



NATIONAL HEALTH LABORATORY SERVICE

REQUEST FOR QUOTATION (RFQ)

RFQ NO: 1971944

DESCRIPTION: APPOINTMENT OF AN ELECTRICAL CONTRACTOR FOR THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS EASTERN CAPE MADWALENI HOSPITAL, 1 MQANDULI ROAD, ELLIOTDALE, 5070.

ISSUED BY:

SUPPLY CHAIN MANAGEMENT
NATIONAL HEALTH LABORATORY SERVICE
PORT ELIZABETH
PROCUREMENT OFFICE

PREPARED BY:

SUPPLY CHAIN MANAGEMENT
NATIONAL HEALTH LABORATORY SERVICE
PORT ELIZABETH
PROCUREMENT OFFICE

Quotation Queries:

CONTACT NAME: PROCUREMENT OFFICE

E-MAIL ADDRESS:

Procurement.ec@nhls.ac.za

Technical Queries:

CONTACT NAME: FACILITIES OFFICE

E-MAIL ADDRESS:

mookeletsi.manyathela@nhs.ac.za

NAME OF A BIDDER:.....

CLOSING DATE: 21 NOVEMBER 2025 AT 11:00

QUOTATION VALIDITY PERIOD: The quotation validity period is 90 days.

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1. SBD 1 PART A INVITATION TO BID

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE NATIONAL HEALTH LABORATORY SERVICE (NHLS)							
BID NUMBER:	RFQ NO: 1971944	CLOSING DATE: 21 NOVEMBER 2025			CLOSING TIME:	11:00AM	
DESCRIPTION	APPOINTMENT OF AN ELECTRICAL CONTRACTOR FOR THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS EASTERN CAPE MADWALENI LABORATORY						
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)							
NATIONAL HEALTH LABORATORY SERVICES CORNER BUCKINGHAM & WESTBOURN ROAD							
PORT ELIZABETH, 6001							
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO				TECHNICAL ENQUIRIES MAY BE DIRECTED TO:			
CONTACT PERSON	ZIPHOZIHLE CEZA			CONTACT PERSON	MOOKELETSI MANYATHELA		
E-MAIL ADDRESS	procurement.ec@nhls.ac.za			E-MAIL ADDRESS	mookeletsi.manyathela@nhls.ac.za		
SUPPLIER INFORMATION							
NAME OF BIDDER							
POSTAL ADDRESS							
STREET ADDRESS							
TELEPHONE NUMBER	CODE				NUMBER		
CELLPHONE NUMBER							
FACSIMILE NUMBER	CODE				NUMBER		
E-MAIL ADDRESS							
VAT REGISTRATION NUMBER							
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		O R	CENTRAL SUPPLIER DATA BASE No:	MAAA		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX]		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX]		
	Yes	No			Yes	No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]							

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ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	Yes No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	Yes No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
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QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO ☐
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	YES NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	YES NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	YES NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	YES NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.	
	☐ ☐
	☐ ☐

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

2. TERMS AND CONDITIONS OF REQUEST FOR QUOTATION (RFQ)

- a) This document may contain confidential information that is the property of the NHLS and the Client.
- b) 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 RFQ, without prior written permission from NHLS and the Client.
- c) All Copyright and Intellectual Property herein vests with NHLS and its Client.
- d) Late and incomplete submissions will not be accepted.
- e) SDB 7 (form of offer) must be completed, and should the total RFQ prices differ, the one indicated on the form of offer shall be considered the correct price.
- f) Any bidder who has reasons to believe that the RFQ specification is based on a specific brand must inform NHLS before RFQ closing date
- g) Bidders are required to submit a valid Tax Clearance Certificate and Tax clearance verification PIN, Failure to submit the Tax Pin and valid Tax Clearance Certificate will result in the invalidation of this RFQ.
- h) It is the responsibility of the bidder to ensure that NHLS is in possession of the bidder's valid Tax Clearance certificate. The onus is on the bidder to ensure that NHLS receives a valid Tax Certificate as soon as the validity of the said certificate expires.
 - **A compulsory clarification site meeting: No compulsory briefing session but Bidders are advised to visit the laboratories site for accurate quoting.**

