6 Connection)		
<u>Operating / Switching (Module 1-10) excl. Transport</u>		
Low Voltage (Type 1)	Outage	
Low Voltage (Type 2)	Outage	
Medium Voltage	Outage	
<u>Total for Labour only</u>		

Site Visit Assessment (incl. Transport) Check FDP, take-off, spanning sheet, pegs and clearance (Guidance to be provided)	Site visit is allowed to one per team or per task order.	
Type 1 to 6	per/job	
TRAVEL EXPENSES		
- Enter kilo's in colum "AD" and the projects shared in Column "AE" if you need to apportion cost between projects, and specify which		
LDV		
Sector Office - CNC (Work allocated within the nominated Sector)	km	
CNC - Site (Work allocated within the nominated Sector)	km	
Sector office - CNC (Work allocated outside the nominated Sector)	km	
CNC - Site (Work allocated outside the nominated Sector)	km	
	sum	
8 Ton Truck (with Crane)		
Sector Office - CNC (Work allocated within the nominated Sector)	km	
CNC - Site (Work allocated within the nominated Sector)	km	
Sector office - CNC (Work allocated outside the nominated Sector)	km	
CNC - Site (Work allocated outside the nominated Sector)	km	
	sum	
20 Ton Truck		
Sector Office - CNC (Work allocated within the nominated Sector)	km	
CNC - Site (Work allocated within the nominated Sector)	km	
Sector office - CNC (Work allocated outside the nominated Sector)	km	
CNC - Site (Work allocated outside the nominated Sector)	km	
Total for Transport		
NEGOTIATED - Rates to be negotiated		
Excavation		
Drilled Pole Hole - 385mm Dia		
Up to and including 1,5m deep	Each	
Exceeding 1,5m to 2,6m	Each	
Stay Holes (1.5)	Each	
150mm Dia Swer earthing borehole	Each	
POLES/STRUTS		
Permit to Transport		
>12M WOOD	Each	
ERECT H-POLES		
VEHICLE ACCESSIBLE		
>12M WOOD Structure (Permit to Transport)	Each	
VEHICLE INACCESSIBLE		
>12M WOOD Structure (Permit to Transport).	Each	
SUPPLY & INSTALL ACCESS GATES (NEG SIZE) Complete as per Spec.	Each	
Total for Negotiated Items		
DECOMMISSIONING		
DISMANTLING		
Loosening of MV conductor		
1, 2 & 3 Phases.		
1 PHASE	Nº/Str	
2 PHASE	Nº/Str	
3 PHASE	Nº/Str	
Rolling UP/CUT-UP & Removal of conductor from Site	Ph/m	
Removal of circuit breaker		
- Single phase, - Three phase up to 80 AMP., - Three phase up to 225 AMP., - Three phase up to 800 AMP.		
Single phase	Each	
Three phase up to 80 AMP.	Each	
Three phase up to 225 AMP.	Each	
Three phase up to 800 AMP.	Each	
Removal of under ground cable		
- 16-70mm, - >70mm.		
16-70mm	m	
>70mm	m	
BRINGING DOWN OF STRUCTURES		
- STAYS (CUT-OFF), - (TOTAL REMOVAL), - WOODEN POLES & H - POLES.		
STAYS (CUT-OFF)	Each	
STAYS (TOTAL REMOVAL)	Each	
WOODEN POLES	Each	
H - POLES	Each	
DISASSEMBLE STRUCTURES		
- CROSS-ARMS, - A - FRAMES, - MV SA / INSULATORS & LV INSULATORS / ABC ATTACHMENTS.		
CROSS-ARMS	Each	
A - FRAMES	Each	
MV SA / INSULATORS	Each	
LV INSULATORS / ABC ATTACHMENTS	Each	
REMOVAL OF TRFR.		
- 16 - 100 KVA (SINGLE POLE), - 100 - 200 KVA (PLATFORM MOUNTED) & 315 - 500 KVA (5 POLE STRUCTURE).		
16 - 100 KVA (SINGLE POLE)	Each	
100 - 200 KVA (PLATFORM MOUNTED)	Each	
315 - 500 KVA (5 POLE STRUCTURE)	Each	
REMOVAL OF EQUIPMENT		
- Remove of LV Fuse (Mosdorf) & Remove of pistol grip (as Request by Project Engineering).		
Remove of LV Fuse (Mosdorf)	Each	
Remove of pistol grip (as Request by Project Engineering)	Each	
Removal of Supply/Source Cable connection and Kiosk, inclusive of cabling & Strapping		
16 - 50kVA Kiosk, 64 - 100kVA Kiosk, 200kVA Kiosk & 315 - 500kVA Kiosk.		
16KVA - 50KVA Kiosk	Each	
64KVA - 100KVA Kiosk	Each	
200KVA Kiosk.	Each	
315KVA - 500KVA Kiosk	Each	
GROUND MOUNTED KIOSK.		
- 16kVA (2-6 WAY), - 25kVA (2 Way), - 50kVA (2 Way), - 100kVA, - 200kVA, - 315kVA.		
16kVA (2-6 WAY)	Each	
25kVA (2 Way)	Each	
50kVA (2 Way)	Each	
100kVA.	Each	
200VA	Each	

