

BID ADVERTISEMENT FORM

Bid description	[Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton												
Bid number	[NC/DALFS/0071												
Local content	<p>This bid is advertised in terms of the National Treasury Designated Sectors Instruction Number 15 of 2016/2017. Invitation and Evaluation of bids based on a stipulated minimum threshold of conversion processes for local production and content for steel products and components for construction.</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-right: 20px;">Steel</td> <td style="text-align: right;">100%</td> </tr> <tr> <td style="padding-right: 20px;">Laminated PV Modulus</td> <td style="text-align: right;">15%</td> </tr> <tr> <td style="padding-right: 20px;">Module Frame</td> <td style="text-align: right;">65%</td> </tr> <tr> <td style="padding-right: 20px;">DC Combiner Boxes</td> <td style="text-align: right;">65%</td> </tr> <tr> <td style="padding-right: 20px;">Mounting Structure</td> <td style="text-align: right;">90%</td> </tr> </table>			Steel	100%	Laminated PV Modulus	15%	Module Frame	65%	DC Combiner Boxes	65%	Mounting Structure	90%
Steel	100%												
Laminated PV Modulus	15%												
Module Frame	65%												
DC Combiner Boxes	65%												
Mounting Structure	90%												
Pre-qualification criteria for preferential procurement	<p>This bid is advertised in terms of Regulation 4 of the 2017 PPPFA regulations for bidders who is;</p> <p>3.an EME or QSE which is at least 51% owned by black people who are youth and women ;</p>												
Name of institution	Department of Agriculture, Environmental Affairs, Rural Development and Land Reform												
The place where goods, works, or services are required	Loxton Community Garden in Loxton												
Closing date and time	Date	[14 October 2022	Time 11:00 am										
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	[J Ndoqo [060 967 1015											
Where bids can be collected	[Bid Documents will be handed out at Compulsory Site Briefing (site can only be accessed via gravel road) Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 11:00 will be allowed into the meeting]												
Where bids should be delivered	162 George Street, Kimberley 8300												

PUBLICATION OF AWARD FORM

DESCRIPTION: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



Category (refer to annexure A)	GRADE [1EP or 1CE or Higher and 80/20 point system	
Sector	Other	
Region	[Pixley Ka Seme	
Compulsory briefing session/site visit	Date	10 October 2022
	Time	[11:00 am
	Venue	[Loxton (site can only be accessed via gravel road)

PROVINCE OF THE NORTHERN CAPE

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



**agriculture, environmental affairs,
rural development and land reform**

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

FORMAL PRICE QUOTATION UP TO R500 000-00

DESCRIPTION:[Supply, Delivery and installation of Solar Pump System at Loxton Community Garden
in Loxton

PROJECT NAME:[Loxton Fresh Plot

FUND: [Food **Security** _____

CLOSING DATE:[14 October 2022

PROJECT LEADER

[J Ndoqo

TEL: [060 967 1015

FAX: [N/A

EMAIL:[jndoqo@ncpg.gov.za

BID NO:[NC/DALFS/0071

BIDDER NAME :

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



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

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DESCRIPTION:[Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
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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 B-BBEE Rating:.....

Specified time for completion: :[30 days

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:

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. THE INCLUSION OF AN UNCERTIFIED COPY OF A SANAS ACREDIDATE BBB-EE CERTIFICATE/ A COPY OF A SWORN BBB-EE AFFIDAVIT
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. TO INCLUDE CSD REGISTRATION OR UNIQUE SUPPLIER NUMBER

THE PRICE QUOTATION 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.

DESCRIPTION: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



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:

[Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton

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

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR.: NC/DALFS/0071



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.

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 Mr L. M. M. Wa Modisei.....

Capacity Head of Department.....

Name and address of organisation:

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

162 Goerge Street, Kimberley 8301

Name and signature of witness:

Signature

Name Mr M Dibane.....

Date



3. SCHEDULE OF DEVIATIONS

Notes:

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.

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.

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.

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.

DESCRIPTION: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



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

.....

.....

.....

Name and address of organization

.....

.....

.....

.....

For the Employer

Signature(s)

Name(s) Mr L. M. M. Modisei

Capacity Head of Department.....

Name and address of organization

162 Goerge Street, Kimberley 8301

.....

Witness Signature

Witness Name Mr M Dibane

Date

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

DESCRIPTION: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



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 [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton

The work entails: [Supply, delivery and construction of complete Solar Pump System. Includes Support structure, devils fork fencing and anti-theft **bracket**. **Site for installation is at Loxton Community Garden in Loxton .**

It is estimated that tenderers should have a CIDB contractor grading designation of [**1EP or 1CE** or 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.

A 80/20 point system is applicable to this bid. A B-BBEE status level verification must be submitted in order to qualify for preference points.

DESCRIPTION:[Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



The physical address for collection of tender documents is:

**162 George Street
Kimberley
8301**

[Bid Documents will be handed out at Compulsory Site Briefing (site can only be accessed via gravel road) Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 11:00 will be allowed into the meeting]

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: amonte@ncpg.gov.za

Project Leader:[**J Ndoqo** Contact No.:[**060 967 1015**

Email:[jndoqo@ncpg.gov.za

A compulsory clarification meeting with representatives of the Employer will take place at Transformation Hub & Learning Centre, 94 Market Street, **Loxton 10 October 2022 starting at 11:00 am (site can only be accessed via gravel ad) Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 11:00 will be allowed into the meeting. Co –ordinates: [31°28'31.28"S - 22°21'07.05"E**

The closing time for receipt of tenders is **11:00 am on the [14 October 2022 . 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

Clause number	Tender Data
3.4	<p>Project Leader: [J Ndoqo Tel. No.: [060 967 1015 Fax. No.: [N/A Email: [jndoqo@ncpg.gov.za</p> <p>Project Engineer: PGvW Krüger Tel. No.: 083 411 7949 Fax. No.: N/A Email: piet.kruger1@gmail.com</p>
4.1	<p>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:</p>
4.1	<p>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 [1EP or 1CE class of construction work, are eligible to have their tenders evaluated.</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the [1EP or 1CE 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 [1EP or 1CE class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
4.7	<p>Compulsory site meeting will be held: Transformation Hub & Learning Centre, 94 Market Street, Loxton 10 October 2022 starting at 11:00 am (site can only be accessed via gravel ad) Failure to attend this meeting will lead to automatic disqualification and no service provider arriving after 11:00 will be allowed into the meeting. Coordinates [31°28'31.28"S - 22°21'07.05"E</p>
4.7.1	<p>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.</p>
4.9	<p>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</p>