The bidder shall inspect and examine the Site and its surroundings and shall satisfy himself/herself before submitting his/her quotation. The bidder must be represented at the site inspection by a person who is suitably qualified and experiences to comprehend the implications of the work involved.
 - The contractor will be responsible for final measurements.
- i) Writing must be in block letters and black ink.
- j) Quotation procedure using the two (2) stage system will apply: **Not applicable.**
- k) Respondents arriving after the allocated time of the briefing session and failing to attend the compulsory RFQ/Site briefing will be disqualified
- l) No services must be rendered or goods delivered before an official NHLS Purchase Order form has been received.
- m) This RFQ will be evaluated in terms of the 80/20 preference point system prescribed by the Preferential Procurement Regulations, 2022.
- n) All questions regarding this RFQ must be forwarded to the procurement.ec@nhls.ac.za 24 hours prior the RFQ closing date.
- o) The General Conditions of Contract (GCC) issued by National Treasury are applicable.
- p) In case of bids where Consortia / Joint Ventures, Consortia/Joint Venture agreement signed by both parties must be submitted with bid proposal. Each JV partner must submit all their mandatory documentation.

Quotation must be All-Inclusive

- i. The Supplier shall allow in the quotation for all deliverables as stipulated in the scope, labour, material, consumables, accessories, software, supervision, overhead costs, profit, royalties, all taxes, levies, duties, variations in exchange rates (if applicable), disbursements and everything necessary for the execution and completion of the works in accordance with the quotation documents.

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- ii. Value Added Tax (VAT) shall be excluded from the rates and prices and provided for as the total VAT on the cost of the Works in the Summary of Schedule of Rates and Prices.
- iii. The Supplier rates and prices shall be fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract.
- iv. The offer must be in ZAR currency.
- v. The NHLS reserve the right to do due diligence on the quotations and to benchmark prices quoted.
- vi. Quotes should be submitted on an official letterhead and duly signed.

Delays in the supplier's performance

- i. 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.
- ii. 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.
- iii. 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.
- iv. 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 22.2 without the application of penalties.
- v. 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 Functionality 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.

Objective Criteria limit of active NHLS projects- Preferential Procurement Regulations S21f of 2022

- According to the Preferential Procurement Policy Framework Act (PPPFA), 2000: Preferential Procurement Regulations, 2022
- The bid will be awarded subject to section 2(1)(f) of the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000). Section 2 (1)(f) of the Act states that "the contract must be awarded to the bidder who scores the highest points, unless objective criteria in addition to those contemplated in paragraph (d) and (e) justify the award to another bidder".
- The NHLS will evaluate the **past performance** of the bidder by assessing the completed project awarded in the past within the NHLS as an **objective criteria**.

Schedule of work carried out by the bidder at NHLS

The bidder must indicate in the table below a complete list of contracts awarded by the NHLS, including the current contracts, if any. **This information shall be deemed to be material to the award of this bid. If the bidder has three (3) or more projects that are not completed within the NHLS, the NHLS will justify the award to another tenderer. Failure to disclose the information required will lead to disqualification.**

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MADWALENI LABORATORY**

No	Description of contract	Contract Amount (R)	Duration of the contract/projects (Start and end date)	Project completed (Yes/No) If yes, attach the completion certificate	Contact person and contact number
1					
2					
3					
4					
5					
6					
7					

NB: If three or more projects are not completed within the NHLS, the NHLS will justify the award to another bidder

Signature of the person authorized to sign the Bid: _____

Date: _____

Penalties

- i. 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.

**FOR HAND DELIVERIES OF RESPONSES, PLEASE SUBMIT THE RFQ DOCUMENT TO NHLS
RFQ BOX, NO:1 MODDERFONTEIN ROAD, SANDRINGHAM.**

The Bidder accepts the above terms and conditions and the General Conditions of Contract on NHLS website as per hyperlink GCC Document or visit NHLS website https://www.nhls.ac.za/supply-chain/ , click on supply chain management tab then select General Conditions of Contract	Accept	Do not accept