315kVA.	Each	
Removal of Equipment		
- CONCRETE PLINTH (Determined on size), - Conventional meter, - Prepaid meter, - Pole top box, - S1 Airdac, LV Fuseholder (per Set).		
CONCRETE PLINTH (Determined on size)	Each	
Conventional meter	Each	
Prepaid meter	Each	
Pole top box	Each	
S1 Airdac	p/m	
LV Fuse	Each	
Total for Decommissioning		
BUY OUTS (Separate material and Labour items, ie one item per Buy Out). (Only Material is subject to mark-up)	Markup %	
Drilling of earth spikes holes - compressor	Each	
Description		
	Each	
H0 - Support Structure		
H1 - Line Transformer		
G9 - Cable and Conductor		
G5 - Prepaid meter		
SUBSTATION MAINTENANCE		
Crush stoning activity: Weeding	per/sq meter	
Crush stoning activity: ground leveling including any type of soil	per/sq meter	
Crush stoning activity: Treat the soil for weeding - apply herbicide	per/sq meter	
Crush stoning activity: Apply crush stone as per the standard	per/sq meter	
Crush stoning activity: Level crush stone after crushstone has been applied.	per/sq meter	
Crush stoning activity: Removing of existing crush stone.	per/sq meter	
Crush stoning activity: Applying of soft soil or Isabhunga and compacting	per/sq meter	
Crush stoning (including any other type of soil)	per/sq meter	
Aircondition replacement/installation labour only (including any alterations)	per/hour	
Major Services - 1 (one) from Monday to Friday between 8 am and 4 pm) Domestic units	Per service	
Minor Services - 1 (one) for work to be done after normal working hours and Saturdays) Domestic units	Per service	
Package Plants	Per service	
Minor Services - 1 (one) for work to be done on Sundays and public holidays) Domestic units	Per service	
Major Services - 1 (one) for work to be done Sundays and public holidays) Domestic units	Per service	
Back to Back Materials: Galvanised 650mm brackets, Grey trunking & Materials. Copper pipes, sleeving, drain pipes) Max 5m pipe runs (For Installation only)		
9000 Btu	Ea	
12000 Btu	Ea	
18000 Btu	Ea	
24000 Btu	Ea	
30000 Btu	Ea	
36000 Btu	Ea	
36000 Btu - 56000 Btu	Ea	
Additional material (For installation only)		
Outside trunking Grey (75mm x 75mm per length)	p/meter	
Outside trunking White (100mm x 40mm per length)	p/meter	
3/8 "copper pipe c/w insulation (p/m)	p/meter	
1/2 "copper pipe c/w insulation (p/m)	p/meter	
Drain Pipe (p/m)	p/meter	
Labour Technician & Assistant - per hour	per hour	
Travelling Cost	Per km	
Accommodation	Per Night	
Aircondition Supply (Buyout %)	Each	
Electrical work labour only (single /3ph installation and master electrician for DC installation)	per/hour	
Flood light structure repair or replace	Each	
Plumbing work: should be an approved plumber with PiBR	per/hour	
Plumbing work: chassing of the wall and plastering	per/sq meter	
Earth mat installation or earth straps brazing	per/unit	
Earth strap installation: Digging per cubic meter and back filling	cubic/meters	
Earth strap installation: Remove stone and backfilling	per/sq meter	
Earth strap installation: Paint the strapping	per/unit	
Substation breaker/transformer plinths replacement	per/sq meter	
Substation breaker/transformer plinths replacement : remove existing trfm/breaker	per/unit	
Substation breaker/transformer plinths replacement : excavation, backfilling and compaction	per/cubic/meter	
Substation breaker/transformer plinths replacement : removal of plinth	per/unit	
Substation breaker/transformer plinths replacement : cast on site and boxing	per/cubic/meter	
Substation breaker/transformer replacement : Erect structure	per/unit	
Substation breaker/transformer plinths replacement : Drilling & stitching (plinth modification)	per/unit	
Substation paving maintenance (laying of the paving).	per/sq meter	
Substation paving removal	per/sq meter	
Substation kerbing repairs	per/ meter	
Substation wall bund (trfm) and relay room wall : Break and Building	per/sq meter	
Weeding, grass cutting and herbicide application	per/sq meter	
Concrete trench covers (supply and install)	Each	
Concrete trench covers: Remove and disposal of old units	per/unit	
Concrete trench covers: handling of asbestos units and disposal	per/unit	
Transformer earthing: Earth straps brazing	per/meter	
Relay room activities: Painting of walls, ceiling and floors	per/sq meter	
Relay room activities: Prepare the surface by sanding and apply polyfiller	per/sq meter	
Installation of ceilings,glass windows and roofing.	per/sq meter	
Installation of cornice, guttering, fascia boards, ceiling straps	per/meter	
Installation of water Jojo Tanks	per/unit	
Maintanance/ repair of the roof	per/sq meter	
Replacing of doors	Each	
Installation of galvanised steel doors	Each	
Honey sucker	per litre	
Septic tanks maintenance and repairs	per/sq meter	
Mobile toilet rental and maintain	Each/per day	
Repairing of doors, and door components	each	
Substation fencing - install and supply galvininsed palisade including security gates	per/meter	
Substation fencing : Excavation and backfilling	per/hole	
Substation fencing : Repair/maintain of Palisade fencing	per/meter	
Substation yard signs replacement	each	
Substation fencing removal	per/meter	
MV authorised operator switching per day. (Operating sheets as proof)	per/day	
TLB (Digger loader)	per/day	
Access roads work: Filling/topping G5 soil.	per/meter	
Access roads work: excavation, level and compact	cubic/metre	

Access roads work: direct water flow	sq meter	
Access roads work: Install concrete pipes	per/meter	
Access roads work: Gabion baskets installation to prevent soil erosion		
Access roads work: Gabion baskets and fill with approved stones	per/unit	
Line Bore – (Drill under through Roads and Pathways)	per/meter	
Install or Remove Voltage Regulator		
Demolishing HV (66kV and 132kV) Line - Including Poles)	per/structure	
Planting of HV poles (66kV and 132kV) Five pole structure	per/structure	
Planting of HV poles (66kV and 132kV) Latice structure	per/structure	
Planting of HV poles (66kV and 132kV) Mono pole structure	per/structure	
X-arm - HV poles (66kV and 132kV)	per/structure	
Pole numbering HV	per/structure	
Planting or Removing Pole (NO crane vehicle access – Plant/Remove by manual labour)	per/structure type	
Stays and hardware Installation	per/hardware	
Replace insulators 66kV to 132kV Lines (Up to all Insulators on 1 Phase- Costing per phase and excludes when stringing is done)	per/hardware	
MV & HV Line Inspection (All Line Inspections shall be done as per 34-1441 - ROUTINE INSPECTION AND MAINTENANCE OF SUBTRANSMISSION AND DISTRIBUTION LINES. (All lines inspection reports shall be accompanied by the inspectors Training certificate for Line Inspections.))	line length	
Fusing philosophy (Fuse replacing or solid replacing)	per/hardware	
Guard wire - Remove/replace/ install	per/hardware	
Remove and replace other loose attachments (SA, Dead-ends, wreplock etc) MV/HV	per/hardware	
Removal of illegal connections (per airdac)	per/structure	
Flood light in Substation	per/unit	
Remove and replace other loose attachments (SA, Dead-ends, wreplock etc)	per/hardware	
Streetlight repairing (Photocell / MCB / Contactor / Bulb)	per/structure	
Line Inspection 16-32 kVA (All Line Inspections shall be done as per 240-69499676 MAINTENANCE STANDARD FOR LOW VOLTAGE NETWORKS. All lines inspection reports shall be accompanied by the inspectors Training certificate for Line Inspections.)	line length	
Prepaid meter programming	per/unit	
Daily rate applicable to MVLV faults scope		
Labourer per hour (normal)		
Labourer per hour (overtime)		
Labourer per hour (Sunday & Public Holiday)		
Linesman per hour (normal)		
Linesman per hour (overtime)		
Linesman per hour (Sunday & Public Holiday)		
Supervisor per hour (normal)		
Supervisor per hour (overtime)		
Supervisor per hour (Sunday & Public Holiday)		

Document reference	Title	No of pages
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C3.1	<i>Employer's</i> Works Information	
C3.2	<i>Contractor's</i> Works Information	
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Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

C3.1: EMPLOYER'S WORKS INFORMATION

1. Description of the works

1.1 Executive overview

In general, the work covered by this Contract will be for MV/LV Maintenance and Repairs on MV & LV (Overhead aerial bundled conductor, bare conductor lines and underground cable reticulation) in the Cape Coastal Cluster – Eastern Cape.

Full maintenance and repair of the electricity network according to the relevant Eskom standards, and as per scope of work.

1. Description of the works

To provide within Eastern Cape(Dx Cape Coastal Cluster - Eastern Cape) geographical area, Eskom certified competent, qualified and skilled Low Voltage officials / Electricians for the purpose of fault finding and restoring of customers supplies on the low voltage systems (1000v and below). The faulting finding will be from the controlling transformer fuses to the prepaid meters within the customer premises.

Maintenance and Repairs will be conducted in line with the Eskom standards and procedures for safe working on the medium voltage systems and standards for low voltage line construction and maintenance.

Maintenance and Repairs will vary but not limited to; - wood pole replacement, low and medium voltage maintenance, fuse/ MCB replacements, ABC or airdac replacement, replacement of connectors, pole top boxes, poles, street lights and prepaid meters. Repairs of Medium Voltage broken poles, conductors, stringing and tensioning, including transformers and all associated components.

