BID ADVERTISEMENT FORM

Bid description	Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape.			
Bid number	NC/DALC/2060			
Name of institution	Department Agriculture, Environmental Affairs, Rural Development and Land Reform Northern Cape Province			
The place where goods, works, or services are required	Vaalharts Research Station			
Closing date and time	Date	Date: [3 December 2024	Time	11:00AM
Contact details	Postal address	Department of Agriculture Private Bag X5018 Kimberley 8300 Attention: Ms A Montse		
	Physical address	Department of Agriculture 162 George Street Kimberley 8300 Attention: Ms A Montse		
	Tel. no.	053 807 7340		
	Fax no.	N/A		
	E-mail address	amontse@ncpg.gov.za		
	Contact person	leader: [P Kanyasa for technical enquiries		
Where bids can be collected	Bid documents will be available on the E Tender and I Tender websites. Please download and bring the document to the compulsory site briefing for signature of attendance. (Site can only be accessed via gravel road)			
Where bids should be delivered	162 George Street, Kimberley 8300			
Category *(refer to annexure A)*	2 EP or above – Electrical infrastructure Works			
Sector	Other			
Region	Frances Baard			
Compulsory briefing session/site visit	Date	18 November 2024		
	Time	10:00am		
	Venue	At the Department of Agriculture, Environmental Affairs, Rural Development and Land reform' s Vaalharts Research station - Administration Building. Coordinates: 27°57'21.5"S 24°50'44.2"E]		

PUBLICATION OF AWARD FORM

PROCUREMENT DOCUMENT

Project Name:

Description: Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape.

Closing Date: Date: [3 December 2024

Issued by:

Northern Cape: **Department of Agriculture, Environmental Affairs, Rural Development and Land Reform**

TEMOTHUO HOUSE
162 George Street
Kimberley
8300

Contact Person
Project Leader
Name:**leader: [** P Kanyasa
Telephone: **083 787 8525**

Project Technician
Technical:
Telephone:

Name of Tenderer: .....

Total Tendered Amount (incl. vat): .....

Time for Completion (in weeks): .....

SUMMARY FOR TENDER OPENING PURPOSES

[To facilitate the reading out of tender parameters at the opening of tenders, the tenderer shall complete this form and submit it with his tender]

Name of contractor submitting the tender:.....

Tender amount *(as stated in the Form of Offer)*: R .....

Amount in words .....

Preferences claimed :.....(*Yes / No*)

If "Yes" state Specific Goal Rating:

Specified time for completion: **16 weeks**

Alternative time for completion offered? .....*(Yes / No)*

If "Yes", state time offered

Discounts offered? .....*(Yes / No)*

Details of discounts offered:

.....

.....

Prices Valid for 90 days :.....(*Yes / No*)

If "No" state Prices validity:

Details of contact person:

Name *(Print)*:.....

Telephone No: .....Fax No :.....

E-mail address:.....

Note: In the event of conflict between the data provided in this summary and that given in the tender, the latter shall prevail.

SIGNATURE ON BEHALF OF TENDERER: .....

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NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM

CONTENTS

Service Provider Initial_____

REMINDER: PLEASE TAKE NOTE

IT CAME TO THE ATTENTION OF THE DEPARTMENT THAT PREVENTABLE MISTAKES OCCUR IN THE COMPLETION OF YOUR BID DOCUMENTS. THIS LEADS TO YOUR BIDS BEING INVALIDATED AND/OR DISQUALIFIED AND LOSING BBB-EE POINTS.

THE MOST COMMON MISTAKES ARE THE FOLLOWING:

1. COPY OF ID & COMPANY REGISTRATION (CERTIFIED)
2. NON-INCLUSION OF ORIGINAL TAX CLEARANCE/SARS PIN
3. THE USE OF CORRECTIONAL FLUID/TAPE
4. RECENT (NOT OLDER THAN 3 MONTHS) PROOF OF COMPANY'S ADDRESS OR CONFIRMATION FROM THE MUNICIPALITY MUST BE ATTACHED.
5. THE OMISSION OF A FINAL BID PRICE
6. THE OMISSION OF THE DELIVERY PERIOD
7. PLEASE DOUBLE CHECK YOUR CALCULATIONS AS MISCALCULATIONS LEADS TO UNNECESSARY DELAYS AND MAY ALSO LEAD TO INVALIDATION
8. FAILURE TO SIGN ANY FORM WHERE YOUR SIGNATURE IS REQUIRED, WILL LEAD TO DISQUALIFICATION
9. FAILURE TO INCLUDE CSD REGISTRATION OR UNIQUE SUPPLIER NUMBER

THE TENDER BOX IS SITUATED AT **TEMOTHUO HOUSE, 162 GEORGE STREET, KIMBERLEY** AT THE MAIN ENTRANCE TO THE DEPARTMENT (NOT THE STREET ENTRANCE). PLEASE ENSURE THAT YOUR BIDS ARE DEPOSITED IN THIS BOX BEFORE THE OFFICIAL CLOSING TIME AND DATE OF THE BID.

Service Provider Initial _____

NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM

PART T1: TENDERING PROCEDURES

T1.1 Tender Notice and Invitation to Tender

T1.2 Tender Data

Service Provider Initial

NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM

T1.1 : TENDER NOTICE AND INVITATION TO TENDER

The Northern Cape: Department of Agriculture, Environmental Affairs, Rural Development and Land Reform hereby invites tenders for the Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape.

The works include: Erection of new 11kV overhead power line with pole mounted transformer to replace existing 11kV underground system.

It is estimated that tenderers should have a CIDB contractor grading designation of **2 EP or above** – Electrical infrastructure Works and higher.
Only those tenderers who are registered with the CIDB, in a contractor grading designation equal to or higher than the latest CIDB promulgated contractor grading designation, determined in accordance with the sum tendered will be eligible to tender.

An 80/20 point system is applicable to this bid. Proof of company address must be submitted in order to qualify for preference points.
The physical address for collection of tender documents is:
162 George street
Kimberley
8300

Bid documents will be available on the E Tender and I Tender websites. Please download and bring the document to the compulsory site briefing for signature of attendance. (Site can only be accessed via gravel road)

Documents may be collected during working hours from 07H45 till 16H00.
Queries relating to the issue of these documents may be addressed to:
Ms A Montse:
Tel No. 053 807 7340
Fax No. N/A
e mail: amontse@ncpg.gov.za

Project Leader:leader: [P Kanyasa
Tel No. 083 787 8525
e mail:

A compulsory clarification meeting with representatives of the Employer will take place at the Vaalharts Research Station, Jan Kempdorp, Administration Building on 18 November 2024 starting at 10H00. Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 10:00 will be allowed into the meeting.

Coordinates: 27°57'21.5"S 24°50'44.2"E

The closing time for receipt of tenders is **11:00AM** onDate: **[** 3 December 2024 . Telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

Service Provider Initial

T1.2 : TENDER DATA

The conditions of tender are those contained in the latest edition of SANS 10845-3, Construction Procurement – Part 3: Standard Conditions of Tender.

SANS 10845-3 make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the provisions of SANS 10845-3

Each item of data given below is cross-referenced to the clause in the SANS 10845-3 to which it mainly applies.

Clause number	Tender Data
3.1	The employer is **NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM**
3.2	The Tender Documents issued by the Employer comprise the following documents: **THE TENDER** **Part T1: Tendering procedures** T1.1 - Tender notice and invitation to tender T1.2 - Tender data **Part T2: Returnable documents** T2.1 - List of returnable documents T2.2 - Returnable Schedules **THE CONTRACT** **Part C1: Agreements and Contract data** C1.1 - Form of offer and acceptance C1.2 - Contract data C1.3 - Occupational Health and Safety Agreement **Part C2: Pricing data** C2.1 - Pricing instructions C2.2 - Bill of Quantities **Part C3: Scope of work** C3 - Scope of Work **Part C4: Site information** C4 - Site information

Service Provider Initial_____

Clause number	Tender Data	
3.4	Project Leader: Contact number: 083 787 8525 Fax no: N/A Email:	Project Technician: Tel No: Fax No: N/A Email:
4.1	Only those tenderers who satisfy the following eligibility criteria and who provide the required evidence in their tender submissions are eligible to submit tenders and have their tenders evaluated:	
4.1.1	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a 2 EP or above – Electrical infrastructure Works class of construction work, are eligible to have their tenders evaluated. Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the 2 EP or above – Electrical infrastructure Works class of construction work; and 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 2 EP or above – Electrical infrastructure Works class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations. A bid will not be evaluated further if it fails to meet the minimum threshold of total 70 points out of maximum 100 points for functionality as prescribed in the following tables and a minimum of 70% per sub-section. NOTE: THIS SPECIAL CONDITIONS OF TENDER IS REGARDED AS A REPONSIVNESS CRITERIA, THUS FAILURE TO COMPLETE AND COMPLY WILL LEAD TO THE DISQUALIFICATION OF YOUR TENDER Individuals must be identified for each of the key personnel listed below. The individuals with respect to key personnel for categories A1 and A2 could not be the same person. In order to be considered for an appointment in terms of this tender, the tenderer must have the Following key personnel who will be the single point of accountability and responsibility for the management of the construction works in its employment at the close of tender. Alternatively, a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement, will be acceptable. **Key Personnel: 3-Phase Installation Electrician** Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the Contractor shall within a period of 10 working days replace the key personnel listed under Annexure C: Schedule of Key Personnel with a person with equivalent competencies and subject to approval by the Employer. Such approval shall not be unreasonably withheld.	

Service Provider Initial_____

A suitably qualified and experienced 3-Phase Installation Electrician who will be the single point of accountability and responsibility for the management of the construction works and who possesses, as a minimum, the following qualifications and experience:

A: Individual qualification – A1 as listed in Annexure C: Schedule of Key Personnel
- Registration as a 3-phase installation electrician at the Department of Employment and Labour – Any Electrical Installation, AND
- Valid registration for ORHVS regulations

B: Individual experience as – A1 as listed in Annexure D: Schedule of Project Experience of Key Personnel
The Curriculum Vitae of the 3-phase installation electrician, must be submitted with the tender submission, appended to Annexure D: Schedule of Project Experience of Key Personnel.

Key Personnel: Electrical Construction Manager/Supervisor
Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the subcontractor shall within a period of 10 working days replace the key personnel listed in Annexure C: Schedule of Key Personnel – Electrical Construction Manager/Supervisor with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.
A suitably qualified and experienced Construction Manager/Supervisor and who possesses as a minimum the following qualifications:

A: Individual qualification – A2 as listed in Annexure C: Schedule of Key Personnel
- A Trade Certificate (Electrician Construction) in the electrical infrastructure environment with a minimum of 10 years' experience, AND
- Valid registration for ORHVS regulations

B: Individual experience – A2 as listed in Annexure D: Schedule of Project Experience of Key Personnel
- The Curriculum Vitae of the Electrical Construction Manager/Supervisor must be submitted with the tender submission, appended to Annexure D: Schedule of Project Experience of Key Personnel.

Key Personnel: SHEQ Officer
Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the subcontractor shall within a period of 10 working days 11 replace the key personnel listed in Annexure C: Schedule of Key Personnel – SHEQ Officer with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.

A suitably qualified and experienced SHEQ Officer and who possesses as a minimum the following qualifications:
A: Individual qualification as – A3 as listed in Annexure C: Schedule of Key Personnel
- Valid Registration Certificate with SACPCMP as a Health and Safety Officer in the built environment with a minimum of 2 years' experience

B: Individual experience as – A3 as listed in Annexure D: Schedule of Project Experience of Key Personnel
- The Curriculum Vitae of the SHEQ officer must be submitted with the tender submission, appended to Annexure D: Schedule of Project Experience of Key Personnel.

Bank Rating
In order to be eligible for award in terms of this tender, tenderers must submit a bank rating from a recognized financial institution (not older than 3 months at tender closing date) which indicates that the bidder possesses the minimum following bank code:
- Bank rating of minimum Code C: Good for amount quoted if strictly in the way of business – Unlikely to commit themselves beyond their means

Certificates Confirming Educational Qualifications of Key Personnel
Tenderers are required to submit certified copies of educational qualifications of key personnel. A certified copy is considered to be valid when the certification is less than three months old on the date of

Service Provider Initial_____

closing of bids. Failure to submit certified copies of key personnel qualifications will result in the bid being deemed non-responsive

Stage 1 Functionality
Functionality of responsive bids submitted will be evaluated according to the predetermined criteria described below.

A bid will not be evaluated further if it fails to meet the minimum threshold of total 70 points out of maximum 100 points for functionality as prescribed in the following tables and a minimum of 70% per sub-section

	FUNCTIONALITY CRITERIA	POINTS ALLOCATED
A	Key personnel A1 3-Phase Installation Electrician	20
B	Key personnel A2 Electrical Construction Manager/Supervisor	20
C	Key personnel A3 Site SHEQ officer	10
D	Experience	40
E	Bank rating (minimum C)	10
F	TOTAL	100

A Key Personnel		
Points are allocated for required competencies and qualifications of allocated personnel for the project in consideration / Required key personnel are Contracts Manager, Construction Manager/ Supervisor and Site SHEQ Officer		
A1 3-Phase Installation Electrician		
Description of Criteria - Qualifications	Points	Total points
Qualifications: Registration as a 3-phase installation electrician at the Department of Employment and Labour, AND Registration for ORHVS regulations.	5	5
The tenderer has failed to address the question and has not proved qualification of the proposed electrical contractor.	0	
Description of Criteria - Experiences	Points	Total points
One (1) to Two (2) projects. 3-Phase Installation Electrician experience on infrastructure projects with minimum electrical contract value of R1 million each or above appointed as an electrical contractor	15	15
Two (2) to Three (3) projects. 3-Phase Installation Electrician experience on infrastructure projects with minimum value of R0.75 million each or above appointed as an electrical contractor.	12	
Three (3) or more projects. 3-Phase Installation Electrician experience on infrastructure projects with minimum value of R0.5 million each or above appointed as an electrical contractor.	10	
The tenderer has failed to address the question and has not proved experience of the proposed contract manager	0	
SUB-TOTAL A1		**20**

Service Provider Initial_____

A2 Electrical Construction Manager / Supervisor		
Description of Criteria - Qualifications	Points	Total points
Qualifications: Trade certificate in the Electrical Infrastructure field of study, AND Registration for ORHVS regulations.	5	5
The tenderer has failed to address the question and has not proved qualification of the proposed Construction Manager/Supervisor	0	
Description of Criteria – Experiences	Points	Total points
One (1) to Two (2) projects. Electrical Construction management experience on projects with minimum value of R1 million each or above appointed as an Electrical Construction Manager / Supervisor	15	15
Two (2) to Three (3) projects. Electrical Construction management experience on projects with minimum value of R0.75 million each or above appointed as an Electrical Construction Manager / Supervisor	12	
Three (3) or more projects. Electrical Construction management experience on projects with minimum value of R0.5 million each or above appointed as an Electrical Construction Manager / Supervisor	10	
The tenderer has failed to address the question and has not proved experience of the proposed Electrical Construction Manager/ Supervisor	0	
SUB-TOTAL A2		**20**

A3 Site SHEQ Officer		
Description of Criteria - Qualifications	Points	Total points
Qualification : A Registration Certificate with SACPCMP	3	3
The tenderer has failed to address the question and has not proved qualification of the proposed SHEQ Officer	0	
Description of Criteria - Experience	Points	Total points
One (1) to Two (2) projects. SHEQ experience on projects with minimum value of R1 million each or above appointed as Site SHEQ Officer	7	7
Two (2) to Three (3) projects. SHEQ experience on projects with minimum value of R0.75million each or above appointed as SHEQ Officer	5	
The tenderer has failed to address the question and has not proved experience of the proposed SHEQ Officer	0	
SUB-TOTAL A3		**10**
TOTAL A		**50**

NB: Tenders are required to submit CVs with contactable references and certified qualifications of proposed key personnel. Failure to submit will result in the tenderer not being awarded points on the above criteria. All copies of qualifications must be certified not older than three months at tender closing

Service Provider Initial_____

date.

B Experience of bidder		
Tenderers are required to demonstrate relevant past experience and competency and attach practical completion certificates. Tenderers are required to submit full details of, and reliable contactable references for relevant electrical infrastructure projects which were successfully completed. Projects relevant must be of similar scope, nature and size, completed within the last five (5) years. Tenderers are required to submit full details of, and reliable contactable references for relevant projects which were successfully completed within the contract period.		
Successful completion of similar or comparative projects in the last tender (5) years		
Description of Criteria	Points	Total points
One (1) or more similar and or comparative projects successfully executed by the tenderer within the contract period in the past 5 years for the minimum value of R 1 million each or above.	40	40
Two (2) or more similar and or comparative projects successfully executed by the tenderer within the contract period in the past 5 years for the minimum value of R 0.75 million each or above.	35	
Three (3) or more similar and or comparative projects successfully executed by the tenderer within the contract period in the past 5 years for the minimum value of R 0.5 million each or above.	30	
The Tenderer has failed to address the question and has not provided proof of completing similar electrical infrastructure projects	0	
TOTAL B		**40**

C Bank Rating		
Description of Criteria	Points	Total points
Tenderers are required to submit a Bank rating of minimum Code C	10	10
The Tenderer has failed to address the question and has not submitted the required bank rating.	0	
TOTAL C		**10**
GRAND TOTAL		**100**
MINIMUM THRESHOLD		**70**

The tenderer must complete the schedules listed under Annexures C, D and E, failing which the Tenderer will not score the relevant functionality points.

4.7	Compulsory site meeting: A compulsory clarification meeting with representatives of the Employer will take place at the Vaalharts Research Station, Jan Kempdorp, Administration Building on 18 November 2024 starting at 10H00. Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 10:00 will be allowed into the meeting.

Service Provider Initial_____

	Coordinates 27°57'21.5"S 24°50'44.2"E
4.7.1	The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. Tenderers must sign the attendance register in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance register.
4.9	Insurance Comprehensive insurance to the full value of the contract must be provided for the full contract period till final completion and issue of final completion certificate. Proof of payment and copy of contract must be supplied to the department as per clause 8.6 GCC 2010. Second edition
4.13.4	The tenderer is required to submit with his tender: (Only certificates) • An **original** and a **valid** Tax Clearance Certificate or PIN issued by the South African Revenue Services. • Proof of CIDB registration • Proof of company's address or confirmation from municipality must be attached • Joint venture agreement • Company registration form • A certified letter of goods standing from compensation commissioner • CSD registration • Registration for ORHVS regulations • **Registration as a 3-Phase Installation Electrician for Any Electrical Works at the Department of Employment and** Labour • Valid registration for ORHVS regulations
4.13.5 4.15	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are: Location of Tender Box: **162 George Street** **Kimberley** **8301** **Identification details:** Tender **NC/DALC/2060** Closing date:Date: [3 December 2024 Time: **11:00AM** Postal Address: **NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM** **ATTENTION:** **Ms A Montse**

Service Provider Initial_____

	PRIVATE BAG X5018 **KIMBERLEY** **8300**
4.13.5	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
4.15	The closing time for submission of tender offers is **11:00AM** on theDate: **[3** December 2024
4.16	The tender offer validity period is 90 days.
4.19	Access shall be provided for the following inspections, tests and analysis: [General site inspection]
5.1	The Employer will respond to requests for clarification received up to 5**(five)** working days before the tender closing time.
5.4	Tenders will be opened immediately after the closing time for tenders at **11:00AM**
5.11.4	The procedure for the evaluation of responsive tenders is **Method 3** The financial offer will be scored using Formula 2 (option 1) where the value of W_1 is: 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in **excess** of R 50 000 000.00; or 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers have a value that equals or is less than R50 000 000.00 3) Points for this bid shall be awarded to: **1. THE BID PRICE (MAXIMUM OF 80 POINTS)** **2. SPECIFIC GOALS (MAXIMUM 20 POINTS)** **THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS** A maximum of 80 or 90 points is allocated for price on the following basis: **80/20** $Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right)$ **or** **90/10** $Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$ Where Ps = Points scored for price of tender under consideration Pt = Price of tender under consideration Pmin = Price of lowest acceptable tender
5.11.3	**Points awarded for Specific Goals.** In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining Specific Goals in accordance with the table below.

Specific Goals	Number of points (90/10 system)	Number of points (80/20 system)
Black (HDI)	10	10
Women	9	5
Disability	8	2
Youth	5	3

Service Provider Initial_____

5.13	**Acceptance of tender offer**
5.13	Tender offers will only be accepted if: a) the tenderer is registered on the Central Supplier Database (CSD) for the South African government (see https://secure.csd.gov.za/) unless it is a foreign supplier with no local registered entity b) the tenderer is in good standing with SARS according to the Central Supplier Database; c) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation; d) the tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; e) the tenderer has not: i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect; f) the tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process; g) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer; h) the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2003, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.

Service Provider Initial_____

PART T2 : RETURNABLE DOCUMENTS

T2.1 List of Returnable Documents

T2.1 : LIST OF RETURNABLE DOCUMENTS

The following documents are to be completed and returned as they constitute the tender. Whilst many of the returnable are required for the purpose of evaluating the tenders, some will form part of the subsequent contract, as they form the basis of the tender offer. For this reason, it is very important that tenderers return **all information requested.**

T2.1.1 RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES (included hereafter for completion)

Schedule 1: Declaration of Interest (NCP 4)

Schedule 2: Preference Points Claim (NCP 6.1)

Schedule 3: Compulsory Enterprise Questionnaire

Schedule 4: Authority of Signatory

Schedule 5: Proof of Experience Relevant to Proposed Work

Schedule 6: Certificate of Attendance at Clarification Meeting

Schedule 7: Record of Addenda

Schedule 8: A) Valid Tax Clearance Certificate or SARS PIN

B) Certificate of Contractors Registration issued by the CIDB

C) Tender Entity Identification

D) Certificate refer to T1.2 (4.13.4)

E) Proof of CSD registration or unique supplier number.

Schedule 9: Declaration Concerning Fulfillment of the Construction Regulations, 2014

ANNEXURE C SCHEDULE OF KEY PERSONNELL

ANNEXURE D SCHEDULE OF PROJECT EXPERIENCE OF KEY PERSONELL

ANNEXURE E SCHEDULE OF EXPERIENCE OF BIDDER (COMPANY)

Service Provider Initial_____

T2.1.2 OTHER SCHEDULES AND AFFIDAVITS THAT WILL BE INCORPORATED INTO THE CONTRACT (included hereafter for completion)

C1.1 : The Offer portion of the Form of Offer and Acceptance

C1.2 : Contract Data

C1.3 : Occupational Health and Safety Agreement

C.2.1: Pricing Instructions

C2.2 : Bills of Quantities

Service Provider Initial_____

SCHEDULE 1 : BIDDERS DECLOSURE

NCP4

1. Purpose of the form

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its Directors/ Trustees / Shareholders / Members / partners or any person having a controlling interest1 in the enterprise, employed by the state?
YES / NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor! directors / trustees / shareholders / members! partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State Institution

1 the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

Service Provider Initial_____

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....