4.13.4	<p>The tenderer is required to submit with his tender: (Only certificates)</p> <ul style="list-style-type: none"> • An original and a valid Tax Clearance Certificate or PIN issued by the South African Revenue Services. • Proof of CIDB registration • An original or a certified copy of a valid BBEE certificate • Joint venture agreement • Company registration form • A certified letter of goods standing from compensation commissioner • CSD registration or Unique Supplier number only • Work Plan .
4.13.5 4.15	<p>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:</p> <p>Location of Tender Box: 162 George Street Kimberley 8301</p> <p>Identification details: Tender [NC/DALFS/0071</p> <p>Closing date: [14 October 2022 Time : 11:00 am Postal Address: NORTHERN CAPE: DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT AND LAND REFORM ATTENTION: Ms A Montse PRIVATE BAG X5018 KIMBERLEY 8300</p>
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 : 11:00 am on the [14 October 2022
4.16	The tender offer validity period is 90 days.
4.19	<p>Access shall be provided for the following inspections, tests and analysis:</p> <p>Site inspection Soil clarification</p>
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 11:00 am

5.11.4	The procedure for the evaluation of responsive tenders is Method 3																														
5.11.4	<p>The procedure for the evaluation of responsive tenders is Method 3</p> <p>The financial offer will be scored using Formula 2 (option 1) where the value of W_1 is:</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> a) Price; and b) B-BBEE Status Level of Contribution $P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) \text{ or } P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$ <p>Where: P_s = Points scored for comparative price of bid under consideration P_t = Comparative price of bid under consideration P_{min} = Comparative price of lowest acceptable bid</p>																														
5.11.3	<p>Points awarded for B-BBEE Status Level of Contribution</p> <p>In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below</p>																														
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 33%;">B-BBEE Status Level of Contributor</th> <th style="width: 33%;">Number of points (90/10 system)</th> <th style="width: 33%;">Number of points (80/20 system)</th> </tr> </thead> <tbody> <tr><td>1</td><td>10</td><td>20</td></tr> <tr><td>2</td><td>9</td><td>18</td></tr> <tr><td>3</td><td>8</td><td>14</td></tr> <tr><td>4</td><td>5</td><td>12</td></tr> <tr><td>5</td><td>4</td><td>8</td></tr> <tr><td>6</td><td>3</td><td>6</td></tr> <tr><td>7</td><td>2</td><td>4</td></tr> <tr><td>8</td><td>1</td><td>2</td></tr> <tr><td>Non-compliant contributor</td><td>0</td><td>0</td></tr> </tbody> </table>	B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)	1	10	20	2	9	18	3	8	14	4	5	12	5	4	8	6	3	6	7	2	4	8	1	2	Non-compliant contributor	0	0
B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)																													
1	10	20																													
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5	4	8																													
6	3	6																													
7	2	4																													
8	1	2																													
Non-compliant contributor	0	0																													

5.13	Acceptance of tender offer
5.13	<p>Tender offers will only be accepted if:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

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: Local Content (NCP 6.2)
- Schedule 4: Compulsory Enterprise Questionnaire
- Schedule 5: Authority of Signatory
- Schedule 6: Proof of Experience Relevant to Proposed Work
- Schedule 7: Certificate of Attendance at Clarification Meeting
- Schedule 8: Record of Addenda
- Schedule 9:
 - A) Valid Tax Clearance Certificate or SARS PIN
 - B) Certificate of Contractors Registration issued by the CIDB
 - C) Tender Entity Identification
 - D) Certificates refer to T1.2 (4.13.4)
 - E) Proof of CSD registration or unique supplier number.
- Schedule 10: Declaration Concerning Fulfillment of the Construction Regulations, 2014

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



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

SCHEDULE 1 : DECLARATION OF INTEREST

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 institution	State



2.2 Do you, or any person connected with the bidder, have a relationship

 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.

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, _____ the _____ undersigned, (name)..... 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 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.

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3.4 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.

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.

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

SCHEDULE 2: PREFERENCE POINTS CLAIM

NCP 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- a. the 80/20 system for requirements with a Rand value of up to **R50 000 000** (all applicable taxes included); and
- b. the 90/10 system for requirements with a Rand value above **R50 000 000** (all applicable taxes included).

1.2 The value of this bid is estimated to not exceed **R50 000 000** (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable

1.3 Points for this bid shall be awarded for:

- a) Price; and
- b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

2. DEFINITIONS

- a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- g) **“prices”** includes all applicable taxes less all unconditional discounts;
- h) **“proof of B-BBEE status level of contributor” means:**
 - 1. B-BBEE Status level certificate issued by an authorized body or person;
 - 2. A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3. Any other requirement prescribed in terms of the B-BBEE Act;
- i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 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

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where:

P_s	=	Points scored for price of bid under consideration
P_t	=	Price of bid under consideration
P_{\min}	=	Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR
4.1 IN TERMS OF REGULATION 6 (2) AND 7 (2) OF THE PREFERENTIAL PROCUREMENT REGULATIONS, PREFERENCE POINTS MUST BE AWARDED TO A BIDDER FOR ATTAINING THE B-BBEE STATUS LEVEL OF CONTRIBUTION IN ACCORDANCE WITH THE TABLE BELOW:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: = (maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

1. What percentage of the contract will be subcontracted.....%
2. The name of the sub-contractor.....
3. The B-BBEE status level of the sub-contractor.....
4. Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51%	EME	<input type="checkbox"/>	QSE	<input type="checkbox"/>
---	-----	--------------------------	-----	--------------------------

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owned by:	√	√
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:

8.2 VAT registration number:

8.3 Company registration number:

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 MUNICIPAL INFORMATION

Municipality where business is situated:

Registered Account Number:

Stand Number:

8.8 Total number of years the company/firm has been in business:

- 8.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:
- (a) The information furnished is true and correct;
 - (b) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - (c) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
 - (d) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - disqualify the person from the bidding process;
 - recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - 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;
 - recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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
 - forward the matter for criminal prosecution.