Base: Base as referred to in this contract refers to the Sector Office, for all Task Orders the travelling distance will be calculated from the Sector Office.

Authorisation:

All maintenance work that will be executed will require an authorisation, Outcome 3 to take a permit to work on MV Networks and Low Voltage for low voltage networks.

Material:

10% handling fee will be paid for material purchased by Contractor.

Work Allocation Instruction:

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

A contractor will be afforded 2 (two) working days to advise the employer of acceptance or rejection of a Work Allocation Instruction.

Failure to advise the employer of acceptance/rejection will be deemed to mean rejection of the works and the Work Allocation Instruction will be allocated to another Contractor.

Price adjustment for inflation:

The prices will be fixed and firm rates for the first 12 months of the contract. At the anniversary date of the contract the prices will be adjusted by Contracts Management team for inflation using CPA. The relevant publications to be used are published by the SIEFSA.

Financial Breakdown – for budget purposes the province has been split into zones and the following will be financial applicable

Zone	CNC
Port Elizabeth	Adelaide
	Albany
	Alexandria
	Craddock
	Uitenhage
	Humansdorp
	Joubertina
	Graaff Reinet
East London	Dutywa
	Butterworth
	Toleni
	King Williamstown
	Coastal
	Alice
	Peddie
Aliwal North	Matatiele
	Mount Ayliff
	Bizana
	Lusikisiki
	Tsolo
	Elliot
	Sterkspruit
	Aliwal
Mthatha	Port St Johns
	Mthatha North / South (both)
	Mqanduli
	Elliotdale
	Ngcobo
	Cofimvaba
	Cala
	Lady Frere
	Queenstown

Project Management Breakdown – for project management purposes the Eastern Cape Operating Unit has been split into Sectors, which have been further broken down in sub areas.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

Project Management Breakdown – for project management purposes the Eastern Cape Operating Unit has been split into Sectors, which have been further broken down in sub areas.

Zone	Sector	CNC
Port Elizabeth	Grahamstown	Adelaide
		Albany
		Alexandria
		Craddock
	Uitenhage	Graaff Reinet
		Humansdorp
		Joubertina
		Kirkwood
East London	Butterworth	Uitenhage
		Butterworth
		Dutywa
	East London	Toleni
		Alice
		Bulembu
		Coastal
		King Williams town
Aliwal North	Matatiele	Bizana
		Flagstaff
		Lusikisiki
		Matatiele
		Mount Ayliff
		Mount Frere
	Aliwal North	Aliwal North
		Elliot
		Sterkspruit
		Tsolo
Mthatha	Lukhanju	Cala
		Cofimvaba
		Lady Frere
		Ngcobo
		Queenstown
	Mthatha	Elliotdale
		Mathatha North
		Mqanduli
		Mthatha South
		Port St Johns

General Specifications:

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

Health and Safety requirements		latest	
Environmental requirements		latest	
Site regulations and access control		latest	
Section 37(2) Agreement between Eskom and Contractor		latest	
Generic Distribution Environmental Management Program for power Lines and Substation		latest	
Public Finance Management Act		latest	No
Occupational Health and Safety Act	Spec	latest	No
Compensation for Occupational Injuries and Disease		latest	
Safety Risk Management Process Manual	Manual	latest	No
Co-Ordination of safety on capital projects	Procedure	latest	No
OHS Act requirements to be met by principal contractors employed by Eskom Distribution	Procedure	latest	Yes [Contractor Must sign]
Identifying, analyzing, documenting and observing dangerous/hazardous tasks.	Procedure	latest	No
Pre-Task Planning and Feedback process	Procedure	latest	No
Procedure for refusal to work on the grounds of health, safety and environmental concerns.	Procedure	latest	No
Access to farms	Guide	latest	No
Transporting person on back of vehicles	Bulletin	latest	Yes

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

Expanded Public Works Report – Divisional Capital Programme	Spec	latest	Yes
<u>Technical specifications:</u>			
NWS 1058 - SAFETY AT CONSTRUCTION SITES: REQUIREMENTS TO BE MET BY CONTRACTORS		latest	YES
NWS 1494 - FIRE PREVENTION AND PROTECTION OF CONTRACTOR'S PREMISES ON NEW WORK SITES		latest	YES
HV REGS - HV REGULATIONS FOR HV SYSTEMS		latest	YES
ESK PVAAL7 - ENVIRONMENTAL IMPACT ASSESSMENT		latest	YES
DPC 34-227/SCSPVABB2 - - RISK ANALYSIS / JOB PLANNING		latest	YES
34-1192 22kV OVERHEAD RETICULATION		latest	YES
SCSASABB6 - 19kV SWER RETICULATION PLEASE REVIEW NOT FOUND		latest	YES
SCSASABL6 - GENERAL INFORMATION AND REQUIREMENTS FOR MEDIUM-VOLTAGE		latest	YES
SCSSCAAX8 - CABLE JOINTING KITS FOR POWER AND CONTROL CABLE WITH RATED VOLTAGE 600/1000 V		latest	YES
ESKPVAAZ1 ENVIRONMENTAL MANAGEMENT PLAN PROCEDURE.		latest	YES
SCSASAAW8 STANDARDS APPLICABLE WHEN WORKING IN CLOSE PROXIMITY TO LIVE LINE WORK		latest	YES
ALL RELEVANT DISTRIBUTION TECHNOLOGY STANDARDS FOR SPECIFICATIONS, DRAWINGS, TECHNICAL BULLETINS & SOUTHERN REGION STANDARDS FOR MV & LV WORK E.G. DISTRIBUTION STANDARD PART 2: EARTHING SECTION 1: MV & LV RETICULATION EARTHING		latest	YES
SCSPVABN2 TRAINING, TESTING AND AUTHORIZATION FOR OPERATION & MAINTENANCE.		latest	YES
DISASAAM2 - DISTRIBUTION STANDARD PART 3: LOW-VOLTAGE RETICULATION SECTION 1: LOW-VOLTAGE OVERHEAD RETICULATION		latest	
DST_34-1191 - GENERAL INFORMATION AND REQUIREMENTS FOR OVERHEAD LINES UP TO 33kV.		latest	
DST_34-1192 - LIGHT CONDUCTORS PARTICULAR REQUIREMENTS FOR OVERHEAD LINES UP TO 33kV WITH CONDUCTORS UP TO HARE CONDUCTOR.		latest	
DST_34-225 - PARTICULAR REQUIREMENTS FOR AUXILIARY EQUIPMENT AND STRUCTURES UP TO 33kV.		latest	
DST_34-453 - DISTRIBUTION STANDARD PART 4: MEDIUM VOLTAGE RETICULATION SECTION 4: SWER PARTICULAR REQUIREMENTS FOR 19kV SINGLE WIRE EARTH RETURN (SWER) OVERHEAD RETICULATION		latest	
DISASAAS3 - DISTRIBUTION STANDARD PART 8: LOW-VOLTAGE SERVICES SECTION 1: ELECTRIFICATION		latest	
DISASAAQ5 - DISTRIBUTION STANDARD PART 8: SERVICES SECTION 2: SCHOOLS.		latest	

