

## INVITATION FOR BID

**YOU ARE HEREBY INVITED TO SUBMIT PROPOSAL FOR THE REQUIREMENTS OF  
NATIONAL HEALTH LABORATORY SERVICE (NHLS)**

<b>BID NUMBER:</b>	RFB013/22/23		
<b>CLOSING DATE:</b>	17 MARCH 2023		
<b>CLOSING TIME:</b>	11:00 AM		
<b>PUBLIC TENDER OPENING:</b>	<b>DATE: 17 MARCH 2023</b> <b>TIME: 11:30 AM</b> <b>VENUE: MAIN CONFERENCE BORDROOM</b>  <b>NATIONAL HEALTH LABORATORY SERVICE</b> <b>1 MODDERFONTEIN ROAD</b> <b>SANDRINGHAM</b>		
<b>BID VALIDITY PERIOD:</b>	120 days (commencing from the RFB Closing Date)		
<b>IMPORTANT:</b>	<b>A COMPULSORY BRIEFING SESSION WILL BE HELD:</b> <b>DATE: 03 MARCH 2023</b> <b>TIME: 11:00 AM</b> <b>VENUE: MAIN CONFERENCE BOARDROOM</b> <b>NATIONAL HEALTH LABORATORY SERVICE</b> <b>1 MODDERFONTEIN ROAD</b> <b>SANDRINGHAM</b>  <u>PLEASE NOTE THAT LATE COMING WILL NOT BE ACCEPTED</u>  All questions must be sent per e-mail to Sinethemba <a href="mailto:Sinethemba.Mpungose@nhls.ac.za">Sinethemba.Mpungose@nhls.ac.za</a> on or before <b>07 March 2023</b>		
<b>DESCRIPTION:</b>	SUPPLY AND INSTALLATION OF A COMPLETE SOLAR SYSTEM WITH PANELS AT SANDRINGHAM CAMPUS.		
<b>BID DOCUMENTS MUST BE MARKED WITH THE FOLLOWING:</b>	<b>OR</b>	<b>DEPOSITED IN THE BID BOX SITUATED AT:</b>	
<b>NHLS PROCUREMENT TENDER OFFICE</b>			
<b>RFB: RFB013/22/23</b> <b>Bidders Name: _____</b>  <b>RFB: Enclosed-Regret (delete N/A)</b> <b>Closing Date: <u>17 MARCH 2023</u></b>	<b>NHLS MAIN RECEPTION</b> <b>1 Modderfontein Road, Sandringham, Johannesburg.</b>		

Bidders should ensure that Bids are delivered in time to the correct address. If the bid is late, it shall not be accepted for consideration.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (Please note that no changes on the content of this document is allowed)

Bidders should ensure that Bids are delivered in time to the correct address. If the bid is late, it shall not be accepted for consideration.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (Please note that no changes on the content of this document is allowed)

THIS TENDER IS SUBJECT TO THE GENERAL CONDITIONS OF THE TENDER, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

**THE FOLLOWING PARTICULARS MUST BE FURNISHED (FAILURE TO DO SO SHALL RESULT IN YOUR BID BEING DISQUALIFIED)**

<b>SUPPLIER INFORMATION</b>			
NAME OF BIDDER			
POSTAL ADDRESS			
STREET ADDRESS			
TELEPHONE NUMBER	CODE:		NUMBER:
CELLPHONE NUMBER			
FACSIMILE NUMBER	CODE		NUMBER:
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
	TCS PIN:	<b>OR</b>	CSD No:
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	<input type="checkbox"/> Yes  <input type="checkbox"/> No [TICK APPLICABLE BOX]	B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes  <input type="checkbox"/> No [TICK APPLICABLE BOX]
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT (FOR EMEs&amp; QSEs) MUST BE SUBMITTED IN ORDER TO CLAIM POINTS FOR SPECIFIC GOALS WHERE APPLICABLE]</b>			
SIGNATURE OF BIDDER		Date:	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)			
TOTAL BID PRICE (ALL INCLUSIVE)			
<b>BIDD*ING PROCEDURE AND TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>			

<b>SUPPLIER INFORMATION</b>	
DEPARTMENT/ PUBLIC ENTITY	
CONTACT PERSON	
TELEPHONE NUMBER	
FACSIMILE NUMBER	
E-MAIL ADDRESS	

**Contents**

---

1. Confidential information disclosure notice ..... 4

2. Introduction..... 4

3. Definitions ..... 4

4. Acronyms and abbreviations ..... 9

5. General Rules and Instructions ..... 8

6. Response format ..... 13

7. Key personnel..... 14

8. Reasons for Disqualification ..... 14

9. Bid Preparation..... 12

10. Oral presentations and Briefing Sessions ..... 12

11. General Conditions of Bid and Conditions of Contract ..... 13

12. Evaluation Criteria and Methodology ..... 20

ANNEXURE A: Technical Specification ..... 23

ANNEXURE B: Pricing Schedule ..... 58

ANNEXURE C: Bidder’s Disclosure (SBD4) ..... 62

ANNEXURE D: Preferential Procurement Claim Form (SBD6.1) ..... 65

ANNEXURE E: Government Procurement: General Conditions of Contract – July 2011 ..... 75

**1. Confidential information disclosure notice**

- 1.1 This document may contain confidential information that is the property of the NHLS and the Client.
- 1.2 No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party in any manner whatsoever other than for preparing a proposal in response to this Bid, without prior written permission from NHLS and the Client.
- 1.3 All Copyright and Intellectual Property herein vests with NHLS and its Client.

**2. Introduction**

- 2.1 Based on the Bids submitted and the outcome of the evaluation process according to the set evaluation criteria, NHLS intends to select a preferred bidder with the view of concluding a service level agreement (SLA) with such successful bidder. The Bid shall be evaluated in terms of the Preferential Procurement Policy Framework Act (PPPFA)

**2.2 Queries**

- 2.2.1 Should it be necessary for a bidder to obtain clarity on any matter arising from or referred to in this RFB document, please refer queries, in writing, and to the contact person\_email address number listed below on or before **07 March 2023**. Under no circumstances may any other employee within NHLS be approached for any information. Any such action might result in a disqualification of a response submitted in competition to the RFB. NHLS reserves the right to place responses to such queries on the website.

<b>QUERIES:</b> Sinethemba Mpungose	Telephone	011 386 6165
	E-mail	<a href="mailto:Sinethemba.Mpungose@nhls.ac.za">Sinethemba.Mpungose@nhls.ac.za</a>

**3. Definitions**

- 3.1 National Health Laboratory Services [hereinafter referred to as NHLS] is a public health laboratory service with laboratories across South Africa. Its activities comprise diagnostic laboratory services, research, teaching and training, and production of sera for anti-snake venom, reagents and media.
- 3.2 NHLS was established in 2001 by an Act of Parliament to provide diagnostic pathology laboratory services to the National and Provincial Health Department.
- 3.3 **“Acceptable Bid”** - means any bid, which, in all respects, complies with the specifications and conditions of the RFB as set out in this document.
- 3.4 **“B-BBEE”** – means broad bases black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act.
- 3.5 **“B-BBEE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act.
- 3.6 **“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 services, works or goods through price quotations, advertised bidding processes or proposals.

- 3.7 **“Bidders”** - means any enterprise, consortium or person, partnership, company, close corporation, firm or any other form of enterprise or person, legal or natural, which has been invited by NHLS to submit a bid in response to this bid invitation.
- 3.8 **“Broad-Based Black Economic Empowerment Act”** – means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003).
- 3.9 **“Client”** - means the goods or services requestor.
- 3.10 **“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.
- 3.11 **“Consortium”** - means several entities joining forces as an umbrella entity to gain a strategic collaborative advantage by combining their expertise, capital, efforts, skills and knowledge for the purpose of executing this tender.
- 3.12 **“Contractor Agent”** - means any person mandated by a Prime Contractor or consortium/joint venture to do business for and on behalf of, or to represent in a business transaction, the Prime Contractor and thereby acquire rights for the Prime Contractor or consortium/joint venture against NHLS or an organ of state and incur obligations binding the Prime Contractor or consortium/joint venture in favour of NHLS or an organ of state.
- 3.13 **“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.
- 3.14 **Designated group means –**
- (a) Black designated groups;
  - (b) Black people;
  - (c) Women
  - (d) People with disabilities; or
  - (e) Small enterprises as defined section 1 of the National Small Enterprise Act, 1996 (Act No. 102 of 1996)
- 3.15 **“Designated sector”** means – a sector, sub-sector or industry or product designated by the Department of Trade and Industry.
- 3.16 **“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;
- 3.17 **“Firm Price”** - means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition or abolition of customs or excise duty and any other duty, levy or tax which, in terms of a law or regulation is binding on the contractor and demonstrably has influence on the price of any supplies or the rendering cost of any service, for the execution of a contract.

- 3.18 **“Goods”** – means any work, equipment, machinery, tools, materials or anything of whatever nature to be rendered to NHLS or NHLS’s delegate by the Successful Bidder in terms of this bid.
- 3.19 **“Historically Disadvantaged Individual” (HDI)** - means a South African citizen:
- 3.19.1 Who, due to the apartheid policy that had been in place, had no franchise in national elections prior to the introduction of the Constitution of the Republic of South Africa, 1983, (Act No. 110 of 1983) or the Constitution of the Republic of South Africa, 1993 (Act No. 200 of 1993) (the Interim Constitution); and/or;
- 3.19.2 who is a female; and/or;
- 3.19.3 who has a disability;
- provided that a person who obtained South African citizenship on or after the coming to effect of the Interim Constitution is deemed not to be an HDI.
- 3.20 **“Joint Venture”** - (Project) means two or more businesses joining together under a contractual agreement to conduct a specific business enterprise with both parties sharing profit and losses. The venture is for one specific project only, rather than for a continuing business relationship as in a strategic alliance. It is about sharing risk with others and providing one or more missing and needed assets and competencies.
- 3.21 **“Management”** - in relation to an enterprise or business, means an activity inclusive of control, and performed on a daily basis, 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.
- 3.22 **“Military veteran”**- has the meaning assigned to it in section 1 of the Military Veterans Act, 2011 (Act No. 18 of 2011).
- 3.23 **“Non-firm Price(s)”** - means all price(s) other than “firm” price(s).
- 3.24 **“Organ of State”** - means a National Department or Provincial Administration as stipulated in Schedules 1 and 2 of the Public Service Act, Act 93 of 1994 (as amended).
- 3.25 **“Person(s)”** - refers to a natural and/or juristic person(s).
- 3.26 **“Price”**- includes all applicable taxes less all unconditional discounts;
- 3.27 **“Prime Contractor”** – means any person (natural or juristic) who forwards an acceptable proposal in response to this RFB with the intention of being the main contractor should the proposal be awarded to him/her.
- 3.28 **“Proof of B-BBEE status level of contributor”** means -
- (a) B-BBEE Status level certificate issued by an authorized body or person;
  - (b) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice; and
  - (c) Any other requirement prescribed in terms of the B-BBEE Act.
- 3.29 **“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;

- 3.30 **“Rand Value”** - means the total estimated value of a contract in South African currency, calculated at the time of invitations and includes all applicable taxes and excise duties.
- 3.31 **“Rural Area”** means –
- (a) A sparsely populated area in which people farm or depend on natural resources, including villages and small town that are dispersed through the area; or
  - (b) An area including a large settlement which depends on migratory labour and remittances and government social grants for survival and may have a traditional land tenure system.
- 3.32 **“SMME”** – bears the same meaning assigned to this expression in the National Small Business Act, 1996 (Act No. 102 of 1996).
- 3.33 **“Stipulated minimum threshold”** means – the minimum threshold stipulated for local production and content.
- 3.34 **“Sub-contract”** means - the primary contractor’s assigning, leasing, 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.
- 3.35 **“Subcontractor”** - means any person (natural or juristic) who is subcontracted a portion of an existing contract by a Prime Contractor.
- 3.36 **“Successful Bidder”** - means the organization or person with whom the order is placed and who is contracted to execute the work as detailed in the bid.
- 3.37 **“Township”** means – an urban living area that any time from late 19<sup>th</sup> century until 27 April 1994, was reserved for black people, including areas developed for historically disadvantage individuals post 27 April 1994.
- 3.38 **“Youth”** has the meaning assigned to it in section 1 of the National Youth Development Agency Act, 2008 (Act No. 54 of 2008).

#### 4. Acronyms and abbreviations

- 4.1 The following acronyms and abbreviations are used in this proposal and must be similarly used in the proposal submitted in response and shall have the meaning ascribed thereto below.