.....

2.3 Does the bidder or any of its directors I trustees I shareholders I members I partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES / NO**

2.3.1 If so, furnish particulars:

.....

.....

3 DECLARATION

I,
(name).....the.....undersigned, in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium2 will not be construed as collusive bidding.

3.4.1 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

2 Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

Service Provider Initial_____

3.4.2 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....	.....
Signature	**Date**
.....	.....
Position	**Name of bidder**

Service Provider Initial_____

SCHEDULE 2 : PREFERENCE POINTS CLAIM

NCP6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022
FORMAL PRICE TENDER R 1 MILLION UP TO R 50 MILLION)

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

---

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

a) the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and

1.2 **To be completed by the organ of state**

a) The applicable preference point system for this tender is the 80/20 preference point system.

b) 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

a) Price; and

b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

Service Provider Initial_____

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

1.7 Bidders who wish to claim points in terms of table 4.2 below need to provide proof for each point claimed as guided below:

- Who had no franchise in national elections before the 1983 and 1993 Constitution – **attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.**
- Who is female- **attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.**
- Who has a disability – **attach doctor's letter confirming the disability**
- Who is youth - **attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.**
- **Locality – Refers to the Northern Cape Province – attach proof of address**

2 DEFINITIONS

a) **"tender"** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

b) **"price"** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

c) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

d) **"tender for income-generating contracts"** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

e) **"the Act"** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

Service Provider Initial_____

3 FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1 POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 **or** **90/10**

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \quad \text{or} \quad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2 In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Service Provider Initial_____

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Percentage ownership equity (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
1. Who had no franchise in national elections before the 1983 and 1993 Constitution	10		
2. Who is female	5		
3. Who has a disability	2		
4. Who is youth	3		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3 Name of company/firm.....

4.4 Company registration number: .....

4.5 Company CSD number: .....

4.6 TYPE OF COMPANY/ FIRM

Partnership/Joint Venture / Consortium
One-person business/sole propriety
Close corporation
Public Company
Personal Liability Company
(Pty) Limited
Non-Profit Company
State Owned Company
[TICK APPLICABLE BOX]

4.7 I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

I. The information furnished is true and correct;

II. The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

Service Provider Initial_____

III. In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

IV. If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

a) disqualify the person from the tendering process;

b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME: .....
DATE: .....
ADDRESS: .....
.....
.....
.....

Service Provider Initial_____

SCHEDULE 3 : COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:.....

Section 2: VAT registration number, if any:.....

Section 3: CIDB registration number, if any:.....

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number .....

Close corporation number .....

Tax reference number .....

Section 6: Record of service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

1. a member of any municipal council
2. a member of any provincial legislature
3. a member of the National Assembly or the National Council of Province
4. an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
5. a member of the board of directors of any municipal entity
6. a member of an accounting authority of any national or provincial public entity
7. an official of any municipality or municipal entity
8. an employee of Parliament or a provincial legislature

Service Provider Initial_____

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		current	Within last 12 months

* Insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

9. a member of any municipal council
10. a member of any provincial legislature
11. a member of the National Assembly or the National Council of Province
12. an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
13. a member of the board of directors of any municipal entity
14. a member of an accounting authority of any national or provincial public entity
15. an official of any municipality or municipal entity
16. an employee of Parliament or a provincial legislature

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		current	Within last 12 months

* Insert separate page if necessary

Service Provider Initial_____

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:
1. authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
2. confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
3. confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
4. confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
5. confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

CERTIFICATION: COMPULSORY ENTERPRISE QUESTIONNAIRE

Signed ---------- **Date** ----------

Name ---------- **Position** ----------

Enterprise name ----------

Service Provider Initial_____

SCHEDULE 4 : Certificate of Authority

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category.

(I) COMPANY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

(I) CERTIFICATE FOR COMPANY

I,_____, Managing Director of the Board of Directors of _____, hereby confirm that by resolution of the Board (copy attached) taken on _____ 20 , Mr/Ms _____, acting in the capacity of _____, was authorised to sign all documents in connection with this tender and any contract resulting from it, on behalf of the company.

Managing Director: _____

As Witnesses: 1_____

2 _____ **Date:** _____

(II) CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key members in the business trading as _____ _____ hereby authorise Mr/Ms _____, acting in the capacity of _____, to sign all documents in connection with this tender _____ and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

Note: This certificate is to be completed and signed by all of the key members upon who rests the direction of the affairs of the Close Corporation as a whole.

Service Provider Initial_____

(III). CERTIFICATE FOR PARTNERSHIP

We, the undersigned, being the key partners in the business trading as,_____

_____ hereby authorize Mr/Ms _____

acting in the capacity of _____, to sign all documents in connection with this tender and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

Note: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

(IV) CERTIFICATE FOR JOINT VENTURE

a) RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURE

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

_____

_____

(*Legally correct full name and registration number, if applicable, of the Enterprise)*

Held at _____(*place)* _____ *(date)*

RESOLVED that:

1. The Enterprise submits a Bid/Tender, in Consortium/Joint Venture with the following Enterprises:

_____

_____

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture) to the **Department of Agriculture, Environmental Affairs, Rural Development and Land Reform** in respect of the following project:

Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape.

_____

(*Project description as per Bid /Tender Document)*

Bid / Tender Number: _ **NC/DALC/2060** (*Bid / Tender Number as per Bid /Tender Document)*

Service Provider Initial_____

*Mr/Mrs/Ms:_____

in *his/her Capacity as: _____*(Position in the Enterprise)*

and who will sign as follows: _____

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

2. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.

3. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: _____

_____

_____

_____ (code)

Postal Address: _____

_____

_____

_____ (code)

Telephone number: _____ (code)

Fax number: _____ (code)

	NAME	***CAPACITY***	***SIGNATORY***
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Service Provider Initial_____

Note:	**ENTERPRISE STAMP**
*1. * Delete which is not applicable* *2. **NB**. This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise* *3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page*	

b) SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Held at _____ *(place)*_____ *(date)*

Service Provider Initial_____

RESOLVED that:

1. The above-mentioned Enterprises submits a Bid in Consortium/Joint Venture to the DEPT. OF AGRICULTURE, ENVIROMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM in respect of the following

Project Description: **Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape.**

2. Mr/Mrs/Ms: _____

in *his/her Capacity as: _____(*Position in the Enterprise)*

and who will sign as follows: _____

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

_____

D The Enterprises to the Consortium/Joint Venture accepts joint and several liabilities for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

1. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

2. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

3. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: _____

_____

_____

_____ (code)

Postal Address: _____

_____

_____

_____ (code)

Telephone number: _____ (code)

Fax number: _____ (code)

Service Provider Initial_____

	NAME	***CAPACITY***	***SIGNATORY***
1			
2			
3			
4			
5			
6			
7			

Note:

** Delete which is not applicable.*

2. *NB. This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the Consortium/Joint Venture submitting this Bid.*
3. *Should the number of Duly Authorised Representatives of the Legal Entities joining forces in this Bid exceed the space available above, additional names and signatures must be supplied on a separate page.*
4. *Resolutions, duly completed and signed, from the separate Enterprises who participate in this Consortium/Joint Venture must be attached to the Special Resolution.*

(V) CERTIFICATE FOR SOLE PROPRIETOR

I,_____, hereby confirm that I am the sole owner of the business trading as _____.

Signature of Sole owner: _____

As Witnesses:

1_____

2._____

Date: _____

Service Provider Initial_____

SCHEDULE 5: PROOF OF EXPERIENCE RELEVANT TO PROPOSED WORK

The following is a statement of similar work successfully executed by myself/ourselves:

Attach proof of below mentioned experience in the form of completion certificates if not attached bids will be invalid.

Employer, contact person and telephone number	Description of Contract	Value of Work Inclusive of VAT (Rand)	Date Completed

Signed ..... **Date**.....

Name..... **Position**.....

Tenderer.....

IF THE ABOVE SPACE IS INSURFICIENT, PLEASE ATTACH DETAILED SIGNED COPY OF PROOF OF EXPERIENCE.

Service Provider Initial_____

SCHEDULE 6 : CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING

This is to certify that

.....(Tenderer)

Of.....(address)

was represented by the person(s) named below at the compulsory meeting held for all tenderers at .....(location),on..... .....(date), starting at.....

We acknowledge that the purpose of the meeting was to acquaint ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name ..... Signature .....

Capacity .....

Name ..... Signature .....

Capacity .....

Attendance of the above persons at the meeting is confirmed by the Employer's representative, namely:

Name ..... Signature .....

Capacity ..... Date & Time .....

NB: Document to be returned in Original Ink no copies will be accepted.

Service Provider Initial_____

SCHEDULE 7 : RECORD OF ADDENDA

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		

Attach additional pages if more space is required.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Service Provider Initial_____

SCHEDULE 8 : INFORMATION REQUIRED

A. TAX CLEARANCE CERTIFICATE

An **original** valid Tax Clearance Certificate from the South African Revenue Service (SARS) shall be attached to this Schedule.

Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance Certificate.

B. CERTIFICATE OF CONTRACTOR'S REGISTRATION

A Certificate of the Contractor's Registration issued by the CIDB shall be attached to this schedule.

C. CERTIFIED COPY OF THE CERTIFICATE OF INCORPORATION

.....

D) Certificates refer to T1.2 (4.13.4)

E) Proof of CSD registration or unique supplier number.

Signed ..... Date .....

Name ..... Position .....

Tenderer.....

Service Provider Initial_____

SCHEDULE 9 :DECLARATION CONCERNING FULFILMENT OF THE CONSTRUCTION REGULATIONS, 2014

In terms of regulation 4(4) of the Construction Regulations, 2014 (hereinafter referred to as the Regulations), promulgated in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

Tenderers shall answer the questions below:

1. I confirm that I am fully conversant with the Regulations and that my company has (or will acquire/procure) the necessary competencies and resources to timeously, safely and successfully comply with all of the requirements of the Regulations.

(Tick)

YES	
NO	

2. Indicate which approach shall be employed to achieve compliance with the Regulations.

(Tick)

Own resources, competent in terms of the Regulations (refer to 3 below)	
Own resources, still to be hired and/or trained (until competency is achieved)	
Specialist subcontract resources (competent) - Specify:	

3. Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):

.....

.....

.....

4. Provide details of proposed training (if any) that will be undergone:

.....

.....

.....

.....

Service Provider Initial_____

5. List potential key risks identified and measures for addressing risks:

.....

.....

.....

.....

6. I have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the Regulations for the duration of the construction and defects repair period

(Tick)

YES	
NO	

SIGNATURE OF PERSON(S) AUTHORISED TO SIGN THIS TENDER:

1. ..... ID NO: .....

(Name in Print): .....

2. ..... ID NO: .....

(Name in Print): .....

Service Provider Initial_____

PART C1 : AGREEMENT AND CONTRACT DATA

The General Conditions of Contract for Construction Works, Second Edition, 2010 have been compiled on the basis that the following supplementary documentation in the format of pro formas, once completed by the Party of Parties as relevant, shall form part of the Contract.

C1.1 Form of Offer and Acceptance
C1.2 Contract Data
C1.3 Occupational Health and Safety Agreement

Service Provider Initial

C1.1 : FORM OF OFFER AND ACCEPTANCE

1. OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM:

DESCRIPTION: **REFURBISHMENT AND UPGRADING OF THE EXISTING ELECTRICITY NETWORK AT THE VAALHARTS RESEARCH STATION, PHASE-1, JAN KEMPDORP, NORTHERN CAPE.**

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, 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.
THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE-ADDED TAX IS

.....
..... Rand (in words);
R .....(in figures)

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 to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

For the **Tenderer:**
Signature .....
Name .....
Capacity .....
Name and address of **organisation**:
.....
.....
Name and signature of **witness**:
Signature .....
Name .....
Date .....

Service Provider Initial

2. ACCEPTANCE

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

Part C1 : Agreements and Contract Data (which includes this Agreement)
Part C2 : Pricing Data
Part C3 : Scope of Work
Part C4 : Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.
Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto, as listed in the Tender 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 Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representatives of both parties.
The Tenderer shall, within two weeks after receiving a completed copy of this Agreement including the Schedule of Deviation (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any 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 the 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 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,
For the **Employer:**

Signature .....

Name Adv T Binase .....

Capacity Acting Head of Department .....

Name and address of organisation:

Department of Agriculture, Environmental Affairs, Rural Development and Land Reform Northern Cape Province, ...

162 Goerge Street, Kimberley 8301 .....

Name and signature of witness:

Signature .....

Name Mr M Dibane .....

Date .....

Service Provider Initial

3. SCHEDULE OF DEVIATIONS

Notes:

1. 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.
2. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the Parties becomes an obligation of the contract, shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

1. Subject .....
   Details .....
2. Subject .....
   Details .....
3. Subject .....
   Details .....
4. Subject .....
   Details .....

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change 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 Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the Tenderer	For the Employer
.....	Signature(s) .....
.....	Name(s) Adv T Binase .....
.....	Capacity Acting Head of Department.....
Name and address of organization	Name and address of organization
.....	162 Goerge Street, Kimberley 8301 .....
.....	.....
.....	Witness Signature .....
.....	Witness Name Mr M Dibane
.....	Date .....

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The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the .....(day) of (month) .....20..... (year)

at ..... (place)

For the Contractor:

Signature .....

Name .....

Capacity .....

Signature and name of witness:

Signature .....

Name .....

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C1.2: CONTRACT DATA

The Conditions of Contract are the General Conditions of Contract for Construction Works (2nd Edition 2010) published by the South African Institution of Civil Engineering (SAICE). Copies of these conditions of contract may be obtained from the SAICE Tel no.: (0)11 805 5947.

The General Conditions of Contract for Construction Works make several references to the Contract Data. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contract.

Each item of data given below is cross-referenced to the clause in the General Conditions of Contract for Construction Works to which it mainly applies.

PART 1 : DATA PROVIDED BY THE EMPLOYER

CLAUSE	DESCRIPTION
1.1.1.13	The Defects Liability Period is twelve (12) months measured from the date of the Certificate of Completion.
1.1.1.15	The name of the Employer is the Department of Agriculture, Environmental Affairs, Rural Development and Land Reform
1.2.1.2	The Employer's address for receipt of communications and notices is : Telephone: 087 630 0387 Facsimile: 086 771 8786 **Address (Postal):** .. **Address (Physical)** P/Bag 5018 Temothuo House 162 George Street Kimberley .. Kimberley 8300 . 8300
1.3.2	The governing law is the law of the Republic of South Africa.
1.6	The special non-working days are all statutory public holidays and the yearend break. The year-end break shall be in accordance with the dates recommended by SAFCEC.
3.1.3	The Engineer shall obtain the specific approval before executing any of the following functions or duties: 1. The issuing of a variation order in terms of Clause 6.3.2. 2. Nomination of Engineer's Representative in terms of Clause 3.2.1. 3. Engineer's authority to delegate in terms of Clause 3.2.4. 4. Non-working times in terms of Clause 5.8.1. 5. Suspension of the Works in terms of Clause 5.11.1. 6. Acceleration instead of extension of time in terms of Clause 5.12.4.
4.3.2	If required, and for the duration of this contract, the Contractor shall provide proof to the Engineer that the Contractor is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in this Contract. Failure to provide such proof shall entitle the Employer to withhold any payments due to the Contractor until such proof is provided.

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CLAUSE	DESCRIPTION
4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.4.5	Subcontracting **The Contractor shall not subcontract the whole contract. Subcontract must not exceed 25% of the contract. Engineering approval must be obtained for sub-contracting.** The Contractor shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if they were responsible for the acts, defaults or negligence of the Contractor. The contractual relationship between the Contractor and any subcontractors selected by the Contractor in consultation with the Employer in accordance with the requirements of and a procedure set out in the Scope of Work, shall be the same as if the Contractor had appointed the subcontractor in terms of Clause 4.4.2. Any appointment of a subcontractor in accordance with Clause 4.4.3 shall not amount to a contract between the Employer and the subcontractor, or a responsibility or liability on the part of the Employer to the subcontractor and shall not relieve the Contractor from any liability or obligation under the contract. In the event of termination of the contract under Clause 9.2, the subcontract in terms of Clause 4.4.3 shall be assigned to the Engineer upon such an instruction by the Employer.
5.2.1	The Commencement date shall be the date of Official site hand over by the Departmental Official once the order form and service level agreement has been signed
5.3.1	The documentation required before commencement with the execution of works is: • Work programme and projected cash flow. • Insurance for works and materials • Occupational Health and Safety Plan • Notification of Construction Works-Department of Employment and Labour]
5.3.2	The time to submit documentation from commencement date is within fourteen (14) days
5.4.2	Access to and possession of the site shall not be exclusive to the Contractor insofar as the provisions of Clause 4.8 apply and where on-going use by the general public is required. The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the site

5.8.1	The non-working days are Sundays The special non-working days are: 1. All Gazetted public holidays falling outside the year end break 2. The year-end break commencing on 14 December 2024 to 2 January 2025.
5.13.1	The penalty for failing to complete the Works is 0.1% of total contract value per calendar day
5.16.3	The latent defects period is **10** years for civil engineering works, 5 years for building works, 2 years for electrical and mechanical works.
6.2.3	The expiry date (completion of the defects liability period) shall be the date, of the issue by the Engineer, of the Final Approval Certificate on the completion of the Works.
6.5.1.2.3	The percentage allowance to cover overhead charges must not exceed **15%.**
6.8.2	*Add the following to Clause 6.8.2:* The Contract Price shall **not** be subject to any contract price adjustment and the rates and prices tendered in the bill of quantities shall be final and binding throughout the period of the Contract.
6.8.4	*Add the following to Clause 6.8.4:* Notwithstanding the above, in the event that a public holiday is proclaimed within 28 days before the closing date for tenders, no costs other than those that can be claimed under Clause 5.12.3 shall be added to the contract price.

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6.10.3	*Add the following to Clause 6.10.3:* Interim payments to the Contractors shall be subject to a retention by the Employer of an amount limited at 10% of the said amounts due to the contractor. A guarantee in lieu of retention is not permitted.
6.10.4	*Add the following to clause 6.10.4:* Notwithstanding the above, the Engineer shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.
8.6.1.1.2	The value of Plant and materials supplied by the Employer to be included in the insurance sum is **R 0.00 (Nil)**.

8.6.1.3 8.6.1.5	Add the following to Clause 8.6.1.3: The limit of indemnity for liability insurance is **R 5 000 000** for any single claim – the number of claims to be unlimited during the construction and defects liability periods. In addition to the insurances required in terms of General Conditions of Contract Clauses 8.6.1.1 to 8.6.1.4 the following insurance is also required: 1. Insurance of Construction Equipment (including tools, offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement. 2. Insurance in terms of the provisions of the Compensation of Occupational injuries and Diseases Act No. 130 of 1993. 3. Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity. 4. Where the contract involves manufacturing and/or fabrication of the works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor's Policies of Insurance.
8.6.6	The evidence that the insurances have been effected in terms of Clause 8.6.1, shall be in the form of an insurance broker's warranty worded precisely as given in Part C1.6 Insurance Broker's Warranty.
9.2.1 9.2.1.3.8 9.2.1.3.9	Add the following to Clauses after Clause 9.2.1.3.7: The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract. An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefitted the contractor.
10.7.1	Disputes shall be resolved by negotiation, mediation, failing which by arbitration.

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	ADDITIONAL CONDITIONS OF CONTRACT
11	**Non-compliance with Engineer's Instructions** Should the Contractor fail within reasonable time to carry out the Engineer's instructions regarding any matter whatsoever on which he is authorized to order and direct the Contractor, then without vitiating the Contract and without prejudice to any other remedy the Employer may have under the Contract, the Employer may, after serving notice of its intention on the Contractor, itself take such action or employ others to take such action on its behalf as the Contractor has failed to take on the Engineer's instructions. For this purpose the Employer may use any suitable plant or materials brought on Site by the Contractor. The cost to the Employer of taking action on account of the Contractor's failure to carry out the Engineer's instructions shall be for the Contractor's account and may be recovered from the Contractor by the Employer, but such work shall be valued as if performed by the Contractor in terms of the Contract at Contract rates and included in the payments due to the Contractor.
12	**Implementation of the Occupational Health and Safety Act No. 85 of 1993** The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act, Act no. 85 of 1993 and the relevant Regulations made thereunder, with specific reference to the Construction Regulations of 2014, hereinafter referred to as "the Act", that the Contractor as an Employer in its own right and in its capacity as Contractor for the execution of the Works, shall have certain obligations and that the following arrangement shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely: i)The Contractor undertakes to acquaint the appropriate officials and the employees of the Contractor with all the relevant provisions of the Act, and the regulations promulgated in terms of the Act, and ii)The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with, and iii)The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the Employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

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13 The additional conditions of tender are:

1. The lowest or any tender will not necessarily be accepted.

2. Bills of Quantities

Service Provider are requested to check the Bill of Quantities and if any page is missing or duplicated, or if any figure or text is illegible or if any uncertainty or doubt exists as to the meaning of any description, or if these Bills of Quantities contains any obvious error, Service Provider must notify the Department immediately to obtain the necessary rectification or explanation. No liability whatsoever with regards to the quoted amount will be recognized as a result of the aforementioned. No alteration, erasure, omission, or addition is allowed to be made to the text or conditions contained in these Bills of Quantities. If any such alteration, amendment, note or addition is made, it will not be recognized and the Bill of Quantities will be deemed to be as originally drawn up by the Department. **The Bills of Quantities is not meant for ordering any materials.** Any orders based on the Bill of Quantities is at the Service Provider own risk.

3. Method of Measurement

These Bills of Quantities and method of measurement where compiled in accordance with the method and guidance as set out in the SANS 1200 specification and/or any amendments thereof.

4. Trades Names

Service Provider attention is drawn to the fact that wherever names or references to any catalogue have been made in these Bills of Quantities, it is purely to establish a standard for the required material. If use is made of any other material as approved in lieu of the prescribed trade name or catalogue, the necessary price adjustments will be made and variation orders issued.

5. Defects Liability Period

The defects liability period is calculated from the date on which the **Certificate of Completion(As per clause 5.14.2)** issued and is as follows:

a) General building work	12 months
b) Electrical installation	12 months unless stated otherwise
c) Mechanical installation	12 months
d) Civil work	12 months

6. SPECIAL NOTE TO TENDERERS

Service Provider must take into account all the principles of the RDP, the Government's policies on job creation as well as the problems they may encounter with the community organizations in the particular area before submitting their quotation as no claims in this regard will be considered.