3. SUBMISSION DATA

Clause number	Submission Data
	This Request for quotation is intended to allow the successful bidder to specify and present their skills and expertise for the above-mentioned services to CIDB. Final acceptance of any quotation is not guaranteed, this being the exclusive right of CIDB. Terms and conditions of expression of interest (Annex D as published/ amended by CIDB in August 2019) contained in Annex D of the CIDB Standard for Uniformity in National Health Laboratory Services (August 2019) as published in Government Gazette No 42622, Board Notice 423 of 2019 of 08 August 2019. (See www.cidb.org.za). The standard conditions of expression of interest for procurements make several references to the submission data for details that apply specifically to this quotation. The submission data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of bid . Each item of submission data given below is cross-referenced to the clause in the standard conditions of bidder to which it mainly applies.
A.1.1	The employer is the NHLS
B.1.2	For this contract, the following documents will be adopted: The single volume procurement document issued by the employer comprises of the following: The Request for quotation Part A 1: Bidding procedures A 1.1 - Notice and invitation to Submit Proposal B 1.2 - Submission data Part B.2: Returnable documents B.2.1 - List of returnable documents B.2.2 – Mandatory documents and Technical Part C2 - Pricing Data C2.1 – Bill of Quantity (BOQ)
C.1.4	The Employer's agent for the purpose of this quotation is deemed to be the authorised and designated representative of the Employer: Name: Procurment Office E-mail Address: procurement.ec@nhls.ac.za
C1.5	Cancellation and Re-Invitation of Bids

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C.1.5.1	An employer may, prior to the award of the RFQ, cancel a RFQ if- a) due to changed circumstances, there is no longer a need for the NHLS Standard spec b) funds are no longer available to cover the total envisaged expenditure; or
	c) no acceptable bids are received. d) there is a material irregularity in the bidder process.
C.1.5.2	The decision to cancel request for quotation must be published in the same manner in which the original request for quotation was advertised
C.1.5.3	An employer may only with the prior approval of the relevant treasury cancel request for quotation invitation for the second time.
D.1.6	Procurement procedures
D.1.6.1	Unless otherwise stated in the submission data, a contract will, subject to E.3.13, be concluded with the bidder who in terms of E.3.11 is the highest ranked or the bidder scoring the highest number of RFQ evaluation points, as relevant, based on the RFQ submissions that are received at the closing time for RFQ.
D.2.	Competitive negotiation procedure
D.2.1	All responsive bidders or at least a minimum of not less than three responsive bidders that are highest ranked in terms of the evaluation criteria stated in the submission data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information. Notwithstanding the provisions of E.2.17, the employer may request that bids be clarified, specified and fine-tuned in order to improve a bidder's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.
D.2.3	At the conclusion of each round of negotiations, bidders shall be invited by the employer to revise their bidder offer based on the same evaluation criteria, with or without adjusted weightings. Bidders shall be advised when they are to submit their best and final offer.
D.2.4	The contract shall be awarded in accordance with the provisions of E.3.11 and E.3.13 after bidders have been requested to submit their best and final offer.
E.2	Bidder's obligations

E.2.1	Eligibility Only those bidders who satisfy the following criteria are eligible to submit bid s: a) CIDB registration Only bidders who are already registered in terms of the Construction Industry Development Regulations 25(2) in cidb grading designation 2EB or higher are eligible to submit quotation. For the sake of clarity and subject to satisfactory proof of a bid er's ability to perform the work specified at the bid ed value, the Employer lists in the table below the margins it considers reasonable. However, in the event that the sum bid ed exceeds the margins shown then such bidder shall be deemed non-responsive.
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	Category of bidder	Upper limits per CIDB Regulation 17	Employer's allowable margins
	1	R0.5 m	The Employer will use its discretion in terms of CIDB Practice Note 3 on allowable margins to be accepted
	2	R1.0 m	
	3	R3.0 m	
	4	R6.0 m	
	5	R10.0 m	
	6	R20.0 m	
	7	R60.0 m	
	8	R200.0 m	