Abbreviations/Acronyms	Description
BBBEE	Broad Based Black Economic Empowerment.
CPI	Consumer Price Index.
DIR	Directorate
EDMS	Electronic Document Management System
HDI	Historically Disadvantaged Individuals
ISO	International Standard Organization
IT	Information Technology
ITC	Information Technology Committee

<b>Abbreviations/Acronyms</b>	<b>Description</b>
MISS	Minimum Information Security Standard
OEM	Original Equipment Manufacturer
PPPPFA	Preferential Procurement Policy Framework Act
RFB	Request for Bid
RSA	Republic of South Africa
NHLS	National Health Laboratory Services
SLA	Service Level Agreement
SW	Software
LIS	Laboratory Information system
24x7	24 hours a day, 7 days a week

## **5. General Rules and Instructions**

### **5.1 Confidentiality**

- 5.1.1 The information contained in this document is of a confidential nature, and must only be used for purposes of responding to this RFB. This confidentiality clause extends to Bidder partners and/or implementation agents, whom the Bidder may decide to involve in preparing a response to this RFB.
- 5.1.2 For purposes of this process, the term “Confidential Information” shall include all technical and business information, including, without limiting the generality of the foregoing, all secret knowledge and information (including any and all financial, commercial, market, technical, functional and scientific information, and information relating to a party’s strategic objectives and planning and its past, present and future research and development), technical, functional and scientific requirements and specifications, data concerning business relationships, demonstrations, processes, machinery, know-how, architectural information, information contained in a party’s software and associated material and documentation, plans, designs and drawings and all material of whatever description, whether subject to or protected by copyright, patent or trademark, registered or un-registered, or otherwise disclosed or communicated before or after the date of this process.
- 5.1.3 The receiving party shall not, during the period of validity of this process, or at any time thereafter, use or disclose, directly or indirectly, the confidential information of NHLS (even if received before the date of this process) to any person whether in the employment of the receiving party or not, who does not take part in the performance of this process.
- 5.1.4 The receiving party shall take all such steps as may be reasonably necessary to prevent NHLS’s confidential information coming into the possession of unauthorised third parties. In protecting the receiving party’s confidential information, NHLS shall use the same degree of care, which does not amount to less than a reasonable degree of care, to prevent the unauthorised use or disclosure of the confidential information as the receiving party uses to protect its own confidential information.
- 5.1.5 Any documentation, software or records relating to confidential information of NHLS, which comes into the possession of the receiving party during the period of validity of this process or at any time thereafter or which has so come into its possession before the period of validity of this process:
- 5.1.5.1 shall be deemed to form part of the confidential information of NHLS;

- 5.1.5.2 shall be deemed to be the property of NHLS;
- 5.1.5.3 shall not be copied, reproduced, published or circulated by the receiving party unless and to the extent that such copying is necessary for the performance of this process and all other processes as contemplated in; and
- 5.1.5.4 shall be surrendered to NHLS on demand, and in any event on the termination of the investigations and negotiations, and the receiving party shall not retain any extracts.

## **5.2 News and press releases**

- 5.2.1 Bidders or their agents shall not make any news releases concerning this RFB or the awarding of the same or any resulting agreement(s) without the consent of, and then only in co-ordination with, NHLS and its Client.

## **5.3 Precedence of documents**

- 5.3.1 This RFB consists of a number of sections (see list). Where there is a contradiction in terms between the clauses, phrases, words, stipulations or terms and herein referred to generally as stipulations in this RFB and the stipulations in any other document attached hereto, or the RFB submitted hereto, the relevant stipulations in this RFB shall take precedence.
- 5.3.2 Where this RFB is silent on any matter, the relevant stipulations addressing such matter and which appear in the PPPFA shall take precedence. Bidders shall refrain from incorporating any additional stipulations in its proposal submitted in terms hereof other than in the form of a clearly marked recommendation that NHLS may in its sole discretion elect to import or to ignore. Any such inclusion shall not be used for any purpose of interpretation unless it has been so imported or acknowledged by NHLS.
- 5.3.3 It is acknowledged that all stipulations in the PPPFA are not equally applicable to all matters addressed in this RFB. It however remains the exclusive domain and election of NHLS as to which of these stipulations are applicable and to what extent. Bidders are hereby acknowledging that the decision of NHLS in this regard is final and binding. The onus to enquire and obtain clarity in this regard rests with the Bidder(s). The Bidder(s) shall take care to restrict its enquiries in this regard to the most reasonable interpretations required to ensure the necessary consensus.

## **5.4 Preferential Procurement Reform**

- 5.4.1 NHLS supports B-BBEE as an essential ingredient of its business. In accordance with government policy, NHLS insists that the private sector demonstrates its commitment and track record to B-BBEE in the areas of ownership (shareholding), skills transfer, employment equity and procurement practices (SMME Development) etc.
- 5.4.2 NHLS shall apply the principles of the Preferential Procurement Policy Framework Act, (Act No. 5 of 2000) to this proposal.
- 5.4.3 Bidders shall complete the preference certificate attached to this proposal. In the case of a consortium and sub-contractors, the preference certificate must be completed for each legal entity.

## **5.5 National Industrial Participation Programme**

- 5.5.1 The Industrial Participation policy, which was endorsed by Cabinet on 30 April 1997, is applicable to contracts that have an imported content. The NIP is obligatory and therefore must be complied with. Bidders are required to sign and submit the Standard Bidding Document (SBD5).

## **5.6 Language**

- 5.6.1 Bids shall be submitted in English.

## **5.7 Gender**

5.7.1 Any word implying any gender shall be interpreted to imply all other genders.

## **5.8 Headings**

5.8.1 Headings are incorporated into this proposal and submitted in response thereto, for ease of reference only and shall not form part thereof for any purpose of interpretation or for any other purpose.

## **5.9 Security clearances**

5.9.1 Employees and subcontractors of the successful bidder may be required to be in possession of valid security clearances to the level determined by the State Security Agency (SSA) and/or NHLS commensurate with the nature of the project activities they are involved in. The cost of obtaining suitable clearances is for the account of the bidders. The bidders shall supply and maintain a list of personnel involved on the project indicating their clearance status.

5.9.1 Employees and subcontractors of the successful bidder will be required to sign a non-disclosure agreement.

## **5.10 Occupational Injuries and Diseases Act 13 of 1993**

5.10.1 The Bidder warrants that all its employees (including the employees of any sub-contractor that may be appointed) are covered in terms of the Compensation for Occupational Injuries and Diseases Act 13 of 1993 and that the cover shall remain in force for the duration of the adjudication of this bid and/ or subsequent agreement. NHLS reserves the right to request the Bidder to submit documentary proof of the Bidder's registration and "good standing" with the Compensation Fund, or similar proof acceptable to NHLS.

## **5.11 Formal contract**

5.11.1 This RFB, all the appended documentation and the proposal in response thereto read together, form the basis for a formal contract to be negotiated and finalised between NHLS and/or its clients and the enterprise(s) to whom NHLS awards the bid in whole or in part.

5.11.2 Any offer and/or acceptance entered verbally between NHLS and any vendor, such offer shall not constitute a contract and thus not binding on the parties.

## **5.12 Instructions for submitting a proposal**

5.12.1 One (1) original, one (1) hard copy and 1 (one) electronic copy on compact disk (CD) in Portable Document Format (PDF) of the Bid shall be submitted on the date of closure of the Bid.

**Pricing: Bid Price must be submitted in a separate envelop and marked clearly as follows: RFB number, RFB description and bidder's name).** One (1) original, one (1) hard copy and 1 (one) electronic copy on compact disk (CD) in Portable Document Format (PDF) of the Bid shall be submitted on the date of closure of the Bid.

The original copy must be signed in black ink by an authorised employee, agent or representative of the bidder and each and every page of the proposal shall contain the initials of same signatories.

5.12.2 Bidders shall submit proposal responses in accordance with the prescribed manner of submissions as specified above.

- 5.12.3 Bids must be submitted in a prescribed response format herewith reflected as **Response Format**, and be sealed in an envelope clearly marked.
- 5.12.4 Bids that are too large to fit into the tender box must be handed in at the reception desk during office hours from 08:00- 16:30 or before 11:00 on the closing date.
- 5.12.5 All Bids in this regard shall only be accepted if they have been placed in the bid box before or on the closing date, **17 March 2023 and stipulated time, 11h00 am.**
- 5.12.6 Bids received after the time stipulated shall not be considered.
- 5.12.7 Bid responses sent by post or courier must reach this office at least **36 hours** before the closing date to be deposited into the proposal box. Failure to comply with this requirement shall result in your proposal being treated as a “late proposal” and shall not be entertained. Such proposal shall be returned to the respective bidders.
- 5.12.8 **No proposal shall be accepted by NHLS if submitted in any manner other than as prescribed above.**

## **6. Response format**

- 6.1 Bidders shall submit response in accordance with the response format specified below. Failure to do so shall result in rejecting vendor’s response. No referrals may be made to comment. Failure to comply shall result in the vendor being penalised.

### **6.2 Schedule Index:**

- 6.2.1 **Schedule 1:** Pages 1 – Page 20 of this RFB document
- 6.2.2 **Schedule 2:** Mandatory Documents
  - 6.2.2.1 An original valid Tax Clearance Certificate or a Tax Compliance Status letter (with pin) issued by the South African Revenue Services or a CSD Report reflecting active Tax Clearance Compliance status.  
If a Consortium, Joint Venture or Subcontractor, an original valid Tax Clearance Certificate or a Tax Compliance Status letter (with pin) issued by the South African Revenue Services or a CSD Report reflecting active Tax Clearance Compliance status must be submitted for each member. (Annexure B)
  - 6.2.2.2 National Industrial Participation Programme Certificate from the DTI (read paragraph 5.5 in conjunction with Annex E – SBD 5) (If applicable).
  - 6.2.2.3 Central Supplier Database (CSD) Registration Report
  - 6.2.2.4 General Conditions of Contract (Annexure G)
- 6.2.3 **Schedule 3:** Executive Summary of proposal
- 6.2.4 **Schedule 4:** Technical/Functionality
- 6.2.5 **Schedule 5:** Preferential Procurement Claim form and copy of the B-BBEE Verification Certificate(s) issued by an authorised body or person, or a sworn affidavit prescribed by the B-BBEE Codes of Good Practice.
- 6.2.7 **Schedule 7:** Bidder’s Disclosure SBD 4 (Annexure D)
- 6.2.8 **Schedule 8:** Bidder Profile:
  - 6.2.8.1 Credentials of the company/consortium members etc.
  - 6.2.8.2 Structure of the company/ consortium members etc.
  - 6.2.8.3 Partnership agreements/contracts
- 6.2.9 **Schedule 9:** Bid Price **(to be submitted in a separate envelop and marked clearly as follows: RFB number, RFB description and bidder’s name)** (Annexure C)

### **6.3 Bidder background information materials:**

- 6.3.1 Bidder Operating Organisation – Provide an overview of the operating structure and geographical locations of the firm at the national, regional, and local levels.
- 6.3.2 Standards – Include information regarding your firm’s utilization of widely known Industry Standards and guidelines, as they apply to your firm, your firm’s proposal and proposed hardware assets.
- 6.3.3 Company Contact(s) – Provide the name, title, street address, city, state, telephone and fax numbers and e-mail of the primary company’s contact person, and for any sub-Contractors.
- 6.3.4 Corporate Financial Solvency - Provide solvency statement signed by a qualified independent auditor that the financial position of the company is sound and that the company will be able to mobilise financial resources to deliver the project.

### **7. Key personnel**

- 7.1 Identify key personnel, by employer (include subcontractor(s), and provide contact information.

### **8. Reasons for Disqualification**

- 8.1 NHLS reserves the right to disqualify any bidder which does any one or more of the following, and such disqualification may take place without prior notice to the offending bidder, however the bidder shall be notified in writing of such disqualification:
  - 8.1.1 bidders who submitted did not sign the mandatory documents;
  - 8.1.2 bidders who submitted information that is fraudulent, factually untrue or inaccurate, for example memberships that do not exist, B-BBEE credentials, experience, etc.;
  - 8.1.3 bidders who received information not available to other vendors through fraudulent means;
  - 8.1.4 bidders who do not comply with **mandatory requirements** as stipulated in this RFB; and
  - 8.1.5 bidders who fail to price according to the costing template provided;
  - 8.1.6 bidders who failed to attend the compulsory briefing session and/or compulsory site visit

### **9. Bid Preparation**

- 9.1 All additions to the proposal documents i.e. annexes, supporting documentation pamphlets, photographs, technical specifications and other support documentation covering the goods offered etc. shall be neatly bound as part of the schedule concerned.
- 9.2 All responses regarding questions posed in the annex attached herewith shall be answered in accordance with the prescribed **RFB Response Format**.
- 9.3 Telephonic, faxed, e-mailed or oral tenders shall not be accepted.

### **10. Oral presentations and Briefing Sessions**

- 10.1 Bidders who submit Bids in response to this RFB may be required to give an oral presentation, which may include, but is not limited to, an equipment/service demonstration of their proposal to NHLS. This provides an opportunity for the vendor to clarify or elaborate on the proposal. This is a fact finding and explanation session only and does not include negotiation. NHLS shall schedule the time and location of these presentations. Oral presentations are an option of NHLS and may or may not be conducted and must not be construed as being successful in, or, awarded the tender.