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

DST_34-305 - DISTRIBUTION STANDARD PART 8: SERVICES SECTION 3: OUTDOOR LOW-VOLTAGE SERVICES FOR SMALL POWER USERS AND LARGE POWER USERS	latest	
DST_34-1175 - GENERAL INFORMATION AND REQUIREMENTS FOR MEDIUM-VOLTAGE CABLE SYSTEMS	latest	
DST_34-937 - INSULATION REQUIREMENTS FOR MEDIUM VOLTAGE CABLE-CONNECTED EQUIPMENT WITH AIR-FILLED ENCLOSURES	latest	
DST_34-1176 - DISTRIBUTION STANDARD PART 22: CABLES SECTION 0: GENERAL INFORMATION AND REQUIREMENTS FOR LOW-VOLTAGE CABLE SYSTEMS.	latest	
SCSASAAL9 & AMENDMENT 1 STANDARD: MV & LV EARTHING.	latest	
FIRST AID STANDARD LEVEL 2		NO
34-146 -OPERATING REGULATIONS FOR HIGH VOLTAGE SYSTEMS	LATEST	YES
34-164 - PORTFOLIO OF EVIDENCE FOR AUTHORISATION	LATEST	
BUILDING LINE RESTRICTIONS, SERVITUDES WIDTHS, LINE SEPARATIONS AND CLEARANCES FROM POWER LINES		
SRTB007/2008 Prepayment Toolless Tool		

SCSASABZ1 – HANDING OVER DOCUMENTATION FOR

TECHNICAL INSTRUCTION : 04TI-20 [REV 0] - COMMISSIONING TESTS FOR NEWLY INSTALLED MV, IV AND LV CABLES

TECHNICAL INSTRUCTION 01TI-04 [REV 0] - MANDATORY COMMISSIONING TESTS FOR NEW INSTALLATIONS

SCSPVACP8 REV 0 - SAFETY PROCEDURE FOR PLANNED REFURBISHMENT/ DISMANTLEMENT OF MEDIUM & LOW VOLTAGE OVERHEAD WOOD POLE POWER LINES

SCSPVACP7 REV 0 - PROCEDURE FOR THE DISMANTLING OF MEDIUM & LOW VOLTAGE POWER LINES ON WOOD POLE STRUCTURES

DISPVAEH0 REV 0 - PROCEDURE FOR THE MANUAL REPLACEMENT OF A ROTTEN WOODEN POLE STRUCTURE

CUTTING AND REMOVING A SECTION OF DOWN- RUNNING EARTHWIRE ON WOOD POLE STRUCTURE TO INCREASE THE BIL USING LIVE WORK GLOVING METHOD

THE INSTALLATION OF ANTI- CLIMBING DEVICES AND THE WITHDRAWAL OF GALVANIZED STEEL ANTI – CLIMBING SPIKES

LATEST YES LATEST

LATEST LATEST

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4. Constraints on how the Contractor Provides the Works

- ☐ All work and finishes are subjected to ESKOM's quality control and acceptance to all trades.
- ☐ All work is to be done as per specifications.
- ☐ The Employer will supply the Contractor with a Task Order.
- ☐ It expected from the Contractor to report to the CNC before starting work.
- ☐ It is expected from the Contractor to do a site visit and verify the scope of work and assess the conditions on site.
- ☐ It is expected from the Contractor to give feed back to the TSO on the condition found on site.
- ☐ It is expected from the Contractor to do a level risk assessment according to the Employer's Performance.
- ☐ It is expected from the Contractor to do the whole of the work as per timeframe set in the Task Order.
- ☐ It is expected from the Contractor to be responsible for the collection and transport of all necessary material e.g. (Transformers, Poles & X arms, Conductor, Meters & Meter kiosk etc) from any and /or all Eskom TSC's
- ☐ It is expected from the Contractor to take delivery of all necessary material (e.g. Transformers, Poles & X arms, Conductor, Meters & Meter kiosk etc) to the relevant sites.
- ☐ It is expected from the Contractor to do the erection, dressing, stringing, tensioning, and making-off, and complete maintenance or repair of electrical reticulation (MV and LV) in the ECOU as per Task Orders issued.
- ☐ This will from time to time include dismantling and disassembling (and the return of all material to Eskom's nearest warehouse) of specified lines and its attached equipment. Where necessary, servitude bush clearing and the installation of servitude gates will also have to be undertaken.
- ☐ The lines to be maintained or repaired will be defined in terms of the relevant spanning sheets which will be issued with each Task Order.
- ☐ The work will be located in Eskom ECOU area of supply.
- ☐ The Contractor will be reimbursed for all activities undertaken as well as the actual distances travelled between base, the Eskom TSC store and the site in order to arrive there initially and return to base or proceed to the next site at the completion of the relevant installation as per the Task Order.
- ☐ The distance travelled to be calculated from the Sector office to relevant CNC.
- ☐ The Contractor should have the necessary authorization to work on network unsupervised.

4.1 Use of standard forms

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

Contracting parties must use NEC standard forms available in the Eskom Intranet for administration of the contract.

4.2 Invoicing and payment

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

The Contractor includes the following information on each tax invoice:

- Name and address of the Contractor
- The contract number and title;
- Contractor's VAT registration number;
- The Employer's VAT registration number 4740101508;
- The total Price for Work Done to Date which the Contractor has completed;
- Other amounts to be paid to the Contractor;
- Less amounts to be paid by or retained from the Contractor;
- The change in the amount due since the previous payment being the invoiced amount - excluding VAT, the VAT and including VAT;
- (add other as required)

The Contractor attaches the detail assessment of the amount due to each tax invoice showing the Price for Work Done to Date for each item in the Price List for work which he has completed.

All material purchased by the Contractor will be paid once they have been installed.

10% handling fee will be paid for all material purchased by Contractor.

Financial records are to be kept by the Contractor on any additional items not included in the original Scope of Works/Activity List.

A Frequency Rate of Invoicing is to be submitted with the main offer.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

4.4 Records of Defined Cost

In order to substantiate the Defined Cost of compensation events, the Employer may require the Contractor to keep records of amounts paid by him for people employed by the Contractor, Plant and Materials, work subcontracted by the Contractor and Equipment. A site diary will be required.

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

The Contractor complies with and fulfils the Contractor's obligations in respect of the Accelerated and Shared Growth Initiative - South Africa in accordance with and as provided for in the Contractor's ASGI-SA Compliance Schedule stated below

.

[Insert the agreed ASGI-SA Compliance Schedule here]

The Contractor shall keep accurate records and provide the Employer with reports on the Contractor's actual delivery against the above stated ASGI-SA criteria. [Elaborate on access to and format of records and frequency of submission etc.]

The Contractor's failure to comply with his ASGI-SA obligations constitutes substantial failure on the part of the Contractor to comply with his obligations under this contract.

4.6 BBBEE and preferencing scheme

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

4.7 Facilities to be provided by the Contractor

Resources to Execute Works

4.8 Title to material from excavation and demolition

All material including old material belongs to Eskom, and should be returned to Eskom's CNC.

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5. Requirements for the programme

The works are to be completed in according to specifications in all respects and ready for take – over by the Employer within the stipulated time frame.

6. Services and other things provided by the Employer

This contract will be used to provide for planned and breakdown maintenance on the Employer's 66kV and 132kV Feeders on an as-and-when required basis and according to the Employer's discretion.

Interpretation and terminology

The following abbreviations are used in this Works Information:

1.2 High Level Scope of Work

- Provision of Maintenance and Breakdown to 66kV and 132kV Feeder and Cable Contract in the Cape Coastal Cluster (Eastern Cape Complete all quality documentation and mark up any changes to drawings.