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E.2.2	Only those bidders who satisfy the following eligibility criteria are eligible to submit bids: (a) Availability of resources (b) Availability of skills to manage and perform the contract (c) Previous experience on contracts of a similar value and nature (d) A letter on the companies' letterhead stating that the contractor has sufficient capacity to execute the project (e) Material Data Sheet
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E.2.	Cost of Bidding
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E.2.1	The Employer will not compensate the bidder for any costs incurred in attending interviews or making any submissions in the office of the Employer
E.2. 3	The cost of the bidder documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the bidder documents on its website so as not to incur any costs pertaining to the printing of the RFQ documents.
F.3.1	Check documents Check the bidder documents on receipt for completeness and notify the employer of any discrepancy or omission.
F.4.1.	Confidentiality and copyright of documents Treat as confidential all matters arising in connection with the RFQ, Use and copy the documents issued by the employer only for the purpose of preparing and submitting a RFQ response to the invitation.
F.4.2	Acknowledge addenda Acknowledge receipt of addenda to the bidder documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the RFQ submission data, in order to take the addenda into account.
F.4.3	Clarification meeting A compulsory clarification meeting with representatives of the Employer Bidder must sign the attendance list in the name of the bidding entity. Addendum will be issued to the bidders only from those bidding entities appearing on the attendance list.
F.4.4	Seek clarification Request clarification of the bidder documents, if necessary, by notifying the employer at least five (3) working days before the closing time stated in the NHLS RFQ, (COIDA)
F.4.5	Insurance Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The bidder is advised to seek qualified advice regarding insurance.
F.5.1.	Pricing the RFQ BOQ
F.5.2.	This contract shall not be subject to Contract Price Adjustments, foreign fluctuations, etc and all rates and prices shall remain FIXED, final and binding for the full duration of this contract.

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F.6.1	Alterations to documents Do not make any alterations or additions to the bidder documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the bidder. All signatories to the bidder offer shall initial all such alterations.
F.6.2	Alternative RFQ offers No alternative bidder offers will be considered
F.7.	Submitting a RFQ Responses
F.1.1	Submit one bidder offer only as a single bidding entity to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the RFQ document
F.1.2	Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.
F.1.3	Submit the parts of the RFQ offer communicated on paper as an original the RFQ Document with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.
F.1.4	Sign the original of the RFQ Document where required in terms of the RFQ document. The employer will hold all authorized signatories liable on behalf of the RFQ
F.1.5	Bidders are requested to deliver the submission in one envelope. The Employer's address for delivery of RFQ and identification details to be shown on each bidder offer package are: Title to appear on envelope or attachment one(1): 1. RFQ No: -1971944 APPOINTMENT OF AN ELECTRICAL CONTRACTOR FOR THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS EASTERN CAPE MADWALENI LABORATORY This envelope must contain the Returnables, SCM Documentation and Relevant Annexures. This envelope

	must contain printed copies of all the pages in this document, duly completed and signed, Title to appear on envelope or attachment two(2): 2. RFQ NO.: _____ (FINANCIAL QUOTATIONS) This envelope will contain the Pricing Schedules (Bills of Quantities) and RFQ document as published. For identification purposes, bidders are requested to ensure that the envelopes containing the company's bids are clearly marked, and are easily identifiable by the company's logo or name.
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F.1.6.1	Accept that the employer will not assume any responsibility for the misplacement or premature opening of the bidder offer if the outer package is not sealed and marked as stated.
F.1.6.2	Closing time The closing time for submission of Quotation is 21 NOVEMBER 2025 at 11h00am. cidb is not obliged to accept the lowest or any bidder and reserves the right to accept any bidder in whole or in part.
F.1.6.3	The RFQ validity 90 days period is from the closing date.
F.2.	Clarification of bidder offer after submission Provide clarification of request for quotation in response to a request to do so from the employer during the evaluation of bidder offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of bidders or substance of the bidder offer is sought, offered, or permitted.
F.2.1	The Bidder shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
F.2.2	Inspections, tests and analysis Provide access during working hours to premises for inspections, tests and analysis as provided for in the submission data.
F.2.3	Submit securities, bonds and policies If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.
F.2.3.1	Provide access during working hours to premises for inspections, tests and analysis as provided for in the submission data.
F.2.3.2	The Bidder is required to submit with his/her bidder all documents and schedules listed under E2.1 and E2.2.

