



higher education
& training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



westcol
Western College for Technical, Vocational Education and Training

Enquiries: Tel No: 011 692 4082

teboho@westcol.co.za

REQUEST FOR QUOTATION

You are hereby invited to tender/quote for:
CONSTRUCTION, INSTALLATION AND TESTING OF SOLAR PV MODEL
STRUCTURES, SUPPLY OF MATERIAL, CONSUMABLES AND TESTING
EQUIPMENT FOR RENEWABLE ENERGY

TENDER NUMBER: WCOL/INV/05/2023

CLOSING DATE: 29 JUNE 2023

CLOSING TIME: 11:00

TENDER DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT:

WESTCOL COLLEGE

42 JOHNSTONE AVENUE

HECTORTON

RANDFONTEIN

1760

NB: Bidders should ensure that tenders/quotations are delivered timeously to the correct address. **If the temple/quotation is late, it will not be accepted for consideration.**

1. COMPULSORY REQUIREMENTS

NR	ITEM	CHECK ✓
1	ALL PRICES MUST BE VAT INCLUSIVE	
2	ALL QUOTATIONS MUST BE SUBMITTED ON THE COLLEGE SPECIFICATION FORM ENCLOSED (NOT TO BE RE-TYPED)	
3	CERTIFIED CK/COMPANY REGISTRATION DOCUMENT	
4	CERTIFIED COPIES OF ID DOCUMENTS OF OWNER(S), PARTNERS, SHAREHOLDERS	
5	ORIGINAL/CERTIFIED COPY OF A VALID TAX CLEARANCE CERTIFICATE/PROOF OF TAX COMPLIANCE STATUS PIN FROM SARS	
6	THREE (03) CONTACTABLE AND RELEVANT REFERENCES FROM YOUR PREVIOUS CLIENTS (SOLAR PHOTOVOLTAIC PANELS)	
7	DETAILED WORKPLAN AND IMPLEMENTATION PLAN	
8	THE APPLICANT MUST BE GRADE (EB3) CERTIFICATED BY THE CIDB (COMPULSORY REQUIREMENT)	
9	BBBEE CERTIFICATE	
10	CSD SUMMARY REPORT (NOT OLDER THAN 3 MONTHS)	

NB:

- BLACKLISTED COMPANIES WITH SA TREASURY WILL BE AUTOMATICALLY DISQUALIFIED
- THIS TENDER IS SUBJECTED TO A COMPULSORY BRIEFING SESSION THAT WILL TAKE PLACE ON SITE
- THE COLLEGE IS NOT BOUND TO ACCEPT THE LOWEST OR ANY TENDER/QUOTATION
- THE TENDER IS SUBJECT TO THE ATTACHED STANDARD CONDITIONS
- TENDERS WILL BE ADJUDICATED ACCORDING TO THE COLLEGE SUPPLY CHAIN MANAGEMENT POLICY BASED ON THE PREFERENTIAL PROCUREMENT REGULATIONS (2011)

Yours faithfully



Mr JT Ngcobo

PRINCIPAL

21/06/2023

**The following particulars must be furnished.
Failure to do so may result in your quotation/tender being disqualified.**

Name of Bidder		
Postal Address		
Street Address		
Telephone Number		
Cellphone Number		
Email Address		
VAT Registration Number		
Has a tax clearance certificate been submitted (SBD 2)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Are you the accredited representative in South Africa for the goods/services offered? (Please enclose proof)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Signature of bidder		
Date		
Capacity under which bid is signed		
Total price including VAT		
Amount in words		

****No escalation on imported goods/services allowed.***

TAX CLEARANCE REQUIREMENTS

IT IS A CONDITION OF BIDDING THAT -

1. The taxes of the successful bidder **must** be in order, or that satisfactory arrangements have been made with the Receiver of Revenue to meet his/her tax obligations.

2. The attached form "Application for Tax Clearance Certificate (in respect of bidders)" must be completed in all respects and submitted to the Receiver of Revenue where the bidder is registered for tax purposes. The Receiver of Revenue will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of six (6) months from date of-issue. This Tax Clearance Certificate must be submitted in the original together with the quotation. Failure to submit the **original** and valid Tax Clearance Certificate **will** invalidate the quotation.