7. Joint Venture

a. In the case of a joint venture, all partners must include and complete **NCP4**, both **their SARS certificates/SARS PIN, a proof of company address and a joint venture agreement.**

b. In the case of a partnership, all partners must include their partnership agreement.

8. It is the responsibility of every bidder to sign the attendance register at the site meeting.

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9. **Service Providers must tender on all item numbers and will be disqualified if failing to bid on all items.**

10. All material must be SABS approved where applicable.

11. References of relevant previous work must be attach to tender.
Only service providers with the proven relevant adequate and specialist experience would be considered for this contract. the service provider must prove beyond doubt his capability to successfully complete a project of this nature within its contract period allowed.

12. **Recent (not older than 3 months) proof of company's address or confirmation from the municipality should be attached. Failure to submit proof of company's address may invalidate your bid.**

13. The use of correction fluid tape will invalidate your bid.

14. The department reserves the right to not award the tender or accept the lowest tender for the bid.

15. Once original tax invoice has been submitted, the employers agent will verify it within 7 days and payment will be made within 30 days thereafter.

16. **Labour requirement: Monthly/Weekly/Fortnightly pay sheets, time sheets, certified ID copies and labour contracts/appointment letters including UIF compliance. Failure to submit this documents will lead to payments being withheld.**

17. Camp and construction site must be removed and cleaned up after construction is completed, this site will be inspected before final payment is approved by project leader.

18. Contractor must make provision for:
a) Own diesel and lubrication
b) Oil spills – cost to clean
c) Suitable accommodation and ablution facilities
d) In conjunction with land owner, ascertain himself of any pipes, or services that may be in or near the working area. The service provider will be liable for the repair of these services and pipes should any damage occur.

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	19. The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the Labour Intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements. 20. The Northern Cape Provincial Supply Chain Management Procurement Policy Framework, approved in December 2018, States that the Provincial Departments must at least spend 60% of their procurement budget on Designated Groups within the province. The Department Reserves the right to award contracts based on the above mentioned framework policy

Service Provider Initial

C1.2 : CONTRACT DATA

PART 2 : DATA PROVIDED BY THE CONTRACTOR

Clause	Description
1.1.1.9	The name of the Contractor is .... *[Enter the Legal name of the Contractor].*
1.2.1.2	The Contractor's address for receipt of communications and notices is : Telephone: ..... Facsimile: ..... E-mail : ..... Address (Postal) : ..... Address (Physical) : ....
1.1.1.14	The time for completing the Works is ..... days/weeks/months
6.5.1.2.3	The percentage allowance to cover all overhead charges for work executed on a day work basis is: Labour ..... % Materials ..... %

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C1.3 : OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT MADE AND ENTERED INTO BETWEEN THE DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM (HEREINAFTER CALLED THE "EMPLOYER") AND

..... ,
(Contractor/Mandatory/Company/CC Name)
IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT No. 85 OF 1993 AS AMENDED.

I, ..., representing
..... , as an employer
in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated there under.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.
COID ACT Registration Number: .....
OR Compensation Insurer: ..... Policy No.: .....

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the appended Occupational Health and Safety Conditions and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan.

Signed and sworn to before me at ..... on this .....day of ..... 20.....

....
Witness **Mandatory**

Signed and sworn to before me at ..... on this .... day of ..... 20.....

....
Witness for and on behalf of
The Department of Agriculture, Environmental Affairs, Rural Development and Land Reform

Service Provider Initial

OCCUPATIONAL HEALTH AND SAFETY CONDITIONS

1. The Chief Executive Officer of the Contractor shall assume the responsibility in terms of Section 16(1) of the Occupational Health and Safety Act (as amended). Should the Contractor assign any duty in terms of Section 16(2), a copy of such assignment shall immediately be provided to the representative of the Employer as defined in the Contract.
2. All work performed on the Employer's premises shall be performed under the supervision of the construction supervisor who understand the hazards associated with any work that the Contractor performs on the site in terms of Construction Regulations 2014.
3. The Contractor shall appoint a Competent Person who shall be trained on any occupational health and safety aspect pertaining to them or to the work that is to be performed.
4. The Contractor shall ensure that he familiarizes himself with the requirements of the Occupational Health and Safety Act and that he, his employees, and any sub-contractors, comply with them.
5. Discipline in the interests of occupational health and safety shall be strictly enforced.
6. Personal protective equipment shall be issued by the Contractor as required and shall be worn at all times where necessary.
7. Written safe work procedures and appropriate precautionary measures shall be available and enforced, and all employees shall be made conversant with the contents of these practices.
8. No substandard equipment/machinery/articles or substances shall be used on the site.
9. All incidents referred to in terms of Section 24 of the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour and the Employer.
10 The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Occupational Health and Safety Act and into any incident involving a Contractor and/or his employees and/or his sub-contractor/s.
11. No use shall be made of any of the Employer's machinery / plant / equipment / substance / personal protective equipment or any other article without prior arrangement and written approval.
12. No alcohol or any other intoxicating substance shall be allowed on the site. Any person suspected of being under the influence of alcohol or any other intoxicating substance shall not be permitted access to, or allowed to remain on the site.
13. Prior to commencement of any work, verified copies of all documents mentioned in the agreement, must be presented to the Employer.

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PART C2 : PRICING DATA FOR WORKS

C2.1 Pricing Instructions

C2.2 Bill of Quantities

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C2.1 : PRICING INSTRUCTIONS

C2.1.1 Measurement and payment shall be in accordance with Clause 8 of the SABS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Works, subject to the variations and amendments contained in the section "Applicable SANS 1200 standardised specifications".

C2.1.2 Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Bill, the requirements of the Standardised or Scope of Work, as applicable, shall prevail.

C2.1.3 The clauses in a specification in which further information regarding the Bill item can be obtained appear under "Reference clause" in the Bills of Quantities. The reference clauses indicated are not necessarily the only sources of information in respect of schedule items. Further information and set specifications may be found elsewhere in the contract documents. Standardised Specifications are identified by the letter or letters which follow SABS in the SABS 1200 series of specifications, e.g. G for SABS 1200 G.

C2.1.4 Unless otherwise stated, items are measured nett in accordance with the drawings, and no allowance is made for waste.

C2.1.5 The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.

C2.1.6 The prices and rates to be inserted in the Bills of Quantities are to be the full inclusive prices for the work described under the several items. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. The prices will be used as a basis for assessment of payment for additional work that may have to be carried out.

C2.1.7 It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org or www.iso.org for information on standards).

C2.1.8 Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items

C2.1.9 A price or rate is to be entered against each item in the Schedule/Bills of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.

C2.1.10 Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.

C2.1.11 The units of measurement described in the Bills of Quantities are metric units. Abbreviations used in the Bills of Quantities are as follows :

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ha	=	hectare	h	=	hour
kℓ	=	kilolitre	kg	=	kilogram
km	=	kilometre	kW	=	kiloWatt
km-pass	=	kilometre pass	MN	=	MegaNewton
kPa	=	kiloPascal	MN.m	=	MegaNewton-metre
ℓ	=	litre	%	=	per cent
m	=	metre	PC sum	=	Prime Cost sum
mm	=	millimetre	Prov sum	=	Provisional sum
m^2	=	square metre	No.	=	number
m^2.pass	=	square metre-pass	R/only	=	Rate only
m^3	=	cubic metre	sum	=	lump sum
m^3.km	=	cubic metre-kilometre	t	=	ton (1 000 kg)
MPa	=	MegaPascal	W/day	=	Work day

C2.1.12 The Tenderer must price each item in the Bills of Quantities in **ORIGINAL BLACK INK**.

C2.1.13 All prices and rates shall exclude value added tax (VAT). The Tenderer shall calculate value added tax and enter it at the end of the summary of the Bills of Quantities.

C2.1.14 While the Employer has every intent to complete the full scope of works, the Employer reserves the right to reduce of increase the scope of works according to the dictates of the budget, or to terminate this contract, with adjustment to the agreed rates, sums or fees and without payment of any penalty in this regard. The Service Provider shall however be entitled to pro-rata payment for all services carried out in terms of any adjustment to the Scope of Work or, in the case of termination, remuneration and/or reimbursement.

Service Provider Initial

C2.2: BILL OF QUANTITIES

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 1: PRELIMINARY AND GENERAL

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	BILL NO 1: PRELIMINARY AND GENERAL				
	Allow for all preliminary and general items required to provide the electrical installation for this project, but excluding items priced elsewhere in these Bills (These amounts will be paid pro rata to the rest of the amounts claimed by the contractor)				
	CONTRACTUAL REQUIREMENTS				
1.1	Tenderers to allow for compliance with all the conditions of contract	Sum	1		
	INSURANCE & PERFORMANCE GUARANTEE				
1.2	Tenderers to allow for insurance of the Works, Public Liability, Plant and Equipment, Common Law Liability, and any other insurance as may be required.	Sum	1		
	SUPERVISOR				
1.3	Tenderers to allow for a full time working supervisor during the duration of the contract, who shall have the delegated authority to receive instructions and make decisions regarding this contract	Sum	1		
	HEALTH & SAFETY				
1.4	The Contractor shall, as a condition of the contract ensure that the site of the Works and the Works at all times comply with all relevant legislation regarding Health and Safety of employees, as well as public legimately on the Site or in the vicinity of the Site, while preventing unauthorised access to the Site of the Works. Contractor to comply to the OHS Act 1993 and as amended.	Sum	1		
	SITE ESTABLISHMENT				
1.5	Tenderers to allow for all costs which may be required in order to place the necessary facilities on site for safe storage and orderly management purposes for the duration of the contract, including all vehicles, living & accommodation and communication. The Client will make available a site meeting office and a store for storage of poles and hardware; the tenderer to allow for his own padlock and security of the materials in the store.	Sum	1		
	REMOVAL OF WASTE				
1.6	Tenderers to allow for all costs associated with cleaning the site of all rubbish and waste caused by this contract	Sum	1		
	PC AMOUNT FOR OHS OFFICER OF CLIENT				
1.7	PC Amount for OHS Officer by the Engineer	Sum	1	60 000,00	60 000,00
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 1: PRELIMINARY AND GENERAL

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
	GENERAL ITEMS Any additional items that the Tenderer deems necessary for the successful and total completion of the portion of the work required for this Bill (specify):				
1.8	a)	Sum	1		
1.9	b)	Sum	1		
1.10	c)	Sum	1		
1.11	d)	Sum	1		
Total Carried Forward To Summary					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 2: MEDIUM VOLTAGE DISTRIBUTION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	BILL 2: MEDIUM VOLTAGE DISTRIBUTION (11 kV)				
	11 kV RETICULATION				
	Supply, excavate, erect, install and compact medium voltage poles and strut poles, including strutpole hardware as specified in the Distribution Standard.				
2.1	a) Surveying and setting out of the complete overhead line route by a professional resgistered land surveyor.	Sum	1		
2.2	b) 11 m Wood poles, 180 mm to 199 mm top, with plant depth at 1,8 m	No	3		
2.2	c) 11 m Wood poles, 200 mm to 219 mm top, with plant depth at 1,8 m	No	6		
2.3	d) 9 m Wood poles, 160 mm to 179 mm top, with plant depth at 1,5 m	No	2		
2.4	e) 12 m Wood poles, 200 mm to 219 mm top, with plant depth at 2,2 m	No	2		
2.5	f) 14 m Wood poles, 200 mm to 219 mm top, with plant depth at 2,2 m	No	4		
2.6	g) 2.5 m Wood cross arm poles (D-DT-0320)	No	19		
2.7	g) 4.5 m Wood cross arm poles (D-DT-0320) cross members at 14 m H Poles	No	4		
	Supply, excavate, erect, install, backfill and compact medium voltage stays :				
2.8	a) Stay (D-DT-0341)	No	16		
	Medium voltage structures complete, including the supply and attachment of hardware to structures and the bonding of earths to the poles. All insulators to be 22kV.				
2.10	a) Intermediate/Suspension assembly (D-DT-1870), but with 3 x post insulators	No	3		
2.11	b) Strain assembly (1-60 deg) excluding cross-arm and pole measured above (D-DT-1763)	No	1		
2.12	c) Intermediate-Strain assembly (0 deg) excluding cross-arm and pole measured above (D-DT-1763)	No	4		
2.13	d) Strain assembly (60-90 deg) excluding pole and cross-arm measured above (D-DT-1742)	No	1		
2.14	e) Terminal assembly excluding pole and cross-arm measured above (D-DT-1746)	No	6		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 2: MEDIUM VOLTAGE DISTRIBUTION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
2.16	f) TRFR assembly, complete, excluding TRFR (H-pole) (D-DT-1863)	No	2		
2.17	g) MV in-line link assembly (D-DT-1851)	No	2		
2.18	h) 100 kVA 11 kV/400V Transformer with lightning arrestors and drop-out fuses (D-DT-1860 & D-DT-3021)	No	1		
2.18	i) 200 kVA 11 kV/400V Transformer with lightning arrestors and drop-out fuses (D-DT-1860 & D-DT-3021)	No	1		
2.19	j) PC Sum for 315 kVA 11 kV/400V Transformer with lightning arrestors and drop-out fuses (D-DT-1860 & D-DT-3021)	PC Sum	1	80 000,00	80 000,00
	Labeling				
2.22	a) The supply and erection of danger labels and identification labels as required by the Distribution Standard	No	2		
	Earthing				
2.23	a) Supply, excavate, install, lay and connect the single earthing to the MV network as per the Distribution Standard Part 2, Earthing Standard (including backfilling and compacting)	No	1		
2.24	b) Supply, excavate install, lay and connect the three point star earthing to the MV network as per the Distribution Standard Part 2, Earthing Standard (including backfilling and compacting)	No	5		
	Conductor				
	Supply, erect, install and string MV conductors complete including splicing, clamping, terminating, tensioning, sagging and attachment to line hardware at all types of MV pole structures:				
2.25	a) ACSR bare "Fox" conductor (total conductor length)	m	2 000		
2.26	b) ACSR bare "Mink" conductor (total conductor length)	m	1		Rate Only
2.27	c) ACSR bare "Hare" conductor (total conductor length)	m	1		Rate Only
	MV cable trenches				
	All cable trenching necessary to lay new cables, including backfilling. All to specification with 300 mm earth bed for cables in soft and hard rock trenches (500 mm wide x 1000 mm deep).:				
2.28	a) Excavations in earth 100%	m^3	10		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 2: MEDIUM VOLTAGE DISTRIBUTION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
2.29	b) Excavations in hard rock 0%	m^3	1		
2.30	c) Bedding (300 mm x 500 mm)	m^3	3		
2.31	d) Danger tape	m	20		
2.32	e) Supply and installation of concrete slabs panels (1400 mm long x 300 mm wide)	m	20		
	Medium Voltage cables				
	Supply, install medium voltage (6.35/11kV) insulated cable and material required:				
2.33	a) 70 mm^2 x 3C XLPE copper cable	m	50		
	Earth Wire				
	Supply and installation of bare stranded copper earth wire strapped to the relative size PVC insulated copper cables at 600 mm (minimum) intervals including terminations at both ends of each earth wire :				
2.34	a) 35 mm^2 bare stranded copper conductor	m	50		
	Cable terminations and joints				
	Supply and installation of Termination and Joints of MV cables :				
2.35	a) Outdoor terminations	No	1		
2.37	b) Cable joints	No	1		
	Bush Clearing				
2.37	Clear to a maximum (depending on the tower type and voltage) of an 8 m wide strip of all unwanted vegetation along the Centre line. Vegetation to be cut within 100 mm of the ground. Treat stumps with herbicide - measured as route length of 8 m wide. The use of herbicides shall be in compliance with terms of The Fertilisers, Farm Feeds, Agricultural Remedies and Stock Remedies Act 1947 (Act 36 of 1947). In terms of the above act, only a registered pest control operator may apply herbicides on a commercial basis. All application of herbicides shall be carried out under the supervision of a registered pest control operator.	m	250		
	General				
	Testing and Commissioning				
2.39	a) Allow for the testing, recording and commissioning of the MV network	Sum	1		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 2: MEDIUM VOLTAGE DISTRIBUTION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
	Any item which the contractor deems necessary for the successful completion of this assessment stage (state in detail):				
2.40	a)	Sum	1		
2.41	b)	Sum	1		
2.42	c)	Sum	1		
2.43	d)	Sum	1		
Total Carried Forward To Summary					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	BILL 3: LOW VOLTAGE DISTRIBUTION				
	400 V DISTRIBUTION				
	Low Voltage Distribution Kiosk (100kVA Transformer at Office)				
3.1	a) Supply, delivery and installation of a complete new 1,5 mm thick, 3CR12 steel, LV distribution kiosk including the switchgear as specified for a 100kVA transformer, with two hinged padlockable doors with padlocks as manufactured by an approved distribution board supplier and all signage (Prohibition of unauthorised handling or interference with apparatus) and labelling: **Main MCCB - 150A TP MCCB, TYPE CBI (hydraulic magnetic)** **Bus Bars - 3-Phases + Neutral and Earth** **Feeder breakers** 1 x 60A TP MCB, 3 x 100A TP MCB, All to be TYPE CBI hydraulic magnetic **Area Lighting Control** 1 x 30A TP MCB, 2 x 15A SP MCB (by-pass & contactor supply), 3 x 15A SP MCB (area lights-3 x circuits), 1 x 16A Photocell 1 x 30A AC3 Contactor All to be TYPE CBI hydraulic magnetic **Doors - Pad-lockable, Double doors, with 3-point locking and barker nelson handles.** **Mounting - Pole mounted, including support galvanise angle iron steel and brackets.** **Colour - The kiosks must be powder coated and the colour will be confirmed with the approval of the shop drawings by the Engineer.** **Future/Spare - Allow 30% spare/future space**	No	1		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
	b) Supply, delivery and installation of the following copper cables between the various distribution points in galvanised pipes bandit strapped to the pole including delivery on site, unloading and storing. Stranded copper core, PVC/PVC/SWA/PVC 600/1000V copper cables:				
3.2	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable between transformer and kiosk	m	15		
3.3	50 mm dia Galvanised pipe including stainless steel bandit strapping at 500 mm intervals	m	6		
	c) Supply, delivery and installation of the following copper cable terminations and glands:				
3.4	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable termination at transformer including UV protected heat shrink colour coded cover.	No	1		
3.5	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable termination and gland at kiosk	No	1		
	d) Supply, delivery and installation of the following copper cables from the transformer kiosk to the existing load cables, including delivery on site, unloading and storing. Stranded copper core, PVC/PVC/SWA/PVC 600/1000V copper cables:				
3.6	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.7	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.8	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.9	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.10	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
	e) Supply, delivery and installation of the following copper cable terminations and glands:				
3.11	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.12	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.13	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
3.14	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.15	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
	f) Supply and installation of bare stranded copper earth wire strapped to the relative size PVC insulated copper cables at 600 mm (minimum) intervals including terminations at both ends of each earth wire				
3.16	4 mm² bare stranded copper conductor	m	30		
3.17	10 mm² bare stranded copper conductor	m	30		
3.18	16 mm² bare stranded copper conductor	m	30		
3.19	25 mm² bare stranded copper conductor	m	60		
	g) LV Cable joint complete as per this specification				
3.20	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.21	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.22	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.23	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.24	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
	Disconnect and remove redundant equipment				
3.25	Disconnect and remove the redudant 200kVA, 22/11kV transformer and 11kV outdoor switch board, including redunadant MV cable and connections	Sum	1		
	Low Voltage Distribution Kiosk (Replacing LV kiosk of redundant 200kVA 22/11kV Transformer at Intake Substation)				
3.26	a) Supply, delivery and installation of a complete new 1,5 mm thick, 3CR12 steel, LV distribution kiosk including the switchgear as specified for a 200 kVA transformer, with two hinged padlockable doors with padlocks as manufactured by an approved distribution board supplier and all signage (Prohibition of unauthorised handling or interference with apparatus) and labelling:	No	1		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
	Main MCCB - 300A TP MCCB, TYPE CBI (hydraulic magnetic) **Bus Bars - 3-Phases + Neutral and Earth** **Feeder breakers** 1 x 100A TP MCB, 1 x 60A TP MCB 1 x 20A TP MCB All to be TYPE CBI hydraulic magnetic **Area Lighting Control** 1 x 30A TP MCB, 2 x 15A SP MCB (by-pass & contactor supply), 3 x 15A SP MCB (area lights-3 x circuits), 1 x 16A Photocell 1 x 30A AC3 Contactor All to be TYPE CBI hydraulic magnetic **Doors - Pad-lockable, Double doors, with 3-point locking and barker nelson handles.** **Mounting - Pole mounted, including support galvanise angle iron steel and brackets.** **Colour - The kiosks must be powder coated and the colour will be confirmed with the approval of the shop drawings by the Engineer.** **Future/Spare - Allow 30% spare/future space** b) Supply, delivery and installation of the following copper cables between the various distribution points in galvanised pipes bandit strapped to the pole including delivery on site, unloading and storing. Stranded copper core, PVC/PVC/SWA/PVC 600/1000V copper cables:				
3.27	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable between transformer and kiosk	m	30		
3.28	50 mm dia Galvanised pipe including stainless steel bandit strapping at 500 mm intervals c) Supply, delivery and installation of the following copper cable terminations and glands:	m	12		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
3.29	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable termination at transformer including UV protected heat shrink colour coded cover.	No	2		
3.30	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable termination and gland at kiosk	No	2		
	d) Supply, delivery and installation of the following copper cables from the transformer kiosk to the existing load cables, including delivery on site, unloading and storing. Stranded copper core, PVC/PVC/SWA/PVC 600/1000V copper cables:				
3.31	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.32	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.33	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.34	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.35	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
3.36	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	m	30		
	e) Supply, delivery and installation of the following copper cable terminations and glands:				
3.37	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.38	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.39	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.40	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.41	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.42	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
	f) Supply and installation of bare stranded copper earth wire strapped to the relative size PVC insulated copper cables at 600 mm (minimum) intervals including terminations at both ends of each earth wire				
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
3.43	4 mm² bare stranded copper conductor	m	30		
3.44	10 mm² bare stranded copper conductor	m	30		
3.45	16 mm² bare stranded copper conductor	m	30		
3.46	25 mm² bare stranded copper conductor	m	60		
3.47	35 mm² bare stranded copper conductor	m	30		
	g) LV Cable joint complete as per this specification				
3.48	6 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.49	16 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.50	25 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.51	35 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.52	50 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
3.53	70 mm² x 4-core copper core PVC/PVC/SWA/PVC cable	No	2		
	Repair existing Low Voltage Distribution Kiosks				
3.54	Repair and make safe the pole mounted kiosk-1 door at the LV kiosk at Rooi Baksteen Community, and supply and install the required electrical signage and labelling.	Sum	1		
3.55	Repair and make safe the pole mounted kiosk-2 door at the LV kiosk at Rooi Baksteen Community, and supply and install the required electrical signage and labelling. For rewiring and re-instatement of streetlight control system.	Sum	1		
	LV cable trenches All cable trenching necessary to lay new cables, including backfilling. All to specification with 300 mm earth bed for cables in soft and hard rock trenches (500 mm wide x 750 mm deep).:				
3.56	a) Excavations in earth 100%	m³	56		
3.57	b) Excavations in hard rock 0%	m³	1		
3.58	c) Bedding (300 mm x 500 mm)	m³	22,5		
3.59	d) Danger tape	m	150		
Total Carried Forward					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 3: LOW VOLTAGE RETICULATION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward					
	General				
	Testing and Commissioning				
3.60	Allow for the testing, recording and commissioning of the LV network	Sum	1		
	Any item which the contractor deems necessary for the successful completion of the assessment stage (state in detail):				
3.61	a)	Sum	1		
3.62	b)	Sum	1		
3.63	c)	Sum	1		
3.64	d)	Sum	1		
3.65	e)	Sum	1		
3.66	f)	Sum	1		
Total Carried Forward To Summary					

Service Provider Initial

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

BILL 4: COMMISSIONING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	BILL 4: COMMISSIONING				
	COMMISSIONING				
4.1	Tenderers to allow for all the commissioning requirements, including testing, attendance, as-built drawings, manuals, etc. as set out in the specification, prior to the installation being taken over as complete.	Sum	1		
	GENERAL ITEMS				
	Any additional items that the Tenderers deems necessary for the successful and total completion of the portion of the work required for this Bill (Specify)				
4.2	a)	Sum	1		
4.3	b)	Sum	1		
4.4	c)	Sum	1		
4.5	d)	Sum	1		
4.6	e)	Sum	1		
4.7	f)	Sum	1		
	Total Carried Forward To Summary				

Service Provider Initial

SUMMARY

Bid No: NC/DALC/2060

JAN KEMPDORP: VAALHARTS RESEARCH STATION - ELECTRICITY REPAIRS: PHASE 1
Schedule of Quantities

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT R
1	BILL 1: PRELIMINARY AND GENERAL	
2	BILL 2: MEDIUM VOLTAGE DISTRIBUTION	
3	BILL 3: LOW VOLTAGE RETICULATION	
4	BILL 4: COMMISSIONING	
	SUB-TOTAL	
	PLUS 15% VAT	
	TOTAL TENDER PRICE CARRIED FORWARD TO FORM OF TENDER	

Project Name:

Funding: CASP

For Employer:

Specification Committee	Name	Signature	Rank	Office	Date
Compiled:	Hendrik Jonck		Electrical Engineer	MVD Kalahari - Kimberley	Oct 2024
Checked:	M. Tolmie		DD	Upington	16/10/24
Checked:	J.P. Smit		CIT	Upington	16/10/24
Approved:	T. Moncho		DD	Kimberley	16/10/24

Project Office	Name	Signature	Rank	Office	Date
Checked:					

For Contractor:

Signature(s) .....