1.3. Task Order Process:

- Task orders shall be issued to the applicable Contractor by the Employer's Representative.
- Task order shall include:
 - Detail of the project
 - Site Location of the project
 - Required start and completion dates of the project.
 - Site specific risk assessment (Health and Safety) and an Environmental Management Plan (EMP). The Contractor will be expected to return the task order with the safety file within the period for reply.(delete)
- Purchase Order Number (i.e., 45-number)
- WBS Number
- SAP ID number of Employer's Representative (delete)

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- Construction execution checklist (delete)
- Any discrepancies picked up by the Contractor regarding the Works/Purchase Order must immediately be brought to the attention of the Employer.
- Should any changes be required during the construction (delete and replace with work execution period) period, the Contractor should bring this to the attention of the Employer(delete and replace with CNC Snr Supervisor)/Project Manager. Only once approval has been granted via a written instruction(delete and replace with signed revised task order), can the Contractor proceed with these changes.
- Work can only commence once the Contractor is given a valid 45 number

The Contractor shall accept or negotiate task orders within the period for reply (2 working days). All work indicated on the task order shall be completed by the completion date as

2. General

- Material for the proposed projects supplied by the *Contractor* shall be in accordance with the latest revision of Eskom's Distribution Standards (Buyer's Guide), project drawings and specified Bill of Materials
- The onus is on the *Contractor* to obtain the latest revision of standards and procedures applicable.
- Damage caused to Eskom or public property as a result of negligence and/or non-compliance by the *Contractor* will be for the *Contractor's* own account.
- The *Contractor* should at all times inform the Employer's Representative and the Clerk of Works of any activity that he will be carrying out on site i.e. excavations etc
- Specialised Services may be required during the term of this contract. These services may be acquired via Subcontracting. The Contractor is to note the conditions for subcontracting contained in this contract.
- The *Contractor's* invoice(s) reflecting the cost of specialist services provided shall have a copy of the specialist services provider's invoice attached.
- The *Contractor's* invoice(s) shall reflect all the invoice(s) for material purchased attached.
- Proof of any cost on the *Contractor's* invoice(s) shall be submitted to the *Employer's* Representative.
- All penetrations through walls and slabs shall be sealed with an approved fire-retardant sealer as per SANS 10400 T 2004 once the Works has been completed and approved by the Employer's Representative.

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

3. Compensation Events and Overtime

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

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

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

4. Inspections

- The *Contractor* shall complete the standard Eskom quality check sheets in conjunction with the *Employer*, Clerk of Works and Project Engineer and ensure compliance prior to requesting the *Employer*, Clerk of Works and Project Engineer to inspect.
- All additional costs for non-compliance requiring additional inspections will be borne by the *Contractor*.
- The *Contractor* shall notify the *Employer* and Clerk of Works at least 5 working days prior to requiring an inspection. A date and time will be arranged to meet on site and conduct such an inspection. The *Employer* and Clerk of Works will keep a formal signed off checklist of the inspection on record.

5. Employer's objectives and purpose of the works

The Eskom Project Manager will contact the allocated Contractor and issue the Contractor with the design package for the project to be executed. A Task Order will be issued as well, which will detail all the project specific requirements for execution of the project. The Task Order 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 Task Order 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 with the Eskom project representatives and verify the scope of work to be executed contained in the design 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 quotation must be submitted to the Project Manager by the Contractor within 7 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 the quotation has been accepted by Eskom, the Project Manager will issue the allocated Contractor with a Task Order for the project which will contain a Task Order Number. The Task Order will then be signed off by the Project Manager and the Contractor and work may then commence on the project.

Note: No work may commence on a project unless the Task Order has been issued and 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 Task Order Number has been issued and Task Order signed.

The Contractor is to submit the Project Specific Safety File within seven 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.

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It is expected from the Contractor to do the whole of the work as per time frame set in the Task Order, 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 on 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 and equipment dedicated to the project will not be removed from site until there is no use for the intended plant and equipment. No moving of plant and equipment between projects will be allowed 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 until it has been installed. Records of defined costs are to be kept on file on site whereby the *Project Manager* has access to this file at all times. Storage of material for any project will be done at the earmarked project site, however where this is not practical for safety reasons i.e. high risk of theft, the material will be stored off site at the Contractors premises. Note that the same material management procedure would apply to material stored off site.

6. Constraints on how the Contractor Provides the Works

Insurances

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

Authorisations

- The nature of this contract scope requires authorisation as works will be performed within or close proximity of “live” conditions. It is therefore the responsibility of the Contractor to ensure that he maintains his authorisation for the full duration of this Contract. There are limited projects that do NOT require authorisation and as a result, should the supplier not have authorisation, there is no guarantee that works/purchase order request will be issued.

Material and Bill of Quantities

- The Contractor shall supply all required materials to complete the works and deliver it to site or Contractor's store unless otherwise agreed. All dismantled and unused

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material, unless otherwise instructed by the Employer, shall be disposed at a registered waste site.

Supply of ad hoc material by Contractor:

- In the event that Eskom cannot procure material for any of the projects executed under this contract within the required timeframes, the Contractor will be requested to submit a quotation/s in order to supply this material. The Employer will assess the quotation and provide an instruction to proceed with the procurement of such material. Contractor will only be reimbursed for material purchases upon submission of the actual supplier invoice. This should be submitted with the Contractor's progress claims.

Storage of all material.

- Contractors should have sufficient space and capacity at their facilities to store all material related to this project.
- Contractors take full accountability of all materials (as well as the replacement and management thereof).
- Contractor to adhere to good housekeeping practises when storing material.

Site Establishment and De-establishment

- The *Contractor* will be required to establish a Site Office on Site where meetings can be held and will ensure that basic amenities are available, such as a table and chairs.
- *Contractor* to clear and de-establish total site on completion of proposed *works*.
- *Contractor* is required to collect, load and cart away all rubble and surplus demolished *works* and dispose thereof at a registered waste site
- Contractor to always apply good housekeeping.
- Contracts shall ensure the safety of site public and all employees through the provision of security guards.
- Where applicable, Site Establishment will make provision for costs to be incurred by the *Contractor* to ensure adherence to the Environmental Management Plans and other Specifications attached to this contract.
- The Site Management Plan to be submitted and approved by the Eskom representative/Project Manager for the specific works order within 7 days after Works/Purchase Order is awarded. NOTE: Only required when there is a physical site establishment. This plan to be signed off with the Works/Purchase Order at the

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Site Handover meeting. A template for the “site management plan” will be provided to the contractor as the start of this contract.

- Security and safeguarding of the site will form part of site establishment.

Interaction with Customers / Parties affected

- The Contractor may exercise the option to use a Liaison Officer (e.g. CLO – Community Liaison Officer) for interaction with Customers or parties affected. The onus is on the Contractor to liaise with the Ward Councillor to acquire the relevant CLO
- The Contractor will be responsible for external disputes which may occur with regard to the works.