3. In quotations where Consortia/ Joint Ventures/ Sub-contractors are involved each party must submit a separate Tax Clearance Certificate. Copies of the Application for Tax Clearance Certificate are available at any Receivers Office,

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the principal, or persons having a kinship with persons employed by the principal, including a blood relationship, may make an offer or offers in terms of this invitation to quote. In view of possible allegations of favoritism, should the resulting quotation, or part thereof, be awarded to persons employed by the principal, or to persons connected with or related to them, it is required that the bidder or his/her authorized representative declare his/her position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest, where-

- the bidder is employed by the principal; and/or
- the legal person on whose behalf the quotation document is signed, has a relationship, with persons/a person who are/is involved in the evaluation and or adjudication of the quotation(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the quotation.

2. In order to give effect to the above, the following questionnaire must be completed and submitted with the quotation.

2.1 Are you or any person connected with the bidder, employed by the principal?
 [TICK APPLICABLE BOX]

YES	NO

2.1.2 If so, state particulars. (Name and Section where person is working.)

.....

2.2 Do you, or any person connected with the bidder, have any Relationship (family, friend, other) with a person employed by the principal and who may be involved with the evaluation and or adjudication of this quotation?
 (TICK APPLICABLE BOX)

YES	NO

2.2.1 If so, state particulars

.....
.....

2.3 Are you, or any person connected with bidder, aware of any relationship (family, friend, other) between the bidder and any person employed by the evaluation and or adjudication of this quotation/bid.

YES	NO

[TICK APPLICABLE BOX]

2.3.1 If so, state particulars

.....
.....

DECLARATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2.1 TO 2.3.1 ABOVE IS CORRECT. I ACCEPT THAT THE PRINCIPAL MAY ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE
PREFERENTIAL PROCUREMENT REGULATIONS 2011**

This preference form must form part of all quotations invited. It contains general information and serves as a claim form 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, 20-11.

1. GENERAL CONDITIONS

1.1. The following preference point system is applicable to all quotations:

- the 90/10 system for requirements with a Rand value of more than R1 000 000.00.

1.2. Preference points for this quotation shall be awarded for:

- (a) Price; and
- (b) BBEE

1.3. The points for this tender are allocated as follows: **POINTS**

- | | |
|--|-----|
| 1.3.1. PRICE | 90% |
| 1.3.2. BBEE Status Level of Contribution | 10% |

- Failure on the part of the bidder to fill in and/or to sign the forms and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory a Board of Auditors (IRBA) or an Accounting Officer as contemplated in Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- The institution reserves the right to require of the bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim regarding preferences, in any in manner required by the institution.

2. GENERAL DEFINITIONS

- 2.1 **"Acceptable bid"** means any bid which, in all respects, complies with the specifications and conditions of bid as set out in the bid document.
- 2.2 **"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, works or services.
- 2.3 **"Comparative price"** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration.
- 2.4 **"Consortium or joint venture"** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills, and knowledge in an activity for the execution of a contract.
- 2.5 **"Contract"** means the agreement that results from the acceptance of a bid by an organ of state.
- 2.6 **"Specific contract participation goals"** means the goals as stipulated in the preferential Procurement Regulations 2001
- 2.7 **"Control"** means the possession and exercise of legal authority and power to manage the assets, goodwill, and daily operations of a business. And the active and continuous exercise of appropriate managerial authority and power in determining the policies and directing the operations of the business.
- 2.8 **"Disability"** means, in respect of a person, a permanent impairment of a physical, intellectual, or sensory function, which results in restricted, or lack of, ability to perform an activity in "the manner, or within the range, considered normal for a human being.
- 2.9 **"Equity Ownership"** means the percentage ownership and control, exercised by individuals within an enterprise.
- 2.10 **"Management"** means an activity inclusive of control and performed daily, by any person who is a principal executive officer of the company, by whatever name that person may be designated, and whether or not that person is a director.