Name(s) .....

Capacity .....

For the Tenderer .....
(Name and address or organisation)

Date .....

Service Provider Initial_____

PART C3 : SCOPE OF WORK

C3.1 Description of the Works

C3.2 Engineering and specifications

C3.3 Procurement

C3.4 Construction

C3.5 Management

C3.6 Occupational Health and Safety Specification

C3.7 Environmental Management

C3.8 Annexures

Service Provider Initial_____

DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVES

The employer's objectives are to provide safe and sustainable electrical infrastructure for on-going development.

C3.1.2 OVERVIEW OF THE WORKS

The works include: Erection of new 11kV overhead power line with pole mounted transformer to replace existing 11kV underground system.

Contractor should make himself aware of the soil conditions for all excavation regarding hard rock on site. The contractor will have to deal with this in close proximity to other fences and buildings and allowance for such to be made in the pricing schedules.

Labour-intensive work shall be constructed using local workers who are temporarily employed in terms of this Scope of Work.

C3.1.3 EXTENT OF THE WORKS

Refurbishment and upgrading of the existing electricity network at the Vaalharts Research Station, Phase-1, Jan Kempdorp, Northern Cape. will have the following works:

- Site Establishment
- Excavations
- Repair of MV and LV cable faults-cable joints
- New MV and LV cable terminations and connections
- Replacement of 400V LV Distribution boards/kiosks
- Switching of MV and LV network including outage permits
- Testing and commissioning, including COC's

Construction methods must be such that no property or life is endangered. The Employer accepts no responsibility for work that is done outside the site boundaries without the Engineer's approval.
The Contractor must program his work in such a way that no construction is to be done during the December Contractor's break and Easter weekend as set out in the Contract Data.

The compilation of the construction program and any amendments thereto during the course of construction shall be at the cost of the Contractor and shall not be measured elsewhere in this contract.

Service Provider Initial_____

C3.1.4 LOCATION OF WORKS

The site is situated near Jan Kempdorp.

The Coordinates are: [

Access to the site is via existing roads.

It is required of the contractor to familiars themselves with the area.

Refer to Annex A for a Locality Plan

C3.1.5 ABNORMAL RAINFALL

The source for rainfall statistics shall be taken as listed in WB 40 of the Weather Bureau, Department of Environment Affairs, for the determination of Rn and Nn as specified in GCC 5.12.2.2 (see Contract Data (Part 1)).
The Contractor shall keep daily rainfall records and submit them to the Engineer at every site meeting. No additional costs shall be made for the supply and installation of the rain gauge or for the keeping of the rainfall records and all costs must be included in the appropriate items.
Add the following to GCC 5.12.2.2

a) Abnormal climatic conditions

No extension of the time for completion shall be granted on the grounds of normal rainfall conditions, but extension of time in terms of clause 5.12.2.2 of the General Conditions of Contract (2010) on the grounds of abnormal rainfall or wet conditions shall be calculated separately for each calendar month or part thereof.

See item 3.5.11 for calculation formula in order to calculate the time of completion, including any extension. $V = (Nw - Nn) + \frac{(Rw - Rn)}{X}$

V	=	Extension of time for calendar days of the calendar month concerned. If the value of V is negative and the absolute value thereof is greater than Nn, V is taken as negative Nn.
Nw	=	Actual number of days during calendar month of construction on which a rainfall of Y mm or more is recorded.
Nn	=	Average number of days in the calendar month concerned on which a rainfall of Y mm or more is recorded in terms of existing rainfall.
Rw	=	Actual rainfall for the calendar month concerned in mm.
Rn	=	Average rainfall for the calendar month in mm deduced from existing rainfall data.

Service Provider Initial_____

For the purpose of this contract the values, Nn, Rn, X and Y will be the following:

Rainfall Station :

Average Rainfall :

Average No of Days with Rainfall exceeding 10 mm :

Nn	Rn

X = 20 ..... Y = 10

The total extension of time is the algebraic sum of the monthly totals for the period concerned. Extension of time for parts of a month shall be calculated by using pro rata values of Nn and Rn. If the algebraic sum of the monthly totals is negative, no reduction of the time for completion as a result of rainfall shall be applicable. This formula does not take any delays as a result of flood damage which may cause further or simultaneous delays into consideration and flood damage shall be treated separately for purposes of extension of time for completion. The factor (Nw – Nn) is considered as a fair allowance for deviation from the normal for the number of days on which the rainfall exceeds Y mm. The factor (Rw – Rn)/X is considered as a fair allowance for deviation from the normal for the number of days on which the rainfall does not exceed Y mm, but on which wet conditions will hamper or disrupt work.

Service Provider Initial_____

ENGINEERING AND SPECIFICATIONS

C3.2.1 DESIGN SERVICES AND ACTIVITY MATRIX

Works designed by, per design stage:

Concept, feasibility and overall process	Employer (Engineer)
Basic engineering and detail layout to tender stage	Employer (Engineer)
Final design to approved for construction stage	Employer (Engineer)
Temporary works	Contractor (Engineer)
Preparation of "as built" drawings	Contractor

C3.2.2 DRAWINGS

Additional construction drawings will, in terms of Clause 5.9.1 of the General Conditions of Contract (2010 2nd Edition), be issued to the Contractor by the Engineer/Employer on the commencement date and from time to time as required.

Drawing number & Title

- Drawing 1 50026/K/D/D/001 - DRAWING LIST
- Drawing 2 50026/K/G/L001 - VAALHARTS-PROPOSED OVERHEAD LINE
- Drawing 3 50026/K/G/S/001 - VAALHARTS-EXISTING ELECTRICAL LAYOUTSINGLE LINE DIAGRAM OF NETWORK AND LV DB'S
- Drawing 4 50026/K/MV/D/001 - PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 1]
- Drawing 5 50026/K/MV/D/002 - PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 2]
- Drawing 6 50026/K/MV/D/003 - PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 3]
- Drawing 7 50026/K/MV/D/004 - PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 4]
- Drawing 8 50026/K/MV/D/005 - PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 5]

Service Provider Initial_____

C3.2.3 CONTRACT SPECIFICATIONS

C3.2.3.1 SCOPE OF WORKS

C3.2.3.1.1 Preliminary, General Costs and Site Establishment

C3.2.3.1.1.1 *Site Establishment*

a) Contractor's Yard Fencing

The cost to the Contractor to make provision for and to erect, alter as necessary, maintain, remove and make good on completion of the Works suitable fencing with access gates, etc as necessary for the enclosure of the contractor's yard, all to the satisfaction of the Employer's Representative. If other suitable and safe storage facilities have already been provided, this item need not be priced.

b) *Contractor's insurance (insurance payments, provide certificates)*

The cost to the Contractor to make provision to pay all deductibles (excesses) for the risks that he may encounter during the execution of the Works, further explained in the Contract document.

c) Site Offices (establish & maintain)

The cost to the Contractor to make provision for a site office, suitable for regular site meetings, which must also serve as the office for the Contractor's site supervisor. Adequate workspace must also be provided for the Project Manager or his Representative, as well as a place of safekeeping for his site plans and documentation.

d) *Site Stores* (establish & maintain for safe keeping of the materials)

The cost to the Contractor to make provision for the safe storage of material on site against theft as well as protection against damage due to wind or weather.

e) ***Accommodation of Employees***

The cost to the Contractor to make provision for accommodation for his employees that are working on a site which is not close to their home base for an extended period.

f) Contractor's Plant, Equipment & Tools (establish, maintain and remove)

The cost to the Contractor to make provision for the necessary Plant, Equipment and Tools for the execution of the Works, maintain it in a proper and safe working condition and remove on Completion.

g) Sanitary Facilities

The cost to the Contractor to make provision for and maintain in a thoroughly clean and tidy condition and remove on completion of the Works, proper toilets for the use of the workmen

Service Provider Initial_____

h) Water Supplies

The cost to the Contractor to make provision for all water necessary for the execution of the Works, including all temporary plumbing, removing same and making good on completion of the Works. Potable drinking water should also be made available for the workmen.

i) *Electricity Supplies*

The cost to the Contractor to make provision for all electricity and artificial lighting necessary for the execution of the Works, including all temporary installation work, removing same and making good on completion of the Works.

j) *Communications* (telephones, e-mail, faxes)

The cost to the Contractor to make provision and to maintain a proper telephone or cell phone communication system as well as an e-mail and a fax facility until completion of the Works.

k) Security (24 hours)

The cost to the Contractor to make provision for all appropriate measures for the general security of the Works.

l) *Setting out the Works*.

Cost to the Contractor to provide templates, jigs, instruments (dumpy levels) etc. and to set out lines and levels for excavations, concrete plinths, buildings, structures, fencing, drainage, etc. This must also include the confirmation of the relevant erf pegs required to erect the new structures for this project.

m) *Management & Programme for the works (appointment of a Supervisor)*
(Compulsory to list the name of supervisor for the duration of contract.)

The cost to the Contractor to make provision for the employment of a competent supervisor to supervise and manage the execution of the Works as well as to prepare a detailed programme and supporting documentation for the execution of the contract including the work of all approved subcontractors engaged by Employer, representing the information that is required by the Works Information in sufficient detail to enable the Employer's Representative to assess the progress of the works at all times in comparison with the programme.

C3.2.3.2 Health & Safety (OHS Act, Construction Regulations and Safety *Specifications)*

C3.2.3.2.1 Personal Protective Equipment

The cost to the Contractor to make provision to replace PPE only when required and not to purchase new PPE for each project. Only the PPE required for the risks exposed to during the Contract period should be priced. Typical PPE (Hard hats, Safety goggles or shields, Respirators, Gloves, Safety shoes, Overalls, Fall Arrest Systems, Testing of equipment.

Service Provider Initial_____

C3.2.3.2.2 Compliance with Safety Plan & Safety File

The cost to the Contractor to make provision to comply with the list of requirements to draw up a H & S plan for the project and compile and maintain a H & S File.

C3.2.3.2.3 Health & Safety Training

The cost to the Contractor to make provision for H&S training as well as the cost of the idle (unproductive) time of his employees whilst undergoing H & S training.

C3.2.3.2.4 Legal appointments in terms of the OHS Act and Regulations

The cost to the Contractor to make provision for the appointees in terms of the OHS Act and Regulations i.e., qualified first aider, construction site Health and safety officer, incident / Accident investigator, if not part of the construction teams of the Contractor, and appointed full time for this purpose. The additional cost of their employment which cannot be recovered through contract rates, should be allowed here.

C3.2.3.2.5 Other Health and Safety items deemed necessary to comply to OHS Act, Regulations and Safety specifications.

The cost to the Contractor to make provision for the cost to comply to any other requirement of the OHS Act, i.e., to notify the Department of Labour of the Construction project, time and cost to do and record daily Risk assessments, taking responsibility of Sub Contractors' compliance in terms of the OHS Act (Safety Plan and File), constant updating of the Health and Safety File, etc.

C3.2.3.2.6 Provision of Standards and Specifications

The cost to the Contractor to obtain Standards and Specifications that are referred to in this Contract document but are not supplied in hard copy format by Eskom.

C3.2.3.2.7 Special transport of workers to, at and from site i.t.o. OHS Act.

The cost to the Contractor to provide safe transport to his employees at, to and from the construction site in terms of the Construction Regulations Clause 21 (2) (a) and (i)

C3.2.3.3 Environmental Management

Compliance with environmental legislation as well as environmental specifications included in or referred to in this document.

The cost to the Contractor to obtain permits should it become necessary to cut a protected tree, ensure that waste is disposed of on a permitted, legal waste site and all relevant costs payable to dumping site.

C3.2.3.3.1 General

a) Completion and submission of the Expanded Public Works Programme Report

Service Provider Initial_____

The cost to the Contractor to complete the report (one page) attached to this Contract document and submitted to the Project Manager upon completion of new electrical infrastructure and refurbishment projects.

b) Provide for the repair to damaged water reticulation pipes

The projected cost to the Contractor of repairing damaged water reticulation and/or other underground services that were not indicated on drawings or which a superficial search by the Contractor, did not reveal.

c) Collecting, updating and processing of CC&B information on site

The cost of employment of a person(s) to collect, update and to process the Customer (CC&B) Data on site.

d) Items deemed necessary for the completion of this Assessment Stage (must be specified below, if not, the cost will not be considered by Employer as part of the "Prices".)

Any other cost or contingency identified by the *Contractor* which is not covered in the Site Establishment and could have a cost implication to the *Contractor*. Must be specified to warrant inclusion in the Price Schedule.

Notes:

i) The *Contractor* is referred to the contract documents for the full intent and meaning of each clause or item. He shall allow opposite each clause or item herein contained whatever payments he may consider necessary for the carrying out and observance of such item.

ii) The *Contractor* shall price the Preliminaries and General Activities, in respect of all payments required for any item of work, risk, contingency or obligation, whatsoever that is not described in the Activity Schedule and which is the responsibility of the *Contractor* under the contract.

iii) The *Contractor* shall, when requested by *Employer*, make available to *Employer* the detailed breakdown of each priced item in Activity Stage 1: Preliminaries and General.

iv) In the event of the *Contractor* not pricing the items of the Preliminaries and General Activities in sufficient detail, the *Employer* reserves the right to exercise it's own discretion in the apportionment to individual items of the total Preliminary and General prices within the contract documents.

C3.2.3.4 MV RETICULATION

C3.2.3.4.1 *Scope*

The DISTRIBUTION STANDARDS Parts 4 and 22 as well as specific requirements applicable to the North Western region as available from the Distribution North Western region web site (Technology and Quality) forms the basis on which the *Contractor* has to construct the works.

Service Provider Initial_____

C3.2.3.4.2 MV Focus Areas to be Applied Where Applicable

a) New transformers will be provided by the Contractor, which will, prior to installation and erection, be tested as specified. No transformer installation shall be accepted without a properly completed transformer test report as supplied by the Project Manager. The 11 kV/400V, DYN11, distribution pole mounted transformer shall comply with SANS 780 and must include the following requirements:
- Copper Windings
- Off-load tap changer with five taps, -5%, -2,5%, 0%, +2,5%, +5%.

b) Each transformer and switching point shall be labelled according to the coding system shown on the drawings or as determined on site. This labelling shall be done in the form of permanent white letters using a stencil and spray paint. The height of the letters shall be at least 50 mm and the label shall be clearly visible from ground level.

In addition to the label, the rating (in kVA) of the transformer shall be given in a similar fashion.

c) Pistol grip straining clamps to be fitted at all road crossings (proclaimed roads)

d) Internal township MV intermediate structures to comply with DD – T 1730 (with small T- cross arm). Angle to be done by using 2,5m wooden cross-arms, D-DT 1746 and T-off 1804. (Vertical angles will not be accepted). All main MV feeders through towns will be constructed with the 2m steel cross arms, bird friendly (D-DT 1870 etc.)
•

e) Ensure that struts (D-DT 0351) and stay rods are planted according to the correct depth and not bended (D-DT 0350).

f) Ensure stays, poles and struts are compacted

g) Ensure dead-ends are fitted with a regulating eye. The contractor must have this tool as part of his equipment on site.

h) PG clamps to be used on all non-tension joints and fitted according to manufacturer requirements.

i) No BIL down wires to be fitted on any structures inside towns.

j) Cross arms (take-offs) (rural lines) fitted to an existing or new pole with a BIL down wire must not be bonded and the BIL wire not to be removed.

k) Barbed wire to be used as anti-climbing device and installed at all positions as stipulated in technical bulletins 05TI-09 and 03TB-08. Danger signs as per specifications will be installed on all strut poles and poles with equipment.
•

l) Ensure that the clearances in game reserves / farms adhere to the minimum height as stipulated in the Technical Bulletin 04TB-27

Discrepancies between any of the Construction Drawings, *Employer*'s DDT Drawings, Spanning sheets, Bill of Materials and Specifications will be brought

Service Provider Initial_____

immediately to the attention of the Project Engineer via the Project Manager. All surveys (MV & LV) will be done by the *contractor*. The *contractor* to survey according to the approved SG plan AND NOT ACCORDING TO THE YARD FENCES ON SITE. The MV ASCII file to be completed by *Employer* Survey and the *contractor* to arrange for this to be done via the COW once pegged. PM to ensure that *Employer* survey is involved and aware of the project prior to the construction of the project. The *contractor* to ensure that the networks surveyed adhere to the following requirements:

Clearances between conductors and ground, houses/dwellings, vegetation, Telkom etc. are according to the *Employer* minimum requirements

- Ensure that lines do not cross graveyards, soccer fields etc.

Applications were done for rail and road crossings in conjunction with the Employer survey department prior to construction.

The Contractor may not change routes that will influence voltage drops, have an influence on the costs or the practical operation and maintenance of the electrical network. If areas of uncertainty exist, the Engineer will be contacted immediately.

No trees will be trimmed or totally cut without the permission from the Land Owner and in rural areas from the Local Leader. Trees that are legally protected may only be cut with a permit. The Contractor to ensure that these permits are in place before any trees is cut.

a) The following are general construction related aspects and will take preference to any other drawing and / or specification:

All conductors will be tensioned according to Technical Bulletin 02TB-034 and Tension Charts provided. The following steps will be followed:

- A calibrated Dynometer, Thermometer and calculation material will be used.
- Measure the distances between strain points.
- Calculate the equivalent span length according to the following formula:

$$Leq = \sqrt{((L1^3 + L2^3 + L3^3 + ...) / (L1 + L2 + L3 + ...))}$$

Where

Leq : Equivalent Span Length
L1, L2 etc : Intermediate Span Lengths between Strain Points

- Read the relevant Tension from the Sag and Tension charts using the conductor temperature and equivalent span length.

Service Provider Initial_____

- The phases will protrude above the top of the pole and cut in staggered lengths. All phases will be tensioned. The following data that will be handed to the Project Coordinator as part of the Handing Over Document:

- Date, Span (between tension poles), Temperature, Equivalent Span Length, tension.

b) All open excavations will be considered as dangerous. It will be clearly marked with danger tape that is at least 1 m from the edge of the excavation and at least 1m in height.

c) All incorrectly drilled holes in wood poles must be painted with creosote and plugged with dells that fit the hole firmly.

d) MV poles to be labelled according to the Works Procedure for Labelling of MV Overhead lines DISPVWAA3 rev2 (latest revision)

e) Cables to be installed in accordance with the following specifications: following are general construction related aspects and will take preference to any other drawing and / or specification.

- All cables to be installed in accordance with Employer Distribution Standards, Part 22.

- Cables to be laid directly into the ground, D-DT-0854, latest revision.

- Install warning tape, D-DT-8013, directly above the cable at a depth of 300 mm below ground level, (MV and LV and underground service cables).

- Cables crossing runways or slipways to be installed to D-DT-8018.

- Cable route markers, D-DT-8012, to be installed at each bend, road crossing and cable trench crossing. The base of the cable marker to be at a depth of 250 mm below natural ground level.