Carrying out the works

- The Scope of “Works” is an extension of the drawings, specifications and bills of quantities listed. The *Contractor* shall notify the *Employer* of any discrepancies before commencement of the work.
- The *Contractor* shall familiarize himself with all existing services (water, electricity, sewage, etc) prior to starting of the works.
- The onus is on the *Contractor* to obtain the latest revision of standards applicable at the time of issue of the Works Order.
- The *Contractor* is required to supply all labour, plant, equipment, loose tools and transport for the duration and completion of the project.
- The *Contractor* to use local labour at various sites as encouraged by the Department of Public Works in their latest document “**Framework for the Implementation of Labour-Intensive Projects under the Expanded Public Works Programme (EPWP)**”. The Contractor to ensure liaising and meeting with the relevant Ward Councillor to obtain Community Liaison Officer (CLO) to assist in acquiring localised labour as required by the EPWP.
- *Contractor* to provide breakdown of all costs for the execution of the works of the complete project.
- The *Contractor* must immediately notify the *Employer* in writing of scope and compensation events.
- The *Contractor* will report all obstacles or risks on site that could impact on time, cost, quality, environmental as well as health and safety in writing to the *Employer*. In the event of an emergency, the *Contractor* will report the incident immediately to the *Employer*.
- The *Contractor* shall ensure that all Construction work is carried out in accordance with all other statutory requirements applicable to the area.
- The *Contractor* is responsible for providing all PPE for the duration and completion of this contract per project. Contractor should provide a list of their permanent staff as well as submit copies of the ID docs of the temporary staff whom they will provide PPE for.

Expanded Public Works Programme (EPWP)

- The contractor must report all local/temporary labourers employed in a project. The cost of employing such labour will be inclusive in the activity/item in the price list. No additional costs will be paid.
- The contractor is to submit the completed EPWP report with the submission of each progress claim.
- The contractor must submit REV 7 EPWP report together with the assessment claim for payment. This template could change during the course of this contract and the latest applicable template should apply at all times.

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- The contractor is responsible for assisting Eskom in reporting all work done.
- No payment will be certified without the required report being submitted.

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

- The Contractor must submit this report with each payment assessment claim.
- The Contractor is required to submit a monthly Man-hours report for work done on all task orders.
- No payment will be certified unless this report is submitted.

Subcontracting

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

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

IMPORTANT NOTE: The principal Contractor is not allowed to subcontract 100% of the scope of work to his subcontractor. In reference to Panel/term contracts; a Principle contractor may not subcontract work to another Contractor on the same panel.

8.11.1 Subcontractor requirements

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

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

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

Retention

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

It shall be used as a reference document for monitoring, measuring and reporting on the supplier's progress in delivering on their stated SDL&I commitments. Contract Manager shall provide a copy of the plan and the contract at contract award.

7. Invoicing and payment

PAYMENT PROCESS

Invoice Inclusions:

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

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

In addition;

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

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

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

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

6. The **quantity** or **volume** of goods or services supplied.
7. Ensure that the Eskom Purchase Order Number is clearly indicated on your invoice together with the line number on the order you are billing for

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8. Where the supply is subject to VAT at the standard rate, the following in Rand:

- The pre-VAT value, VAT amount and consideration OR
- The total consideration with a statement that VAT is included @15% OR
- The total consideration and the Rand amount of VAT charged.

Invoice Submission:

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

Follow-up with Finance Shared Services (FSS):

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

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

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

8. Performance Management

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

9. Acceptance of Eskom SHEQ Policies and Procedures

For access to Technical drawings please contact Brenda Morrison at 011 629 5266 [/Brenda.morrison@eskom.co.za](mailto:Brenda.morrison@eskom.co.za) for access to the PDE Scot Website.

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

<u>NO</u>	<u>UNIQUE IDENTIFIER</u>	<u>REVISION</u>	<u>DOCUMENT TITLE</u>

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

1	32 - 727	0	SAFETY, HEALTH, ENVIRONMENT AND QUALITY (SHEQ) POLICY 32-727
2	32 - 136	0	CONSTRUCTION SAFETY HEALTH AND ENVIRONMENTAL MANAGEMENT
3	32-524	0	DEVELOPING A SAFETY, HEALTH AND ENVIRONMENTAL SPECIFICATION
4	34 - 333	1	HEALTH AND SAFETY REQUIREMENTS TO BE MET BY PRINCIPAL CONTRACTORS EMPLOYED BY ESKOM DISTRIBUTION 34-333
5	ESKOM LIFE SAVING RULES	1	ESKOM LIFE SAVING RULES 240-62196227
6	CONSTRUCTION REG 3		NOTIFICATION OF CONSTRUCTION WORK TO DEPARTMENT OF LABOUR
7	CONSTRUCTION REG 4 & 5		APPOINTMENT LETTERS FOR CLIENT REPRESENTATIVE, PRINCIPAL CONTRACTOR & CONTRACTOR
8 & 9	OHS ACT	1	WRITTEN AGREEMENT ON OHS ACT SECTION 37(2) & STANDARD CLAUSE
10, 11 & 12	34 - 1063	0	EXPANDED PUBLIC WORKS REPORT 34-1063.
13	<u>DST 34-961</u>	0	LEGAL APPOINTMENTS AND AUTHORIZATIONS
14	TPC 41-55		TRANSPORTING PERSONS ON BACK OF VEHICLES
15	LTIR	MASTER	LOST TIME INJURY REPORT
16	5. Contractor Performance Evaluation	MASTER	
17	6. Supplier Contract Quality Requirements	MASTER	
18	7. Hard Hat Specifications 01/12/ OHS	MASTER	

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

19	8. Identifying, Analysing, Documenting and Observing Tasks according to Criticality.	REV 1	
20	9. Health & Safety Representatives inspection reports and guidelines	REV 1	
21	10. Work at Heights Procedure	REV 1	
22	11. SHE Requirements for the Eskom Commercial Process	REV 1	
23	12. Vehicle Safety	REV 0	
24	13. 32-95 Environmental Occupational Health and Safety Incident Management Procedure	REV 5	
25	14. Risk Audit System Template	REV 0	

Acknowledgement by Contractor

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

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

SIGNED AT: ON THE DAY OF20.....

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

10. Management meetings

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

Title and purpose	Approximate time & interval	Location	Attendance by:
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Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

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

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

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

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

11. Documentation control

All correspondence is to be addressed to the Project Manager with a chronological numbering system

12. Health and Safety Management

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

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

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

No person may work on any electrical network unless:

- He / she is trained and authorised as competent for the task to be done.
- A pre-task risk assessment to identify all risks and hazards must be conducted prior to any work commencing.
- An equi-potential zone is created for each worker on the job site by earthing, bonding and/or insulating according to approved divisional procedures.
- All conducting material is connected together, all staff onsite wear electrical safety shoes and insulating techniques are applied according to standards.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

- The authorised person (Team leader) has certified and shown all team members that the apparatus is safe to work on. He / she is trained and authorised as competent for the task to be done.
- *Contractor* to take precautionary measures when working in close proximity to other power lines.
- Jumper covering is provided to serve as an overhead jumper protection covering above solid cut-outs to reduce bird electrocutions.

RULE 2 : **HOOK UP AT HEIGHTS**

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

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

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

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

RULE 3 : **BUCKLE UP**

No person may drive any vehicle on Eskom business:

Unless the driver and all passengers are wearing seat belt

RULE 4: **BE SOBER**

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

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

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

RULE 5: ENSURE THAT YOU HAVE A PERMIT TO WORK

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

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

SHEQ REQUIREMENTS:

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

- Commitment to safety, health and environmental excellence
- Conduct business with respect and care for people and minimise or avoid impact on the environment
- Compliance to environmental legislation, conditions of Environmental Authorisations and requirements set out in environmental management plans
- Acceptance that all injuries and occupational illnesses, as well as safety and environmental incidents are preventable
- Report, respond to, investigate, close-out, and share learning from safety and environmental incidents
- That SHE is an integral part of your operations and that:
 - no operating condition, or urgency of service, can justify endangering the life of anyone or cause injury or damage to the environment

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

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.