- 2.11 **"Owned"** means having all the customary elements of ownership, including the right of decision-making and sharing all the risks and profits commensurate with the degree of ownership interests-as demonstrated by an examination of the substance, rather than the form of ownership arrangements.
- 2.12 **"Person"** includes reference to a juristic person.
- 2.13 **"Rand value"** means the total estimated value of a contract in Rand denomination that is calculated at the time of bid invitations and includes all applicable taxes and excise duties.
- 2.14 "Small, Medium, and Micro Enterprises (SMMEs) bears the same meaning assigned to that expression in the National Small Business Act, 1996 (No 102 of 1996).
- 2.15 **"Sub-contracting"** means the primary contractors assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.
- 2.16 **"Trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person.
- 2.17 **"Trustee"** means any person, including the founder of a trust, to whom property is bequeathed for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1. The bidder obtaining the highest number of points **will not necessarily** be awarded the contract.
- 3.:1 Preference points shall be calculated after prices have been brought to a comparative basis
- 3.3 Points scored will be rounded off to 2 decimal places.
- 3.4 In the event of equal points scored, the procurement committee will consider other factors as they may deem necessary in promotion of Black Economic Empowerment, College procurement policy and incubator initiatives.

Failure to reach consensus:

- 3.4.1 All qualifying tenderers will be called to a special briefing session to submit their best and final offer.
- 3.4.2 No information relating to individual tenders will be revealed.
- 3.4.3 The briefing will cover the identified gaps only.
- 3.4.4 The committee may decide to enter into negotiation with the preferred bidder relating to any matter taken in the bid documents.

4. POINTS AWARDED FOR PRICE

4.1.1 THE 90/10 PREFERENCE POINT SYSTEMS

A maximum of 90 points is allocated for the price on the following basis.

$$P_s = 90 \left(1 - \frac{P - t}{P_{min}} \right)$$

Where

- P_s = Points for price of quotation under consideration
- P = Rand value of quotation under consideration
- P_{min} = Rand value of lowest acceptable quotation

5. POINTS AWARDED FOR B-BBEE STATUS LEVEL CONTRIBUTION

5.1. In terms of Regulation 5(2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

BBBEE STATUS	NUMBER OF POINTS
1	10
2	9
3	8
4	5
5	4
6	3
7	2
8	1
Non-compliant	0

- 5.2. Bidders who qualify as EME in terms of B-EE Act must submit a certificate issued by an Accounting Officer as contemplated in CCA or a verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet prerequisite for IRBA's approval for the purpose of conducting verification and issuing EME's with B-BBEE status level.
- 5.3. A trust, consortium, or joint venture will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE certificate.
- 5.4. **Any person awarded a contract may not sub-contract more 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability to execute the sub-contract.**

6. BID DECLARATION

- 6.1. Bidders who claim points in respect of B-BBEE status level of consortium must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPH 1.2, 1.3 AND 5.1

- 7.1. B-BBEE Status level of contribution = (Maximum of 10 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be sustained by means of a B-BBEE certificate issued by Verification Agency accredited by SANAS or a registered Auditor approved by IRBA, or an Accounting Officer as contemplated in the CCA)

8. DECLARATION WITH REGARD TO COMPANY

8.1. Name of company

8.2. VAT Registration number

8.3. Company Registration number

8.4. Type of Firm

8.4.1. Partnerships

8.4.2. One person business/sole trader

8.4.3. Closed corporation

8.4.4. Company

8.4.5. (PTY) Limited

Tick applicable box

8.5. DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

8.6. Company classification

8.6.1. Manufacturer

8.6.2. Supplier

8.6.3. Professional Service Provider

8.6.4. Building Contractor

8.6.5. Other

Tick applicable box

8.7. Total number of years the firm has been in business?

8.8. I/we, the undersigned, who warrants that he/she is duly authorized to do so on behalf of the firm certify that points claimed, based on the B-BBEE level of contribution, indicated in paragraph 7 of the forgoing certificate, qualifies the company/ firm for the preference(s) shown and I/we acknowledge that:

- (i) the information furnished is true and correct.
- (ii) The Equity ownership claimed is in accordance with General Conditions as indicated in paragraph 1 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 8, the contractor may require furnishing documentary proof to the satisfaction of the purchaser that the claims are correct
- (iv) If the claims are found to be incorrect, the purchaser may, in addition to any other remedy-it may have.

- a) recover costs, losses, or damages it has incurred or suffered because of that person's conduct.
- b) cancel the contract and claim any damages which it has suffered because of having to make less favorable arrangements due to such cancellation.
- c) impose a financial penalty more severe than the theoretical financial preference associated with the claim which was made in the bid.