**11. General Conditions of Bid and Conditions of Contract**

**11.1 Bidders shall provide full and accurate answers to all (including mandatory) questions posed in this document, and, are required to explicitly indicate either "Comply/Accept (with a ✓)" or "Do not comply/Do not accept (with an X)" regarding compliance with the requirements. Where necessary, the bidder shall substantiate their response to a specific question.**

**NOTE: It is mandatory for bidders to complete or answer this part fully (11.2 to 11.34); otherwise their bid shall be treated as incomplete and shall be disqualified. Refer to paragraph 8 of this document (reasons for disqualification).**

11.2

This bid is subject to the General Conditions of Contract stipulated in this document.	<b>Accept</b>	<b>Do not Accept</b>

11.3

The laws of the Republic of South Africa shall govern this RFB and the Bidders hereby accept that the courts of the Republic of South Africa shall have the jurisdiction.	<b>Accept</b>	<b>Do not Accept</b>

11.4

NHLS shall not be liable for any costs incurred by the bidder in the preparation of response to this RFB. The preparation of response shall be made without obligation to acquire any of the items included in any bidder’s proposal or to select any proposal, or to discuss the reasons why such vendor’s or any other proposal was accepted or rejected.	<b>Accept</b>	<b>Do not Accept</b>

11.5

NHLS Procurement Services may request written clarification regarding any aspect of this proposal. The bidders must supply the requested information in writing within the specified time frames after the request has been made, otherwise the proposal shall be disqualified.	<b>Accept</b>	<b>Do not Accept</b>

11.6

In the case of Consortium, Joint Venture or subcontractors, bidders are required to provide copies of signed agreements stipulating the work split and Rand value.	<b>Accept</b>	<b>Do not Accept</b>

11.7

In the case of Consortium, Joint Venture or subcontractors, all bidders are required to provide mandatory documents as stipulated in schedule 1 of the Response format.	<b>Accept</b>	<b>Do not Accept</b>

11.8

	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

NHLS reserves the right to; cancel or reject any proposal and not to award the proposal to the lowest bidder or award parts of the proposal to different bidders, or not to award the proposal at all.		
--	--	--

11.9

Where applicable, bidders who are distributors, resellers and installers of network equipment are required to submit back-to-back agreements and service level agreements with their principals.	<b>Accept</b>	<b>Do not Accept</b>

11.10

By submitting a proposal in response to this RFB, the bidders accept the evaluation criteria as it stands.	<b>Accept</b>	<b>Do not Accept</b>

11.11

Where applicable, NHLS reserves the right to conduct benchmarks on product/services offered during and after the evaluation.	<b>Accept</b>	<b>Do not Accept</b>

11.12

NHLS reserves the right to conduct a pre-award survey during the source selection process to evaluate contractors' capabilities to meet the requirements specified in the RFB and supporting documents.	<b>Accept</b>	<b>Do not Accept</b>

11.13

Where the bid calls for commercially available solutions, bidders who offer provide future based solutions will be disqualified.	<b>Accept</b>	<b>Do not Accept</b>

11.14

The bidder should not qualify the proposal with own conditions. <b>Caution:</b> If the bidder does not specifically withdraw its own conditions of proposal when called upon to do so, the proposal response shall be declared invalid.	<b>Accept</b>	<b>Do not Accept</b>

11.15

Should the bidder withdraw the proposal before the proposal validity period expires, NHLS reserves the right to recover any additional expense incurred by NHLS having to accept any less favourable proposal or the additional expenditure incurred by NHLS in the preparation of a new RFB and by the subsequent acceptance of any less favourable proposal.	<b>Accept</b>	<b>Do not Accept</b>

11.16

Delivery of and acceptance of correspondence between NHLS and the bidder sent by prepaid registered post (by air mail if appropriate) in a correctly addressed envelope to either party's postal address or address for service of legal documents shall be deemed to have been received and accepted after (2) two days from the date of postage to the South African Post Office Ltd.	<b>Accept</b>	<b>Do not Accept</b>

11.17

Should the parties at any time before and/or after the award of the proposal and prior to, and-or after conclusion of the contract fail to agree on any significant product price or service price adjustments, change in technical specification, change in services, etc. NHLS shall be entitled within 14 (fourteen) days of such failure to agree, to recall the letter of award and cancel the proposal by giving the bidder not less than 90 (ninety) days written notice of such cancellation, in which event all fees on which the parties failed to agree increases or decreases shall, for the duration of such notice period, remain fixed on those fee/price applicable prior to the negotiations.  Such cancellation shall mean that NHLS reserves the right to award the same proposal to next best bidders as it deems fit.	<b>Accept</b>	<b>Do not Accept</b>

11.18

In the case of a consortium or JV, each of the authorised enterprise's members and/or partners of the different enterprises must co-sign this document.	<b>Accept</b>	<b>Do not Accept</b>

11.19

Any amendment or change of any nature made to this RFB shall only be of force and effect if it is in writing, and an Amendment to the RFB will be issued. Bidders will be required to utilise the latest Amendment in preparation of their bid response.	<b>Accept</b>	<b>Do not Accept</b>

11.20

Failure or neglect by either party to (at any time) enforce any of the provisions of this proposal shall not, in any manner, be construed to be a waiver of any of that party's right in that regard and in terms of this proposal. Such failure or neglect shall not, in any manner, affect the continued, unaltered validity of this proposal, or prejudice the right of that party to institute subsequent action.	<b>Accept</b>	<b>Do not Accept</b>

11.21

Bidders who make use of subcontractors.	<b>Accept</b>	<b>Do not Accept</b>
<b>The proposal shall however be awarded to the Vendor as a primary contractor who shall be responsible for the management of the awarded proposal. No separate contract shall be entered into between NHLS and/or its client and any such subcontractors. Copies of the signed agreements between the relevant parties must be attached to the proposal responses.</b>		

11.22

All services supplied in accordance with this proposal must be certified to all legal requirements as per the South African law.	<b>Accept</b>	<b>Do not Accept</b>

11.23

No interest shall be payable on accounts due to the successful vendor in an event of a dispute arising on any stipulation in the contract.	<b>Accept</b>	<b>Do not Accept</b>

11.24

Evaluation of Bids shall be performed by a CFET established by NHLS.	<b>Accept</b>	<b>Do not Accept</b>
Bids shall be evaluated on the basis of conformance to the required specifications as outlined in the RFB. Points shall be allocated to each bidder, on the basis that the maximum number of points that may be scored for price is 80/90, and the maximum number of preference points that may be claimed for Specific Goals (according to the PPPFA) is 20/10.		

11.25

Prior to the award of any tender or contract the NHLS will check the Prohibition status of recommended suppliers/ service providers on the Treasury website ( <a href="mailto:restricted@treasury.gov.za">restricted@treasury.gov.za</a> ) as well as the Treasury Register for Tender Defaulters ( <a href="http://www.treasury.gov.za">www.treasury.gov.za</a> )	<b>Accept</b>	<b>Do not Accept</b>

11.26

The NHLS will act against the bidder or person awarded the contract upon detecting that the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the contract conditions have not been fulfilled.	<b>Accept</b>	<b>Do not Accept</b>

11.27

<p>The NHLS may, in addition to any other remedy that it may have against the bidder or person:</p> <ul style="list-style-type: none"> <li>• Disqualify the bidder or person from the bidding process;</li> <li>• Recover all costs, losses or damages it has incurred;</li> <li>• or suffered as a result of that person’s conduct;</li> <li>• Cancel the contract and claim any damages which it;</li> <li>• has suffered as a result of having to make less;</li> <li>• favourable arrangements due to such cancellation;</li> <li>• Restrict the bidder or contractor, its shareholders;</li> <li>• and directors, or only the shareholders and directors;</li> <li>• who acted on a fraudulent basis, from obtaining business;</li> <li>• from any organ of state for a period not exceeding 10;</li> <li>• years, after applying the audi alteram partem (hear the other side) rule;</li> <li>• Forward the matter for Blacklisting by Treasury; and</li> <li>• Forward the matter for criminal prosecution</li> </ul>	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

11.28

<p>If the successful bidder disregards contractual specifications, this action may result in the termination of the contract.</p>	<b>Accept</b>	<b>Do not Accept</b>
---	---------------	----------------------

11.29

<p>The bidders’ response to this Tender, or parts of the response, shall be included as a whole or by reference in the final contract.</p>	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

11.30

<p>NHLS has discretion to extend the validity period should the evaluation of this bid not be completed within the stipulated validity period.</p>	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

11.31

<p>Upon receipt of the request to extend the validity period of the bid, the bidder must respond within the required time frames and in writing on whether or not he agrees to hold his original bid response valid under the same terms and conditions for a further period.</p>	<b>Accept</b>	<b>Do not Accept</b>
---	---------------	----------------------

11.32

<p>Should the bidder change any wording or phrase in this document, the bid shall be deemed unresponsive and may lead to the disqualification of the bid response.</p>	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

11.33

	<b>Accept</b>	<b>Do not Accept</b>
--	---------------	----------------------

The cost validation for Analysers and reagents for the validation will be borne by the supplier and NHLS will not be charged for this.		
--	--	--

11.34

No alternative tender offers will be considered.	<b>Accept</b>	<b>Do not Accept</b>

**12. Evaluation Criteria and Methodology**

**12.1 Evaluation of tenders and selection of contractors’/service providers**

The NHLS is a Schedule 3A Government Institution subjected to the Public Finance Management Act (PFMA), the Public Preferential Framework Act (PPPFA) and Treasury Regulations/ Instructions. Bidders must assist the NHLS to eliminate corruption and fraud by completing and submitting form SBD4.

- 12.1.1. Any tender closing is followed by a Public Opening where the names and pricing of all bids received are read out to the bidders attending. NHLS tender opening officials sign the pages where pricing is indicated to prevent any alterations.
- 12.1.2 Next steps of evaluation is Administrative pre-qualification verification and the “technical” or so called “functional” evaluation which is purely based on NHLS specifications (Annexure 2) and Scope of Work. NHLS end-user department (who requested the bid), Procurement Services, Finance and subject specialists are part of the Cross Functional Evaluation Team (CFET) meeting which is chaired by Quality Assurance (QA). *All the members of the CFET must complete Declaration of Interest forms and must recuse themselves in case of any conflict of interest.*
- 12.1.3 The final stage of evaluation is done after the CFET has reached their verdict and is done by NHLS Procurement Services and separately from the CFET meeting. Points for Specific Goals (commercial evaluation) is being added in order to get the final order of merit for the bidders being evaluated.
- 12.1.4 Bidders that score the minimum threshold are recommended and submitted to the NHLS Tender Evaluation Committee (TAC) for adjudication and the bid MUST be awarded to the bidder who scored the highest points (Merit 1) during the CFET and Commercial evaluation(B-BBEE). *All the members of the CFET must complete Declaration of Interest forms and must recuse themselves in case of any conflict of interest. **Should the TAC decide on a bidder other than Merit 1, this decision must be motivated as a Deviation from NHLS Policy & procedure and Treasury must be advised accordingly.***
- 12.1.5 The CEO of the NHLS must finally approve the recommendation by the TAC, in his capacity as the Accounting Officer.
- 12.1.6 Details of the successful bidder to be advertised in the Government Tender Bulletin.
- 12.1.7 Suppliers must accept the Terms & Conditions of our contract(s) which will result from the RFB document”. RFB conditions and pricing shall be fixed and firm from RFB closing date to the end of contract.

**12.2 BID EVALUATION STAGES**

The bid evaluation process consists of several stages that are applicable according to the nature of the bid as defined below:

- Stage 1: Administrative pre-qualification verification
- Stage 2: Technical Mandatory requirement evaluation

Stage 3: Technical Functionality requirement evaluation

Stage 5: Price / Specific Goals evaluation

**NOTE: The bidder must qualify for each stage to be eligible to proceed to the next stage of the evaluation.**

### 12.3 ADMINISTRATIVE COMPLIANCE REQUIREMENTS

✚ Administrative compliance/responsiveness will be tested based on returnable documents submitted and signatures on the Bid documents.

✚ At this stage, it must be determined what documents are required to be returned by Bidders. Returnable documents are categorised as follows:

#### a) Mandatory Returnable Documents

**(NOTE: Failure to provide the below listed documents WILL lead to disqualification)**

1. Fully completed and signed Bidder's Disclosure SBD 4	Comply	Do Not Comply
<b>Substantiation: The bidder must submit and attach to the bid response the signed Bidder's Disclosure SBD 4</b>		
2. The Service Providers to have to agree with NHLS General Conditions of Bid and Conditions of Contract	Comply	Do Not Comply
<b>Substantiation: The bidder must submit and attach to the bid response the signed and accepted NHLS General contract terms and conditions</b>		
3. Proof of Attendance of Compulsory Briefing session	Comply	Do Not Comply
<b>Substantiation: The bidder is to indicate whether they attended the Compulsory Briefing session</b>		

#### b) Essential Returnable Documents

**(NOTE: Failure to provide the below listed documents MAY lead to disqualification)**

Description	Comply	Do Not Comply
1. Preferential Procurement Claim form and copy of B-BBEE Verification Certificate(s) issued by an authorised body or person, or a sworn affidavit prescribed by the B-BBEE Codes of Good Practice		
2. Submission of original valid Tax Clearance Certificate or a Tax Compliance Status letter (with pin) issued by the South African Revenue Services		
3. Proof of Central Supplier Database (CSD) Registration		
4. Provide proof of Public Liability Insurance cover to the full contract value and to the entire duration of the project		
5. Provide letter of good standing from Department of Labour (COIDA)		

12.4 The evaluation of the Bids shall be based on the 80/20 or 90/10 PPPFA principle and the points for evaluation criteria are as follows:

Price points	<b>80</b>
Specific Goals	<b>20</b>
<b>Total</b>	<b>100 points</b>

**1 SPECIAL INSTRUCTIONS TO VENDORS**

- 1.1 Should a Bidder have reasons to believe that the Technical Specification is not open and/or is written for a particular brand or product; the Bidder shall notify Procurement Services within ten (10) days after publication of the bid.
- 1.2 Bidders shall provide full and accurate answers to the mandatory questions posed in this document, and, where required explicitly state either “Comply/Not Comply” regarding compliance with the requirements. Bidders **must** substantiate their response to all questions, including full details on how their proposal/solution will address specific functional requirements. All documents as indicated must be supplied as part of the submission.
- 1.3 Bidders are encouraged to promote the growth and development of SMME's, and will be assessed on their efforts in this regard during the evaluation of this Tender.