WITNESSES
.....
.....

.....
SIGNATURE(S) OF BIDDERS(S)
DATE:

SCHEDULE 3: LOCAL CONTENT

NCP 6.2

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where:

- x is the imported content in Rand
y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

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- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;
2. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

Description of services, works or goods	Stipulated minimum threshold
Steel	100%
Laminated PV Modulus	15%
Module Frame	65%
DC Combiner Boxes	65%
Mounting Structure	90%

3. Does any portion of the goods or services offered have any imported content?
 (Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):
.....

NB

The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thdti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of(name of bidder
entity), the following:

The facts contained herein are within my own personal knowledge.

I have satisfied myself that:

the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and

The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Steel 100%

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

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Laminated PV Modulus 15%	
Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	
Module Frame 65%	
Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	
DC Combiner Boxes 65%	
Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	
Mounting Structure 90%	
Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

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If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

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SATS 1286.2011

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			R 0

(E10)	Manpower costs (Tenderer's manpower cost)	R 0
(E11)	Factory overheads (Rental, depreciation & amortisation, utility costs, consumables etc.)	R 0
(E12)	Administration overheads and mark-up (Marketing, insurance, financing, interest etc.)	R 0
(E13) Total local content		R 0

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

SCHEDULE 4 : 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:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> 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) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

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If any of the above boxes are marked, disclose the following: (insert separate page if

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:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- 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)
- a member of an accounting authority of any national or provincial public entity
- 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

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

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 _____

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SCHEDULE 5: 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 CORPORATIO N	(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 _____, 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.

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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.

(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.

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(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:

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 DEPT. OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT in respect of the following project:

[Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton

(Project description as per Bid /Tender Document)

Bid / Tender Number: _ [**NC/DALFS/0071** *(Bid / Tender Number as per Bid /Tender Document)*

*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.

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.

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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			
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DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



Note:
 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

ENTERPRISE STAMP

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)

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RESOLVED that:

A. The above-mentioned Enterprises submits a Bid in Consortium/Joint Venture to the DEPT. OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT in respect of the following
Project Description: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton

B. 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.

E. 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.

F. 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.

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G. 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)

	NAME	CAPACITY	SIGNATORY
1			
2			
3			
4			
5			
6			
7			

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agriculture, environmental affairs,
rural development and land reform
Department
agriculture, environmental affairs,
rural development and land reform
NORTH WEST PROVINCE
REPUBLIC OF SOUTH AFRICA

Note:

** Delete which is not applicable.*

- *NB. This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the Consortium/Joint Venture submitting this Bid.*
- *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.*
- *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: _____

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SCHEDULE 7: 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: To be submitted in original ink, no copies will be accepted.

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

SCHEDULE 8: 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 _____

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SCHEDULE 9: 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 T1.2 (4.13.4)

- An **original** and a **valid** Tax Clearance Certificate or PIN issued by the South African Revenue Services.
- Proof of CIDB registration
- An **original** or a **certified copy** of a **valid** BBBEE certificate
- Joint venture agreement
- Company registration form
- A certified letter of goods standing from compensation commissioner
- CSD registration or Unique Supplier number only
- Work Plan .

Signed Date

Name Position

Tenderer.....

SCHEDULE 10: 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:

- (i) 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	<input type="checkbox"/>
NO	<input type="checkbox"/>

- (ii) 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)	<input type="checkbox"/>
Own resources, still to be hired and/or trained (until competency is achieved)	<input type="checkbox"/>
Specialist subcontract resources (competent) - Specify:	<input type="checkbox"/>
.....	
.....	

- (iii) 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):

.....

.....

.....

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

.....

(v) List potential key risks identified and measures for addressing risks:

.....

(vi) 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):

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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 : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Telephone: 087630000 Address (Postal): P/Bag 5018 House, Kimberley 8300 </div> <div style="width: 45%;"> Facsimile: 087630000 Address (Physical): Temothuo 162 George Street Kimberley 8300 </div> </div>
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 year end break is 12 December 2022 to 6 January 2023. The year-end break shall be in accordance with the dates recommended by SAFCEC.

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Clause	Description
3.1.3	<p>The Engineer shall obtain the specific approval before executing any of the following functions or duties:</p> <ul style="list-style-type: none"> a. The issuing of a variation order in terms of Clause 6.3.2. b. Nomination of Engineer's Representative in terms of Clause 3.2.1. c. Engineer's authority to delegate in terms of Clause 3.2.4. d. Non-working times in terms of Clause 5.8.1. e. Suspension of the Works in terms of Clause 5.11.1. f. Acceleration instead of extension of time in terms of Clause 5.12.4.
4.3.2	<p>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.</p>
4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.4.5	<p>Subcontracting</p> <p>The Contractor shall not subcontract the whole contract. Subcontract must not exceed 25% of the contract. Engineering approval must be obtained for sub-contracting.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
5.2.1	<p>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.</p>

5.3.1	<p>The documentation required before commencement with the execution of works is:</p> <ol style="list-style-type: none"> 4. Work programme and projected cash flow. 5. Occupational Health and Safety Plan 6. Contract between farmer and contractor for housing, water and electricity to be utilized on site <p>The commencement date of the project would only be if above stated information and documents has been handed in to the Department and has been approved by the Departments authorised Engineer.</p>
5.3.2	<p>The time to submit documentation from commencement date is within fourteen (14) days</p>
5.4.2	<p>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 ongoing use by the general public is required.</p> <p>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</p>
5.8.1	<p>The non-working days are Sundays</p> <p>The special non-working days are:</p> <ul style="list-style-type: none"> • All Gazetted public holidays falling outside the year end break • The year-end break commencing on 12 December 2022 to 6 January 2023
5.13.1	<p>The penalty for failing to complete the Works is 0.1% of contract value per calendar day</p>
5.16.3	<p>The latent defects period is 10 years for civil engineering works, 5 years for building works, 2 years for electrical and mechanical works.</p>
6.2.3	<p>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.</p>
6.5.1.2.3	<p>The percentage allowance to cover overhead charges must not exceed 15%.</p>

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6.8.2	<i>Add the following to Clause 6.8.2:</i>
	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	<i>Add the following to Clause 6.8.4:</i>
	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.
6.10.3	<i>Add the following to Clause 6.10.3:</i>
	Notwithstanding the provision of a performance guarantee in terms of Clause 6.2.1, interim payments to the Contractors shall be subject to a retention by the Employer of an amount limited at 0% of the said amounts due to the contractor. A guarantee in lieu of retention is not permitted.
6.10.4	<i>Add the following to clause 6.10.4:</i>
	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) .