<p>.....</p> <p>SIGNATURE OF BIDDER(S)</p>	<p>.....</p> <p>NAME OF BIDDER(S)</p>
<p>.....</p> <p>DATE</p>	<p>.....</p> <p>ADDRESS</p>
<p><u>WITNESSES</u></p>	
<p>.....</p> <p>WITNESS 1</p>	<p>.....</p> <p>WITNESS 2</p>

FUNCTIONAL EVALUATION

Functional Category	POINTS
<p>1. <u>Experience: Proven company experience in solar photovoltaic panels</u></p> <p>Total possible score is 20, to be scored as follows:</p> <ul style="list-style-type: none"> • 0-1 Years experience = 6 points • 1-2 Years experience > 12 points • 2-3 Years experience > 18 points • 3-4 Years experience > 24 points • 4 Years and above > 30 points 	30
<p>2. <u>Track record in terms of similar projects undertaken. Contactable references (attach proof) in the past 5 years.</u></p> <p>Total possible score is 20, to be scored as follows.</p> <ul style="list-style-type: none"> • 0 reference letter = 0 points • One (1) to Two (2) Reference letter > 5 points • Three (3) Reference letter > 10 points • Four (4) Reference letters > 15 points • Five (5) and more > 20 Points 	20
<p>3. <u>The key personnel involved in the project should comprise of the personnel indicated below:</u></p> <p><i>Key personnel for the project:</i></p> <ol style="list-style-type: none"> a. Project Manager b. Electrical Engineer Registered with ECSA c. Installation Electrician with COC d. Solar Panel Installers with a Pv Green Card 	15

Functional Category	POINTS
<p>Expert: CV with minimum 3-5 years' experience in the construction, installation & testing solar PV model structures.</p> <p>Intermediate: CV with minimum 2-3 years' experience in the construction, installation & testing solar PV model structures.</p> <p>Novice: CV with minimum 0-2 years' experience in in the construction, installation & testing solar PV model structures.</p> <p>3.1 Project Manager:</p> <ul style="list-style-type: none"> • Expert = 5 points • Intermediate = 3 points • Novice = 0 points <p>3.2 Artisans (Electricians)</p> <ul style="list-style-type: none"> • Expert = 5 points • Intermediate = 3 points • Novice = 0 points <p>3.3 Solar panel installers</p> <ul style="list-style-type: none"> • Expert = 5 points • Intermediate = 3 points • Novice = 0 points <p>CVs of key personnel listed above must be attached on returnable schedule number C4</p>	

Functional Category	POINTS																		
<p>4. <u>Delivery Strategy Methodology/</u></p> <p>Detailed delivery strategy/methodology that clearly demonstrate:</p> <ul style="list-style-type: none"> ✓ How the program will be managed. ✓ Realistic time frames and activities ✓ How the service provider will ensure uninterrupted and timely delivery ✓ How support will be provided highlighting key indicators <p>Possible scores:</p> <p>The delivery strategy covers all 4 components indicated above = 15</p> <p>The delivery strategy covers all 3 components indicated above = 12</p> <p>The delivery strategy covers all 2 components indicated above = 9</p> <p>The delivery strategy covers all 1 component indicated above = 6</p> <p>The delivery strategy covers none of the component indicated above = 0</p>	<p>20</p>																		
<p>5. <u>Bank Rating Letter</u></p> <table border="1" data-bbox="225 1290 593 1821"> <thead> <tr> <th>Code</th> <th>Return</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20</td> </tr> <tr> <td>B</td> <td>15</td> </tr> <tr> <td>C</td> <td>10</td> </tr> <tr> <td>D</td> <td>5</td> </tr> <tr> <td>E</td> <td>3</td> </tr> <tr> <td>F</td> <td>0</td> </tr> <tr> <td>G</td> <td>0</td> </tr> <tr> <td>H</td> <td>0</td> </tr> </tbody> </table>	Code	Return	A	20	B	15	C	10	D	5	E	3	F	0	G	0	H	0	<p>15</p>
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DECLARATION OF BIDDERS PAST SUPPLY CHAIN MANAGEMENT PRACTICES

The standard Bidding Document must be part of all bids invited.

It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of supply chain management system.