**2 ACRONYMS AND ABBREVIATIONS**

<b>Term</b>	<b>Definition</b>
EBS	Oracle e-Business Suite
DR	Disaster Recovery
DB	Database
NHLS	National Health Laboratory Service
PMO	Project Management Office
SLA	Service Level Agreement

**3 BACKGROUND**

National Health Laboratory Services [hereinafter referred to as NHLS] is a public health laboratory service with laboratories across South Africa. Its activities comprise diagnostic laboratory services, research, teaching and training, and production of sera for anti-snake venom, reagents and media. NHLS was established in 2001 by an Act of Parliament to provide diagnostic pathology laboratory services to the National and Provincial Health Department.

**4 SCOPE OF WORK**

The National Health Laboratory Service is an essential service provider, providing diagnostic services to +\_80% of the South African population. Therefore, continuous power cuts due to the load shedding severely affect the organisation’s operations. Then the alternative solution to remedy the current situation is to procure other energy sources instead of relying on Eskom. NHLS management has decided to install solar systems at the Sandringham Campus, which will result in a sustainable power supply. In the long run, the organisation will save money.

The project specification contains a general description of the project, available facilities and the conditions with which the works have to comply. In the case of any apparent contradiction, the project specification will take precedence over the particular and standardised specifications in the respective order.

1.

## **DESCRIPTION OF THE WORKS**

The project comprises “Specification for the supply, delivery, installation and commissioning of the Solar PV Installation,” for the NHLS Solar PV project. This specification calls for the following:

- a) 140kVAac, 167kWdc solar PV installation to connect to IT Minisub, see drawing.
  - It is proposed that this installation be completed making use of new carports to be constructed as part of this project Geotechnical investigation to be included in quote to confirm foundation and structural designs to be implemented. Existing carports to be removed.
- b) 254kVAac, 304kWdc solar PV installation to connect to at Serum Facility.
  - This installation be completed making use of new carports as per item a)
- c) 545kVAac, 653kWdc solar PV installation to connect to HIV Aids facility.
  - This installation be completed making use of new carports as per item a)
- d) 301kVAac, 361kWdc solar PV installation to connect to at NICD facility.
  - This installation be completed making use of new carports as per item a)

1.1

## **BROAD SCOPE OF WORKS**

1.1.1

### **Major Equipment**

- a) Photovoltaic modules;
- b) Inverters and combiners; c)
- c) Power optimisers;
- d) Mounting structures (new carports, ground mounting, existing carports to be removed);
- e) Communications between inverters and network;
- f) Monitoring Platform including any associated costs;
- g) 12months maintenance;

## 1.1.2

### Electrical System

#### 1.1.2.1 DC Reticulation

- a) Trenching, sleeves, compaction, and reinstatement including road surfaces;
- b) Low voltage cables;
- c) Ducting / trays;
- d) Terminations;
- e) Connection of modules in strings;
- f) Connection of strings to power optimisers (as appropriate);
- g) Connection of strings (with or without power optimisers) to combiner boxes or directly to inverter (as appropriate)

#### 1.1.2.2 AC Reticulation

- a) Low voltage cables;
- b) Trenching, sleeves, compaction, and reinstatement including road surfaces;
- c) Ducting / trays;
- d) Terminations;
- e) Distribution Board/s (DB)
- f) Protection devices;
- g) Metering;
- h) Connection of inverters to distribution board/s (DB);
- i) Connection of distribution board/s to transformer (if applicable);

#### 1.1.2.3 Communications

- a) Communications/ ethernet cables;
- b) Trenching, sleeves, compaction, and reinstatement including road surfaces;
- c) Ducting / trays;
- d) Terminations;
- e) Network equipment;

#### 1.1.2.4 Lightning protection, including aerial, down-conductors, earthing and surge protection;

## 1.1.3

### Main DB

The main DB for each ringfenced solar PV installation will include but not be limited to the following:

- a) Metering system;

- b) Switchgear;
- c) Transformer protection (if applicable);
- d) Protection devices;
- e) Monitoring and communication system;
- f) Data logger;
- g) Cabling;
- h) Reference cell;
- i) Modem;
- j) UPS;
- k) Spare parts;

The Contractor shall propose a list of spare parts

The Solar PV installation works will be carried out as a direct contract.

2

### LOCALITY AND ACCESS

The property, NHLs Solar PV will be developed on the Portions 70 and 85 of the Farm Rietfontein 61-IR with No 1 Modderfontein Road, Sandringham, Johannesburg as street address.

The property is located in Sandringham, Johannesburg, to the West of Modderfontein Road (R25), to the North-east of Boundary Road and to the South of Lyndhurst Road.



Google Earth Image

3

### NATURE OF GROUND, SUBSOIL CONDITIONS AND ENVIRONMENTAL CONDITIONS

The Tenderers shall familiarise themselves with environmental conditions. Refer to Part 6A for details.

- Ground covering : Developed stand with open areas with only trees and grass covering.
- Lightning occurrence : Refer to SABS risk factor analysis for Sandringham, Johannesburg.

4 **DETAILS OF CONTRACT**

4.1 **GENERAL**

The project consists of all the elements as described in paragraph PS.1 above that forms part of the **NHLS Solar PV** installation.

4.1.1 **Supply Authority**

This **NHLS Solar PV** installation will be completed within the municipal boundary of the City of Joburg.

The supply authority is City Power.

4.1.2 **Point of Connection**

It is envisaged that the Point of Connection/s (PoC/s) will be the existing low voltage (LV) distribution board/s (DB) or minisubs located within the existing buildings as indicated on the drawings. The Contractor will be responsible for the connection of the Solar PV installation to the existing LV DBs/ minisubs to enable a grid-tied installation typology. To ensure fair and accurate billing and adherence to City Power requirements, four (4) quadrant AMR (Automated Meter Reading) meter must be installed to accurately measure kWh received from the main supply as well as from the Solar PV installation (import / export). A separate meter must also be installed to keep track of the total energy generated by the Solar PV installation and to monitor the voltage, current, kW delivered by this installation.

4.1.3 **Quality of Materials and Workmanship**

All materials shall be of the qualities specified and the contractor, upon the request of the Engineer shall furnish him with proof to his satisfaction that the materials are to the specified quality. The works shall be executed in a workmanlike manner and to the satisfaction of the Engineer. Materials and workmanship not in accordance with the provisions of the Contract shall be replaced, rectified or reconstructed as the case may be at the cost of the Contractor and all rejected materials shall be removed from the site.

All equipment and material shall be newly manufactured for this project, **NO refurbished / reconditioned or second-hand material or equipment** will be accepted.

4.2 **CONTRACTOR’S SCOPE OF WORK**

4.2.1 **Engineering / Design**

The Contractor shall develop the detailed design of the Solar PV installation in full compliance with local and international standards related to electrical works and specifically PV works (where local codes are insufficient). A list of minimum applicable standards is provided in PS.22. The Contractor assumes full liability for the design. The PV facility shall have a design life of at least 20 years. Warranties on PV modules and inverters shall be minimum 12 years.

The Contractor shall submit his designs to the Engineer/Project Manager for review and comment prior to procurement and construction of the Solar PV installation.

#### 4.2.2 **Construction**

The Contractor shall supply all temporary tools, equipment, vehicles, materials, consumables, machinery, infrastructure, professional services and labour required for the construction of the Works.

The Contractor shall comply with the Occupational Health Act (85 of 1993) and its regulations as applicable. The Contractor shall have a Health and Safety officer present throughout the duration of the construction period.

#### 4.2.3 **Engineering, Procurement and Construction**

The Contractor is responsible for:

- Surveying, setting-out and clearing the site (if applicable);
- Design, detailed drawings, design sign-offs, as-built sign-offs and electrical (CoC's) & structure certifications;
- Purchasing, transportation and offloading of all equipment and materials; construction, erection, installation, assembling;
- Testing, commissioning and performance testing; preparing operations & maintenance manuals;
- Identifying and remedying defects for a defects period of 24 months after Completion;
- O&M services following Provisional Acceptance of the whole Works, see PS.4.2.5 for further details.

#### 4.2.4 **Commissioning**

The Contractor shall supply all equipment and tools necessary to commission and test the Facility according to the Acceptance Tests defined in the EPC Agreement.

#### 4.2.5 **Operations and Maintenance**

The Contractor shall be responsible for the effective day-to-day monitoring, operating and maintaining of the plant for 12 months after Provisional Acceptance of the whole Works.

#### 4.2.6 **Training Plan**

The Contractor is required to develop and effect a training programme for the National Health Laboratory Services Facilities Maintenance staff for the duration of the O&M Period. The National Health Laboratory Services staff will assist with basic operations, maintenance and safety related tasks of the Solar PV Facility.

### 4.3 **MAJOR EQUIPMENT**

#### 4.3.1 **Photovoltaic (PV) Modules**

Preference is given to the following modules in no specific order, see Part 6A.

##### 4.3.1.1 Technical requirements

The Contractor is allowed to make use of the following photovoltaic module technologies, see Part 6A.

Crystalline silicon modules are required to be SANS 61215 certified, thin film modules are required to be SANS 61646 certified. Detailed specification sheets and certificates of compliance to these standards are to be provided.

In addition, the modules shall feature the following qualities:

- Normal Operating Cell Temperature (NOCT) is at maximum 46°C with a tolerance of  $\pm 2^\circ\text{C}$ .
- The panel operating temperature range is to be at least -40 to 85°C.
- The temperature coefficients for power is to be at least  $-0.44\%/^\circ\text{C}$  (i.e.  $\geq -0.45\%/^\circ\text{C}$ )
- All modules are required to have a positive output tolerance and the tolerance range is not to be larger than 0 to +3%, preferably 0.5Wp.
- Modules shall have anti-reflective coating. The PV panels must have frames sufficiently resistant to potentially corrosive environment (Aluminium Alloy, Anodized Aluminium, etc.). These modules must have valid SANS/IEC certifications.
- The PV panels shall be able to support a maximum PV system voltage of 1000V (or 1500V in case of new module generation). When a panel type is certified as per SANS 61730 standard, it implies it has been tested and has passed this requirement.
- The panel's ability to withstand up to 5400Pa must have been proven through the SANS 61730 certification being obtained with this load;
- Typical efficiency reduction of maximum 5% at 200 W/m<sup>2</sup> according to IEC 60904-1;
- Junction box/es shall be IP 67 rated.

#### 4.3.1.2 Flash Test/s

- A comprehensive current-voltage (I-V) flash test report for each PV module procured shall be provided to the Engineer in Excel format prior to commencement of construction. The data must have the following information:
- Product name and number (external and internal);
- Serial number of the tested panel, including which panels are in which shipping containers and pallets;
- Power at maximum power point (PMPP);
- Voltage at maximum power point (VMPP);
- Current at maximum power point (IMPP);
- Fill factor [The available power at the maximum power point (MPP) divided by the open circuit voltage (Voc) and the short circuit current (Isc)];
- Open circuit voltage (Voc);
- Short circuit current (Isc);
- This information shall be provided by latest two (2) weeks prior to the arrival of PV modules on the Site.

#### 4.3.1.3 Installation

The Contractor is responsible for the installation of modules according to the manufacturer's specifications. The PV module installation manual must be provided as part of the as-built documentation. The manual shall contain all the necessary requirements and specifications for proper module installations such as (but not limited to):

- Types of mounting structures including physical requirements for securing mechanisms (screws, clamps, dimensions, tightening force, locations) and useful information such as recommended mounting types, recommended spacing to guarantee sufficient air circulation, restrictions to certain environments, etc;
- Mechanical and electrical configuration guidelines (landscape, portrait, string and array sizing, grounding, etc.);
- Earthing requirements.

#### 4.3.1.4 Guarantees and Warranties

Modules shall carry a product warranty of at least 10 years and a linear 25-year performance guarantee of 80%.

The warranties offered by the module manufacturer shall be transferrable to the Employer. Other terms and conditions for warranties transferability must be clearly defined.

The sales agreement with the module manufacturer shall clearly define the claiming procedure of defective modules, the required additional specific independent party involvement and any other conditions that might influence the honouring of the warranty and guarantee.

#### 4.3.2 Inverters

Preference is given to the following inverters in no particular order, see Part 6.

##### 4.3.2.1 Technical Requirements IEC

60904-1.

The selection of inverters shall be based on the PV installation design and functional requirements, including the integration requirements into the PV system and the compatibility to the selected PV modules for the installations.

Inverters must be designed for PV application and include:

- At least one maximum power point tracker (MPPT);
- A display showing the faults and the performances;
- An advanced system to allow power control and efficiency (maximum efficiency) must be at least 97% (excluding transformer);
- Remote monitoring and control capabilities;
- Isolation fault detection;
- Anti-islanding;
- Ability to start and stop function automatically;
- Variable power factor setting;

- The ratio of the input DC power to output AC power must be between 80% and 120% at STC;
- The MPP voltages of the strings are to be verified to lie in the MPP voltage range of the inverter for temperatures between 0°C and 70°C. The maximum inverter input voltage is not to be exceeded at temperatures of -10°C.
- An IP protection class of at least IP54 is required for outdoor mounting and an IP grade of at least IP21 is required for indoor mounting of the inverters;
- If inverters are installed outdoors must be protected from direct sunlight;
- The inverter requires an external DC switch.

In cases where applicable, there may be special grounding requirements for inverters. These are stipulated by the PV module manufacturer. In such cases, it is the Contractor's responsibility to notify the Engineer and implement these requirements.

#### 4.3.2.2 Guarantees and Warranties

Inverters shall have a warranty of at least 10 years. The contract sales agreement with the inverter manufacturer shall clearly define the claiming procedure of defect inverters or parts. The required testing, independent verification requirements and any other conditions that might influence the honouring of the warranties.

Any extension and the full scope of that extension to the standard limited warranty that is included in the price should be indicated clearly.