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6.10.3	Add the following to Clause 6.10.3:
8.6.1.3	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.
8.6.1.5	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:
	<p>a) 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.</p> <p>b) Insurance in terms of the provisions of the Compensation of Occupational Injuries and Diseases Act No. 130 of 1993.</p> <p>c) Motor Vehicle Liability Insurance comprising (as a minimum) “Balance of Third Party” Risks including Passenger Liability Indemnity.</p> <p>d) 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.</p>
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	Add the following to Clauses after Clause 9.2.1.3.7:
9.2.1.3.8	The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.
9.2.1.3.9	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.

ADDITIONAL CONDITIONS OF CONTRACT

<p>11</p>	<p>Non-compliance with Engineer's Instructions</p> <p>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.</p> <p>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.</p>
<p>12</p>	<p>Implementation of the Occupational Health and Safety Act No. 85 of 1993</p> <p>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:</p> <p>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</p> <p>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</p> <p>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.</p>

13	<p>The additional conditions of tender are:</p> <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 In the case of a joint venture, all partners must include and complete a NCP4,NCP8, NCP9, both their SARS CERTIFICATES or SARS PIN, JOINT VENTURE BBB-EE CERTIFICATE and their Joint Venture Agreement. In the case of a partnership, all partners must include their partnership agreement.
	<ol style="list-style-type: none"> 8. It is the responsibility of every bidder to sign the attendance register at the site

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8. It is the responsibility of every bidder to sign the attendance register at the site meeting.
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.
N/A
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 award the tender or accept the lowest tender for the bid.
15. Once original tax invoice has been submitted the employer's agent will verify it within seven days and payment will be made within 30 days thereafter.
16. Labour requirement: Monthly pay sheets, time sheets, certified ID copies and labour contracts. **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:
 - Own diesel and lubrication
 - Oil spills – cost to clean
 - Suitable accommodation and ablution facilitiesIn 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.
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.

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20. LOCAL CONTENT

20.1 Bidder must fully complete declaration for Local Production and Content (NCP 6.2) together with Local Content Declaration: Summary Schedule (Annexure C), duly signed.

20.2 The Department reserves the right to request auditor's certificates confirming the authenticity of the declarations made in respect of the local content.

Industry/Sector/Sub-Sector

Minimum threshold for local content

Steel	100%
Laminated PV Modulus	15%
Module Frame	65%
DC Combiner Boxes	65%
Mounting Structure	90%

21. 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.

22. On completion of the installation of the solar pump system, the system must be tested by the contractor in the presence of the project leader and beneficiaries

23. Contract between farmer and contractor for usage of water and electricity and housing must be provided to project leader before any claim of this item may be processed

24. This bid is advertised in terms of Regulation 4 of the 2017 PPPFA regulations for bidders who is; 3.an EME or QSE which is at least 51% owned by black people who are youth and women;

25. Certificate of Compliance(COC) must be issued after completion of work.

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C1.2 : CONTRACT DATA

PART 2 : DATA PROVIDED BY THE CONTRACTOR

Clause	Description
1.1.1.9	The name of the Contractor is <i>[Enter the Legal name of the Contractor].</i>
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 %

C1.3 : OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

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AGREEMENT MADE AND ENTERED INTO BETWEEN 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 thisday of 20.....

.....
Witness

.....
Mandatory

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

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

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

PART C2 : PRICING DATA FOR WORKS

- C2.1 Pricing Instructions**
- C2.2 Bill of Quantities**

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.

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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 :

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 or 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.

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C2.2: BILL OF QUANTITIES

**Supply, delivery and intallation of Solar Pump System at Loxton Commonage (Community Garden)
 NC/DALFS/ 0071 Work numbers 95
 Bill of quantities: Bill 1 (Provisional)**

No.	Description	Unit	Quantity	Unit Price	Total Price (Excluding Vat)
1,1	Solar s system complete: Loxton Commonage W95 (Installation included)				
	Deliver 20 000 litre per day per pump				
	Total head 77,8 m				
	Solar pump;	Unit	1		R
	Solar panels (Grade A); 4 x 335Watt-46,21Voc -37,41Vmp	Unit	4		R
	1 x Wire Kit panel to box;	Unit	2		R
	1 x Support structure (drawing attached);	Unit	2		R
	1 x IO 101 switch box (with 230 v connection for generator); Pump control	Unit	1		R
	SQF Sacrificial Anode 1kg	Unit	1		R
	SQF Pressure control unit & over pressure relief valve (9 bar);	Unit	1		R
	4 mm 3 core submersible cable;	m	80		R
	Splicing kit 82 A1 (2.5 –4mm);	Unit	1		R
	Polyethylene Pipe HDPE 32mm Class 10	m	70		R
	Press steel 32 mm;	Unit	1		R
	Male adaptor 32 x 1,25	Unit	2		R
	Safety Rope M10	m	75		R
	Galv. M+F bend 90deg 32mm	Unit	1		R
	Cable Ties T120R 388x7.8mm	Unit	70		R
	Borehole Depth 100m				
	Pump installation depth: 70m				
1,2	Transport & installation	Unit	1	R	R
1,3	Devils Fork around Solar Pump System: 10 x 10 wide and 1.8m high with 3m gate.(Specs. attached)	Unit	1	R	R
1,4	Hard Rock Drilling holes in ground	Unit	1	R	R
1,5	Installation of locking system at borehole(bracket) to prevent theft of solar pump from borehole.	Unit	1	R	R
Total (Vat Excl.)Carried forward to summary					R
BILL NO.1 Solar system complete: Loxton Commonage W95 (Installation included)					

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Supply, delivery and installation of Solar Pump System at Loxton Commonage (Community Garden)