F.2.3.3	Canvassing and obtaining of additional information by bidders The Bidder shall not make any attempt to obtain particulars of any relevant information, other than that disclosed at the opening of bid s.
E.2.4.3	Prohibitions on awards to persons in service of the state The Employer is prohibited to award a quotation to a person - a) who is in the service of the state; or b) if that person is not a natural person, of which any director, manager, principal shareholder or stakeholder is a person in the service of the state; or c) a person who is an advisor or consultant contracted with the Department. In the service of the state means to be - a) a member of:- • any municipal council; • any provincial legislature; or • the National Assembly or the National Council of Provinces; b) a member of the board of directors of any municipal entity; c) an official of any municipality or municipal entity; d) an employee of any national or provincial department; e) provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999); f) a member of the accounting authority of any national or provincial public entity; or g) An employee of Parliament or a provincial legislature. In order to give effect to the above, the questionnaire for the declaration of interests in the bidder of persons in service of state in part E2 of this procurement document must be completed.
G.3.	The employer's undertakings
Add the following new clause G.3.1	Respond to requests from the bidder The Employer will respond to requests for clarification received up to five (3) working days before the bidder closing time.
Add the following new clause G.3.2	Issue Addenda Addenda will be issued until five (3) working days before the bidder closing time.
H.4	Arithmetical errors, omissions and discrepancies

H.4.1	Check the highest ranked bids or bidders with the highest number of bidder evaluation points after the evaluation of bidder offers in accordance with E.3.11 for: a) the gross misplacement of the decimal point in any unit rate; b) omissions made in completing the pricing schedule or bills of quantities; - or c) arithmetic errors in: line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or the summation of the prices.
H.4.2	The arithmetical errors shall be corrected in the following manner: a) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern. b) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected. c) Where there is an error in the total of the prices either as a result of other Corrections required by this checking process or in the bid er's addition of prices, the total of the prices shall govern and the bidder will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the bid ed total of the prices. The Bidder Offer will be rejected if the bidder does not correct or accept the Correction of the arithmetical error in the manner described above.
H.4.3	Functionality, Price and Preference The purpose of the evaluation is to ensure and promote compliance with the Constitution, specifically Section 217, which provides that when organs of state contract for goods or services, they must do so in accordance with a system which is fair, equitable, transparent, competitive and cost-effective. The evaluation of bids will be undertaken in 3 stages.
H.4.5	Request for quotation will only be accepted on condition that: a) the bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation; b) the bidder or any of its directors is not listed in the Register of Bid Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
	c) the bidder has not: i. abused the Employer's Supply Chain Management System; or ii. failed to perform on any previous contract and has been given a written notice to this effect. d) Has completed the Compulsory Enterprise Questionnaire, SBD4, 6.1, 7.1, 8,9 and there are no conflicts of interest which may impact on the bid er's ability to perform

	the contract in the best interests of the employer or potentially compromise the bidder process i. Has submitted the documentation listed in E2.21 and E2.22
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4. SCOPE OF WORKS

APPOINTMENT OF ELECTRICAL CONTRACTOR FOR THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS

1. INTRODUCTION

- 1.1 The National Health Laboratory Service (NHLS) aims to mitigate business disruption caused by power outages, such as load shedding, by actively investing in alternative energy sources, with a significant focus on Solar Energy. This strategic goal is driven by the need to ensure business continuity and maintain the quality of essential health services, which are heavily reliant on uninterrupted power. The NHLS is actively procuring and installing solar panels at key facilities and laboratories to reduce its dependence on the national grid and safeguard critical operations like vaccine production and laboratory testing from power disruptions.
- 1.2 The proposed solution should enable the building to operate primarily using solar PV cells during daylight hours, estimated to be approximately five (5) hours. While the system will include energy storage for off-peak hours (specifically backup power for four (4) hours), it's important to note that due to limited roof space, the solar PV system will primarily serve as a supplementary power source for the building. Integration with the grid (City Power) and the standby generators remains crucial.