Other Health & Safety Requirements:

- **The Contractor shall comply with:**
 - The **Occupational Health and Safety Act, 1993**, and all regulations made there under as per the standard clause Z6, stipulated on page 16 of this contract.
 - The **Construction Regulations, 2003**.
 - The Health and Safety Requirements of the *Employer* more fully set out in Distribution Standards **34-333** (The Contractor will sign page 36 of the specification as acknowledgement of receipt and adherence)
 - All Eskom Safety and Operating Procedures as outlined in the **ORHVS (Operating Regulations on High Voltage Systems)** and the standards attached to this document i.e. 34-145 and 34-146.
 - The Contractor shall ensure that the Site Supervisor has a valid and applicable ORHVS Authorisation. Should a Contractor be in the process of having an in-house employee authorised, then he should indicate by schedule as to when the person will be fully authorised. This however should be finalised before tenders are evaluated and proof thereof provided.
- The Contractor shall ensure that the Contractor's Responsible Person shall supervise the works at all times and be available to take permits where necessary.
- The Contractor shall appoint a person who will liaise with the Eskom Safety Officer responsible for the premises relevant to this contract.
 1. "LEGAL COMPLIANCE TO CONSTRUCTION REGULATIONS 2014 Regulation 8(5 and 6)

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

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

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

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

- The person so appointed shall:
 - supply the Eskom Safety Officer with copies of minutes of all Health and Safety Committee meetings (if relevant), on a monthly basis.
 - supply the Eskom Safety Officer with copies of all appointments in respect of employees employed on this contract, in terms of the Act and Regulations and shall advise the Eskom Safety Officer of any changes thereto – to be handed over to the *Employer* prior to construction start.
- Eskom may, at any stage during the currency of this agreement, be entitled to;
 - do safety audits at the *Contractor's* premises, its work-places and on its employees;
 - refuse any employee, sub-contractor or agent of the *Contractor* access to its premises if such person has been found to commit any unlawful act or any unsafe working practice or is found to be not authorized or qualified in terms of the Act
 - issue the *Contractor* with a work stop order or a compliance order should Eskom become aware of any unsafe working procedures or conditions or any non-compliance with the Act, Regulations and Procedures referred to in 1 above by the *Contractor* or any of its employees, sub-contractors or agents.
- No extension of time will be allowed as a result of any action taken by Eskom in terms of the above and the *Contractor shall* have no claim against Eskom as a result thereof. Furthermore, no amendments to the Act or the Regulations or reasonable amendment to Eskom's Safety and Operating Procedures will entitle the *Contractor* to claim any additional costs incurred in complying therewith from Eskom.
- The *Contractor* shall be responsible for all expenses incurred to ensure adherence to Health and Safety Regulations as stipulated above which includes but is not restricted to ORHVS training courses, etc.
- 2.
-
- Typically, the identified risks as listed in the "Health & Safety Specification" for this contract which could endanger persons/*works* as per scope of work to be completed by the *Contractor*. Specific risks, related to this project are as follows:

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

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

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

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

Compensation for Occupational Injuries and Diseases (COLD) Act

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

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

13. Quality of workmanship

- The *Contractor* is required to employ a competent Supervisor or Foreman on site for the duration of the project to implement workmanship quality checks. The Supervisor

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

/ Foreman appointed by the *Contractor* must be authorized to take a permit in terms of ORHVS and working earths.

- Eskom will do inspections and quality checks on installations completed by the *Contractor* prior to hand-over of each project.

14. Environmental Management

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

15. Construction Safety

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

16. Handover on completion

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

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

4. All relevant test readings, including earth readings shall be indicated by the Contractor on the Handover Documentation. All test readings shall be done according to Eskom Specifications and Standards.

17. Environmental constraints and management

The Contractor shall control its activities and processes in accordance with Environmental Requirements for the Procurement of Assets, Goods and Services and Cape Coastal Cluster Environmental Management System procedure 240- 77731322. The Eskom Environmental Management Plan provides the aspects and impacts that will require management and must be followed strictly. The Contractor is to prepare a site specific separate EMP for all environmental- risks that might arise and any changes to the approved plan shall be reported and be approved by the Eskom Environmental Control officer (ECO) and Project Manager prior to the commencement of work.

In addition, the Contractor is required to ensure that all goods, services or works supplied in terms of this Works Information also conform to all applicable environment legislation(s), Safety, Health, Environment and Quality Policy, EPC32-727; SHE Requirements for the Eskom Commercial Process, ST32-726; (and additional requirements). The Contractor shall comply with the environmental criteria and constraints stated in Section 1.3.2.

When required, the Contractor must ensure that all Subcontractors' EMP comply with legal and other requirements and also includes all the environmental risks associated with the scope of work. The Main (Principal) Contractor shall define the specific risks applicable to the Subcontractor's scope of work

The Contractor is to send a initial flash report for any environmental incidents that have occurred on site as soon as possible or within 24 hours to the Eskom Environmental Control officer (ECO) and Project Manager clearly stating any impact to the environment.

No environmental records shall be destroyed or discarded by the Contractor. Eskom as the Employer and the Contractor shall agree that the Contractor retains certain environmental records. Waste generated during the course of the project must be disposed at a registered landfill site and the Contractor shall retain records of disposal and submit a waste report to the Eskom environmental officer (ECO).

Deviations from these requirements will be regarded as a non-conformance. Should there be concerns regarding environmental performance and non-conformance to environmental requirements, management engagements and interventions will be introduced to determine a means to addressing the shortfalls. Once these interventions have been explored and exhausted, then the Eskom Supplier Disciplinary Process will be followed.

The cost to the Contractor to ensure that waste is disposed of at a registered landfill site and all relevant costs payable to the landfill site as well as safe storage of all equipment which will be removed and replaced from site which will be transported upon instruction to the nearest designated disposal site within the Western Cape Province.

The contractor may be required to comply with additional requirements dependent upon the municipal area where the services are rendered, this includes municipal bylaws and any legal provisions applicable to a specific geographical area.

18. Quality assurance requirements

- "Quality Assurance Requirements: The *Contractor* shall comply with all quality requirements as set out in the document QM-58 i.e. Eskom Contract Quality Requirements Specification.
- The Contractor shall comply with ISO9001:2008 Quality Management System Requirements.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

- The *Contractor* shall comply with all other regulatory and statutory requirements applicable to the *works*. “
- The *Contractor* needs to submit a quality plan indicating the control points for quality to ensure that the *works* are done according to specification.

19. Programming constraints

A comprehensive and fully detailed programme is to be submitted within the seven (7) days after the introductory meeting and should indicate all milestones and critical dates. This programme must first be approved by the *Project Manager* and must be updated on an as and when required basis by the *Project Manager*.

The following dates shall be clearly reflected on the programme:

- Starting and completion dates for all activities as well as relevant key dates for hold or witness points. All relevant significant activities shall be shown to monitor the progress in the factory/workshop.
- The programme shall also reflect a 2-week period for inspection and correcting of Defects before the completion date.