NC/DA/ 1997 Work numbers 95

Bill of quantities: SUMMARY (Provisional)

Item	Description	Page no.	Amount Excl. Vat
	SUMMARY		
1	Solar system complete: Loxton Commonage W95 (Installation included)	1	R
		SUB TOTAL Excl. Vat	R
		VAT 15%	R
		TOTAL	R

Project Name: [Loxton Fresh Plot

Funding: [Food Security

For Employer:

Specification Committee	Name	Signature	Rank	Office	Date
Compiled:	PGvW Krüger	<i>[Signature]</i>	ET	Rietrivier	2022/08/31
Checked:	R. CLOETE	<i>[Signature]</i>	CTCSRM	calvinia	2022/09/06
Checked:	G. P. STEMMER	<i>[Signature]</i>	ENG. PROJ	UP	07/09/2022
Approved:	T. MONCHO	<i>[Signature]</i>	DD	KIMBERLEY	07/09/2022

Project Office	Name	Signature	Rank	Office	Date
Checked:					

For Contractor:

Signature(s)

Name(s)

Capacity

For the Tenderer

(Name and address or organisation)

Date

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PART C3: SCOPE OF WORK

C3.1 Description of the Works

C3.2 Engineering

C3.3 Procurement

C3.4 Construction

C3.5 Management

C3.6 Occupational Health and Safety Specification

C3.7 Environmental Management

C3.8 Annexures

C3.1 : DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVES

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

C3.1.2 OVERVIEW OF THE WORKS

This contract entails the supply, delivery and installation of a complete solar pump system which also includes the support structures, devils fork fencing and bracket to prevent theft of pump. The site is at Loxton Community Garden in Loxton.

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

The supply, delivery and installation of the solar pump system will include:

1. Drilling holes for planting of support structures
2. Planting support structures
3. Excavation for poles for the devils fork fencing
4. Construction of the devils fork fencing
5. Installation of solar pump, motor and pressure control unit
6. Installation of bracket to prevent theft
7. Testing the system

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.

C3.1.4 LOCATION OF WORKS

The site is situated at **Loxton Community Garden in Loxton**

The co-ordinates are[**31°28'46.27"S - 22°21'42.30"E**

Access to the site is via existing roads.

It is required of the contractor to familiarise 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.

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C3.2 : 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

- NC/DALFS/0071 - Drawing 1 Farm Plan
- NC/DALFS/0071 - Drawing 2 List of Works
- NC/DALFS/0071 - Drawing 3 Work Plan
- NC/DALFS/0071 - Drawing 4 Long Section
- NC/DALFS/0071 - Drawing 5 Pump line design

C3.2.3 Contract Specifications

F Solar Pump Specifications:

- PP1. Pump outside diameter not exceeding 80 mm Ø;
- PP2. The pump must be protected against dry-running, overloading and overheating;
- PP3. Automatic restart when water returns to the well or when the motor temperature returns to the safety range;
- PP4. Maintenance free – Brushless (brushless induction high efficiency permanent magnet motor);
- PP5. Maximum Power Point Tracking (MPPT);
- PP6. All outer pump material must consist of 316 Stainless Steel for high wear resistance;
- PP7. The pump should be either Direct Current driven or Alternating Current driven with its own inverter;
- PP8. Pump motor must operate at any voltage between 30V and 300V DC or 90-240V AC;
- PP9. Pump must consist of a helical rotor (progressive cavity pump);

Solar panel specifications:

- PP10. Solar panels must be IEC/SABS certified;
- PP11. Solar panels must be graded “A”;
- PP12. Minimum voltage of panels must be above 37 v DC and a maximum of 335 watt;
- PP13. Panels must have class C fire rating;
- PP14. Serial number must be labelled under the glass;
- PP15. Panels must be mono or multi crystalline;
- PP16. Each panel must clearly be marked with the following information:

- Manufacture details
- Model or type
- Peak power
- Warranted minimum peak power
- Voltage
- Open circuit voltage
- Current
- Short circuit current

PP17. Support structure specifications: Drawing attached

- PP18. All electrical installations must be earthed;
- PP19. Solar panels must be fitted on a Frame - Specifications attached;
- PP20. All material must be SABS approved where applicable;
- PP21. Attach a table defining daily and monthly water supply;**
- PP24. Two year(24 months) guaranty must be given on pumps and motors;
- PP25. Pumps must be provided with pressure switches which will enable the systems to switch of when tanks/ reservoir are completely filled and start when water level in tank drop.

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General specifications:

- PP26. Solar panels must be fitted with a Security System from Solar Panel Supplier.
- PP27. The borehole where pump is to be fitted will be shown to successful bidder by an officer from the Department of Agriculture.
- PP28. The top of borehole must be secure with a locking system (bracket) to prevent pump be stolen from borehole.
- PP29. The installation must be fenced off with 10m x 10m x 1.8m high Devils Fork with 3m gate (Specifications attached).

SPECIFICATIONS DEVILS FORK PALISADE FOR SOLAR PUMP SYSTEM

- PP30. Solar pump system must be fenced off with a 10m x 10mx 1.8m high devils fork palisade with a 3m gate (2 x 1.5m gates).
- PP31. 76mm x 38mm x 2mm tubing for frame of gate.
- PP32. 40mm x 40mm x 2.0mm Angle Iron Horizontals.
- PP33. Palings 40mm x 40mm x 2.0mm (1.8m high) hot rolled angle iron devils fork or spikes of same specs. Palings spaced at 160mm maximum centre to centre.
- PP34. Posts 75mm x 75mm x 2.5mm (2.4m long), buried 600mm with 450mm x 450mm x 600mm concrete footing.
- PP35. All posts fitted with steel caps.
- PP36. All concrete must have a strength of 30 MPA on the 28th day.
- PP37. Only new steel to be used.

DECLARATION:

I, _____ in the capacity of _____
hereby accept the conditions and specifications as stated above.

Signature

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

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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

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.