2. THE PURPOSE

- 2.1 The purpose of this request is to appoint a reputable service provider (Electrical Contractor) for the Design, Supply, Delivery, Installation and Commissioning of 50kw Solar PV and Battery Energy Storage Systems (BESS) system for NHLS Laboratory

3. SCOPE OF WORK

- 3.1 This document defines the functional requirements for the implementation of a combined PV and BESS solution at NHLS Head Office: Data Centre, located in Sandringham.
- 3.2 The solution shall be Design, Supply, Delivery, Installation and Commissioning of 50kw Solar System Feasibility study that, amongst other aspects, suggests the mounting structures and PV modules installation criteria for the Data Centre.
- 3.3 Strict compliance to SANS 10142-1, NRS 097 standards, and other PV installations-related standards
- 3.4 Electrical and structural designs.
- 3.5 Project management

- 3.6 Monitor and maintain Solar PV Power Plants on all three plants for a period of twelve months from date of commissioning for skills transfer purpose.
- 3.7 Commission and provide as-built drawings
- 3.8 The Solar system must connect to the main Distribution Board to kick-in immediately when the power is off to avoid any interruptions.
- 3.9 The testing of the Solar system upon completion of the installation
- 3.10 The bidder to issue CoC certificate upon completion.
- 3.11 Supply battery backup for 8hours.
- 3.12 **The following tests are to be carried out:**
 - 3.13 After completion of the work, and before signing off the job card by NHLS full test will be carried out on the installation to determine the satisfactory working thereof.
 - 3.14 During this period, the installation will be inspected, and the bidder shall make good to the satisfaction of the NHLS any defects which may arise.
 - 3.15 The bidder shall provide all instruments and equipment required for testing and, power required for the commissioning and testing of the installation upon completion.
 - 3.16 Test reports to be submitted to NHLS.
 - 3.17 Only registered and NRS097-approved inverters must be used in all installations.
 - 3.18 An Electrical Engineer designed and signed off on drawings that must be made available to the NHLS.
- 3.19 **Upon completion of the works, inclusive of the following:**
 - 3.19.1 Inverter NRS 097 certificate of approval.
 - 3.19.2 Inverter/ Battery manufacturer-approved compatibility document.
 - 3.19.3 Solar Panels mounting rails compliance certificates.
 - 3.19.4 Solar panels, inverter, and battery warranty documents.
 - 3.19.5 Additionally, the following requirements must be adhered to as per the planning engineer's report:
 - 3.19.6 Integration of an HVAC system
 - 3.19.7 Maximisation of rooftop PV capacity
 - 3.19.8 Battery energy storage designed to support four (4) hours of daily loadshedding.
 - 3.19.9 This scope ensures that the combined PV and BESS solution will enhance energy efficiency, reliability, and sustainability at the Data Centre.
- 3.20 **The supply to the Data Centre will need to be disconnected if both the standby generator and main supply are unavailable. As part of the scope, the wiring must be inspected and, if necessary, modified to ensure the properly isolated when power from either the standby generator or main supply is lost. The necessary modifications shall be included in the Contractor's detailed design proposal.**

4. MAINTENANCE AND OPERATIONS

- 4.1 Regarding Maintenance and Operations (M&O), the respective NHLS Facilities Management Unit will be responsible for overseeing all contractual M&O activities. The Contractor, in coordination with the NHLS Facilities Management Unit, will develop and deliver the required Maintenance Engineering Strategies (MES), Maintenance Implementation Standards (MIS), and associated documentation for all relevant asset classes included in the solution.
- 4.2 Maintenance processes and requirements will be integrated into the NHLS work management systems and managed accordingly. For instance, during the initial or extended M&O contract periods, plant data will be entered into planned preventative maintenance (PPM) work orders, as outlined in the relevant Oracle System, which will be generated by NHLS for the Contractor's execution. The Contractor is responsible for providing ongoing feedback to the NHLS Facilities Management Unit on all breakdown-related activities, and the OU will continuously update with this information.

5. CAPACITY BUILDING/ TRAINING OF NHLS STAFF (ARTISANS)

- 5.1 Additionally, the Contractor will be responsible for capacity building within the NHLS, particularly with respect to training and the development of training materials. All M&O activities performed by the Contractor shall adhere to the NHLS's standard processes, such as work management systems and dispatching, to ensure a seamless handover to the NHLS at the end of the initial or extended contract period. During this phase, the Contractor shall involve relevant M&O staff in all activities to facilitate effective knowledge transfer and ensure a smooth transition.