Updated programmes must be available at all meetings reflecting progress to date and the date when delivery will take place through the use of task orders.

FORMAT OF THE PROGRAM

- The *Contractor* shall submit his construction program in terms of the conditions of contract.
- The *Contractor* is to submit a revised programme for acceptance at each site meeting.
- This program shall be in the form of an approved Gantt Chart containing the following information:
 - All construction activities, including milestones, initial tasks, critical path, required Outages, and target *Dates*. All potential risk activities should be clearly indicated on the critical path.
 - Every activity on the programme will be clearly linked to labour resources and equipment required to perform the specific activity.
 - Projected weekly progress on *site* for the entire duration of the contract.
 - Completion and hand-over *Dates* for formal inspection by the site supervisor must be indicated.
 - A column showing the daily tempo of all the construction activities must be indicated next to the activity on the programme.
- Project expenditure on a monthly basis for the entire duration of the contract.
- The following project phases and activities are minimum requirements for the programme:
 - Site Establishment and Material Delivery – Lead times to be specified.
 - Preparation work – Work that can be completed without the necessity of power outages
 - Outage work – Work that must be completed under outage conditions
 - Planned outages to be included in the programme
 - *Contractors* float to be included in the programme
- The Contract Program will be on display in the *Contractors Site Offices* and will be updated weekly. In addition to the maintaining of this programme, the *Contractor* will report progress to the *Project Manager* at each site meeting or at request of the *Project Manager*.
- The *Contractor* shall also provide an organisation chart showing the personnel to be employed for the *works*, along with a detailed CV of all key personnel.
- Should any deviations to the program be found the *Contractor* shall submit a revised program to the *Project Manager* within one week of such deviations being brought to the *Contractor's* attention.
- The Outages must be arranged with *Employer* via the Outage arrangement procedures, as a pre-requisite for the acceptance of the programme by the *Project Manager*.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

- Acceptance of any program by the *Project Manager* shall have no contractual status other than an indication that the *Project Manager* is satisfied as to the order in which the work is to be carried out, and that the *Contractor* undertakes to perform all work in accordance with the accepted program.
- The *Project Manager* retains the right to alter the accepted program should circumstances on *site* necessitate such a change.

OTHER INFORMATION TO BE SHOWN ON THE PROGRAM.

The following Statutory non-working days are included within the contract period:

- All Public Holidays for the duration of the contract.
- The programme must clearly indicate the non-working days for the entire construction period.

20. Contractor's management, supervision and key people

The *Contractor* is to submit an organogram showing all key people involved in the contract 7 days after contract award. All key personnel must be appointed in writing, must be current for the specific site and area of work and must be kept on file. This would be essential if the *Contractor* is a Joint Venture.

21. Access to the site

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

NOTE: releasing Eskom, its contractors, and agents from any and all liability in respect of damages caused by the construction of the said *works* after resolution by the contractor of similar issues at completion of *works*:

- The *Contractor* to ensure after completion of the *works*, that the attached "Final Release" form is fully completed by the affected landowners. The fully signed form(s) to be submitted to the Eskom Representative. Final Payment will not be released unless this fully completed/signed form(s) is received by the Eskom Representative

22. Training workshops and technology transfer

The obligation for technology transfer being included as part of this contract on Completion of the *Works* is to train Eskom Staff and/or other *Contractors* on the use of the access control and remote monitoring systems, as well as training on maintenance.

23. Completion, testing, commissioning and correction of Defects

Work to be done by the Completion Date

On or before the Completion Date the *Contractor* shall have done everything required to Provide the *Works* except for the work listed below which may be done after the Completion Date. The *Project Manager* cannot certify Completion until all the work except that listed below has been done and is also free of Defects which would have, in his opinion, prevented the *Employer* from using the *works* and others from doing their work.

Use of the works before Completion has been certified

The *Contractor* will have to carry out the supervision of the installations, as per the instruction of the *Project Manager*.

Materials facilities and samples for tests and inspections

Random sample test and inspections may be requested, to ensure good quality of the goods being supplied.

Commissioning

Commissioning is to be done before or after Completion depending on the Programme from the *Project Manager*.

Start-up procedures required to put the works into operation

In order to put the *works* into operation the *Project Manager* may require the *Contractor's* assistance or be in attendance.

Take over procedures

Take-over is after or at the same time as Completion. The *Contractor* is to arrange an inspection before completion of the installation to inspect and identify any outstanding or any defects. The *Project Manager* may require the *Contractor* to provide assistance.

Access given by the Employer for correction of Defects

The *Project Manager* arranges access for the *Contractor* to use a part of the *works* which has been taken over if needed to correct any Defects. After the *works* have been put into operation, the *Employer* may require the *Contractor* to undertake certain procedures before such access can be granted. The *Contractor* will be responsible for ensuring that the area to be worked in is barricaded before correcting any defects.

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

Performance tests after Completion

The *Contractor* to demonstrate that the *works* can operate as guaranteed by the *Contractor* (in *Contractor's* Works Information) or specified by the *Employer* either here or elsewhere in this Works Information.

Training and technology transfer

The *Employer* requires the *Contractor* to provide training on the use of the access control or any associated transfer of technology from him to the *Employer*.

Operational maintenance after Completion

Not applicable.

6. Drawings

All work shall be carried out to the specified requirements, standards and quality as set out by Eskom while observing and complying to all safety and environmental requirements. All project specifications will be form part of the relevant Task Order for each project.

The Contractor is appointed on this contract on a Rate Only basis, as and when required. 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 each project completed to date at the time of request.

Eskom reserves the right not to appoint any work to a Contractor based on poor performance of the Contractor.

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.

General description

Contractor to liaise with relevant CNC.

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

All relevant information will be specified in the Task Order for any project executed in terms of this contract.

Subsoil information

All relevant information will be specified in the Task Order for any project executed in terms of this contract.

Hidden services

The Contractor shall be liable for any damages caused during construction to existing services such as, underground water pipes, electrical cables, telecommunication cables, overhead lines, storm water pipes and existing roads.

Other reports and publicly available information

Provision for MV/ LV Maintenance & Repairs MV & LV (Overhead aerial bundled conductor and bare conductor lines) in Cape Coastal Cluster – Eastern Cape.

All relevant information will be specified in the Task Order for any project executed in terms of this contract.

NOTE: ALL APPLICABLE SITE INFORMATION ABOVE WILL FORM PART OF THE TASK ORDER FOR THE RELEVANT PROJECT WHEN ISSUED.

The Contractor shall within reason try and keep noise levels, dust and wastage to a minimum
The Contractor is to provide the necessary equipment to complete the Works safely and by the completion date. (Refer to item 5.9)

Public services and infrastructures are limited and the Contractor shall arrange for the following:
Sanitation and accommodation on site for own use, and Supply of water with community leaders.

Contract Details			
Starting Page N°	Manually insert into Start Page N°		
Enquiry N°			
Project Title	THE PROVISION FOR BREAKDOWN AND FAULT REPAIRS OF MV & LV LINES IN THE CAPE COASTAL CLUSTER – EASTERN CAPE.		
Project N°		WBS N°	
Closing Time, Day, Date			
Document – Issue Date, Venue			
Document Issue Time, Day.			
Enquiries to			
Enquiry Fax, Tel, Ref			
Validity period			
Site Location / Town			
Date, Starting, Completion			
Period for reply			
Possession of Site			