- (1) The bid of any abider may be disregarded if that bidder, or any of its directors have:
- i. Abused the institution's supply management system.
 - ii. Committed fraud or any other improper conduct in relation to such system; or
 - iii. Failed to perform on any previous contract.
- (2) To give effect to the above. the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
(i)	<p>Is the bidder or any of its directors listed on the National Treasury Database of Restricted suppliers as companies prohibited from doing business with the Public Sector</p> <p>(Companies or persons who are listed on this database were informed in writing of the restrictions by the Accounting Officer/Authority of the institution that imposed the restriction after the audi alterampaetem rule was applied)</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's-website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>		
(ii)	<p>If so, furnish particulars:</p>		

Item	Question	Yes	No
(iii)	<p>Is the bidder or any of its directors listed on the Register for Tender defaulters in terms of section 29 of the Prevention and Combating of corrupt Activities Act (No. Of 2004)?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page</p>		
(iv)	If so, furnish particulars:		
(v)	Was the bidder or any of its directors convicted by a court of law (Including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?		
(vi)	If so, furnish particulars:		
(vii)	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?		
(viii)	If so, furnish particulars:		

CERTIFICATION

I THE UNDERSIGNED (FULL NAME)

_____ CERTIFY THAT THE
INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST
ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

SIGNATURE

DATE

POSITION

NAME OF BIDDER

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

TENDER NUMBER: WCOL/INV/05/2023
CONSTRUCTION, INSTALLATION AND TESTING SOLAR PV MODEL
STRUCTURES, SUPPLY OF MATERIAL, CONSUMABLES AND TESTING
EQUIPMENT FOR RENEWABLE ENERGY

In response to the invitation for the bid made by: _____

Westcol College do hereby make the following statements and that I certify to be true in every respect:

I certify, on behalf of _____ that:

Name of Bidder

1. I have read and understood the contents of this certificate.
2. I understand that the accompanying bid will be disqualified if this certificate is found not to be true and complete in every respect.
3. I am authorised by the bidder to sign this certificate; and to submit the accompanying bid on behalf of the bidder.
4. Each person whose signature appears on the accompanying bid has been authorised by the bidder to determine the terms of, and sign the bid, on behalf of the bidder.
5. For the purpose of this certificate and accompanying bid, I understand that the word "competitor" shall include any individual or organisation, other than the bidder, whether or not affiliated with the bidder, who:
 - a. Has been requested to submit a bid in response to this bid invitation.
 - b. Could not potentially submit a bid in response to this bid invitation, based on their qualification, abilities or experience and
 - c. Provides the same goods and services as the bidder and/or in the same line of business as the bidder.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Standard Bidding Document (SBD) must form part of all bids invited.
2. Section 4 (1) (b) (iii) of the competition Act No.89 of 1988 as amended, prohibits an agreement between, or concerted practice by firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging). Collusive bidding is a per se prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that Accounting Officers and Accounting Authorities must take all reasonable steps to prevent abuse of the Supply Chain Management System and authorizes Accounting Officers and Accounting authorities to:
 - a. Disregard the bid of any bidder if that bidder, or any of its directors have abused the institutions supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. Cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
4. This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination must be completed and submitted with the bid.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with the competitor. However, communication between partners in joint venture or consortium will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraph 6 above, there has been no consultation, communication, agreement or arrangements with any competitor regarding:
 - a. Prices
 - b. Geographical area where product or service will be rendered (Market allocation)
 - c. Methods, factors, or formulas used to calculate prices.
 - d. The intention or decisions to submit or not to submit a bid.
 - e. The submission of a bid which does not meet the specification and conditions of the bid; or

- f. Bidding with intention not to win bid.

- 8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.

- 9. The terms 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 award of the contract.

- 10. 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 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 may be reported to National Prosecution Authority (NPA) for criminal investigation and 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 12 of 2004 or any other applicable legislation.

SIGNATURE

DATE

POSITION

NAME OF BIDDER

BILL OF QUANTITIES

Delivery Sites

- **Carletonville Campus**
20 South Street, Carletonville
- **Krugersdorp Campus**
32 Von Brandis Street, Krugersdorp
- **Randfontein Campus**
9 Kiewiet Street, Helikonpark, Randfontein

Annexure A

CONSTRUCTION AND COMMISSIONING OF SOLAR PV MODEL STRUCTURES
(APPOINTED SERVICE PROVIDER)

SUPPLY OF MATERIAL, CONSUMABLES AND TESTING EQUIPMENT FOR
CAMPUSES (APPOINTED SERVICE PROVIDER) AS PER DELIVERY SITE

NOTE: Bill of Quantities are per deliverable site.