Upon request by the Engineer/Project Manager, the Contractor must provide proof that the inverter manufacturers have sufficient financial backup that covers manufacturers in bankruptcy or insolvency procedures.

The conditions which void the warranties shall be clearly stated.

The warranties offered by the Inverter manufacturers shall be transferrable to the Employer. Other terms and conditions for warranties transferability must be clearly defined.

#### 4.3.3 **Mounting structure**

The supporting structure of the modules and all other PV components on the roof shall be designed and installed in line with the relevant South African standards are to be used, more in particular applicable for PV installations.

- SANS 10160 Part 2 - Self weight and imposed loads
- SANS 10160 Part 3 - Wind actions

The wind load on the modules should be calculated (prior to the selection of the supporting structure) for each specific location depending on wind zone of the site, surroundings of building, roof altitude, inclination of roof and modules, location of modules on the roof (corners, roof edge, etc.), load of PV installation, distance between rows of modules, presence of wind shield, etc.

The amount of connection points will be calculated based on the applied loads and the static behaviour of the system. The connection points may not harm the position of or the sealing in- between the roofing.

Wind load stability calculations will be provided to the Employer.

Structures are typically made from aluminium and steel; those materials should be new and conform to the current norms in terms of characteristics (quality, tolerance...). All used screws and clamps need to be resistant to corrosion.

The mounting of other components should not be done by penetrating the structure (e.g. drilling holes) as this might void the galvanisation layer. A clamping method is preferred, or adequate measures are to be taken to ensure a corrosion protection.

#### 4.3.4 **Structural Engineer's Input**

##### 4.3.4.1 Inception

During the inception stage the structural engineer's project team will meet with the Client and approved Contractor to familiarise themselves with the scope of the project. This meeting ensures that all parties are aligned in terms of the installation required, which will include, but is not limited to, project time frames, project costs estimates, basic guidelines and relevant technical information and final construction deliverables.

This phase will be accompanied by an Inception Report that will serve as the "updated Terms of Reference" for the project or finalising the "User Requirement Statement".

##### 4.3.4.2 Stage 1

A "data collection and review" exercise will be conducted in order to ascertain the status quo of existing buildings if applicable.

This may include the following items:

- "As built" drawings of existing buildings
- On site visual survey of existing buildings identified as Stage 1 which will include a site investigation of the roofs and a report with detailed findings.
- Recommendations on any further detailed investigations if required.

The on-site visual status quo information gathered by the project team will be used to confirm "As built" drawings and to prepare a draft report on existing structures.

The site investigation will determine:

a) The condition of the structure of the building

- To identify types of structural defects if applicable
- To identify signs of structural distress and/or deformation
- To identify signs of material deterioration

b) The loading on the structure of the building

- To identify any deviation from intended use or un-intended use which may result in overloading

c) Any addition or alteration works affecting the structure of the building

- To identify additional or alteration works which can result in overloading or adverse effects on the structure.
- Argue a load exchange or load balancing rationale when applicable to access restrictive additions, such as roof-top PV solar power plants

If there are no signs of any structural deterioration or defects, the site investigation may suffice and, unless the structural engineer otherwise advises, no further action may need to be taken.

However, if signs of concerning structural deterioration or defects are present, the structural engineer will make a professional assessment of the deterioration or defect and recommend appropriate remedial actions. Such actions may involve repair- or additional structural strengthening works to the building structure.

#### 4.3.4.3 Stage 2: Full Structural Investigation (if applicable)

The outcome of the Stage 1 and 2 investigation may lead to further structural investigations. The scope of a full structural investigation may include the following:

- a) Obtaining information relating to the design, construction, maintenance and history of the building;
- b) Assessing the structural adequacy of the building by reviewing available engineering drawings and design reports;
- c) Possible tests on relevant building materials;
- d) Possible load test on parts of the building where deemed necessary;
- e) Recommend appropriate safety, precautionary and remedial measures to restore the structural integrity.

Issue a detailed structural investigation report with recommendations.

#### 4.3.4.4 Handing Over to Client / Contractor

- Arrangement of final inspections accompanied by representatives from the client and stakeholder.
- Issuing of practical completion certificates, as built drawings and final completion certificates.

### 4.4 **MODULE MOUNTING**

The way of mounting the modules onto the mounting structure shall be in accordance with the requirements of the module manufacturer and mounting structure manufacturer as described in the instruction manual of both components. If not, written approval on the way of mounting shall be provided by the Contractor from the module manufacturer and/or the mounting structure manufacturer.

If modules are clamped onto the mounting structure, at least 4 clamping points should be used. The minimal torque for screwing the modules as stated in the instruction manual shall be respected.

The Contractor shall foresee a minimum inclination of the modules in order to assure the self-cleaning effect by the rain, i.e. at least 15° from the horizontal. When flush mount, roof installations are proposed, this requirement may be waved.

The sheds are to be designed so that the shadow angle is to stay below winter solstice. The shadow angle is defined as the angle between the horizontal and the line connecting the highest point of one row to the lowest point of the following row of modules.

#### .4.4.1 **PV Mounting structure**

The supporting system of the Solar PV installation and the connections to the roof may not have an impact on the function of the roof. In all circumstances the building's weather tightness must be maintained.

The supporting structure and the choice of its location on the roof may not block the water drainage on the roof. The drainage system shall be well maintained and clean.

The roof clearance around the perimeter of the array must allow for safe O&M activities. It shall be considered corridors to allow the easy access to the module arrays for cleaning activities.

Alignment between all modules' planes should be guaranteed.

On flat roofs, the PV installation can be attached to the roof by using ballast or by anchoring onto the roof supporting structure.

Where existing carport structures are used to mount the PV panels, these structures must be inspected and approved for installation of the PV panels or if not approved, the existing carport structures will need to be removed from site and replaced with structures suitable for the mounting of Solar PV panels.

For ground mounted structures, a geotechnical investigation and structural engineers report will inform the foundation and structure to be erected for the mounting of the PV panels.

#### 4.4.2 **Anchoring system**

The perforation of the module supporting structure through the roofing material can have a direct impact on the water tightness and thermal isolation, which shall be kept as low as possible. All roof penetrations must be durably sealed using purpose-made products capable of accommodating the movement and temperatures to which they may be subjected.

Besides the tensile and pressure force also the horizontal component of the wind force needs to be taken into account in the design.

#### 4.4.3 **Warranties**

The structure shall have at least 10 years warranty but shall be designed for a minimum lifetime of 25 year. Special attention should be paid to warranty conditions against corrosion. Corrosion prevention must start at the design stage considering Site and soil specific parameters.

#### 4.5 **REMOVAL AND / OR TRIMMING OF TREES**

The designs completed by the Contractor will inform the requirement for trimming and / or the proposed removal of trees. Based on the current environmental legislation, the approval of such interventions will be either issued or not through the authorised representative of the client.

#### 4.6 **BALANCE OF PLANT**

##### 4.6.1 **Protection and control devices**

The protection and switching methodology shall be determined by the Contractor's proposed design and technology but the degrees of protection shall comply with the applicable standards associated with solar PV installations and electrical works in general. Overcurrent and overvoltage devices shall be required on the DC and AC sides. Switchgear used in any switchboards shall comply with IEC 60947 and SANS 62271.

##### 4.6.2 **Lightning Protection and Earthing**

The Contractor is to conduct a risk mitigation study of lightning damage as per SANS 10313 and SANS 62305 and implement sufficient Lightning Protection System (LPS).

Earthing shall comply with SANS 10142 Parts 1 (LV) and 2 (MV), SANS 10292 and SANS 10199. A neutral earthing design is required.

Lightening protection devices should be also included on the communication lines.

All structures, enclosures, PV modules and cabinets shall be earthed appropriately.

#### 4.6.3

#### **Cabling**

##### 4.6.3.1 General

All cabling shall be installed in accordance with manufacturers' requirements and to meet the design conditions used in the sizing calculations.

The combined cable DC and AC losses shall not exceed 3%. The Contractor shall submit detailed calculations prior to commencement of construction.

##### 4.6.3.2 DC cables

The DC cables of the PV installation must have the following characteristics as minimum:

- Cables used outside shall be UV resistant and ozone protected
- Cables should have Class II rating for insulation
- Cables must be rated for temperatures from -15°C to +90°C. This requirement is also applicable to all materials used in the installation (such as cable conduits).
- The cable shall be made of double insulated component and shall have a minimal life span of 25 years.
- Cables shall comply with SANS 1507 and TÜV 2 Pfg 1169
- All DC solar cables shall be halogen free, flame resistant & fire retardant
- Cables shall be terminated with MC4 connectors
- The cable bending radius shall be at minimum four times the cable diameter or as specified by manufacturer, if different.
- Cables must be sized to allow a current up to  $1.25 \times I_{sc}$  and up to  $1.2 \times V_{oc}$

Cables must be installed in conduits and hooded cable trays. The cable return path should follow the same way to avoid induction loops.

Cables must be dimensioned according to CEI 20-40 and CEI 20-67. Norm CEI 64-8 should be followed to prevent short-circuit-induced current. Norm CEI 82-25 should be followed regarding arrangement of cables and cables trays.

Combined DC cable losses are to be less than 2% at Standard Test Conditions (STC).

##### 3.6.3.3 AC cables

The AC cables of the PV installation must have the following characteristics as minimum:

- All AC cables may be PILC or XLPE with aluminium or copper stranded wire conductors;
- All cable construction shall be according to SANS 97 (PILC) or 1339 (XLPE), SANS 1507 and SANS 60502;
- All AC cables shall be suitable for direct buried (armoured) or ducted installation;
- All joints and terminations be completed and tested in accordance with the manufacturer's recommendations.

- AC cables are to be terminated in suitable lugs;

#### 4.6.3.4 Terminations, Joints and Phasing

MV terminations and joints: To be performed by an accredited contractor, heatshrink type terminations to be used.

LV terminations and joints: To be performed by an accredited contractor.

#### 4.6.3.5 VLF, Insulation Test & Outer Sheath Test (Serving

Test) - where applicable MV cables: VLF and insulation tests to be completed.

LV cables: To be tested in terms of SANS 10142 and other relevant SANS specifications.

#### 4.6.3.6 Earthing

A separate earth conductor must be installed as indicated in the Bill of Quantities and on the drawings.

#### 4.6.4 **Monitoring system**

The main standard applicable is the SANS 61724.

A logging tariff meter is to be installed at the delivery point compliant with SANS 474/NRS 057. The meter shall be compatible and integrated into the monitoring system recordings.

The monitoring system must be designed and implemented in such a way to have a lifetime of at least 20 years. The monitoring system is to continuously measure data, electrical parameters and status of the PV plant components. Updated conglomerated data is to be available online for intervals not exceeding 30 minutes.

The monitoring system shall feature a UPS with 24-hour capacity to continue monitoring in times of grid outage.

The monitoring system shall have an online platform with different levels of access control. The

minimum data to be monitored are:

- DC current and voltage at the inverter input, per string
- Inverter behaviour
- DC current and voltage input
- Output active and reactive power
- Phase voltage and current
- Grid frequency
- Grid status
- Energy output
- Alarms and faults
- Energy output at the export meter

- Auxiliary consumption at the import meter
- Status of the equipment (protection devices, inverters etc.)

Additional monitoring system:

- String monitoring for all PV installation
- Soiling sensors
- Pyranometer

#### 4.7 **DISTRIBUTION BOARDS**

##### 4.7.1 **Location**

The contractor shall supply, deliver and install the distribution boards in the positions as shown on the drawings provided by the contractor for approval by the Engineer.

##### 4.7.2 **Type & Installation**

The type of distribution boards shall be as per the detail included on the drawings.

##### 4.7.3 **Sample for Inspection**

A sample of the distribution boards illustrating the method of cable terminations shall be available for inspection at the Supplier by the Engineer prior to installation on site.

No alternative will be entertained and any claims that might arise from not complying with the sample will be rejected.

#### 4.8 **CIRCUIT BREAKERS**

Only high quality, SABS approved (or IEC) circuit breakers that has been proven to withstand the harsh South African environment shall be used. The following makes are accepted: CBI, ABB & Schneider. Any other make and/or manufacturer of breakers shall be discussed and submitted to the Engineer for approval, prior to submission of tenders.

All tripping curves to comply with the relevant SANS codes.

##### .4.8.1 **Main LV Circuit Breakers in Miniature Substations**

Circuit breakers shall have a minimum breaking capacity of 15kA for 315 and 500kVA miniature substations.

##### .4.8.2 **LV Circuit Breakers in Distribution Boards**

All circuit breakers shall be of the thermal magnetic type and shall comply with SANS 156 and 556.

#### 4.9 **EXCAVATIONS**

All excavation work shall be carried out in terms of the Occupational Health and Safety Act and Regulations (85 of 1993), with specific reference to the Construction Regulations, Paragraph 11 "Excavation Work" and Regulation 13(b) "General Safety Regulations".

All excavation done by the Electrical Contractor shall be in accordance with SANS1200 Clause DB 8.3.

A professional civil/structural engineer shall design the shoring for excavations that exceed 1.5m in depth. The design shall take into account the specific ground conditions and details of the trench supports shall be provided.

Intermediate and rock excavations will be paid pro-rata according to the rates in the Bill of Quantities.

Cable trench details shall be in accordance with SANS 1200 and compaction shall be tested at all equipment and at maximum 300m spacing to confirm compliance to this specification, compaction to be 90% MOD AASTHO minimum.

4.10 **SLEEVES**

Sleeves for all services will be installed by the Contractor.