- The following shall be punched onto the aluminium plate of the cable route marker:

  - an arrow indicating the cable route,
  - cable type and size
  - the circuit number indicated on the electrical diagram.

f) Jumpers to MV auxiliary equipment must adhere to Technical Bulletin 02TB 023.

g) The Contractor must comply with Technical Instruction 02 TI 012 (latest) when the MV structure D-DT 1747 is constructed.

h) Poles, Stays & Struts planted in type 3 and 4 soils to be installed according to Technical Instruction 06TI-019, as well as Technical Bulletin 06TB-035, dated 15 January 2007

i) The contractor must have a cable car on site. Damaged MV conductor unrolled

Service Provider Initial_____

wrongly will be replaced at the contractors cost. Only the standard MV porcelain type stay insulator to be used. The fibre glass rod type will not be accepted.

j) It is the Contractors responsibility to ensure that wooden poles delivered on site is stacked according to the required standard, DISPVABY3.

k) The contractor to tender for normal soil or as specified by the Design Engineer in the Price List. The Contractor to provide a rate for all the soil types in Part 2: Type 4 (very soft soil), Type 3 (soft to firm), Type 2 (very soft rock), Type 1 (soft rock) and Hard rock. The contractor will only be remunerated for the actual soil types on site. To claim for other soil types as tendered for the COW will have to confirm the soil types on site before closing the holes. No payments will be made if the before mentioned are not verified and confirmed by the appointed COW.

l) No transformers to be installed on corners and the designer to try and prevent any LV road crossings from the transformer structures.

m) MV pole structures shall be positioned in road reserves at 500mm from stand boundaries and/or to line up with the existing structures.

C3.2.3.5 LOW VOLTAGE DISTRIBUTION KIOSKS

a) The contractor will be responsible for the supply and installation of pole mounted low voltage kiosks. The new pole mounted double door weatherproof kiosks (kiosk edge weatherproof bend) shall be manufactured from 3CR12, 1,5mm thick steel, including bus bars (3-phases + Neutral and Earth), main circuit breaker and feeder circuit breakers.

b) Transformer LV Kiosk schedules:

100kVA Transformer (6kA) - Office

Main MCCB	150A TP MCCB, TYPE CBI (hydraulic magnetic)
Bus Bars	3-Phases + Neutral and Earth
Feeder breakers	1 x 60A TP MCB, 3 x 100A TP MCB, All to be TYPE CBI hydraulic magnetic
Area Lighting Control	1 x 30A TP MCB, 2 x 15A SP MCB (by-pass & contactor supply), 3 x 15A SP MCB (area lights-3 x circuits), 1 x 16A Photocell 1 x 30A AC3 Contactor All to be TYPE CBI hydraulic magnetic
Doors	Pad-lockable, Double doors, with 3-point locking and barker nelson handles.
Mounting	Pole mounted, including support galvanise angle iron steel and brackets.

Service Provider Initial_____

Colour	The kiosks must be powder coated and the colour will be confirmed with the approval of the shop drawings by the Engineer.
Future/Spare	Allow 30% spare/future space

200kVA Transformer (10kA) – Intake Substation

Main MCCB	300A TP MCCB, TYPE CBI (hydraulic magnetic)
Bus Bars	3-Phases + Neutral and Earth
Feeder breakers	1 x 100A TP MCB, 1 x 60A TP MCB 1 x 20A TP MCB All to be TYPE CBI hydraulic magnetic
Area Lighting Control	1 x 30A TP MCB, 2 x 15A SP MCB (by-pass & contactor supply), 3 x 15A SP MCB (area lights-3 x circuits), 1 x 16A Photocell 1 x 30A AC3 Contactor All to be TYPE CBI hydraulic magnetic
Doors	Pad-lockable, Double doors, with 3-point locking and barker nelson handles.
Mounting	Pole mounted, including support galvanise angle iron steel and brackets.
Colour	The kiosks must be powder coated and the colour will be confirmed with the approval of the shop drawings by the Engineer.
Future/Spare	Allow 30% spare/future space

C3.2.3.6 CABLES

This clause covers the supply, delivery, installation and connection of all low tension and high-tension cables as indicated on the drawings.

C3.2.3.6.1 General

The storage, transport, handling and laying of underground cables shall be done according to approved and accepted methods. The contractor shall ensure that he has sufficient and suitable equipment as well as adequate labour at his disposal, thereby preventing damage to the cables at all times.

Twisted, kinked or cables damaged in any way will be rejected.

Provisional lengths of cables only are indicated in the Schedule for Cables for the purpose of tendering. The onus is however, on the contractor to measure the actual lengths of cable required before ordering. All measurements are only to be done after any possible alterations to cable routes or positions of substations etcetera have been made by the Engineer. Reasonable allowances have been made to the provisional lengths in the Schedule for Cables for joints, cable ends, circuits etc. but payments

Service Provider Initial_____

shall only be made for actual lengths of cable installed. Excess cable shall not be considered for take-over.

C3.2.3.6.2 Installation of cables

Cables must be laid in servitude positions as indicated on drawings and cable trenches within the electricity servitude shall be 750mm deep for low tension cables and 1,000 mm for high tension cables. Trenches shall be 300mm wide for single or double cables.

In the event of more than two cables having to be laid in one trench, the trench shall be proportionately increased in width over the whole length of the trench so that the cables are spaced 150mm apart. The bottom and sides of the trenches shall be even and free from any object that may damage the cable.

The contractor shall provide and supply all materials necessary to cover trenches so that no injury to the public is caused. Further, all precautions are to be made to prevent damage and subsidence to buildings, roads, sewerage or any other property on the site.

All cable trenches are to be inspected and approved before any cables are laid. Cable drums are to be adequately supported on adequate jacks or on drum trailers when cables are being rolled off, thereby reducing any possible twisting, tension or other damage being inflicted upon the cable.

Cables are to be laid on a 150mm thick layer of soil and then covered with another 150mm thick layer of soil before the trench is completely filled. (The above-mentioned soil is to be approved sand or soft soil).

The cables must be laid following the routes indicated on the drawings and the servitude dimensions are to be strictly adhered to. Where necessary, revised routes shall be determined on site in conjunction with the Engineer/ Representative.

At each indicated position where cables pass below buildings, streets or pitch fibre pipes, PVC pipe sleeves shall be provided through which the cables are to be installed. The sleeves will be unbroken, will extend from sidewalk to sidewalk, and will also extend past each curb.

Where cable routes and other services cross over (for example Post office cable) the cable is to be protected and laid to the satisfaction of the other service. A 50mm thick concrete block shall however extend 300mm on either side of the cables.

The contractor shall give special attention to cables being pulled through pipes and channels to prevent such cables from being stretched, twisted or scoured. All such pipes and channels shall be properly sealed in an approved manner after all cables have been installed.

Service Provider Initial_____

Approved brass recessed in concrete cable markers are to be installed above cables at suitable points to indicate the positions of the cables, joints and changes in direction. Where excavations are done in the vicinity of existing cables or where existing cables are to be exposed, only labourers who are competent and familiar with this type of work may be used.

Such excavations may only be done with the use of hand tools and only shovels may be used within 300mm of the existing cables.

Back filling of the trenches shall be done in layers of 150mm and each layer shall be thoroughly compacted before the following layer is filled in.

In order to protect the cable the contractor shall install a 150mm wide standard plastic warning tape. The marker tape shall be approximately 300mm above the cable and shall run the full length of the cable. An additional 50mm layer of soil shall be placed over the tape before the final back filling is done.

C3.2.3.6.3 Cable joints, terminations and cable ends

a) General

The number of cable joints must be kept to a minimum and these shall only be permitted if the length of the cable is longer than that provided on a new drum. All joints and the termination of the ends of underground cables shall be done by competent cable jointers in accordance with approved and accepted practice. Joints and ends must be done in strict accordance with the manufacturer requirements and specification. In all instances where joints are carried out, a hole of sufficient size must be made in order that the joints can be properly made.

The ground beneath the cable joints must be firmly compacted to prevent sagging of the joints.

If cut cables cannot immediately be terminated, the cable ends must immediately be sealed off.

b) HT Cables and Terminations

This item includes the supply and installation of the required lengths of 6,350/11,000V, 70mm², three-core, paper insulated, lead covered, steel tape, PVC sheath, screened cable (table 19), with stranded copper conductors.

The cable shall be installed as indicated on the drawings.

A 70 mm² bare stranded copper earth conductor shall be installed with the new HT cable. The ends of the earth conductor shall be terminated to the MV earth mat at each substation and the new Airfield Switching Station.

C3.2.3.6.4 Cable terminations and joints with cold shrink or heat shrink materials

Service Provider Initial_____

a) General

The complete kit shall be packed in a container that is marked for the type of cable insulation and construction as well as the voltage range for which the materials are suitable.

An illustrated set of instructions for the installation of the materials shall accompany every kit.

The joints and terminations shall make minimal, if any, use of insulating or stress relieving tapes. The use of electrical stress control and insulating tubing that is shrunk onto the termination or joint, is preferred above other methods.

The shrinkable and other materials used for the terminations and joints shall be of a high quality and shall retain their electrical and mechanical properties without deterioration.

b) Termination

Where a crossover of conductors is required a purpose made spacer for the conductors shall be installed.

In the case of XLPE terminations connect the three internal ECC conductors to the armouring and earth.

Terminations shall be made of a material that gives lasting protection against ultraviolet radiation.

The cores of all cables terminated outdoors, and the cores of 3,3 kV and higher voltage cables terminated indoors, shall be completely covered with a shrunk-on protective layer against surface tracking, ultra-violet radiation and weathering.

Outdoor terminations shall be designed to prevent flashover under wet or contaminated conditions. This shall be achieved with shrunk-on insulating spacers and rain sheds.

c) Joints

The electrical continuity of all the conductors, screens and armouring shall not be impaired by the joints and the earth continuity shall be accomplished within the joints, i.e. no external armouring continuity conductor that will be subject to corrosion, is acceptable. The joints shall be completely covered by a watertight sheath to prevent corrosion.

In the case of joints in cables with an outer PVC anti-electrolysis sheath, the joints shall be subject to the same electrical insulation test as the outer sheath of the cable.

Joints in XLPE cables shall be achieved by means of jointing kits supplied by the cable manufacturer and the jointing shall take place under the same conditions as specified in Clause C3.4.1.11.4

d) LT Cables and terminations

Service Provider Initial_____

This item is the supply, installation, testing and commissioning of the LT cable installation as detailed on the drawings and in the schedules of this specification.

C3.2.3.6.5 PVC SWA PVC Power Cable

The conductors are to be of high conductivity copper insulated with one layer of PVC.

The colour of the cores shall be as follow:
Four cores: one red, one white, one blue and one black: - for three phase loads with separate BCEW

The cores are to be twisted together, bedded, and sheathed with PVC (preferably black) armoured with a layer of galvanised steel wire, bedded and served with PVC (preferably black).

All insulation shall be for general service 660-volt grade.

C3.2.3.6.6 PVC SWA PVC Power Cable Glands

The glands shall be of the adjustable type and must be suitable for PVC SWA general-purpose 660volt cable.
The non-watertight glands must be easily converted to watertight glands by means of a waterproofing shroud.

The glands are to be made of copperplate and heavily tinned bronze or brass, and shall consist of a barrel, with a cone nut carrying a cone bush screwed into one end, and a hot tinned steel nipple carrying a heavy galvanised steel locknut screwed into the other end. They shall be of the captive cone type, with integral earth lug.

On the cable entrance side of the barrel, a round groove must be provided, for taking the top of the waterproofing shroud.

The shrouds are to be made of non-deteriorating neo-preen or synthetic rubber, and shall be resistant to water, oil and sunlight. The shrouds shall tightly fit around the glands and cable.

C3.2.3.6.7 Power Cable Terminations

Power cable terminations, connections and joints shall be facilitated by means of the use of a portable hydraulic compression tool with pre-set automatic tamperproof hydraulic unloading by-pass valve, the entire tool being either bought from, hired, or approved by the Cable Manufacturer.

Approved lugs or ferrules shall be crimped to the cable cores in all cases. No other method of termination or joint shall be allowed.
Where aluminium and copper or brass is in intimate contact and especially where the joint so formed is current carrying, "Densal" jointing paste or other approved paste or treatment shall be used.

Service Provider Initial_____

C3.2.3.6.8 Testing of cables

Following completion of the installation of the cables for each section, the insulation resistance shall be tested with an approved "Megger" type instrument. This test shall be performed at a terminal voltage of 625V for LT cables and not less than 1,000 V for HT cables. The results of the test shall be witnessed by and be to the satisfaction of the Engineer/Representative and a representative of the local supply authority.

Testing of impregnated paper-insulated and XLPE-insulated medium-voltage cable shall be in accordance with SANS 97 and SANS 1339 respectively, complete with test certificates.

The contractor shall also test and ensure that, at all points where cables are connected, the phase colours and phase rotations are correct. This test shall be done with an approved phase rotation meter and an approved Megger type instrument.

C3.2.3.6.9 Drawings

The contractor shall complete an "as built" drawing after the installation to indicate the exact positions of the cable routes, joints etcetera. These details are to be indicated on a site plan.

All important and necessary dimensions shall also be clearly indicated on the drawing so that the drawing may, in future, be used to locate the positions of the cables, joints etc. The drawing must be handed over to the Engineer/Representative for approval as soon as the cables have been installed.

C3.2.3.6.10 Cable Lengths

For tender purposes the cable lengths shall be as indicated in the schedule of cables. The contractor shall measure the cable lengths on site after the Engineer has approved all routes before the cables are ordered, and the contract price shall be adjusted to the actual cable lengths. It is essential that the actual cable lengths required should be checked on site before orders are placed, as no joints will be permitted (except where lengths exceed the drum length).

C3.2.3.6.11 Cable Sleeves

The cable sleeves required for road crossings and other services are indicated on the drawings. All sleeves shall have a final covering of 1000mm for HV and 750mm for LV. Each sleeve shall have a steel draw wire (±6mm). All sleeve openings shall be completely sealed with fibreglass isolation prior to back filling.

After back filling the draw wires shall indicate the sleeve position on both sides. The positions of the sleeves shall be painted onto the curb stones by means of a weatherproof (colour orange) paint.
Where sleeves are laid in rock, the bedding shall be adequate as to prevent the sleeves from being damaged.

Service Provider Initial_____

It is envisaged that the civil contractor shall install the majority of the sleeves. However, it may be necessary for the electrical contractor to install sleeves. Hence, provisional quantities are allowed for sleeves in the Bill of Quantities.

Although others install sleeves, the responsibility remains with the electrical contractor as to confirm that the sleeves are installed at the correct depth, position and by means of the correct method. No claims from the electrical contractor, with respect to the incorrect installation of sleeves, shall be entertained.

In the Bill of Quantities, an item is provided for the costs pertaining to the assistance, supervision and liaising with the civil contractor regarding the installation of sleeves.

C3.2.3.6.12 Trenching

a) General

The provision of trenches for the laying of cables and the installation of telephone and cable sleeves forms part of this contract. All low-tension cables and sleeves shall be laid at a depth of 600mm and all high-tension cables and sleeves shall be laid at a depth of 1 000mm. Where this cannot be achieved, the Engineer shall be consulted for a final ruling.

The bottom of the trenches shall be of smooth contour and shall have no sharp dips or rises, which may cause tensile forces in the cable during back filling.

Prior to cable laying, trenches shall be inspected thoroughly and all objects likely to cause damage to the cables either during or after laying shall be removed. Where ground conditions are likely to reduce maximum current carrying capacities of cables or where the cables are likely to be subjected to chemical or other damage or electrolytic action, the Electrical Engineer shall be notified before installing the cables, who will then advise on the course of action to be taken.

b) Dimensions of trenches

Cable trenches for one or two cables or sleeves shall not be less than 300mm wide and need not be more than 500mm wide. This dimension shall be valid for the total trench depth.

Where trenches change direction or where cable slack is to be accommodated, the contractor shall ensure that the requirements of the relevant SABS specification regarding the bending radii of cables are met when determining trench widths.

Trench depths shall be determined in accordance with cable laying depths and bedding thickness.

c) Bedding

The bottom of the trench shall be filled across the full width with a 150mm layer of suitable soil sifted through a 6mm mesh and levelled off.

Service Provider Initial_____

Only sandy clay or loam soil with a satisfactory thermal resistivity (not exceeding 1.5 Cm/W) may be used for this purpose. Sea or river sand, ash, chalk, peat, clinker or clayey soil shall not be used. The use of crusher sand is acceptable.

Where no suitable soil is available on site, the contractor shall import fill from elsewhere and make all the necessary arrangements to do so. The cost of importing soil for bedding purposes shall be included in the unit rates for excavations.

After cable lying, a further layer of bedding shall be provided to extend to 150mm above the cables.

d) Back filling

The contractor shall not commence with the back filling of trenches without prior notification to the Electrical Engineer so that the cable installation may be checked. Should the contractor fail to give a timeous notification, the trenches shall be re-opened at the contractor's cost. Such an inspection will not be unreasonably delayed.

Back filling shall be undertaken with soil suitable to ensure settling without voids. The maximum allowable diameter of stones present in the backfill materials is 75 mm.

The contractor shall have allowed in his tender for the importation of suitable back fill material if required and such costs shall be included in the unit rates for excavations.

The back fill shall be compacted in layers of 150mm and sufficient allowances shall be made for final settlement. The contractor shall maintain the refilled trench at his expense for the duration of the contract. Surplus material shall be removed from site and suitably disposed of, and such costs shall be included in the unit rates for excavations.

On completion of the contract, the surface shall be made good to match the surrounding area.
In the case of roadways or paved areas the excavations shall be consolidated to the original density of the surrounding material and the surface finish reinstated.

e) Measurement

Trench excavations shall be measured and paid for as per the unit rate included by Tenderers for excavations. In all cases, the cost of excavations shall include the total cost of excavating, bedding, back filling and making good.

Definitions for the different types of excavations are as follows:

Earth	:	Excavations, which can be performed with, pick and shovel or where it is clear that compressor operated jack hammers are required to remove the rock and include for areas where large boulders, which must be mechanically moved, occur.
Hard rock	:	Hard rock will be measured where excavations can only be performed by means of blasting.

Service Provider Initial_____

C3.2.3.7 EARTHING

C3.2.3.7.1 General

The earthing of the electrical installation as described herein shall conform to the requirements set out in Section 2 of the Electrification Standard, Volume 1.

It is however a specific requirement that the following minimum sizes of earth conductor shall be used:

- LV Structures : 35 mm² BCEW
- Transformer LV and MV earth : 70 mm² BCEW

C3.2.3.7.2 Earthing of MV installation

- Ganged link structures shall be earthed with an earth mat as indicated on the drawings.
- Transformer structures shall be earthed according to Eskom standards. The maximum earth resistance shall not exceed 10 Ohms, measured before the MV installation is connected to any other MV or LV system

C3.2.3.8 EXISTING SERVICES

Since the new installation will be done in a developed area, extreme care must be taken to avoid damage to the following services:

a) Water network
b) Telephone network
c) Roads
d) Storm water drainage network
e) Sewerage network
f) Existing electrical network

Where possible, plans of the existing services will be provided to the contractor upon take-over of the site. It is however his responsibility to ensure at all times that the location of existing services in the area where work is in progress is known beforehand.

In the case of damage to existing services, which could reasonably have been prevented, repairs will be done at the cost of the contractor, to the satisfaction of the Project Manager.

C3.2.3.9 SUPERVISION AND QUALITY CONTROL

a) The Contractor shall tender and allow in his tender prices for adequate and trained personnel, conversant with the nature of the Works described herein, to carry out the day-to-day construction activities.

b) The Contractor shall appoint, in writing, a responsible person in terms of the Occupational Health and Safety Act, who will assume responsibility for all safety

Service Provider Initial_____

aspects on the site and for the Works. A copy of this letter of appointment shall be forwarded to the Project Manager.

c) The responsible person, so appointed, shall take responsibility for the construction of the Works and the certification of all tests and test results as specified.

d) The Contractor shall tender for and ensure that adequate quality control of the contract works is provided and maintained for the duration of the Contract.

e) It is an implicit requirement that the Contractor submit with his tender the number as well as the functional responsibilities of persons involved in this project.

f) This staff complement shall be maintained for the total duration of the Contract.

g) Failure to comply with the above requirements may seriously jeopardise the Contractor's tender bid, as the Project Manager will have insufficient information to adjudicate tenders.

C3.2.3.10 FINAL INSPECTION, TAKING OVER OF THE WORKS AND CLEARING OF SITE

a) "As Built" drawings to be supplied at the final inspection according to the as built process ESKPVAEG8 (latest).

b) During final inspection, the Project Manager or his representative will ensure that the quality control check sheets are completed and signed by all the interested and affected parties. Only after signing of this document, will the site be handed over for Commercial Operation. (See standard, SCSASABZ1 rev 1)

c) Removal of site office and stores and discontinuation of services provided for the site office.

d) Clearing of all rubble, waste and rubbish, resulting from the construction activities, removal from site and re-instatement of terrain.

e) Removal of all excess material (Copper, etc.) from site and returning of such material to the nearest Employer stores.

f) All the parties concerned at the completion of the works, prior to the taking over of the works, will hold a final inspection.

g) In the event of the Contractor not pricing the items of the Final Inspection and Taking Over of the Works Activities in sufficient detail, the Employer reserves the right to exercise it's own discretion in the apportionment to individual items of the total Final Inspection and Taking Over of the Works prices within the contract documents.

C3.2.3.11 OTHER ACCESS

a) In situations where private roads must be used for construction purposes, the condition of the said roads must be recorded (e.g. Photographed) prior to the use thereof and be agreed upon by the *Employer*, the *Landowner* and the *Contractor.*

Service Provider Initial_____

b) All private roads used as access to the site of work by the *Contractor*, shall be maintained by him at all times at his expense, and upon completion of the work, be left in at least the condition prior to the commencement of the construction activities.

c) Where possible access along the power line must be established by vehicles passes over the same track on natural ground.

d) Temporary access roads shall only be constructed and maintained where necessary at watercourses, steep slopes or where boulders and rocks prohibit vehicular traffic.

e) No access roads shall be constructed in and/or outside the power line servitude without the written instructions from the *Clerk of Works*.

f) Upon completion of the project, all construction access roads shall be closed unless otherwise specified by the *Employer* and/or *Landowner.*

g) All temporary access roads shall be constructed in strict accordance with specification ***TRMSCAAC1 Section 4.4***, and to the satisfaction of the relevant *Landowner*.

h) Loose boulders which obstruct the construction access as well as for running out the conductors shall be removed from the servitude.

C3.2.3.12 BUSH CLEARING

a) All work to be in strict accordance with ***TRMSCAAC1, The Environmental Conservation Act No. 73 of 1989***, the ***Conservation of Agricultural Resources Act No. 43 of 1983,*** the Standards and Specifications for the control and cutting of trees and bush within overhead line servitude's ***SCSASAAZ9*** and the Environmental Management Plan for the **specific project and spanning sheets.**

b) Trees and bush to be cut and/or trimmed on a careful and selective basis to ensure the required electrical clearances from all conductive equipment and to ensure the safety of the power line structures.

c) All stumps from trees, bush and shrubs shall be chemically treated immediately after cutting, to prevent any further growth thereof. The chemical treatment must be approved by the *Employer's Environmental Practitioner* prior to the purchasing and application thereof.

d) Between structures, where no traffic is required, there shall be no removal of vegetation except as required for stringing of the power line. Access for the stringing of the power line shall be limited to one single track for all pulls. No cutting of bush and shrubs will be permitted across bush filled ravines or gullies where the bush will not interfere with the strung conductor. Alternative means shall be used to string the power line conductors.

e) All chopped trees and bush will remain the property of the relevant *Landowners*, unless otherwise negotiated with the *Employer's Clerk of Works*.