ANNEXURE A

QTY	PART	DESCRIPTION	PRICE INCL VAT
24	SRP-550-BMA-HV-SF	Seraphim SIV Monocrystalline Series 550Wp Silver Frame	
12	KDS-RAIL-4720	KD Solar 4.7m long mounting rail	
72	KDS-HANG-BOLT-BRKT	KD Solar hangerbolt bracket with push-clip for long-rail	
72	KDS-HANG-BOLT	KD Solar hanger bolt for a wood substructure	
9	KDS-END-CLMP-ADJ	KD Solar stainless-steel self-bonding adjustable end-clamp with 40mm Alancap	
45	KDS-MID-CLMP	KD Solar stainless steel self-bonding mid-clamp with push-clip	
2	MC4-2M-1	MC4 Pre terminated cable 2m (1 Pack)	
3	JA-QC4-10-35-1500V	QC4.10-35 1500V Connector for JA Solar modules PAIR	
1	CABLE-4-250-B	4mm ² single-core PV DC cable 250m - Black	
2	Dc breaker	20A Dc Circuit breaker	
25	25mm PVC	25mm conduit	
10	Cable Tray	40x 100 Square Tubing (Trunking)	
1	change -over	3phase 63A Auto change Over	
1	BOHAZARD-SET	PV on Roof and Hazard Labels Pack	
1	SUN-16.0	Sunsynk MAX 16kW, 48Vdc Single Phase Hybrid Inverter with WIFI included	
1	DCB-NF-4I-600V-I16A-I-II-4O	600V Protection Box 4 Inputs 4 Outputs 16A Isolator Type I_II SPD	
1	HUB-AM10-	Hubble Lithium AM-10, 10kWh 51.2V	

	10K-3	Battery (Pack of 3)	
1	ACDB-ARENB-100A	Earth Neutral Bridge Box for Sunsynk 16 AC Protection Box	
2	CABLE-50-1-PAIR	50mm2 single-core DC cable 1m - Pair	
1	SUN-CAN-3M	3m CAN BMS cable for Sunsynk/Solis with Pylontech & Hubble Lithium batteries	
8	HLK-LUG50-8	50mm2 by M8 Ring Terminal Lug	
1	ACDB-ARENB-100A	Earth Neutral Bridge Box for Sunsynk 16 AC Protection Box	
1	NHG2B-400A	APTSA Battery Disconnecter with 400A Fuses	
200	4core cable	10mm by 4 core cable/ Meter	

SRP-550-BMA-HV-SF

Seraphim SIV Monocrystalline Series 550Wp Silver Frame

Rating	550 W
VMPP	42.05 V
Voc	49.7 V
Horizontal	1134 mm
Vertical	2278 mm
Type	Monocrystalline
Connection	QC Solar QC4.10-35

**KDS-RAIL-4720**

KD Solar 4.7m long mounting rail

Box Width	35 mm
Box Length	4720 mm
Box Height	43 mm



Reference No: NiPV03361

KDS-HANG-BOLT-BRKT

KD Solar hangerbolt bracket with push-clip for long-rail

Box Width	50 mm
Box Length	45 mm
Box Height	100 mm

**KDS-HANG-BOLT**

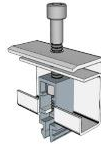
KD Solar hanger bolt for a wood substructure

Box Width	100 mm
Box Length	500 mm
Box Height	100 mm

**KDS-END-CLMP-ADJ**

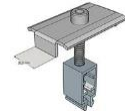
KD Solar stainless steel self bonding adjustable end-clamp with 40mm Alancap

Box Width	40 mm
Box Length	80 mm
Box Height	40 mm

**KDS-MID-CLMP**

KD Solar stainless steel self-bonding mid-clamp with push-clip

Box Width	40 mm
Box Length	80 mm
Box Height	40 mm

**MC4-2M-1**

MC4 Pre terminated cable 2m (1 Pack)