C3.4 : CONSTRUCTION

C3.4.1 WORKS SPECIFICATION

C3.4.1.1 Applicable SANS Standards

For the purpose of this Contract the latest issues of the following Standard Specifications for Civil Engineering Construction, applicable at the date of tender advertisement, shall apply -

SANS 1200 A	:General
SANS 1200 AB :	Engineer's Office
SANS 1200 C	:Site Clearance (Amendment 1, 1982)
SANS 1200 D	:Earthworks (Amendment 1, 1990)
SANS 1200 DB :	Earthworks (Pipe Trenches)
SANS 1200 DM:	Earthworks (Roads, Subgrade)
SANS 1200 G	:Concrete (Structural)
SANS 1200 GA	:Concrete (Small Works)
SANS 1200 L	:Medium-Pressure Pipelines
SANS 1200 LB :	Bedding (Pipes)
SANS 1200 LD :	Sewers
SANS 1200 M	:Roads (General)
SANS 1200 ME:	Subbase
SANS 1200 MF:	Base
SANS 1200 H :	Structural Steel Works
SANS 1200 GB:	Ordinary Building Works

The term "project specifications" appearing in any of the SANS 1200 standardised specifications must be replaced with the term "scope of work".

C3.4.1.2 Applicable National and International Standards NOT APPLICABLE

C3.4.1.3 Particular / Generic Specifications

In addition the following Particular Specifications that are bound into this document shall apply:

Specifications PB : Building Works

SCOPE

This project specification covers variations and additions to standardised or particular specifications that are applicable to the contract.

The numbering method of this project specification deviates as follows from the method suggested in the Code of Practice SANS 1200.

Each clause with the prefix PS shall refer to the congruent clause in the appropriate section of the standardised or particular specification. Such clause shall either substitute, or supplement, or amend the clause with the same number. Where there is no such congruent clause in the standardised or particular specification, the PS clause shall be a new clause in the project specification. Any clause that is referred to in the standardised specification will also include the appropriate project specification.

C3.5 : MANAGEMENT

C3.5.1 Construction Program and Methods

The Contractor shall programme the works.

The Contractor must sequence the works as follow:

...

Only one completion certificate will be issued for the project.

The Contractor shall indicate in his construction programme the number of construction teams he envisage will be required including the date when each team will start, change/activity where each team will commence from and the estimated period for which each team will be engaged.

Construction methods must be of such nature that no property or life on site or adjacent to the works is endangered. The Employer accepts no responsibility for work that is done outside the site boundaries without the Engineer's approval.

All open excavations on site must be clearly demarcated and safeguarded before it is left overnight, during weekends and on public holidays. All excavations shall be backfilled and finished to the complete satisfaction of the Engineer.

The Contractor shall program separately for the detection, exposing and modification of existing services at the start of the contract at least fourteen (14) days prior to the proposed crossings. The position and levels thereof must be recorded and forwarded to the Engineer so that any adjustments to the design can be made if necessary. No extension of time arising out of any delay in completing this work will be considered.

The Contractor shall submit within two (2) weeks after site-handover to the Engineer an updated construction program indicating all construction activities, phasing, handing over of sections, resources, timelines, monthly expenditure and critical path with specific reference to criteria in C3.5.1 for the duration of the construction period indicated for approval. The Contractor will not be allowed to commence with any work before this program has been agreed upon and approved by the Engineer.

The Contractor himself is responsible for liaison and the necessary arrangements with property owners, relevant local and road authorities, Eskom, Telkom and Neotel etc. in respect of service crossings and the finalisation and approval of the works program.

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.

The Contractor shall record progress against the program. The Contractor shall draw the Engineer's attention immediately to any activities that fall behind program and shall inform

the Engineer how he proposes to get back on program. Progress meetings shall be held monthly on site.

The Contractor himself is responsible for liaison with property owners with regards to the programming of construction activities through private properties and the crossing of access ways to properties at least fourteen (14) days before such construction activities commence. No additional payment will be made in this regard.

The Contractor shall be responsible to inform all property and business owners by written confirmation of any road closures and the arrangements must be completed at least seven (7) days in advance. No additional payment will be made in this regard and it shall be deemed to be covered by the relevant items.

However both vehicle and pedestrian access to businesses, commercial properties and municipal and state institutions i.e. SAPS buildings, provincial clinics, traffic departments and schools must be provided at all times and arrangements for temporarily alternative parking must be discussed and arranged with the relevant businesses or institutions.

Sufficient photos of existing structures, walls and areas that have to be crossed must be taken by the Contractor and handed over to the Engineer before such operations commence. No payment will be made in this regard and it shall be deemed to be covered in the preliminary and general items.

A Mechanical and electrical contractor will be on site during the contract period. The Contractor must note that no additional payment is applicable for re-programming of the works and/or any delays that may be caused by bad co-ordination, unless otherwise agreed by the Engineer. All costs associated with liaison with the Mechanical en electrical contractor and the accommodation of the main contractor's activities on the site must be allowed for in the schedule of quantities.

Existing services shall remain in operation throughout the duration of the contract.

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:

- 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.

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.

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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

1. 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. 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.

2. 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.

3. 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.

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

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:

- 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.
- 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.

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) banded 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.

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.

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.

DESCRIPTION: [Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: [NC/DALFS/0071



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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 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.

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



C3.8: ANNEXURES

DESCRIPTION:[Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
QUOTATION NR:[NC/DALFS/0071



ANNEX A: LOCALITY PLAN

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton
Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



ANNEXURE B: DRAWINGS

- NC/DALFS/0071 - Drawing 1 Farm Plan
- NC/DALFS/0071 - Drawing 2 List of Works
- NC/DALFS/0071 - Drawing 3 Work Plan
- NC/DALFS/0071 - Drawing 4 Long Section
- NC/DALFS/0071 - Drawing 5 Pump line design

DESCRIPTION: Supply, Delivery and installation of Solar Pump System at Loxton Community Garden in Loxton
QUOTATION NR: NC/DALFS/0071



PART C4 : SITE INFORMATION

C4.1 SCOPE

C4.2 SUBSOIL INVESTIGATIONS

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.

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.

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

Reference:	Head Office :	2/000667/0	Region :	225/000667/0
Owner : Ubuntu Municipality				
Farm Unit : Loxton commonage			Magisterial District: Ubuntu Municipality	
Grazing capacity of veld:		26 ha/GVE	Number of stock which may be kept on veld: 448 GVE	

LIST OF SOIL CONSERVATION WORKS AS PER FARM MAP No. :

8/225/000667/0

Page : 1

1. If subsidy is required, construction of the proposed soil conservation work may not be commenced with unless written consent thereto has been received from the Executive Officer.