C3.2.3.12.1 Special Bush Clearing Requirements

a) One week written notice must be given to the *Employer's Environmental Practitioner* before commencement with construction activities

b) The *Contractor* shall use only approved and/or accredited weed killer applicators.

c) The *Contractor* will not be allowed to cut and/or trim any **endangered** trees or shrubs in the servitude, unless written prove of the required permits, obtained by the *Contractor,* is given to the *Employer's Clerk of Works.*

d) The use of existing gates and private roads in or outside the power line servitude for bush clearing purposes must be discussed with and accepted by the relevant *Landowner*, prior to the use thereof.

e) All vehicles used for bush clearing shall pass through gates when crossing fences and the *Contractor* shall not be allowed to drop fences temporarily for the purpose of driving over it.

C3.2.3.13 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

a) **The *contractor* must list the name of the experienced construction supervisor for the duration of the contract below. This is compulsory and if not adhere to might result in the tender to be null and void.**

Name	I.D. number	Years' experience	Other

b) Written notice will be given by the *contractor* to *Employer*, thirty days prior to any switching that may be required by the *contractor*. The outage must be cancelled at least 5 working days prior to the actual date should anything happens and the outage cannot take place. All stake holders to be informed by the COW in writing.

c) The risk of all lies with the *contractor* until that section of line is energized.

d) Inform each landowner before entering their property and treat property with respect.

e) Sign off all form/letter with each hand over to ensure that the customer is happy with the work completed on his property.

f) The *Contractor* is to provide the *works* strictly according to all the requirements of **Section 31 of the Occupational Health and Safety Act of 1993.**

g) The *Employer* Standards and specifications as per Annexe A are the requirements of the *Contract*. The *Contractor* shall comply in full with Contract Quality Requirements, "Matrices A and C" of NWS 1814/C1.

h) The *Contractor* shall be responsible for the relevant Quality Assurance Requirements to be imposed on his sub-*contractor*s and suppliers of materials in terms of the above standards.

Service Provider Initial_____

i) No weather data are included in this specification and the *Contractor* is referred to the Weather Bureau, Department of Transport, Private Bag X097, Pretoria 0001 The *Contract* places the responsibility on the *Contractor* to foresee inclement weather. The *Contractor* shall take into account large variations in the weather patterns. No extensions of time will be granted for delays arising out of normal weather conditions. Where abnormal, unfavourable weather conditions are experienced, an extension of the *Contract* period may be considered by the *Employer*, by no claim for additional Preliminary and General or escalation of the *Contract Price* for the extended period will be granted.

j) All work on site to be done in accordance with The Environmental Management Plan for this project.

C3.2.3.14 WORK AND THINGS SUPPLIED BY THE CONTRACTOR FOR THE WORKS

C3.2.3.14.1 Plant provided by the Employer

- *Employer* will not supply any plant

C3.2.3.14.2 Materials supplied by the Employer

- *Employer* will not supply any material
- **The *contractor* must ensure that the BOM correlate with the span plan.**

C3.2.3.14.3 Materials to be supplied by the Contractor.

All materials supplied by the *Contractor* to be approved by the **Project Engineer** before commencing with the project.

Once the plant and/or materials have been delivered to the Contractor's yard on site, the loading, transporting to site, off-loading and safekeeping thereof becomes the responsibility of the Contractor. He must make the necessary arrangements for safe storage on site, offering adequate protection against theft, damage, wind and weather. The responsibility for insurance of materials against any form of damage or theft after issue thereof rests with the Contractor.

It is essential that a good record-keeping system exist whereby control over quantities on site can be kept. All new deliveries to the site-store and all materials and plant issued for construction must be recorded. At any time, it must be possible for the Project Manager to establish from these records exactly what material and/or plant is kept in store or has been erected. These figures will regularly be compared to the actual quantities measured on site and the formal Employer issuing invoices.

At all times it will be assumed that the Contractor has been ensured upon issue of material and/or plant that no visible damage has occurred to it. In the case of damaged material and/or plant, acceptance must be refused. If a dispute arises, the Project Manager must be called in for a decision. Damaged material and/or plant found on site will be replaced at the cost of the Contractor and no extension of contract time will be granted for the extra delivery time.

Liability for inherent defects in material and/or plant issued does not lie with the Contractor. If defects in material, plant or in the Works, due to the use of patently

Service Provider Initial_____

defective material and/or plant are discovered, new material and/or plant will be ordered at the contractor's cost and the contractor should resolve the issue with the supplier.

The decision concerning the caused and responsibility of defects, as well as the extent of compensation (if any), rests with the Project Manager.

The Contractor must make the necessary arrangements for safe storage on site, offering adequate protection against theft, damage, wind and weather. The responsibility for insurance of materials against any form of damage or theft after issue thereof rests with the Contractor.

It is essential that a good record-keeping system exist whereby control over quantities on site can be kept. All new deliveries to the site-store and all materials and plant issued for construction must be recorded. At any time, it must be possible for the Client to establish from these records exactly what material and/or plant is kept in store or has been erected. These figures will regularly be compared to the actual quantities measured on site and the formal Employer's issuing invoices.

C3.2.3.15 EQUIPMENT

The *Contractor* shall supply all the equipment required to complete the works

C3.2.3.16 HOLDING POINTS OF THE WORKS

No construction activities will commence until the site is officially handed over by the Project Manager or his representative to the Contractor.

No construction activities will commence prior to the submission of a detailed construction program and special tool calibration certificates, etc. by the contractor.

The Employer's Clerk of Works will have the prerogative to execute a proper inspection on the condition of all construction tools, equipment and vehicles prior to the commencement of any construction activities.

The holding points shall be agreed between the *Contractor* and the *Employer Representative* and shall enforced as per the requirements of document 34-212, 'Inspection and Maintenance of High Voltage Cables"

The *Contractor* will be held responsible for any construction errors, defects, claims, etc. for continuing with the construction activities at the "hold point" stages without the written instructions from the *employer*s' Clerk of Works.

C3.2.3.17 OTHER LIMITATIONS

The Contractor shall use the private roads with the necessary respect and maintain it throughout the construction period.

The Contractor shall control his activities and processes in such a way as to ensure compliance with the specifications. He shall carry out as a minimum requirement all the tests laid down in the specifications and shall submit all the test results to the Employer.

Service Provider Initial_____

The Employer Standards, as indicated in Specifications of this document, are requirements of the Contract.

C3.2.3.18 DRAWINGS

The reduced scale drawings that form part of the tender documents shall be used only for tender purposes. Only "Approved for Construction" drawings may be used for the execution of the Contract. It must be noted that certain specifications which may appear on the drawings are not necessarily repeated in the Project Specifications. Where applicable certain items in the Schedule of Quantities refer to the drawings.

DECLARATION

I ,..... IN THE CAPACITY OF .....

HEREBY ACCEPT THE CONDITIONS AND SPECIFICATIONS AS STATED ABOVE

.....
SIGNATURE

Service Provider Initial_____

C3.3 : PROCUREMENT

C3.3.1 PREFERENTIAL PROCUREMENT PROCEDURES

C3.3.1.1 Requirements

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the referencing schedule.

C3.3.2 EMPLOYMENT TARGETS

Minimum local community employment

The following minimum labour-based targets must be adhered to.

Employment of local community labour

The maximum possible number of workers is to be employed from the labour lists of the currently unemployed persons in the local community.

The Contractor shall employ 80% of unskilled labourers required for the execution of the Contract locally from the local residents. The minimum wage for unskilled labourers shall be in accordance with the Basic Conditions of Employment Act, No. 75 of 1997, as published in the Government Gazette from time to time for the Civil Engineering Sector, and for the specific Magisterial District.

To this end the Contractor is required to give preference to the use of local community labour and limit the use of non-local labour to key personnel only.

Local community labour is defined as people who reside in the community and who have been identified by the Project Steering Committee and whose names appear on the labour list.

Key personnel are defined as supervisors and skilled labourers without whom a specific task cannot be executed. As far as possible these people should impart their management and building skills to individuals within the local workforce who show a keen interest and display a willingness to learn.

Must comply with the below minimum threshold where applicable.

Service provider to make use of local subcontractors as well as skilled and unskilled local labor if possible. 80% of the workforce employed by the contractor for non-specialized work must be from the local community. The successful bidder must submit signed time sheets monthly as proof for EPWP records. Where applicable

Employment of women
Minimum 10% of the workforce must be women.
Employment of youth
Minimum 30% of the workforce must be youth (18 – 35 years of age).
Employment of disabled people
If available
Remuneration of local labourers

Service Provider Initial_____

The minimum wages shall be the prescribed SAFCEC rate as set by the applicable law of the specific jurisdiction area.

C3.3.3 WORKER CONTRACTS

The Contractor will be required to enter into employment contracts with all labourers employed. All Workers Contracts for labourers employed during the month must accompany the Contractor's monthly report. The labourers must have a fixed job description that they must understand and they must acknowledge their production requirements and responsibilities.

Service Provider Initial_____

C3.4 : CONSTRUCTION

C3.4.1 WORKS SPECIFICATION

C3.4.1.1 Applicable SANS Standards

a) For the purpose of this Contract the latest issues of the following Standard Specifications and Regulations for Electrical Engineering Construction, applicable at the date of tender advertisement, shall apply –

SANS 10142-1	Low voltage installations up to 1 kV.
SANS 10142-2	Medium voltage installations above 1 kV.
SANS 1091	National colour standard.
SANS 10292	Earthing of low-voltage (LV) distribution systems
SANS 780	Distribution transformers
SANS 60439	Low-voltage switchgear and control gear assemblies- Part 1: Type-tested and partially type-tested assemblies
NRS 013	Medium-Voltage Cables
SANS 10198	Installation of cables
SANS 1339	Electric cables-Cross-linked polyethylene (XLPE) insulated cables for rated voltages 3.8/6.6 kV to 19/33 kV.Voltage test after laying, jointing and terminating for cables manufactured to this standard as stipulated in SANS 10198: Part 13 clause 5.5
SANS 97	Electric cables-Impregnated paper-insulated metal-sheathed cables for rated voltages 3.3/3.3 kV to 19/33 kV (excluding pressure assisted cables).Voltage test after laying, jointing and terminating for cables manufactured to this standard as stipulated in Appendix A.3.3.
Aerial Bundled Conductor	SABS 1418, Part 1 to 3 DTS 0105 (NRS 018)
Bolts and Nuts	SABS 135
Bolts, Eye	SABS 178
Busbars	SABS 1195
CNE	SABS 1268:1979 NRS 016:1991

Service Provider Initial_____

Cables, installation of electric	SABS 0198:1988
Cables, low voltage	NRS 012:1991
Cables, medium voltage	NRS 013:1991
Cable (house service split concentric)	DTS 0084 (NRS 017)
Cable Glands	SABS 808
Cable Ties	DTS 0086 (NRS 020)
Clamps (strain for split concentric)	
Clamps (suspension for split concentric)	
Clamps Strain	SABS 178
Clevis Tongue Adaptor (twisted)	SABS 178
Clips for Wiring	
Compression Fittings	BS 3288 Part 1 (Tests)
Concrete Poles	SABS 470
	DTS 0106
Conductor ACSR/AAC and AAAC	SABS 182
Conductor, Covered	DTS 0087 (NRS 021)
Conduit Saddles	
Conduit	
Connectors, lug/termination	NRS 028
Connectors, insulation piercing	EDF 6737/HN 33 E60 (Main cable 350 mm^2 to 70 mm^2, take off 6 mm^2 to 35mm^2)
Connectors, mid-span/full tension	BS 3288 (Tests)
Connectors, mid-span/no tension	SABS 0162
Connectors	SABS 1200 H/HA
Cross Arm Braces	
Cross Arms	SABS 0162
	SABS 1200 H/HA
D Fuses	DTS 0048 Rev 0
Earthing Rods	SABS 1063
	SABS 0199
Electricity Dispenser	SABS 1524-1
	NRS 009-1
Fittings (strain and suspension)	
ABC	DTS 0105 (NRS 018)
Fuse Holder	SABS 172
Fuses	BS 88
Galvanizing	SABS 763:1988
	SABS 935
Harness Wiring	
Insulator Hardware	IEC/NWS 1536
Insulator Spindle	DTS 0092
Isolators	SABS 0162
	SABS 1200 H/HA
Line Construction	NWS 1512
Links Trilinks	IEC/NWS 1536

Service Provider Initial_____

Links, ganged 3 phase (isolators)	IEC/NWS 1536
Links, pull Stick (knife links)	IEC/NWS 1536
Links, single Pole "Huklinks"	IEC/NWS 1536
Long Rod Insulators	DTS 0092
Miniature Circuit Breakers OHASA Act (1993) and it's regulations and amendments	SABS 156
Pole Top Service Box	DTS 0104 (NRS 032)
Post Insulators	DTS 0092
Preformed Tension Wraps	SABS 178
Preformed Ties	
Ready Boards	DTS 0085 (NRS 019)
Reticulation LV	DTS 0090 (NRS 023)
Road crossing standard	DTS0060
Safety on Construction Sites	NWS 1058
Service box	DTS 0104 (NRS 032)
Stainless Steel Straps and Buckles	
Stay Assemblies	BS 16
Stay Attachment Brackets	SABS 0162
Stay Insulators	
Stay Wires	SABS 182, Part 5
Surfix Wiring	SABS 1507
Surge Diverters	NWS 1108
Symbolic Safety Signs	SABS 1186:1978
Thimbles	BS 464
Transformers, 100 kVA self-protected	DTS 0080 (NRS 027)
Transmission line hardware	NWS 1827
Washers	SABS 135
Wire, PVC Covered	SABS 182
Wire Rope Grips	BS 462
Wire, Stranded Copper, bare	
Wood Poles, pine gum	SABS 753
	SABS 754
Overhead Reticulation : Recommended Practice for Low Cost Urban Reticulation	NRS 023 : 1991 (DTS 0090)
Electrification Standard: Volumes 1 & 2.	
Code of Practice for the Application of CNE on Low Voltage Distribution Systems.	NRS 016 : 1991 (DTS 0103)
Power Line Crossings of Proclaimed Roads, Railway Lines, Tramways and Important Communication Lines.	DTS 0060 z
Code of Practice for the Joint use of Structures for Power and Telecommunication Lines.	NRS 043 of 1997

Service Provider Initial_____

C3.4.1.2 Applicable National and International Standards

Act no. 43	Conservation of Agricultural Resources Act.
Act no. 73	Environmental Conservation act.
Act no. 31	Fencing Act.
Act no. 122	Forest Act.
TRH14	Guidelines for road construction materials
Act no. 63	Mountain Catchments areas act.
Act no. 85	Occupational health and safety act.
SAISC	South African Steel Construction Handbook
NWP 3109	Standard drawing practice
NWS 1017	Accident Prevention
NWS 1494	Fire prevention and protection of contractors and premises on Engineering sites
NWS 1060	Injury prevention and protection
NWS 1814/C1	Quality assurance requirements for civil and building contracts
NWS 1058	Safety at construction sites: Requirements to be met by Contractors

Service Provider Initial_____

C3.5 : MANAGEMENT

C3.5.1 Construction Program and Methods

The Contractor shall programme the works.

The Contractor must sequence the works as follow:

a) Refurbishment and safe making of LV kiosks
b) Erection of new 11kV overhead line

C3.5.2 Engineering method statements

The Contractor shall issue the Engineer with engineering method statements at least fourteen (14) days prior to the commencement of construction activities for the following:

a) Method statement for: as per request from Project Leader/Engineer

The compilation of the above method statements shall be deemed to be covered in the preliminary and general items and no additional costs in this regard shall be entertained.

C3.5.3 Quality plans and control

The Contractor shall have a well-documented Quality Assurance system depicting his approach to guarantee quality control and the procedures for preventative and corrective actions in order to ensure compliance with the specified standards and requirements of this contract.

The Contractor is required to carry out his own control testing, but if he so wishes, and agrees to abide by the results of the Engineer's check test, he may dispense with his own tests. However, should the Contractor wish to use the Engineer's testing facilities, he will be charged for the various tests at the rates ruling at the time.

Any additional tests requested by the Contractor or any retests required, due to failure of the initial tests, will be charged to the Contractor at the rates ruling at the time.

The Contractor shall inform the Engineer of any control testing to be done at least 48 hours before such tests are required and must allow in his program for the time necessary for the tests and the processing of the results thereof.

C3.5.4 Products and materials used

All products and materials used that forms part of the permanent works of this contract shall comply with the applicable SANS standards.

Service Provider Initial_____

C3.5.5 Recording of weather

The Contractor shall erect a rain gauge on site or agree with the Engineer to use statistics from an approved weather station in the area.
The Contractor shall record any rainy and windy periods which may adversely affect the contractual time of completion in terms of Clause 5.12 of the General Conditions of Contract (2010).

C3.5.6 Format of communications

All communications regarding the contract shall be channeled through the Engineer and/or his duly authorized representative.
The Contractor shall supply a site instruction book (triplicate) which must be available on site at all times. The site instruction book forms part of the official contract documentation.
A "Progress Report", "Labour on Site" and "Plant on Site" must be submitted at each site meeting.

C3.5.7 Management meetings

Management (site) meetings shall be held once a month for the duration of the project on times and dates to be agreed.
Technical meetings shall be held once a month for the duration of the project on times and dates to be agreed.
Health and Safety management meetings will be arranged by the appointed Health and Safety Officer (HSO) for the duration of the contract.
Environment management meetings will be arranged by the appointed Environmental Control Officer (ECO) for the duration of the contract.

C3.5.8 Payment certificates

The date of measurement of the monthly payment certificate will be agreed at the first site meeting. All quantities must be agreed with the Resident Engineer/Clerk of Works before a payment certificate is submitted.

C3.5.9 SITE ESTABLISHMENT

C3.5.9.1 Services and facilities provided by the Employer

a) Source of Water Supply

The Contractor may make application to the Local Authorities/Farm Owner for a clean water supply point, but shall bear all the costs for the installation of such supply point. Water used by the Contractor from the Employer's mains will be charged for at the tariffs ruling at the time of use.
The Contractor shall make himself thoroughly acquainted with the regulations relating to the use of water and shall take adequate measures to prevent the wastage of water.
The Employer accepts no responsibility for the shortage of water due to any cause whatsoever, nor additional costs incurred by the Contractor as a result of such shortage.
The Contractor shall take note that no direct payment will be made for any costs incurred for the provision of a water supply point nor for the cost of water drawn.

Service Provider Initial_____

Payment for the aforementioned shall be deemed to be covered by the rates and prices tendered and paid for the various items of work included under the Contract.

b) Source of Power Supply

The Contractor is to make his own arrangements with the Electrical Service Provider/Farm Owner for electricity supply, if required, and shall pay establishment and consumption costs at the tariffs ruling at the time.

c) Location of Site Camp, Materials Storage and Temporary Stockpiling Area

The position of the site camp, designated area for materials storage and temporary stockpiling shall be submitted to the Engineer for approval.
The Contractor shall confine his camp and storage of materials to the designated areas. On completion of the construction works the surface of the areas utilised shall be re-instated to the original state.

C3.5.9.2 Facilities provided by the Contractor

a) Sanitary Facilities

The Contractor shall supply chemical toilets for use by his works. The number of toilets shall be based on one toilet per fifteen (15) personnel on site.
Under no circumstances will the Contractor's staff be allowed to use public toilet facilities.

b) Housing for Contractor's employees

No housing is available for the Contractor's employees, and the Contractor shall make his own arrangements for housing his employees or transporting them to and from the site. The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this, will be granted.

c) Advertising rights

The Contractor will be permitted to erect a maximum of two (2) of his own name boards in positions approved by the Engineer. The Engineer reserves the right to order the removal of these boards if they are not kept in good repair.

C3.5.10 PERMITS AND WAY LEAVES

The Contractor shall obtain the necessary permits and way leaves from the relevant authorities before any construction work may commence. The Employer/Engineer will provide the necessary drawings for the application of the permits and wayleaves.

The Contractor must allow in his preliminary and general rates for the costs to obtain the permits and wayleaves, as well as in his construction programme.

The Contractor must implement an electrical switching permit system with respect to the required switching on the existing electrical network in order to carry out the required refurbishment and maintenance works.

Service Provider Initial_____

C3.6 : OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

The contractor and any subcontractor, his/her management and/or any of his/her personnel must comply to all the regulations as shown in the Occupational Health and Safety Act, 1993 and Construction regulations, 2014 before any access to the site may be granted by the employer or the employers agent. These regulations must be submitted in writing to the Department of Agriculture, Environmental Affairs, Rural Development and Land Reform.

In compliance with the construction Regulations the contractor shall, after performing a risk assessment, prepare a health and safety plan for approval by the employer or the employer's agent which will be kept and maintained on site by the contractor for the full duration of the works.

- The health and safety plan shall include, but not be limited to, the following:
- The safety management structure including the names of all designated persons such as the construction supervisor and any other competent persons,
- Safety method statements and procedures to be adopted to ensure compliance with the Occupational Health and SAFETY Act, 1993 (Act No 85 of 1993)

  Aspects to be dealt with shall include, but not be limited to:

  - Public vehicular and pedestrian traffic accommodation measures
  - Control of the movement of construction vehicles
  - The storage and use of materials
  - The use of tools, vehicles and plant
  - Temporary support structures
  - Dealing with working at heights
  - Excavations
  - Confined space
  - Environmental conditions and safety requirements in working hazardous materials including asbestos cement products
  - Security, access control and the exclusion of unauthorised persons.

- The provision and use of temporary services
- Compliance with way-leaves, permissions and permits
- Safety equipment, devices and protective clothing to be employed
- Emergency procedures
- Provision of welfare facilities
- Induction and training
- Provision and maintenance of the health and safety file and other documentations
- Arrangements for monitoring and control to ensure compliance with the safety plan during execution of the works

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C3.7 : ENVIRONMENTAL MANAGEMENT

C3.7.1 Environmental Management Plan

C3.7.1.1 Demarcation of the site

For the purpose of the EMP, the site shall be divided into two areas identified by the Engineer and the Contractor:

a) The construction camp comprising all buildings, hostels, offices, lay down yards, vehicle wash areas, fuel and material storage areas, batching areas and other infrastructure that is required for the running of the job.

b) The working area in which construction activity is permitted to take place. No infrastructure, permanent lay down or storage areas shall be established in this working area unless specified in the project specification or prior approval is obtained from the Engineer.