Length	2 m
Area	4 mm ²
Cores	1
Connector	MC4
Colour	Black

**JA-QC4-10-35-1500V**

QC4.10-35 1500V Connector for JA Solar modules PAIR

Box Width	20 mm
Box Length	110 mm
Box Height	20 mm

**CABLE-4-250-B**4mm² single-core PV DC cable 250m - Black

Length	250 m
Area	4 mm ²
Cores	1
Colour	Black

**BOHAZARD-SET**

PV on Roof and Hazard Labels Pack

**SUN-16.0**

Sunsynk MAX 16kW, 48Vdc Single Phase Hybrid Inverter with WIFI included

Rating	16000
Min PP	250 V
Max PP	450 V
Max DC	450 V
Connection	Screw Terminal
Connector	Round Post 8mm
Min DC	43 V
Max DC	60 V
Max Battery Current	300A

**DCB-NF-4I-600V-I16A-I-II-40**

600V Protection Box 4 Inputs 4 Outputs 16A Isolator Type

I II SPD

Battery Switch	No
Poles	2
Max Voltage	600 V
Max Cable	25 mm
Rated Current	16 A
Rated Voltage	600 V



HUB AM 10-10K-3Max DC

Hubble Lithium AM-10, 10kWh 51.2V Battery (Pack of 3)

Length	2 mm
Area	25 mm ²
Cores	1
Connector	Round Post
Colour	Black and Red
Type	Lithium Ion
Voltage	48 V
Nominal Energy	30720 Wh
Connector	Round Post 8mm
Warranty	10 Years



ACDB-ARENB-100A

Earth Neutral Bridge Box for Sunsynk 16 AC Protection Box

Box Width	150 mm
Box Length	250 mm
Box Height	260 mm



Cable-50-1-pair

50mm² single-core DC cable 1m - Pair

Length	1 m
Area	50 mm ²
Cores	2
Colour	-



SUN-CAN-3M

3m CAN BMS cable for Sunsynk/Solis with Pylontech & Hubble Lithium batteries

Box Width	290 mm
Box Length	290 mm
Box Height	20 mm



HLK-LUG50-8

50mm² by M8 Ring Terminal Lug

Box Width	10 mm
Box Length	50 mm
Box Height	10 mm



ACDB-ARENB-100A

Earth Neutral Bridge Box for Sunsynk 16 AC Protection Box

Box Width	150 mm
Box Length	250 mm
Box Height	260 mm



NHG2B-400A

APTSA Battery Disconnecter with 400A Fuses

Battery Switch	Yes
Poles	3
Max Voltage	440 V
Max Cable	95 mm
Rated Current	400 A
Rated Voltage	440 V



Storage - Hubble Lithium AM-10, 10kWh 51.2V Battery (Pack of 3)

System Type	Full Hybrid
Type of Battery	Lithium Ion
Usable Battery Capacity	30720 Wh
Voltage	48 V
Max Charge Rate (5 Minutes)	23040 W
Max Discharge Rate (5 Minutes)	23040 W

Physical

Roof Orientation	°
Pitch	35°
Location Region	
Array Width	13.00 m
Height	4.00 m
Surface Area	62.00 m2
Weight	708.62 kg
WeightM2	11.43 kg

Panel - Seraphim SIV Monocrystalline Series 550Wp Silver Frame

Panel Specifications	
Number required	24
Rating	550 Wp
Length	2,278 mm
Width	1,134 mm
Voc at STC	49.7 V
Vmpp at STC	42.05 V
Imp at STC	13.08 A
Isc at STC	14 A
Array Specifications	
Array Power	13,200 Wp

Inverter - Sunsynk MAX 16kW, 48Vdc Single Phase Hybrid Inverter with WIFI included

Phase	1
No. of MPPT	3
Rated AC Power	16,000 W
Max DC	
Current	66.00 A
Voltage	450 V
PP Voltage	
Min	250 V
Max	450 V

Electrical - Sunsynk MAX 16kW, 48Vdc Single Phase Hybrid Inverter with WIFI included

Quantity	1
String Quantity	3
Strings	1 * (1x8 / 1x8 / 1x8)
String Voc at 0 °C	423.44 / 423.44 / 423.44 V
String Vmpp at 70 °C	284.93 / 284.93 / 284.93 V
String Vmpp at 0 °C	364.99 / 364.99 / 364.99 V
Input Isc at 70 °C	14.32 A
Distance to Array	20 m
Cable Area	4 mm2
Voltage Drop	1.20 %