2. Works under group 1 are proposed soil conservation works which may be considered for subsidy.

3. Works under group 2 have already been subsidized.

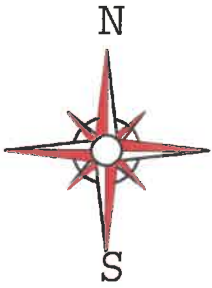
4. Works under group 3 are not subsidized

Work No. and Group No.			Location as per farm map	Description and purpose of work	Measurements
1	2	3			
				Work no's 1 - 91 as per shedule of works 5/214/005123/3	
	92		K32	Wool felting building, equipment and water supply	As per drawing WB/01
	93		K31	Sighting,Drilling and testing of Borehole	See Specifications
	94		W26	Sighting,Drilling and testing of Borehole	See Specifications
95			W26	Complete Solar Pump System	See Specifications
96			W26	Pumpline and tanks	See Specifications
97			K37,B38	Gravity Pipeline	See Specifications

Compiled by: PGvW Kruger	Rank : ET	Office : Rretitue	Date: 31/08/22
Checked by: H. Roux	Rank : CT	Office : De Au	Date: 31/08/22
Approved by: H. Roux	Rank : CT	Office : De Ab	Date: 31/08/22

Drawing 3

WERKSPLAN / WORKPLAN
 Ubuntu Local Municipality
 Loxton Commonage
 WERK 95-97
 SKAAL 1: 10 000



K23

W24

K21

WORK 96
 1 X 10 000L
 Plastic Tank
 with base

WORK 96
 10m X 40mm CL6 HDPE
 POLYETHYLENE PIPE (SABS)

B38

B
 93
 -P
 95

Existing
 17mx1.4m
 Concrete
 Reservoir

WORK 95
 COMPLETE SOLAR PUMP
 Borehole Depth 100m
 Pump Depth 70m
 Need 20 000L/day
 Total Pump Head 77.8m
 Solar Panels 330W (4)

K37

WORK 97
 79m X 32mm CL6 HDPE
 POLYETHYLENE PIPE (SABS)

K14

LEGENDE / LEGEND

EXISTING FENCE BESTAANDE HEINING	—x—
SUGGESTED FENCE VOORGESTELDE HEINING	-x-
IRRIGATION LAND BESPROEINGS LAND	~
EXISTING RESERVOIR/TANK BESTAANDE DAM/TENK	○
SUGGESTED RESERVOIR/TANK VOORGESTELDE DAM/TENK	○
EXISTING PIPELINE BESTAANDE PYPLYN	-p-
SUGGESTED PIPELINE VOORGESTELDE PYPLYN	--p--
EXISTING BOREHOLE AND PUMP BESTAANDE BOORGAT EN POMP	BP
EXISTING BOREHOLE AND WINDMILL BESTAANDE BOORGAT EN WINDPOMP	BW
EXISTING TROUGH BESTAANDE KRIP	—
SUGGESTED TROUGH VOORGESTELDE KRIP	- - -

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

Streek Region PIXLEY KA SEME	Voorligtingskantoor Extension Office	Victoria West
Plaaseenheid Farm Unit Loxton Commonage	Opgemeet Surveyed	P.G.v.W. KRUGER
Landdrosdistrik Magisterial District Ubuntu	Ontwerp Design	P.G.v.W. KRUGER
Eienaar Owner Ubuntu Local Municipality	Kalkoor Traced	P.G.v.W. KRUGER
Onderwerp Subject Loxton Community Garden	Werk No. Work Nr. 95-97	Nagesien Checked H ROUX
Bylae tot Annexure to VOORLOPIGE VERSLAG PRELIMINARY REPORT		Plaasplan * Farmplan 8/225/000667/0

Project : LOXTON COMMUNITY GARDEN

Work no : 96

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Supply

Borehole test results:

Depth	<u>100</u>	m
Waterlevel	<u>15</u>	m
Pump depth	<u>70</u>	m
Test Yield	<u>4800</u>	L/H
Max. Withdrawal	<u>3200,00</u>	L/H

Pump type recommended:

Grundfos Solar Pump

Friction Loss

From Yield graph :

Friction Loss in a 40mmØ HDPE at 2503,13 L/h = 2,2 m/100m

Pipe material: POLY

Int. diameter: 34,2

Friction Head

$$\begin{aligned}
 & \text{(Friction loss)} \times \text{Length of pumpline} / 100 \\
 & (\quad 2,2 \quad \times \quad \underline{10} \quad) / 100 = \underline{0,22} \quad \text{m}
 \end{aligned}$$

Static Head

Height Difference (Source to Reservoir)	<u>-0,07</u>
Reservoir Height	+ <u>3,65</u>
	= <u>3,58</u> m

Test (The total friction head should not exceed 25% of the static head)

Friction head	≤	Static head*25%
0,22	<	0,90

Total Head

Pumpdepth	<u>70,00</u>
Height Difference (Source to Reservoir)	+ <u>-0,07</u>
Reservoir Height	+ <u>3,65</u>
Friction Loss	+ <u>0,22</u>
	= <u>73,80</u> m

Recommended pipe for pumpline : 40mmØ HDPE CLASS 6

Project : LOXTON COMMUNITY GARDEN

Work no : 96

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Reticulation: Yield at Concrete Reservoir

Daily Requirement : 20025 L/Day ; Delivered at troughs in 4 hrs : 5006,25 L/H

Height Difference

$$\text{Elevation(res. outlet)} - \text{Elevation (trough inlet)}$$

$$1397,66 - (1390,00 + 0) = 7,66 \text{ m}$$

Friction loss

$$\frac{\text{Height Difference}}{\text{Distance}} \times \frac{100}{1}$$

$$\frac{7,66}{79,00} \times \frac{100}{1} = 9,696 \text{ m/100m}$$

Yield : $\frac{32\text{mm}\varnothing \text{ HDPE Class 6}}{32\text{mm}\varnothing \text{ HDPE Class 6}}$ Pipe material POLY Int. diameter 27,2 = 3140 L/H

Reticulation: Yield at Trough number ?