C3.7.1.2 Construction camp

The Contractor shall provide the Engineer with a plan showing the positions of all buildings, yards, vehicle wash areas, batching areas and other infrastructure for approval by the Engineer at least ten (10) days prior to the commencement date. The construction camp shall be planned in such a way so as to affect as small an area as practically possible. The Engineer shall approve the location and layout of the construction camp prior to establishment.

C3.7.1.3 Fencing of the site

If a temporary fence is required, the Contractor shall erect and maintain such a fence (demarcating the boundary of the working area, construction camp and access roads) to the satisfaction of the Engineer. The erection of this fence shall be one of the first tasks undertaken by the Contractor after the commencement date. The boundaries between the construction camp area and the working area within the site shall also be fenced. The Contractor shall ensure that the erection of the fencing causes minimal disturbance to flora, fauna, natural, historical and cultural features. A method statement shall be submitted to the Engineer prior to erection to ensure proper positioning of the fence.

All material left over from fencing operations shall be collected after the fence has been erected and removed from site. Fences shall not be moved or removed without the written consent of the Engineer. The Contractor throughout the construction period shall maintain fences.

C3.7.1.4 Workshops

Any workshops shall be located inside the demarcated construction camp area. The exact location and design of the workshop shall be as approved by the Engineer prior to establishment. The workshop shall have a smooth impermeable (concrete) floor. The floor shall be bunded and sloped towards an oil trap or sump to contain any spillages of substances (e.g. oil). When servicing equipment, drip trays shall be used to collect the waste oil and other lubricants. All waste material shall be disposed of in accordance with national, regional and local laws, regulations and by-laws. This waste material shall be regularly removed off site and disposed of at an approved waste site.

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C3.7.1.5 Eating areas

The Contractor's employees shall eat in the designated eating area indicated on the Contractor's drawing of the construction camp that has been approved by the Engineer. No changes to the eating area shall be made without the approval of the Engineer. The Contractor shall provide shade and adequate scavenger-proof and weatherproof refuse bins in this area. Any cooking on site shall only be undertaken in the eating area and be done on well-maintained gas cookers with fire extinguishers present. No cooking shall be done anywhere else on site and no fires are permitted.

C3.7.1.6 Watchmen

The Contractor shall ensure that a watchman is present on site during all non-working hours, including public holidays unless otherwise agreed with the Engineer to ensure the safety of sensitive areas.

C3.7.1.7 Ablution facilities

The exact location of the toilets shall be as approved by the Engineer. The Contractor shall provide toilets and shall be responsible for their maintenance and servicing on a daily basis. The contractor shall ensure that no spillage occurs when the toilets are cleaned or emptied. Burial of waste from toilets on site is strictly prohibited. The toilets shall be maintained in a clean state. Performing ablutions anywhere other than in toilets is strictly prohibited. Leaking toilets shall be repaired immediately or removed from site.

C3.7.1.8 Solid waste collection areas

"Solid waste" refers to all solid waste, including construction debris, chemical waste, excess cement/concrete, wrapping materials, timber, tins and cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers).

The Contractor shall set up a waste control and removal system. The Contractor shall submit a method statement for waste control and removal to the Engineer for approval prior to commencement. Bins shall be closed, weatherproof and scavenger-proof.

Waste shall be collected from these bins on a daily basis and shall be stored in a central collection area prior to removal off-site. This central collection area shall have appropriate storage containers (closed and weatherproof) bunded and lined with plastic or concrete. The waste from this central collection area shall be disposed of off-site at an approved waste site. Waste shall be removed from site on a regular basis as approved by the Engineer. Waste shall not be burnt or buried on site or in the surrounding area. Where possible, appropriate material shall be reused or recycled.

C3.7.1.9 Wastewater

Water shall be used sparingly on site and where possible wastewater shall be recycled. A wastewater management plan shall be submitted to the Engineer for approval 10 days prior to commencement date. This management plan shall detail the expected extent of contamination of each wastewater stream and how the Contractor plans to deal with each wastewater stream.

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C3.7.1.10 Fuel storage areas

Fuels required for use during construction shall be stored in a depot at the construction camp at a location as agreed upon by the Engineer. The Contractor shall ensure that all liquid fuels (petrol and diesel) are stored in tanks with lids, which are kept firmly shut. The tanks shall be situated on a smooth impermeable (plastic or concrete) base with an earth bund. The impermeable lining shall extend to the crest of the bund and the volume inside the bund shall be 1,5 x the total capacity of the storage tanks. The bunded area shall be emptied of water following rainfall events. The floor of the bund shall be sloped towards an oil trap or sump to enable any spilled fuel and / or fuel-soaked water to be removed.

The Contractor shall keep fuel under lock and key at all times.

C3.7.1.11 Concrete batching area

Cement and concrete are regarded as hazardous to the environment due to the high pH of the material and the chemicals it contains.

The Contractor shall submit a method statement for mixing of concrete for approval by the Engineer indicating where the mixing will take place and the methods to ensure that waste water and materials are contained in the batching area and disposed of correctly. Concrete shall not be mixed directly on the ground.

C3.7.1.13 Equipment maintenance and storage

All vehicles and equipment shall be kept in good working order and serviced regularly. Leaking equipment shall be repaired immediately or removed from the site. Where possible, all maintenance of equipment and vehicles shall be performed in the workshop. If it is necessary to do maintenance outside of the workshop area, the Contractor shall obtain agreement from the Engineer prior to commencing activities.

The Contractor shall demarcate an area in which equipment and vehicles may be stored. The location of this area shall be as approved by the Engineer. The Contractor shall take measures to ensure that there is no pollution of this storage area by leaks or drips.

C3.7.2 Materials handling, use and storage

The Contractor is responsible for ensuring that any material delivery drivers are informed of all procedures and restrictions (e.g. which access roads to use, "no go" areas, speed limits, dust control, etc) required to comply with the EMP before they arrive at site and off load any materials. The Contractor shall ensure that the delivery drivers are supervised during off-loading by someone with an adequate understanding of the requirements of the EMP, so as to ensure that all relevant requirements of the EMP are followed.

C3.7.2.1 Hazardous Substances

The Contractor shall comply with all relevant national, regional and local legislation with regard to the transport, use and disposal of hazardous materials.

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The Contractor shall provide the Engineer with a list of all hazardous materials to be used on site, together with the storage, handling and disposal procedures of the materials. This information shall be available to all personnel on site.

The location of the hazardous material store shall be within the demarcated construction camp area. The location and design of the store within this area shall be approved by the Engineer prior to establishment.

C3.7.2.2 Fuel (Petrol and Diesel) and Oil

Where possible, the Contractor shall ensure the refuelling of vehicles takes place only at the fuel storage area in the construction camp. Where this is not possible, the Contractor shall notify the Engineer to get his approval of the refuelling method to be used. The surface under the refuelling area shall be protected against pollution to the satisfaction of the Engineer prior to any refuelling activities. All equipment that leaks shall be repaired immediately or removed from the site. Refuelling shall be carried out by means of pumps, rather than funnels.

C3.7.3 Emergency procedures

The Contractor shall ensure that emergency procedures for the following situations are submitted for approval to the Engineer prior to establishment of the site.

C3.7.3.1 Fire

The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it. The Contractor shall ensure that his staff and the staff of Subcontractors are aware of the procedure to be followed in the event of a fire.

C3.7.3.2 Accidental leaks and spillages

The Contractor shall ensure that his staff and the staff of Subcontractors are aware of the procedure to be followed for dealing with spills and leaks, which will include notifying the Engineer and relevant authorities. The Contractor shall also ensure that the necessary materials and equipment for dealing with spills and leaks are present on site at all times. The clean up of spills and any damage caused by the spill or leak shall be for the Contractor's account. The Contractor shall submit a method statement for management of accidental leaks and spillage's of any liquid material to the Engineer for approval.

C3.7.3.4 Care of surrounding areas

The Contractor shall ensure that no contamination of or damage to the surrounding areas or watercourses shall occur as a result of any of his activities during construction.

Care shall be taken to ensure no accidental spillage or leakage occurs whilst temporary bypass facilities are in use. Should any spillage or leakage occur the Contractor shall immediately stop his operations and clean up the spillage. He shall then rectify the cause of the spillage or leakage before proceeding further to ensure that no further spillages occur.

The clean up of spillage and any damage caused by the spillage or leakage shall be for the Contractor's account. The Contractor shall submit a method statement for

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management of accidental leaks and spillages of any sewage to the Engineer for approval.

The Contractor shall ensure that no pollution of the surrounding areas occurs due to wind-blown or other litter emanating from the site or from his activities during construction. No fires are permitted, neither is the cutting down of or any damage to trees and other vegetation (especially Camel Thorn Trees) outside of the demarcated site.

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C3.8: ANNEXURES

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ANNEXURE: A : VAALHARTS RESEARCH STATION - LOCALITY PLAN

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18
R506
Van Riebeek Ln
JAN KEMPDORP
R370
R370
18
Farms Q
VAALHARTS RESEARCH STATION - OFFICE
TURN OFF TO VAALHARTS RESEARCH STATION
Gamspan
18
Google Earth
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ANNEXURE: B : DRAWINGS

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VAALHARTS

VAALHARTS & RIETRIVIER RESEARCH STATIONS

DEPARTMENT OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT

DRAWING NO.	DESCRIPTION	REVISION
50026/K/D/D/001	DRAWING LIST	
50026/K/G/L001	VAALHARTS-PROPOSED OVERHEAD LINE	
50026/K/G/S/001	VAALHARTS-EXISTING ELECTRICAL LAYOUT-SINGLE LINE DIAGRAM OF NETWORK AND LV DB'S	
50026/K/MV/D/001	PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 1	
50026/K/MV/D/002	PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 2	
50026/K/MV/D/003	PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 3	
50026/K/MV/D/004	PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 4	
50026/K/MV/D/005	PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATION SHEET 5	

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MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.
Du Toitspanweg 185 / Du Toitspan Road | E-Mail admin@mvdkalahari.co.za
Posbus / P.O. Box 530, Kimberley 8300 | www.mvdgroup.org
Tel. (053) 831 1889/90 | Level 2 B-BBEE Contributor
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DESIGN ONTWERP	H. Jonck
DRAWN GETEKEN	G. Bosman
CHECKED NAGEGAAN	H. Jonck
CLIENT KLIENT	---
DATE DATUM	SEPT 2024

PROJECT/PROJEK: VAALHARTS & RIETRIVIER RESEARCH STATIONS

CLIENT/KLIENT: agriculture, land reform & rural development

DRAWING DESCRIPTION/TEKENING BESKRYWING: DRAWING LIST

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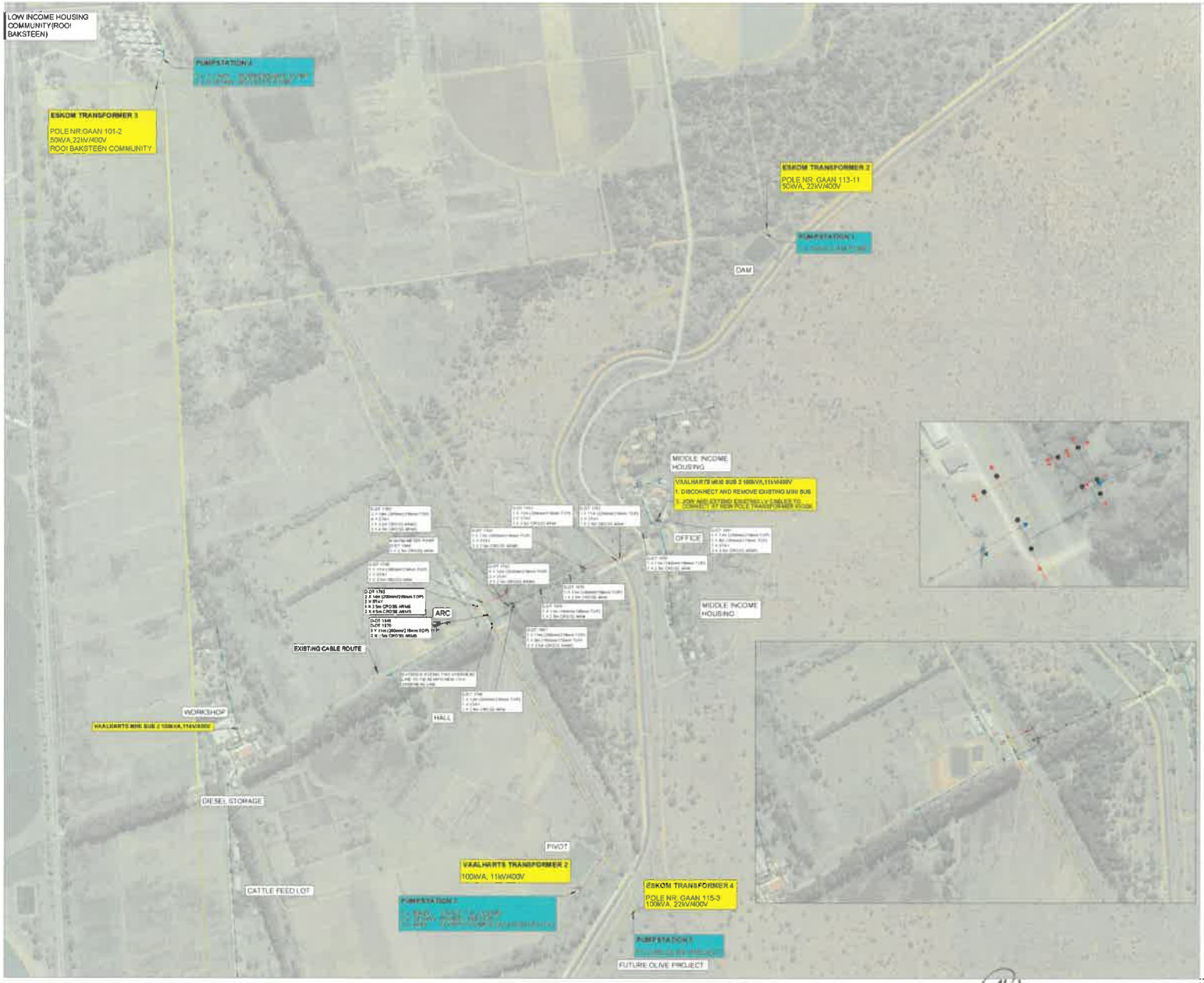

SYMBOL	DESCRIPTION
	ESKOM 11kV MV ROUTE
	ESKOM 66kV HV ROUTE
	LOW VOLTAGE OVERHEAD ROUTE
	LOW VOLTAGE UNDERGROUND ROUTE
	OVERHEAD SERVICE CONNECTION
	UNDERGROUND SERVICE CONNECTION
	OVERHEAD MV 11kV CABLE
	11kV ACSR "FOX" ROUTE
	EXISTING CABLE ROUTE

LEGEND

SYMBOL	DESCRIPTION
	LV POLE WITH STAY AND STRUT
	LV POLE WITH FLYING STAY
	MV POLE WITH STAY AND STRUT
	MV POLE WITH FLYING STAY
	TRANSFORMER (FLOOR MOUNTED)
	TRANSFORMER (POLE MOUNTED)
	LV POLE
	MV POLE
MS	MINI SUB
	LV KIOSK / DB

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Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.
Du Toitspanweg 186 / Du Toitspan Road
Posbus / P.O. Box 580, Kimberley 8300
Tel: (053) 831 1089/90
E-Mail admin@mvdkalahari.co.za
www.mvdgroup.org
Level 2 B-BBEE Contributor
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DRAWN GETEKEN	G. Bosman
CHECKED NAGEGAAN	H. Jonck
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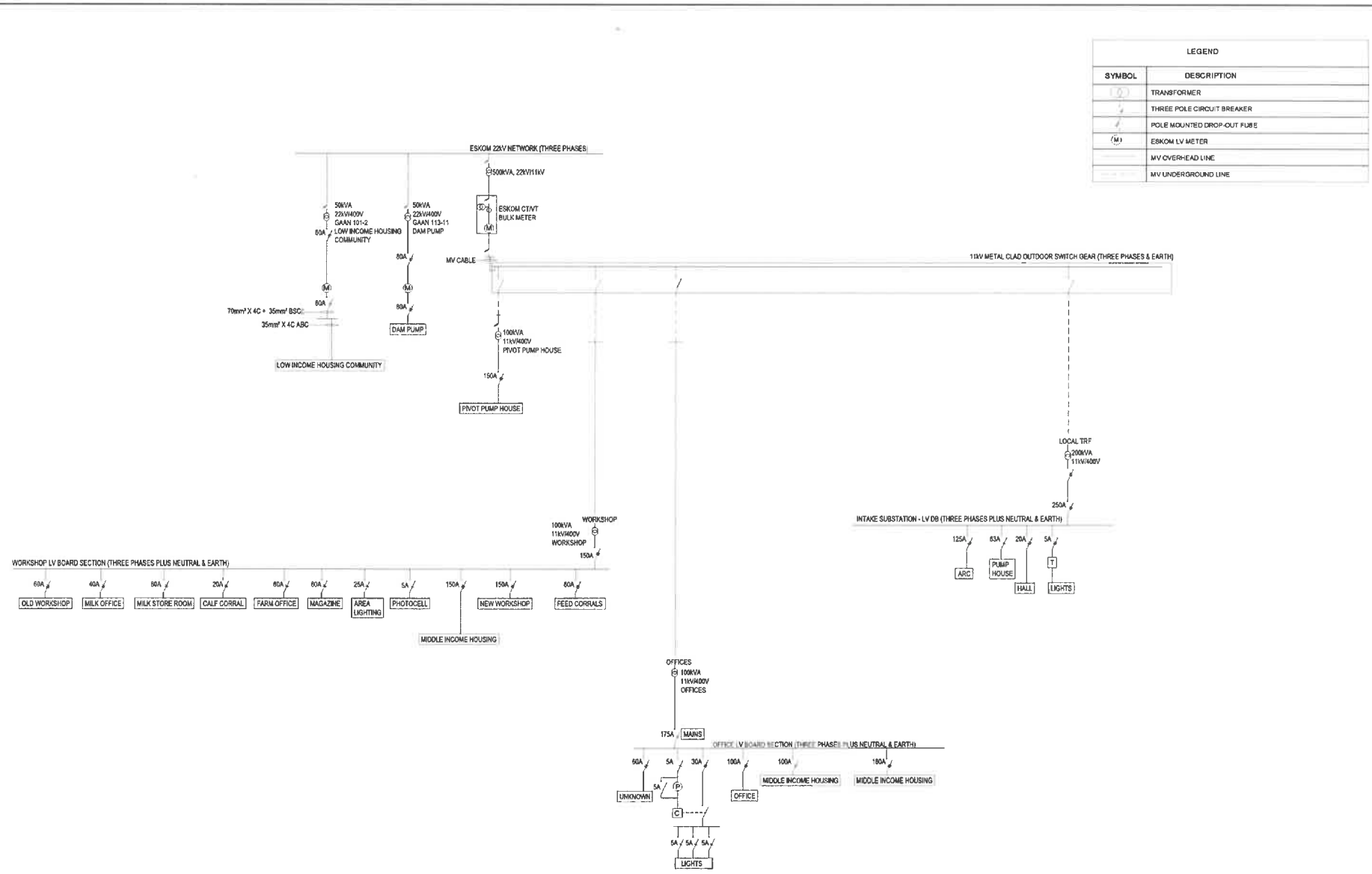

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Du Toitspanweg 186 / Du Toitspan Road
Poebus / P.O. Box 580, Kimberley 8300
Tel: (053) 831 1389/90
E-Mail admin@mvdkalahari.co.za
www.mvdgroup.org
Level 2 B-BBEE Contributor
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DRAWN GETEKEN	G. Bosman
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CLIENT/KLIENT: VAALHARTS-RIETRIVIER

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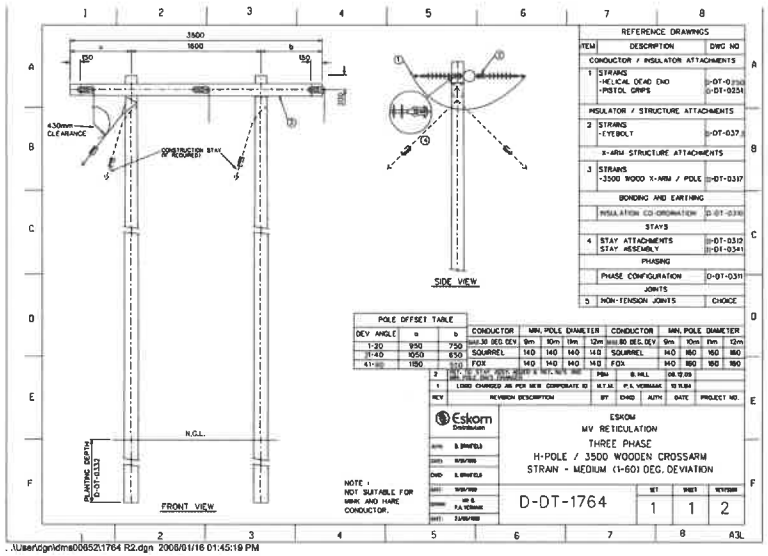