6. DOCUMENT CONTENT AND FUNCTIONAL REQUIREMENTS

- 6.1 The Contractor is responsible for the design, engineering, manufacturing, procurement, and supply of all materials and labor. This includes delivery to the site, offloading, construction, erection, installation, as well as off-site and on-site testing.
- 6.2 The Contractor will handle commissioning, performance testing, providing samples, and preparing detailed design and as-built record drawings. Additionally, they will provide maintenance manuals and instructions for the works, all in compliance with the general and performance requirements outlined in this document.
- 6.3 The Contractor shall provide NHLS with all the required asset governance documents, including, but not limited to:
 - 6.3.1 Feasibility Study/ Concept design
 - 6.3.2 Design philosophy
 - 6.3.3 Detail design
 - 6.3.4 Test certificates
 - 6.3.5 Connection of embedded generator application (City Power/ NHLS)
 - 6.3.6 Bills of quantities (BOQ)
 - 6.3.7 Design and as-built drawings
 - 6.3.8 Maintenance manuals
 - 6.3.9 QEM documents

7. TECHNICAL REQUIREMENTS

- 7.1 The technical requirements will vary based on the specific characteristics of each site, including geographical layout and limitations on the amount of PV power that can be generated due to average sunshine hours. These factors will influence the design approach for each location, resulting in site-specific designs. However, by utilizing renewable energy sources like solar power in conjunction with a battery energy storage system (BESS), the overall power consumption from the South African National Grid will be reduced. This aligns with NHLS's mandate to lower carbon emissions. The system will incorporate a design like the one shown in **Figure 1**.

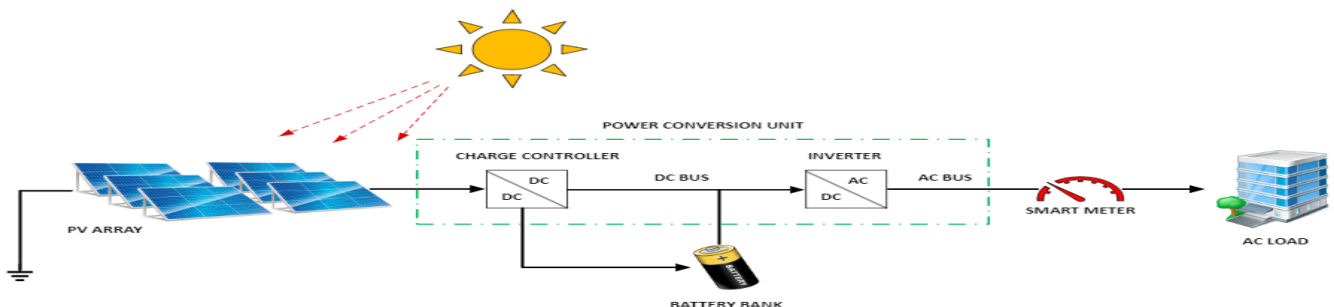


Figure 1: Solar PV System with Battery Energy Storage – High-Level System Overview

- 7.2 In an integrated energy system, PV panels in an array capture sunlight and convert it into electrical energy. This energy is regulated by a charge controller to ensure efficient charging of the BESS. During daylight, the PV system supplies electricity directly to the building, with excess energy stored in the BESS. When sunlight is insufficient or during the night, the stored energy is released to power the building or, depending on the design and site-specific scope, selected areas of the building.
- 7.3 An inverter is used to convert the DC power generated by the PV panels and stored in the batteries into AC power, which is compatible with most electrical systems in buildings. A smart meter monitors energy usage and generation, providing real-time data to an energy management system (EMS). The EMS works in coordination with a battery management system (BMS) to optimize the use of energy, balancing power drawn from the PV system, stored energy,

and the grid. By managing these sources effectively, the building can operate on solar power during daylight and switch to stored energy when needed, minimizing reliance on the grid, and contributing to reduced carbon emissions.

- 7.4 This integrated system, which consists of solar PV, battery energy storage and energy management systems, ensures the continuous operation of the buildings outlined in this document. The system harnesses solar energy during daylight hours and utilizes stored energy during off-peak periods, reducing dependence on the South African National Grid.
- 7.5 The use of renewable energy resources, such as solar PV, to supplement energy usage at NHLS Data Centre sites directly supports NHLS's goals of reducing operational costs and lowering carbon emissions. By pursuing renewable energy, NHLS can help South Africa reach its target of net zero carbon emissions by 2050, while still nurturing economic growth and creating sustainable jobs. Utilizing renewable energy at these sites reduces grid dependency and operational expenses, aligning with NHLS's objective of financial and operational stability.
- 7.6 This shift also supports the NHLS's Just Energy Transition (JET) program, which seeks to balance the need for economic development with environmental sustainability, ensuring a stable, affordable, and equitable energy supply for the future.