4.10.1 **Electrical**

Nextube Kableflex type, 110mm dia (DN110 for LV) and 160mm dia (DN160 for MV), **black** sleeves will be installed as required. All sleeves to be installed with draw wire and blocked at each end to prevent any unwanted soil or other material ingress.

4.10.2 **Jointing**

Sleeves shall be jointed by means of push fit couplings (IP30 protection).

4.11 **MANHOLES**

Manholes for all services will be installed by the Contractor and the following will be applicable.

4.11.1 **Electrical**

Manholes of sizes (1.0m x 1.0m x 1.0m or 0.6m x 0.6m x 0.8m deep) as indicated on the drawings must be constructed on site. Cast iron, medium duty manhole covers to be provided.

5 **EARTHING**

All equipment, cables etc. shall be connected to an earth bar suitably rated for earth fault currents that may occur.

The requirement for earth resistance is as follows.

Combined MV & LV earth	$\leq 3 \Omega$
MV earth when separated	$\leq 30 \Omega$
LV earth when separated	$\leq 10 \Omega$

5.1.1 **Low voltage distribution boards**

Cable neutrals shall be connected to the neutral busbar in the low voltage meter kiosk/s or distribution boards.

Earth continuity conductors, earth conductors from other earth electrodes such as earth mats, earth rods etc. shall be connected to the earth bar in the low voltage meter kiosk/s or distribution boards.

A link shall be provided between the earth bar and the LV neutral bar in low voltage meter kiosk/s or distribution boards.

Cable armouring wires shall be connected to the earth bar, no cutting of armouring wires will be accepted.

#### 5.1.2 **Underground cable networks**

Cables shall be normally earthed through its sheath / armouring wires or through an earth continuity conductor, or both.

Earth connections shall be via crimped lugs at cable terminations which are bolted to earth bars. Earth connections shall not be made to bolts which is required to fix mechanical & structural supports. Earth connections shall always be made to earth bars.

K-clamps and glands shall be fitted over the armouring of cables to ensure that good contact exist with the armouring.

Where earth continuity conductors are included in the cable or has been provided as a separate conductor, the earth continuity conductor shall be connected separately from the armouring to the earth bar. 10 armouring wires shall be lugged and connected to the earth bar.

Where no earth continuity conductor is available (external or as part of the cable) and the cable armour is the only earth conductor all individual armouring wires shall be lugged together and connected to the earth bar.

At joints, it shall be necessary to ensure that all armouring wires are connected through.

Cross bonding of cables at joints shall be done according to the relevant SANS specifications and the joint manufacturers' specifications.

#### 5.2 **INSPECTIONS**

The inspection of the works will be carried out by the Electrical Contractor prior to inviting the Electrical Engineer for final inspections.

#### 6. **ITEMS REQUIRING SPECIAL ATTENTION**

As the work progresses, the Contractor shall keep an accurate record of any variation or deviation from the original drawings as approved by the Engineer. The actual position of all equipment as installed on site shall be noted on the drawings. The completion certificate will not be issued unless these "as built" drawings have been submitted to the Engineer.

A representative of the Engineer shall be on site whenever he deems it to be necessary.

#### 7. **CABLE AND SERVICE CROSSINGS**

The Contractor shall take care during trenching not to damage any existing services and shall liaise with the civil contractor (and other contractors) to establish exact positions of services prior to trenching, if applicable. The Contractor shall perform all work after obtaining the necessary way-leaves and permits.

#### 8. **TRAINING PROGRAM**

The Contractor is required to develop and provide a training programme for DPA's facilities maintenance staff for the duration of the O&M Period. DPA's staff will assist with basic operations, maintenance and safety related tasks of the Facility.

The intention of the training is to allow the Client's staff to:

- Assist the Contractor in basic O&M activities and thereby reducing call-out time for minor interventions, fault-finding and troubleshooting;
- Demonstrate the Facility; and

- Operate the plant beyond the Contractor's O&M period.

The Training Programme shall encompass, at least:

- The purpose and functionality of the equipment installed in the Facility
- Safety procedures for working in and around the Facility
- The basic operating and control procedures of the Facility
- Basic fault-finding and troubleshooting
- Replacement of minor parts (e.g. fuses)
- How to monitor, interpret and report performance

The knowledge transfer shall be through a phased approach beginning with the staff shadowing the Contractor during maintenance visits and eventually the Contractor supervising the staff while they conduct the inspections, tests and interventions. These phases shall be adopted on a quarterly basis with a review of the activities and key learning arising in that quarter.

#### 9. **QUALITY ASSURANCE PLAN**

The Contractor shall submit a Quality Assurance Plan (QAP) for the Engineer/Project Manager's review. This need not be an ISO 9001 compliant plan, but such certification shall be deemed favourable. The QAP shall detail as a minimum:

- Management philosophy and structure of the business Supply Chain Management;
- Subcontractor management philosophy;
- Quality of materials and equipment management.

#### 10. **"AS BUILT" DRAWINGS**

The Contractor shall keep a set of drawings on site on which all deviations and final positions and relevant data are accurately recorded.

These drawings must be handed to the Engineer on completion in DWG or DXF format. The completion certificate will not be issued without these drawings.

#### 11. **MANUALS, DRAWINGS AND LITERATURE**

Three copies of the maintenance manual, operating instructions complete with associated wiring diagrams, layout drawings, etc. pertaining to the equipment, shall be supplied for each type of equipment, if applicable.

The drawings etc. shall be complete and to the satisfaction of the Client. All three copies shall be handed to the Consulting Engineer, who will examine same, and issue receipt therefor, and distribute to the officials concerned. These manuals and drawings must be supplied as soon as possible after receipt of order.

One set of sepias of the "As Built" circuit diagrams and general arrangement drawings shall also be provided.

Handbooks shall be in **English**.

Handbooks shall cover at least the following:

- a) System description and interconnection diagrams;

- b) Description with circuit diagrams, of each unit of equipment;
- c) Drawings of each unit of equipment showing component layout and identification;
- d) Component lists of all components, for each component, the circuit diagram identification, manufacturer's part number, component description and the supplier's code number, where applicable;
- e) Maintenance and setting-up instructions;
- f) Performance specifications and performance tests;
- g) A complete set of schematic wiring diagrams on linen backed paper prints shall be provided in the glass fronted drawing frames to be mounted on a wall of the satellite substation.

12. **GUARANTEE**

All equipment and material shall be guaranteed for a period of 12 months from date of commissioning, against defective materials and workmanship. Any such defects shall be repaired free of charge by the Contractor.

All equipment and material shall be adequately protected against possible damage during transportation, off-loading and handling on site.

Movable relay elements shall be adequately fixed in a stationary position by means of paper wedges or other approved method. Special care shall be taken to protect the glass covers of instruments and relays.

13. **TEST CERTIFICATES**

Certified copies of test certificates in respect of impulse level and fault rupturing capacity must be submitted with the tender. Certificates of all tests done on the equipment and material items to be submitted to the Engineer before final commissioning takes place.

14. **TESTS IN THE MANUFACTURERS WORKSHOP**

The Contractor shall notify the Consulting Engineer at least two (2) weeks in advance of acceptance tests due to be carried out by the manufacturer, in order to enable him and/or a Representative of the Client to be present at such tests if he/they so desire.

15. **COMMISSIONING**

The Contractor will be responsible for all testing and commissioning of the equipment by competent persons and the provision of all test equipment required to fulfil his obligations in this regard.

Testing shall be carried out in the presence of the Consulting Engineer.

At least five days' notice shall be given of any such commissioning tests to be carried out.

The testing programme shall include for all items necessary to prove the safe and correct operation of all parts of the installation, and shall in particular cover the following:-

- i) Voltage withstand tests of all switchgear and cables after termination of same, to SABS or, in the absence of same to the manufacturer's specification;
- ii) Operational tests on all protection relays;
- iii) Operational tests including primary injection tests, on switchgear mechanisms and interlocks, etc.;

iv) Performance tests on DC supply units.

16. **CONSTRUCTION PROGRAMME**

A program for the completion of the works must be submitted by the Contractor in accordance with Part 3 (12.1) and in line with Table 1: Key Milestones and Descriptions.

**Table 1: Key Milestones and descriptions**

Item	Milestone	Qualifying Criteria
1.	<b>Proposal submission</b>	Submission of a binding proposal.
2.	<b>Purchase Offer (PO) issued</b>	Upon receipt of a suitable proposal, the <i>Client</i> shall issue a Letter of Acceptance to the <i>Contractor</i> .
3.	<b>Contract signing</b>	The <i>Client</i> and <i>Contractor</i> shall sign the agreement with suitably amended Contract Data.
4.	<b>Submission of designs and drawings</b>	The <i>Contractor</i> shall submit the updated design documents to the <i>Engineer/Project Manager</i> for his review and acceptance.
5.	<b>Submission of preliminary documents to relevant authority</b>	Those drawings and information required shall be submitted to all relevant authorities. The Works progresses in the meantime.
6.	<b>Starting Date</b>	The <i>Contractor</i> may occupy the <i>Site</i> and commence with the Works subject to the required security arrangements.
7.	<b>Delivery of Modules to Site</b>	Delivery of all PV modules to the <i>site</i> .
8.	<b>Delivery of Inverters to Site</b>	Delivery of all inverters to the <i>site</i> .
9.	<b>Delivery of mounting structures to site</b>	Delivery of all mounting structures and associated mounting hardware to the <i>site</i> .
10.	<b>Commissioning</b>	The Facility is energised and successful Grid Connection Test has been passed
11.	<b>Completion</b>	Works have passed all tests, the Certificate of Compliance is issued and the Facility has demonstrated adequate performance to pass the
12.	<b>Training Program</b>	Provide a detail training program as per 3.1.3 Training Plan
13.	<b>Practical Completion</b>	Works have passed all tests, the Certificate of Compliance is issued and the Facility has demonstrated adequate performance. The Engineer / Client issues the Completion Certificate and releases the appropriate retention value.
14.	<b>Submission of final documentation to relevant authority</b>	Submission of final As-built drawings to relevant Authority/Client.
15.	<b>Start of O&amp;M period</b>	<i>Contractor</i> begins operations (monitoring) and maintenance obligations. The Training Programme begins.
16.	<b>Defects date</b>	End of <i>Defects Liability Period</i> in which the <i>Contractor</i> is responsible for the correcting of patent defects.
17.	<b>End of O&amp;M period</b>	The operations and maintenance period is concluded. The Training Programme is also concluded.

17. **SITE FACILITIES AVAILABLE**

Site facilities and any services required by the Contractor shall be negotiated directly with the Local Authority or Client.

The Contractor is responsible for the removal of all waste from the site. This includes rubble, packaging etc.

18. **SITE FACILITIES REQUIRED**

Provision shall be made for a site office and all necessary sheds, etc., for the proper storage of plant, tools equipment and perishable materials. All sheds etc. are to be moved from the site on completion of the services and the area properly cleaned.

The workmen will not be allowed to reside in the existing buildings, neither will temporary housing accommodation be allowed to be erected on the site.

Temporary latrine accommodation must be provided for workmen, kept clean and in sanitary condition and removed from the site on completion of the works.

The position where latrines must be placed, will be indicated by the Local Authority or the Client and the area on which the latrines were situated must be disinfected on removal thereof. Regular inspection of latrines must be carried out by the contractor who will be held responsible for the cleanliness of these latrines.

19. **SITE SECURITY**

The Client provides security services for the site, but the Contractor is to make additional arrangements as necessary for equipment and material for duration of construction.

All Contractor's staff requiring regular access to the site will require access permits and valid identification. The Contractor shall submit to the Client a full list of all staff (including Sub- contractors) who will access the site.

Once a permit is in-hand, Contractor's staff and Sub-contractors' staff may access the site freely weekdays between 7:00 - 18:00. Access outside of these times and on weekends and public holidays will require prior arrangement with the Engineer/Project Manager.

20. **ENVIRONMENTAL MANAGEMENT**

The Contractor is responsible for the removal of all waste from the site. This includes rubble, packaging etc.

21. **ITEMS REQUIRING SPECIAL ATTENTION**

The contractor should at all times adhere to the following as included in Part 5 of the tender document:

- a) Health and Safety Specification
- b) Environmental Management Plan (EMP) - if available

22. **APPLICABLE STANDARDISED AND PARTICULAR SPECIFICATIONS**

The following specifications form part of the contract but are not provided with this document, where these documents contain multiple parts, only the main document will be quoted but all parts remain applicable:

SANS 32:	Internal and/or external protective coatings for steel tubes - Specification for hot dip galvanized coatings applied in automatic plants
SANS 121:	Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods
SANS 1091:	National colour standard
SANS 1200 DA:	Standardised specification for civil engineering construction Section DA: Earthworks (small works)

SANS 1200 LC: Standardised specification for civil engineering construction Section LC: Cable ducts

SANS 1507:	Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)
SANS 10064:	The preparation of steel surfaces for coating
SANS 10142:	The Wiring of Premises
SANS 60502	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV)
SANS 60947	Low-voltage switchgear and controlgear
SANS 62271	High-voltage switchgear and controlgear
SANS 61215	Terrestrial photovoltaic (PV) modules - Design qualification and type approval
SANS 61646	Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval ( <b>Note:</b> This publication has been partially replaced by IEC 61215)
SANS 61724	Photovoltaic system performance
SANS 61730	Photovoltaic (PV) module safety qualification
SANS 62305	Protection against lightning
IEC 60904	Photovoltaic devices

All other applicable SABS, IEC, NRS and BS standards as required by this project.