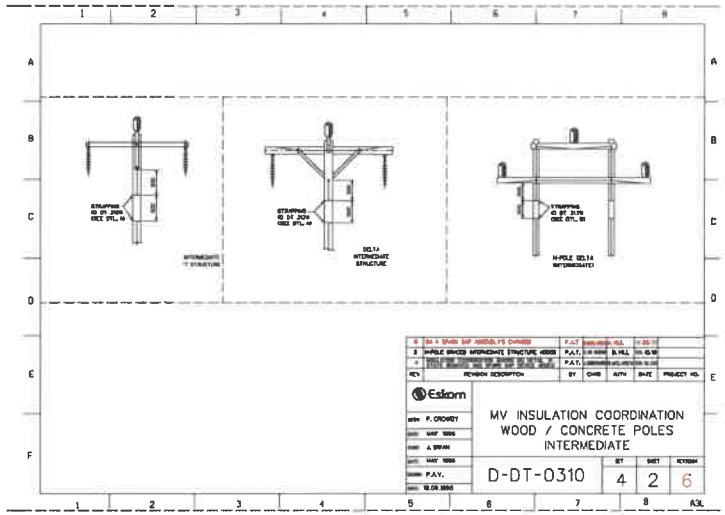

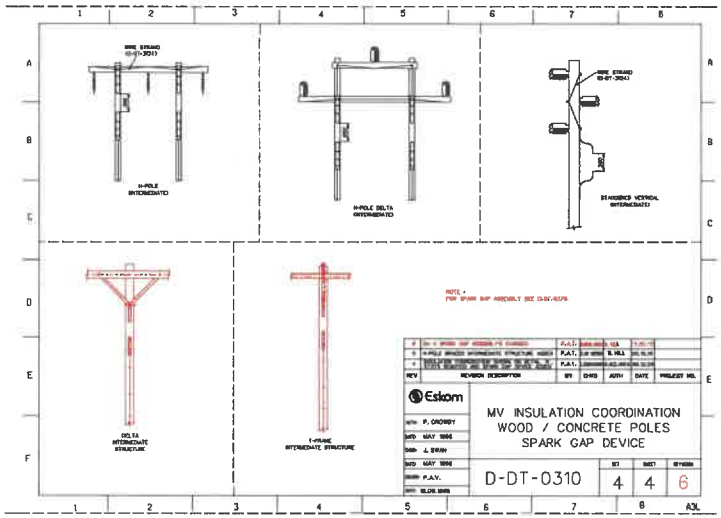

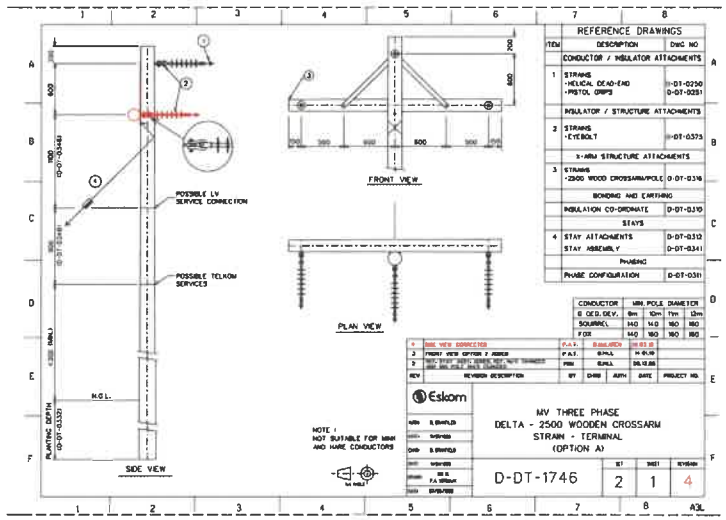

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Du Toitspanweg 186 / Du Toitspan Road | E-Mail admin@mvdkalahari.co.za
Posbus / P.O. Box 580, Kimberley 8300 | www.mvdgroup.org
Tel (053) 831 1889/90 | Level 1 B-BBEE Contributor
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REPUBLIC OF SOUTH AFRICA

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PROPOSED NEW ELECTRICAL SUPPLY ROUTE
SPECIFICATIONS SHEET 1

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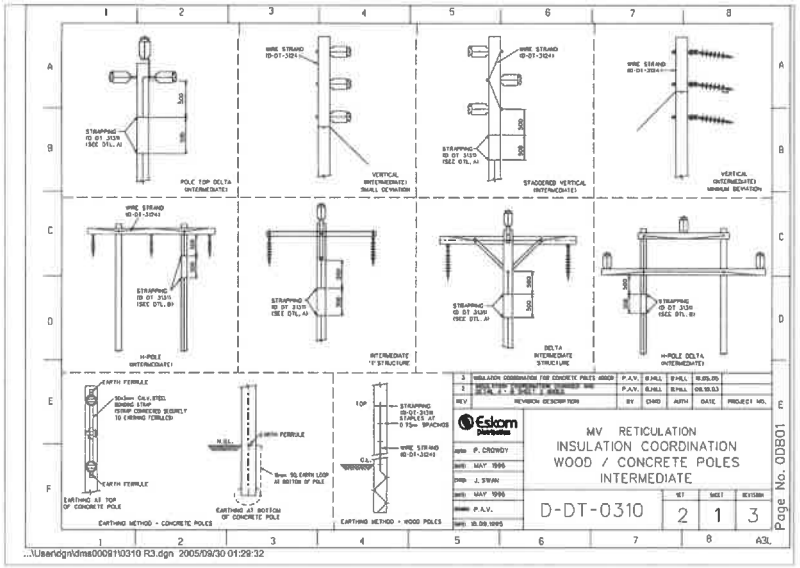

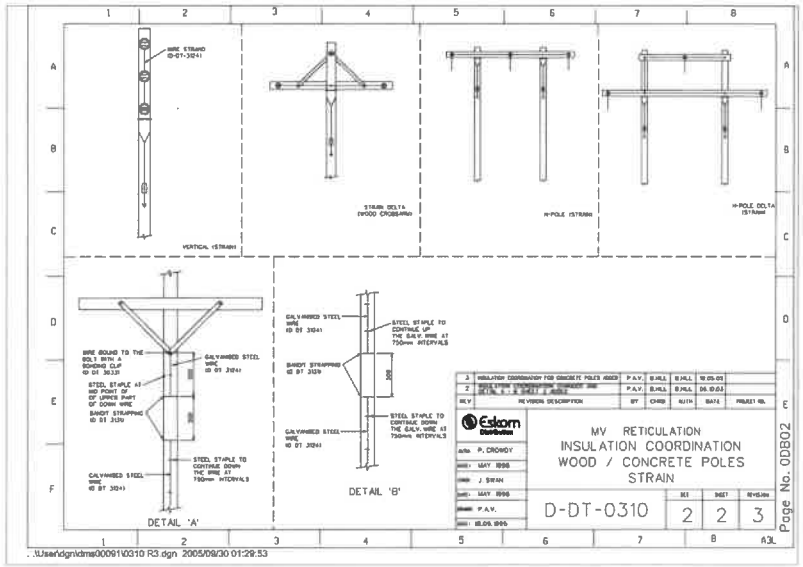

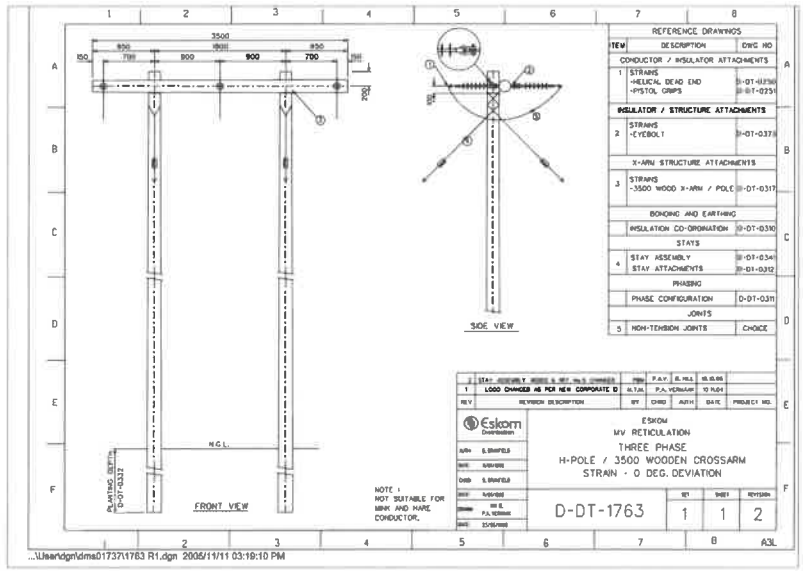

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Du Toitspanweg 186 / Du Toitspan Road
Posbus / P.O. Box 580, Kimberley 8300
Tel: (053) 831 1889/90
E-Mail admin@mvdkalahari.co.za
www.mvdgroup.org
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PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATIONS SHEET 2

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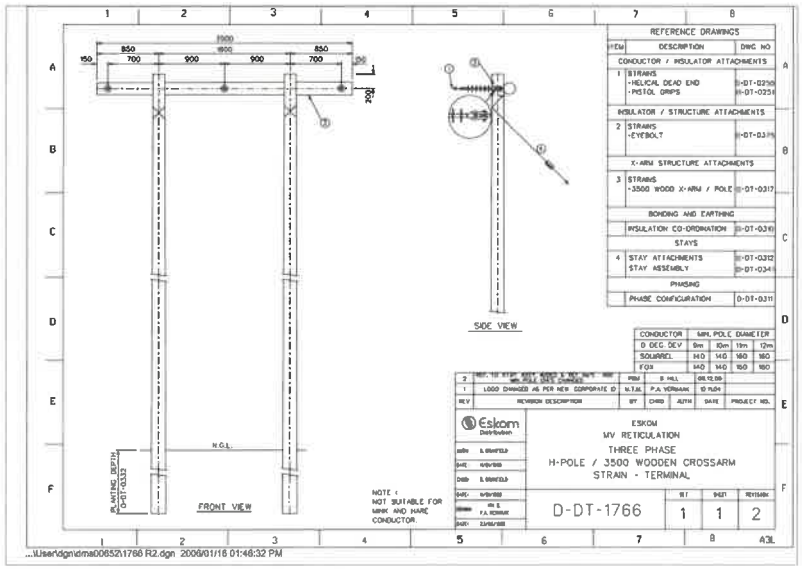

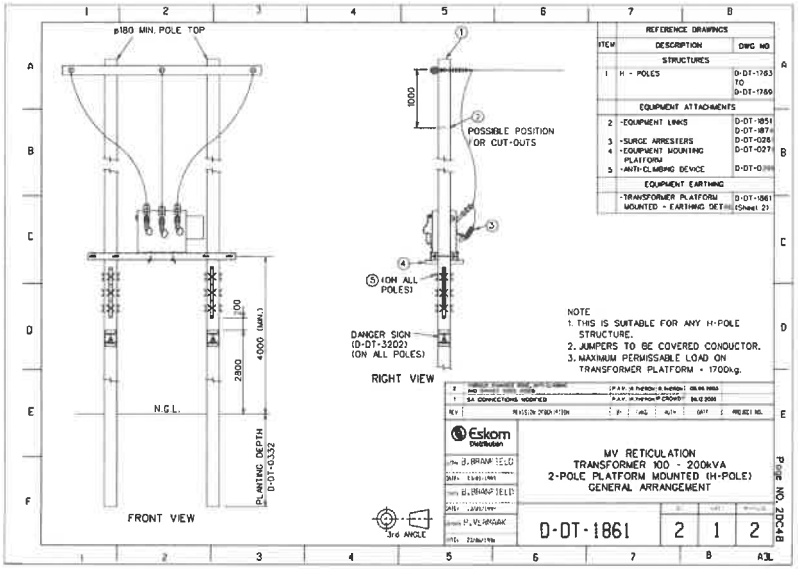

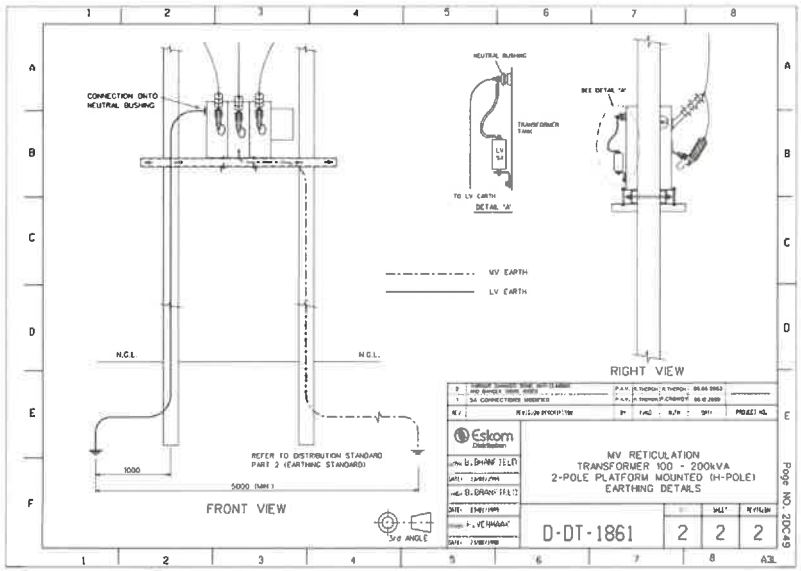

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Du Toitspanweg 186 / Du Toitspan Road | E-Mail admin@mvdkalahari.co.za
Posbus / P.O. Box 586, Kimberley 8300 | www.mvdgroup.org
Tel: (053) 831 1888/90 | Level 1 B-BBEE Contributor
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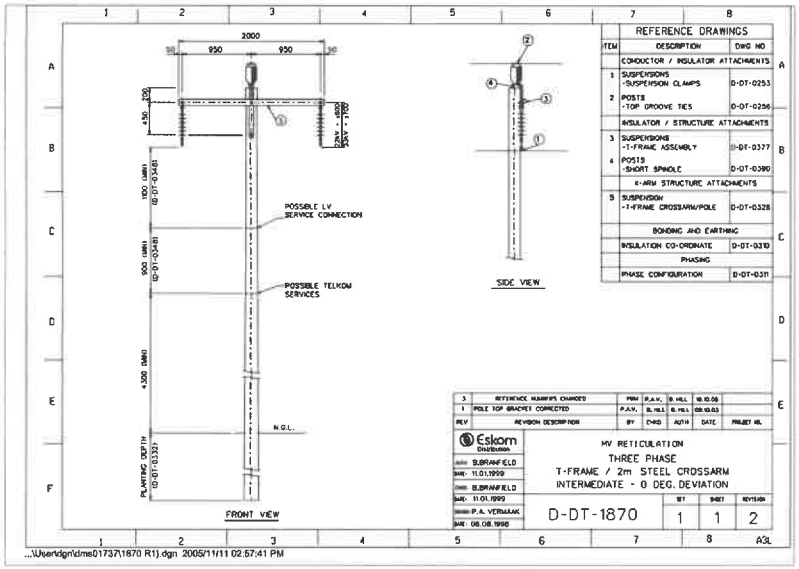

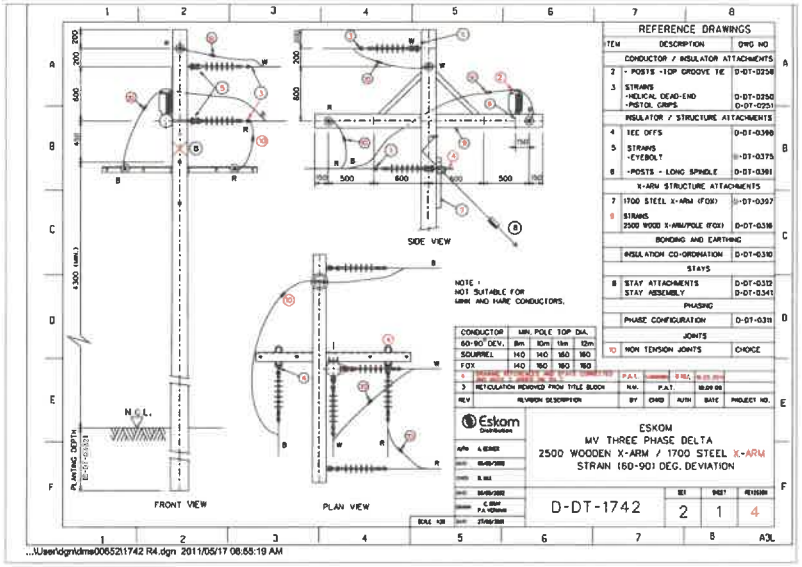

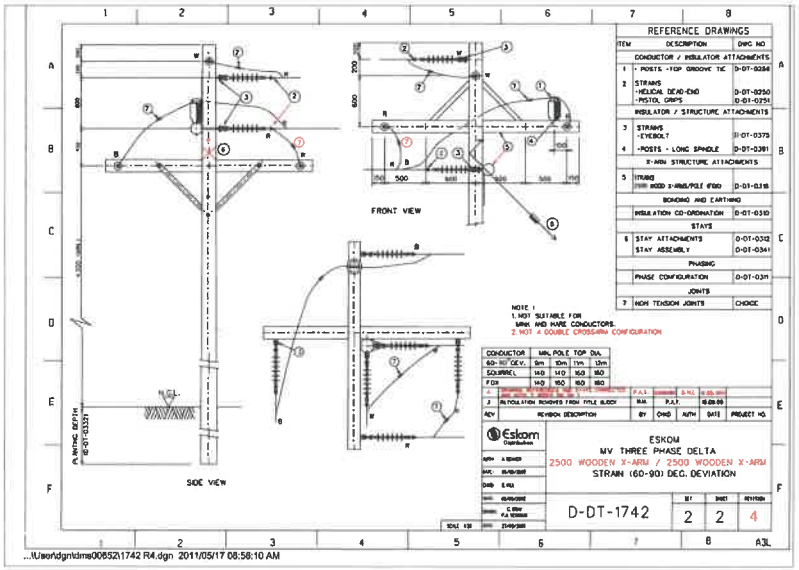

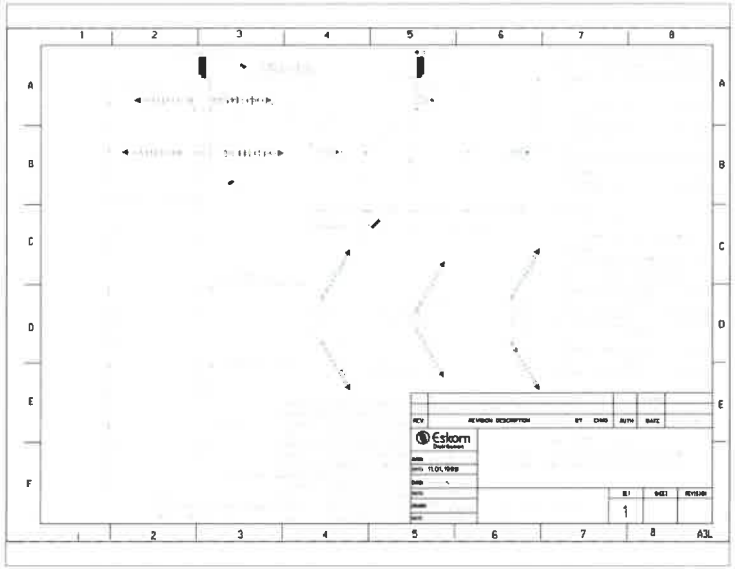

NOTE/NOTA :

NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION

GEEN AFMETINGS MAG VAN TEKENINGE GESKAAL WORD NIE ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

A BEFORE CONTRACT COMMENCES. VOOR KONTRAK IN AANVANG NEEM.
A1 AFTER CONTRACT HAS COMMENCED. NA KONTRAK IN AANVANG GENEEM HET.

NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS

MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning
Du Toitspanweg 186 / Du Toitspan Road | Posbus / P.O. Box 580, Kimberley 8300 | Tel: (053) 831 1888/90
E-Mail: admin@mvdkalahari.co.za | www.mvdgroup.org | Level 1 B-BBEE Contributor
CESA

DESIGN/ONTWERP	H. Jonck
DRAWN/GETEKEN	G. Bosman
CHECKED/NAGEGAAN	H. Jonck
CLIENT/KLIENT	—
DATE/DATUM	SEPT 2024

PROJECT/PROJEK

VAALHARTS & RIETRIVIER RESEARCH STATIONS

CLIENT/KLIENT

agriculture, land reform & rural development
Republiek van Suid Afrika

DRAWING DESCRIPTION/TEKENING BESKRYWING

PROPOSED NEW ELECTRICAL SUPPLY ROUTE SPECIFICATIONS SHEET 4

PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	NTS	50026/K/MV/D/004	---

FOR TENDER

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agriculture, environmental affairs, rural development and land reform
NORTHERN CAPE PROVINCE
REPUBLIC OF SOUTH AFRICA

ANNEXURE: C : SCHEDULE OF KEY PERSONNEL

Service Provider Initial_____

Category A1: 3 - PHASE INSTALLATION ELETRICIAN: NAME & SURNAME: _____	
ID NUMBER	**QUALIFICATION**
Category A2: ELECTRICAL CONSTRUCTION MANAGER/SUPERVISOR: NAME & SURNAME: _____	
ID NUMBER	**QUALIFICATION**
Category A3: SITE SHEQ OFFICER: NAME & SURNAME: _____	
ID NUMBER	**QUALIFICATION**

Service Provider Initial_____

ANNEXURE: D : SCHEDULE OF PROJECT EXPERIENCE OF KEY PERSONNEL

Category A1: 3 - PHASE INSTALLATION ELETRICIAN: NAME & SURNAME:

PROJECT NAME	DESCRIPTION	YEAR COMMENCE	YEAR COMPLETED	PROJECT VALUE INCL VAT	REFERENCE/ CONTACT DETAILS

Category A2: ELECTRICAL CONSTRUCTION MANAGER/SUPERVISOR: NAME & SURNAME: _____

PROJECT NAME	DESCRIPTION	YEAR COMMENCE	YEAR COMPLETED	PROJECT VALUE INCL VAT	REFERENCE/ CONTACT DETAILS

Service Provider Initial_____

Category A3: SITE SHEQ OFFICER: NAME & SURNAME:_____

PROJECT NAME	DESCRIPTION	YEAR COMMENCE	YEAR COMPLETED	PROJECT VALUE INCL VAT	REFERENCE/ CONTACT DETAILS

Service Provider Initial_____

ANNEXURE: E : SCHEDULE OF EXPERIENCE OF BIDDER (COMPANY)

Service Provider Initial_____

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REPUBLIC OF SOUTH AFRICA

PROJECT NAME	DESCRIPTION	YEAR COMMENCE	YEAR COMPLETED	PROJECT VALUE INCL VAT	REFERENCE/ CONTACT DETAILS

Service Provider Initial_____

PART C4 : SITE INFORMATION

Service Provider Initial_____

C4.1 SCOPEC4: SITE INFORMATION

C4.1 SCOPE

The documentation included in this section describes the site as at the time of tender to enable the tenderer to price his tender and to decide upon his method of working and programming.

Only actual information about physical conditions on the site and its surroundings has been included in this section and interpretation is a matter for the tenderers.

C4.2 SUBSOIL INVESTIGATIONS

No formal geotechnical investigation has been done on this project. Prospective tenderers shall acquaint themselves with the nature of the materials found on site. Certain portions of the total excavation may have to be done by mechanical breakers and / or blasting.

No claims whatsoever that may arise because of unforeseen ground and subsoil conditions will be considered. It is the responsibility for the Contractor to ascertain for himself the nature of the ground and subsoil as well as the conditions on site.

It is the Contractor's responsibility to supply and deliver all materials that comply with the minimum standards as well as for the building and maintaining of access roads to the works on site, haul areas or dumping sites. No additional payment will be applicable to the above-mentioned other than the relevant items in the schedule of quantities.

Service Provider Initial_____