Requirement : 20025 L/Day ; Delivered at troughs in 4 hrs : 5006,25 L/H

Height Difference

$$\text{Elevation(res. outlet)} - \text{Elevation (trough inlet)}$$

$$-0,50 - (0 + 0,5) = -0,50 \text{ m}$$

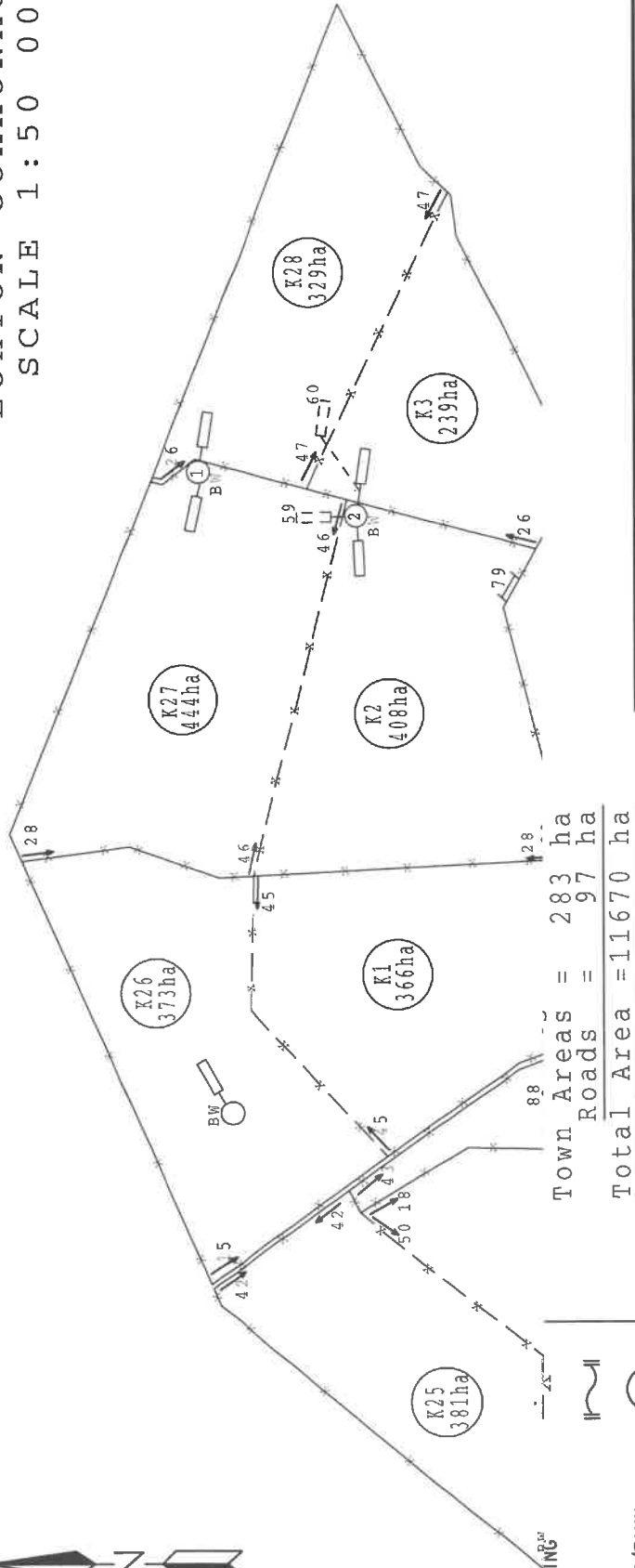
Friction loss

$$\frac{\text{Height Difference}}{\text{Distance}} \times \frac{100}{1}$$

$$\frac{-0,50}{1} \times \frac{100}{1} = \text{\#DIV/0! m/100m}$$

Yield : $\frac{32\text{mm}\varnothing \text{ LDPE Class 3}}{32\text{mm}\varnothing \text{ LDPE Class 3}}$ Pipe material POLY Int. diameter 34 = \text{\#DIV/0! L/H}

FARM PLAN
LOXTON COMMONAGE
SCALE 1:50 000



Town Areas = 283 ha
Roads = 97 ha
Total Area = 11670 ha

- VOORGESTELDE HEINING
- IRRIGATION LAND
 - BESPROEINGS LAND
 - EXISTING RESERVOIR/TANK
 - BESTAANDE DAM/TENK
 - SUGGESTED RESERVOIR/TANK
 - VOORGESTELDE DAM/TENK
 - EXISTING PIPELINE
 - BESTAANDE PYPPLYN
 - SUGGESTED PIPELINE
 - VOORGESTELDE PYPPLYN
 - EXISTING BOREHOLE AND PUMP
 - BESTAANDE BOORGAT EN POMP
 - EXISTING BOREHOLE AND WINDMILL
 - BESTAANDE BOORGAT EN WINDPOMP
 - EXISTING TROUGH
 - BESTAANDE KRIP
 - SUGGESTED TROUGH
 - VOORGESTELDE KRIP
 - EXISTING EROSION STRUCTURE
 - BESTAANDE EROESIE STRUKTUUR
 - SUGGESTED EROSION STRUCTURE
 - VOORGESTELDE EROESIE STRUKTUUR

LA.7/48	
DEPARTMENT OF AGRICULTURE, LANDREFORM & RURAL DEVELOPMENT	
PLAASBEPLANNING * FARM PLANNING	
Streek	Pixley Ka Seme
Region	Voorligingskantoor Extension Office
Plaasenhed	Victoria West
Farm Unit	Loxton Commonage
Landrosdiatrik	Grootte Area 11 670 Ha
Magisterial District	Ubuntu Local Municipality
Eienaar	Ubuntu Local Municipality
Owner	
Ruitverw.	
Grid Ref.	DL3D
Dreineringsverw.	
Drainage Ref.	0 450 00 00
Mosaik No.	851170
Mosaic No.	
Skool	1cm = 500m
Scale	
Opgestel	Datum
Compil	PGVW Kruger
Date	31/06/22
Nagesien	Datum
Checked	H Roux
Date	31/06/22
Goedgekeur	Datum
Approved	H Roux
Date	31/06/22
Plaasplan No.	
Farm Plan No.	8/225/000667/0

Drawing 1