In addition the Particular Specifications, Telkom and Supply Authority Specifications included under Part 5 of the document, shall apply:

## PART 5

### SPECIFICATIONS

The relevant **National Health Laboratory Services** specifications are as listed below:

- OHS Health and Safety Specification - National Health Laboratory Services EIA  
Environmental Management Programme (EMP) (if applicable)

*These documents will be included in the final contract document to be signed by the client and appointed contractor.*

All relevant **City Power** specifications are as listed below, included:

1. City Power Embedded PV Generation Application Form V2
2. PV Response Letter\_October2016 (CP-ES-EM-02, May 2016)

***All relevant City Power - Specifications as listed below but NOT included in Part 5-Annexure A. These specifications can be made available on request by the Engineer:***

#### **MATERIAL**

3.

#### **INSTALLATION**

4.

#### **DRAWINGS**

5.

#### **INSPECTION FORMS**

6. City Power Embedded PV Generation Commissioning Form

***All relevant Telkom specifications are listed below but NOT included in Part 5. These specifications can be made available on request by the Engineer.***

- 325 Q: Telkom Specification 325Q - Specification for Civil Engineering Works associated with the Installation of Underground Telephone Plant

**PART 5**

**DATA SHEETS AND BILL OF QUANTITIES**

**DATA SHEETS**

No tender for any equipment will be accepted unless the schedules have been completed where applicable. Delivery dates must be considered to determine the completion period of the contract.

Missing information must be provided for the specified equipment offered or for any alternative which the Tenderer might like to offer. When an alternative is offered the comparative prices must be given but, only the cost of the specified items must be transferred to the Bill of Quantities.

**1. CONDITIONS**

ITEM NO	DESCRIPTION	UNIT	SPECIFIED	ALTERNATIVE
1.1	<b>ENVIRONMENT</b>			
1.1.1	Ambient air temperature range	°C	±2°C to +27°C	
1.1.2	Average humidity	%	30-50%	
1.1.3	Altitude	m	±1 634	
1.1.4	Degree of pollution (SANS 60815)		M	
1.1.5	(L/M/H/VH )			
1.1.6	Application area Ventilation method (if applicable)		Outdoor Natural	
1.2	<b>POWER SYSTEM</b>			
1.2.1	Number of phases		3	
1.2.2	Normal power frequency	Hz	50	
1.2.3	Nominal system voltage	V	400/230	
1.2.4	System voltage range	pu		
1.2.5	System earthing (Effective/Non effective)		E	
1.2.6	System fault levels:			
	(1 ☐)	kA		
	(3 ☐)	kA		
1.2.7	Network characteristics (O/H or U/G)		U/G	
1.3	<b>ADDITIONAL INFORMATION:</b>			

## 2. PHOTOVOLTAIC (PV) MODULES

ITEM NO	DESCRIPTION	UNIT	SPECIFIED	ALTERNATIVE
2.1	Approved Manufacturer/s		Canadian Solar First Solar HT SAAE JA Solar JinkoSolar Risen Energy Co. SunPower Corp Trina Solar Longi Solar Seraphim	
2.2	Approved Technologies		Monocrystalline silicon PERC ( <i>Passivated Emitter and Rear Cell</i> ) Half-Cut Cells	
2.3	<b>DELIVERY PERIOD</b>			
2.4	<b>ADDITIONAL INFORMATION:</b>			

## 3. INVERTERS

ITEM NO	DESCRIPTION	UNIT	SPECIFIED	ALTERNATIVE
3.1	Approved Manufacturer/s		Enphase Delta Fronius Goodwe Huawei KACO Schneider SMA SolarEdge Victron Energy	
3.2	Safety Requirements		IEC 62109	
3.3	Anti-islanding Requirements		IEC 62116	
3.4	<b>DELIVERY PERIOD</b>			
3.5	<b>ADDITIONAL INFORMATION:</b>			

--	--	--	--	--

## SCHEDULE OF QUANTITIES

- 1.0 The general conditions of contract, the special conditions of contract (if any), the specifications (including the project specification) and the drawings are to be read in conjunction with the schedule of quantities.
- 2.0
- a) The schedule comprises items covering the Contractor's profit and costs of general liabilities and of the construction of temporary and permanent works.
  - b) The Tenderer is at liberty to insert a rate of his own choosing for each item in the schedule and his attention is drawn to the fact that the Contractor has the right, under various circumstances, to payment for additional works carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates inserted in the schedule by the Contractor.
  - c) Clause 8 of each standardised specification and the measurement and payment clause of each particular specification, read together with the relevant clauses of the project specification, set out what ancillary or associated activities are included in the rates for the operations specified.
- 3.0 Descriptions in the schedule of quantities are abbreviated. **Should any requirement of the measurement and payment clause of the applicable standardised specification, or the project specification, or the particular specification(s) conflict with the terms of the schedule, the requirement of the standardised, project or particular specification, as applicable, shall prevail.**
- 4.0 Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made for waste.
- 5.0 The prices and rates to be inserted in the schedule of quantities are to be the full inclusive prices to the Employer for the work described under the several items, **value added tax excluded**. Such prices shall cover all costs and expenses that may be required in and for the construction 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.
- 6.0 A price or rate is to be entered against each item in the schedule 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 schedule.
- 7.0 The Tenderer must price each item in the schedule of quantities in **BLACK INK**.
- 8.0 **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 schedule of quantities

## 5 MANDATORY REQUIREMENTS

**If a bidder does not comply fully with each of the mandatory requirements, it shall be regarded as mandatory non-performance/non-compliance and the bid shall be disqualified. No "unanswered" questions will be allowed. If a response to a question has been indicated as comply but not elaborated upon or substantiated it shall be regarded as mandatory non-performance/non-compliance and the bid shall be disqualified.**

**Bidders shall provide full and accurate answers to the mandatory questions posed in this document, and, where required, explicitly state either "Comply/Accept (with a "Yes")" or "Do not comply/do not accept (with a "No")" regarding compliance to the requirements. Bidders must substantiate their responses to all mandatory questions. PLEASE NOTE: If the response does not substantiate any of the points or requirements**

in the body of the tender, it will be deemed to not comply, even if the 'Comply' field has been marked. Please note: All documentation to substantiate the mandatory requirements has to be supplied.

**5.1 Technical Suitability: Mandatory Requirements**

Bidders must provide details and registration confirmation with CIDB in terms of the CIDB Act 38 of 2000. Provide proof of grading level <b>7 EB /EP or Higher</b> .	<b>Comply</b>	<b>Not Comply</b>
<b>Substantiate:</b> The bidder must provide a proof of CIDB grading level. Failure to provide information will lead to disqualification.		

**5.2 Technical Suitability: Mandatory Requirements**

The Service Provider must have an experienced Project Manager who is registered with Project Management Professional body:	<b>Comply</b>	<b>Not Comply</b>
<b>Substantiate:</b> The bidder must provide a proof of registration by attaching a certified copy of the Certificate. Failure to provide information will lead to disqualification.		

**5.3 Technical Suitability: Mandatory Requirements**

3. Bidders must have a certified <b>Electrical Engineer</b> with a valid PR number (issued by Engineering Council of South Africa ECSA)	<b>Comply</b>	<b>Not Comply</b>
<b>Substantiation:</b> The bidder must attach a certified copy of a certificates with a valid PR number (issued by Engineering Council of South Africa ECSA). Failure to provide information will lead to disqualification.		

**5.4 Technical Suitability: Mandatory Requirements**

4. Bidders must have a certified <b>Structural Engineer</b> with a valid PR number (issued by Engineering Council of South Africa ECSA)	<b>Comply</b>	<b>Not Comply</b>
<b>Substantiation:</b> The bidder must attach a certified copy of a certificates with a valid PR number (issued by Engineering Council of South Africa ECSA). Failure to provide information will lead to disqualification.		

**5.5 Technical Suitability: Mandatory Requirements**

	<b>Comply</b>	<b>Not Comply</b>
--	---------------	-------------------

5. Provide a wiremen’s licence certificate of the <b>Electrician</b> in <b>your organization or subcontractor</b> to issue an electrical COC (certification of compliance)		
--	--	--

<b>Substantiate:</b> The bidder must provide valid certified copy of a <b>wiremen’s licence certificate</b> . Failure to provide information will lead to disqualification.
---

**6 TECHNICAL FUNCTIONALITY**

- 6.1 The bidder **must complete in full all of the TECHNICAL FUNCTIONALITY requirements.**
- 6.2 The bidder **must provide a unique reference number** (e.g. binder/folio, chapter, section, page) to locate substantiating evidence in the bid response. During evaluation, NHLS reserves the right to treat substantiation evidence that cannot be located in the bid response as “NOT COMPLY”.

**Evaluation per requirement.** The evaluation (scoring) of bidders’ responses to the requirements will be determined by the completeness, relevance and accuracy of substantiating evidence.

**Weighting of requirements:** The full scope of requirements will be determined by the following weights:

Evaluation Criteria	Weight %
<b>Supply and Installation of a Solar PV Installation at Sandringham Campus.</b>	<b>100%</b>
<p><b><u>COMPANY EXPERIENCE:</u></b></p> <p>Demonstrate experience in supply, installation and commissioning of a <b>1 MW or more</b> Solar PV Installation.</p> <p>Bidder must provide reference letters for successfully completed projects:</p> <ul style="list-style-type: none"> <li>➤ 5 reference letters = <b>40</b></li> <li>➤ 4 reference letters = <b>30</b></li> <li>➤ 3 reference letters = <b>20</b></li> <li>➤ 2 reference letters = <b>10</b></li> <li>➤ 1 reference letter = <b>0</b></li> </ul> <p><b>NB!</b> The duly signed reference letter with client’s letterhead must indicate Start date and completion date, company name and physical address, contactable person name, company contact number and email address) that similar work was done by your company.</p>	40%
<p><b><u>KEY STAFF:</u></b></p> <p>Demonstrated experience of assigned key staff with experience in (supply, installation and commissioning of a <b>1 MW or more</b> Solar PV Installation)</p> <p>Attach relevant CV’s accompanied by copies of trade certificates of electricians.</p> <ul style="list-style-type: none"> <li>➤ 6 or more years’ post trade experience in electrical works and/or solar system = <b>30</b></li> <li>➤ 4-5 years’ post trade experience in electrical works and/or solar system = <b>20</b></li> <li>➤ 2-3 –years’ post trade experience in electrical works only = <b>10</b></li> </ul>	30%

Evaluation Criteria	Weight %
<b>Supply and Installation of a Solar PV Installation at Sandringham Campus.</b>	<b>100%</b>
<p><b>COMPANY VEHICLE:</b></p> <p>At least 2 Company Vehicles for transporting of goods, material and staff assigned to this project (provide copies of vehicle registration certificates in Company or Director’s name or lease agreement in case vehicles are not owned by the company)</p> <ul style="list-style-type: none"> <li>➤ 2 x Working Vehicles = <b>20</b></li> <li>➤ 1 x Working Vehicle = <b>15</b></li> </ul>	20%
<b>TOTAL</b>	<b>100</b>

**Minimum threshold:** To be eligible to proceed to the next stage of the evaluation the bid must achieve a minimum threshold score of **80%**.

**ANNEXURE B: Pricing Schedule**

Please indicate your total bid price here: R \_\_\_\_\_ (inclusive of all applicable taxes, e.g. VAT)

**Important:**

**It is mandatory to indicate your total bid price as requested above. This price must be the same as the total bid price you submit in your pricing schedule. Should the total bid prices differ, the total bid price indicated above shall be considered the correct price.**

**The following must be noted:**

1. All prices must be VAT inclusive of all applicable taxes and must be quoted in South African Rand (ZAR).
2. All prices must be firm and fixed from the tender closing date and for the duration of the contract
3. All the consortium or joint venture partners must submit a complete set of the latest audited financial statements.
4. All bidders must cost according to the costing template provided or this will lead to disqualification.

5.

The cost of installation, delivery, site preparation etc. Must be included in this proposal.	Comply	Do Not comply
Substantiate / Comments		

6.

No price adjustments that are 100% linked to exchange rate variations shall be allowed.	Comply	Do Not comply
Substantiate / Comments		

7.

The bidder must indicate <b>clearly</b> which portion of the purchase price as well as the monthly costs is linked to the exchange rate.	Comply	Do Not comply
Substantiate / Comments		

8.

All additional costs must be clearly specified.	Comply	Do Not comply
Substantiate / Comments		

**PRICING SCHEDULE – FIRM PRICES  
(PURCHASES)**

**NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED**

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT**

Name of bidder: _____  Bid number: <b>RFB013/22/23 Closing Time 11:00 am Closing date: 17 MARCH 2023</b>  Bid Price (Vat incl.) R_____
--

OFFER TO BE VALID FOR **120 DAYS** FROM THE CLOSING DATE OF BID.

ITEM	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY
<b>NO.</b>			<b>** (ALL APPLICABLE TAXES INCLUDED)</b>
-	<b>Required by:</b>		_____
-	<b>At:</b>		_____ _____
-	<b>Brand and model</b>		_____
-	<b>Country of origin</b>		_____
-	<b>Does the offer comply with the specification(s)?</b>	<b>*YES/NO</b>	
-	<b>If not to specification, indicate deviation(s)</b>		_____
-	<b>Period required for delivery</b>		_____ <b>*Delivery: Firm/not firm</b>
-	<b>Delivery basis</b>		_____

**Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.**

**\*\* "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.**

**Bidders *must* provide the NHLS with costing information for a 5 years' contract duration. The bid price quoted must be inclusive as per the scope of work.**

**Note:**

- a) Bidder must complete the pricing as per tables below.
- b) Prices must be provided in South African Rand (R).
- c) Bidder to ensure that the Prices listed below are included on the Total Declared Price.
- d) Bidders who fail to price according to the costing template provided will be disqualified.

Please indicate the costs related to placing and servicing of the instrument: Ensure that this cost is included in the total bid price, failure to include this cost will lead into bidder being disqualified.

Costs are to be provided in South African Rand.

**For Pricing please refer to the attached separate Price Template (Annexure C1). Price according to the price template provided.**

**PRICE DECLARATION FORM**

Dear Madam /Sir,

Having read through and examined the Tender Document, **RFB013/22/23**, General Conditions, the requirement and all other Annexures to the Tender Document, we offer to provide **Supply and installation of a complete Solar System with panels at Sandringham Campus** as detailed in the bid document, for the total Tendered Contract Sum of in:

\_\_\_\_\_ (VAT Incl.) Amount in Words  
R \_\_\_\_\_ (VAT Incl.) Amount in Numbers

We confirm that this price covers all activities associated with **RFB013/22/23: Supply and installation of a complete Solar System with panels at Sandringham Campus** but not limited to the supply of all required, for the **Supply and installation of a complete Solar System with panels at Sandringham Campus**. We confirm that NHLS will incur no additional costs whatsoever over and above this amount in connection with the supply of this solution.

We further confirm that all licences required for complete implementation of the solution, and the costs associated therewith, as well as any licences that may be required for future expansion have been fully described and disclosed in this document.

We undertake to hold this offer open for acceptance for a period of **120 days** from the date of submission of offers. We further undertake that upon final acceptance of our offer, we will commence with delivery when required to do so by the Client.

Moreover, we agree that until formal Contract Documents have been prepared and executed, this Form of Tender, together with a written acceptance from the Client shall constitute a binding agreement between us, governed by the terms and conditions set out in this Request for Proposals.

We understand that you are not bound to accept the lowest or any offer and that we must bear all costs which we have incurred in connection with preparing and submitting this tender.

We hereby undertake for the period during which this tender remains open for acceptance not to divulge to any persons, other than the persons to which the tender is submitted, any information relating to the submission of this tender or the details therein except where such is necessary for the submission of this tender.



**SIGNED:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Print name of signatory)** \_\_\_\_\_

**Designation** \_\_\_\_\_

**FOR AND ON BEHALF OF:** COMPANY NAME \_\_\_\_\_

Tel No \_\_\_\_\_

Fax No \_\_\_\_\_

Cell No \_\_\_\_\_

**ANNEXURE C: Bidder’s Disclosure (SBD4)**

---

**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 interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of State institution

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

2.2.1 If so, furnish particulars:  
 .....  
 .....

---

<sup>1</sup> 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.

2.3 Does the bidder or any of its directors / trustees / shareholders / members / 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 consortium<sup>2</sup> 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.
- 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.
- 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)

---

<sup>2</sup> 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.



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

**ANNEXURE D: Preferential Procurement Claim Form (SBD6.1)**

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022**

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

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

**1 GENERAL CONDITIONS**

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

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

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

*(delete whichever is not applicable for this tender).*

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

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

- a) Price; and
- b) Specific Goals.

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

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

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

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

organ of state.

## 2 DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

## 3 FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

### 3.1. POINTS AWARDED FOR PRICE

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

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

#### 80/20

$$Ps = 80 \left( 1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

### 3.2.1. POINTS AWARDED FOR PRICE

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

**80/20**

$$Ps = 80 \left( 1 + \frac{Pt - Pmax}{Pmax} \right)$$

Where

- Ps = Points scored for price of tender under consideration  
 Pt = Price of tender under consideration  
 Pmax = Price of highest acceptable tender

## 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

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

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
<p><b>a) Historically Disadvantaged Individuals</b></p> <p>(Means a South African citizen who, due to the apartheid policy that had been in place, had no franchise in national elections prior to the introduction of the Constitution of the Republic of South Africa, 1983 (Act No. 110 of 1983) or the Constitution of the Republic of South Africa, 1993 (Act No. 200 of 1993) ("The Interim Constitution</p>	5	
<b>Women</b>	5	
<b>Disabled</b>	0	
<b>Youth</b>	5	
<p><b>b) Location:</b></p> <ul style="list-style-type: none"> <li>• City of Johannesburg = 0</li> <li>• Gauteng Province = 5</li> <li>• National = 0</li> </ul>	5	
<ul style="list-style-type: none"> <li>• The promotion of enterprises located in a <b>specific province</b> for work to be done or services to be rendered in that province (e.g. Gauteng Province)</li> </ul> <p><b>Substantiation: Please provide municipal account/statement or lease agreement</b></p>		
<ul style="list-style-type: none"> <li>• The promotion of enterprises located in a <b>specific region</b> for work to be done or services to be rendered in that region</li> </ul> <p><b>Substantiation: Please provide municipal account/statement or lease agreement</b></p>		
<ul style="list-style-type: none"> <li>• The promotion of enterprises located in a <b>specific municipal area</b> of work to be done or services to be rendered in that</li> </ul>		

municipal area (e.g. City of Johannesburg)  <b>Substantiation: Please provide municipal account/statement or lease agreement</b>		
--	--	--

**DECLARATION WITH REGARD TO COMPANY/FIRM**

4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

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

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining

- business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

	.....
	<b>SIGNATURE(S) OF TENDERER(S)</b>
<b>SURNAME AND NAME:</b>	.....
<b>DATE:</b>	.....
<b>ADDRESS:</b>	.....
	.....
	.....
	.....

**SWORN AFFIDAVIT: B-BBEE QUALIFYING SMALL ENTERPRISE: GENERAL**

I, the Undersigned

<b>Full Name and Surname:</b>	
<b>Identity Number:</b>	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

<b>Enterprise Name:</b>	
<b>Trading (if applicable):</b>	
<b>Enterprise Physical Address:</b>	
<b>Type of Entity (CC, Pty Ltd, Sole Prop etc.)</b>	
<b>Nature of Business:</b>	
<b>Definition of "Black People":</b>	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –</p> <ol style="list-style-type: none"> <li>a. Who are citizens of the Republic of South Africa by birth or descent; or</li> <li>b. Who became citizens of the Republic of South Africa by naturalization-             <ol style="list-style-type: none"> <li>i. Before 27 April 1994; or</li> <li>ii. On or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date</li> </ol> </li> </ol>

3. I hereby declare under Oath that:
  - The Enterprise is \_\_\_\_\_% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.
  - The Enterprise is \_\_\_\_\_% Black Woman Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.
  - The Enterprise is \_\_\_\_\_% Black Designated Group Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.

- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of \_\_\_\_\_, the annual Total Revenue was between R10,000,000.00 (Ten Million Rands) and R50,000,000.00 (Fifty Million Rands).
- Please confirm on the table below the B-BBEE level contributor, by ticking the applicable box.

<b>100% Black Owned</b>	Level One (135% B-BBEE procurement recognition level)	
<b>At least 51% Black Owned</b>	Level Two (125% B-BBEE procurement recognition level)	

4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

**Deponent Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

---

**Commissioner of Oaths**

**Signature and Stamp**

**SWORN AFFIDAVIT: B-BBEE QUALIFYING MICRO ENTERPRISE: GENERAL**


---

I, the Undersigned

<b>Full Name and Surname:</b>	
<b>Identity Number:</b>	

Hereby declare under oath as follows:

- The contents of this statement are to the best of my knowledge a true reflection of the facts.
- I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

<b>Enterprise Name:</b>	
<b>Trading (if applicable):</b>	
<b>Enterprise Physical Address:</b>	
<b>Type of Entity (CC, Pty Ltd, Sole Prop etc.)</b>	
<b>Nature of Business:</b>	
<b>Definition of "Black People:</b>	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –</p> <p>c. Who are citizens of the Republic of South Africa by birth or descent; or</p> <p>d. Who became citizens of the Republic of South Africa by naturalization-</p> <p>iii. Before 27 April 1994; or</p> <p>iv. On or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date</p>

- I hereby declare under Oath that:
  - The Enterprise is \_\_\_\_\_% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.
  - The Enterprise is \_\_\_\_\_% Black Woman Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.
  - The Enterprise is \_\_\_\_\_% Black Designated Group Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013.
  - Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of \_\_\_\_\_, the annual Total Revenue was between R10,000,000.00 (Ten Million Rands) or less.

- Please confirm on the table below the B-BBEE level contributor, by ticking the applicable box.

<b>100% Black Owned</b>	<b>Level One</b> (135% B-BBEE procurement recognition level)	
<b>At least 51% Black Owned</b>	<b>Level Two</b> (125% B-BBEE procurement recognition level)	
<b>Less than 51% Black Owned</b>	<b>Level Four</b> (100% B-BBEE procurement recognition level)	

- I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.
- The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

**Deponent Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

\_\_\_\_\_  
**Commissioner of Oaths**

**Signature and Stamp**

## **ANNEXURE E: Government Procurement: General Conditions of Contract – July 2011**

---

### **NOTES**

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government Bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

☒ The GCC will form part of all bid documents and may not be amended.

☒ Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the GCC. Whenever there is a conflict, the provisions in the SCC shall prevail.

### **TABLE OF CLAUSES**

1. Definitions
2. Application
3. General
4. Standards
5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
9. Packing
10. Delivery and documents
11. Insurance
12. Transportation
13. Incidental services
14. Spare parts
15. Warranty
16. Payment
17. Prices
18. Contract amendments
19. Assignment
20. Subcontracts
21. Delays in the supplier's performance
22. Penalties
23. Termination for default

24. Dumping and countervailing duties
25. Force Majeure
26. Termination for insolvency
27. Settlement of disputes
28. Limitation of liability
29. Governing language
30. Applicable law
31. Notices
32. Taxes and duties
33. National Industrial Participation Programme (NIPP)
34. Prohibition of restrictive practices

### **General conditions of contract**

#### **1. Definitions**

The following terms shall be interpreted as indicated:

- 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of Bids.
- 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
- 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
- 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 "Day" means calendar day.
- 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
- 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
- 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

- 1.12 “Force majeure” means an event beyond the control of the supplier and not involving the supplier’s fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 “GCC” means the General Conditions of Contract.
- 1.15 “Goods” means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 “Imported content” means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 “Local content” means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 “Manufacture” means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 “Order” means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 “Project site,” where applicable, means the place indicated in bidding documents.
- 1.21 “Purchaser” means the organisation purchasing the goods.
- 1.22 “Republic” means the RSA.
- 1.23 “SCC” means the Special Conditions of Contract.
- 1.24 “Services” means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25 “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.

## **2. Application**

- 2.1 These general conditions are applicable to all Bids, contracts and orders including Bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, SCC are also laid down to cover specific supplies, services or works.
- 2.3 Where such SCC are in conflict with these general conditions, the special conditions shall apply.

### **3. General**

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from [www.treasury.gov.za](http://www.treasury.gov.za)

### **4. Standards**

- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

### **5. Use of contract documents and information; inspection**

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

### **6. Patent rights**

- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

### **7. Performance security**

- 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:

- 7.3.1 a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
- 7.3.2 a cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

## **8. Inspections, tests and analyses**

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

## **9. Packing**

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

## **10. Delivery and documents**

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 10.2 Documents to be submitted by the supplier are specified in SCC.

## **11. Insurance**

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

## **12. Transportation**

- 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

## **13. Incidental services**

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- 13.1.1 performance or supervision of on-site assembly and/or commissioning of the supplied goods;
  - 13.1.2 furnishing of tools required for assembly and/or maintenance of the supplied goods;
  - 13.1.3 furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
  - 13.1.4 performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
  - 13.1.5 training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

#### **14. Spare parts**

- 14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- 14.1.1 such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- 14.1.2 in the event of termination of production of the spare parts:
- 14.1.2.1 Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
- 14.1.2.2 following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

#### **15. Warranty**

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

#### **16. Payment**

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in rand unless otherwise stipulated in SCC.

**17. Prices**

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorised in SCC or in the purchaser's request for bid validity extension, as the case may be.

**18. Contract amendments**

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

**19. Assignment**

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

**20. Subcontracts**

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

**21. Delays in the supplier's performance**

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity

in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

## **22. Penalties**

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

## **23. Termination for default**

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

23.1.1 if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;

23.1.2 if the Supplier fails to perform any other obligation(s) under the contract; or

23.1.3 if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- 23.6.1 the name and address of the supplier and / or person restricted by the purchaser;
  - 23.6.2 the date of commencement of the restriction
  - 23.6.3 the period of restriction; and
  - 23.6.4 the reasons for the restriction.
- 23.7 These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.
- 23.8 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

#### **24. Anti-dumping and countervailing duties and rights**

- 24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.

#### **25. Force majeure**

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

#### **26. Termination for insolvency**

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

## **27. Settlement of disputes**

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,

27.5.1 the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and

27.5.2 the purchaser shall pay the supplier any monies due the supplier.

## **28. Limitation of liability**

28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6;

28.1.1 the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

28.1.2 the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

## **29. Governing language**

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

## **30. Applicable law**

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

## **31. Notices**

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
- 32. Taxes and duties**
- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the SARSs.
- 33. National Industrial Participation (NIP) Programme**
- 33.1 The NIP Programme administered by the DTI shall be applicable to all contracts that are subject to the NIP obligation.
- 34. Prohibition of restrictive practices**
- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.
- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

**The above General Conditions of Contract (GCC) are accepted by:**



<b>Name:</b>	
<b>Designation:</b>	
<b>Bidder:</b>	
<b>Signature:</b>	
<b>Date:</b>	