8. EQUIPMENT WARRANTY

- 8.1 The Contractor shall provide an equipment warranty in accordance with the minimum requirements outlined in Table 2. In addition to, and without limiting, the defects liability period, the Contractor shall offer a comprehensive warranty covering all equipment, including strategic components. No equipment warranty provided shall limit or negate any other warranties.
- 8.2 Upon achieving operational acceptance of the installation, the Contractor shall transfer the ownership of all manufacturer equipment warranties to the Employer.

Table 2: PV-BESS Equipment Warranty

Equipment	Minimum Warranty Period (In Years)
PV Module - Product Warranty against Manufacturing Defects.	10
PV Modules – Performance.	25
Mounting Structures – Duration of Warranty (Materials).	20
Mounting Structures – Lifetime Design Warranty.	25
Inverter.	10
Fire Protection Equipment.	5
Batteries.	15
Civil Works.	1

9. LABELLING AND MARKING OF EQUIPMENT

- 9.1 All labelling of panels shall comply with the requirements of SANS standard and Specification for Panel Labelling Standard
- 9.2 All markings of wiring and cables in substations shall comply with the requirements of SANS, Generic Equipment Specification Wire, Wire Marking, Cable Numbering, Fibre Optical Cable Installation and Labelling.
- 9.3 The Contractor shall establish a detailed labelling and codification system for the CMS to accurately identify all instruments, cables, cable cores, equipment enclosures, network hardware, power supply systems, signals, OPC tags, and other components. This system shall adhere to SANS's specified identification and labelling formats as outlined in the referenced specifications.

10. HANDOVER AND COMMISSIONING

- 10.1 All tests, inspections, and pre-commissioning activities will be conducted in accordance with the Framework for Design Solutions to Connect Customer-Owned SSEGs.
- 10.2 Until SANS 10142-1-2, The Wiring of Premises: Specific Requirements for Embedded Generation Installations Connected to the Low Voltage Distribution Network in South Africa, is officially published, all SSEGs shall, upon commissioning, be signed off using NHLS's established **EGI Compliance Test Report [Annexure A]**. This will serve as an interim solution to ensure the compliance of SSEG installations.

Important Note:

- Always read specification in conjunction with Bill of Quantities and Plan (if plan is applicable and supplied).
- All Quantities measured are indicative and will be re-measured on completion.
- Specific products to be used, to be confirmed in Bill of Quantities.
- All materials and products to be used, to be ISO 9001 accredited.
- Due to the nature of our labs (operation 24 hours) **the contractor will be expected to work after hours and over the weekend.**
- Variation orders can only be approved in writing (via the email) by the NHLS Project Manager
- No additional or extra work done will be paid for unless the project manager has issued a variation order.
- NHLS Project Manager will conduct all inspections.

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- The contractor should be required to move the equipment (furniture, benches, etc.) and put them back requested.
- Only material installed will be paid and not for any wastage (no material on site will be paid).
- NHLS delegates can also and contact the client or visit the work done as referred on the completion certificate.
- Contractor will be requested to **provide comprehensive safety file**; work will be only allowed to commence after the file has been formally approve by NHLS.
- A contractor is expected to **sign a 37(2) Agreement** (Form – FMI 0008) before commencing with the project.
- No progress payment will be made less than R200,000.00.

GUARANTEE, MAINTENANCE, PENALTY AND RETENTION PERIOD

The Guarantee and Maintenance period shall be for 12 months commencing on the date of Practical completion and acceptance of the Installation. During the Guarantee period the Contractor shall repair all defects in the Installation which may arise as a result of inferior quality materials or faulty workmanship. **5% retention of the contract price will be held back for a period of 3 months after date of Practical completion and acceptance of the installation**

The fact that the Installation will be used and occupied by the Employer during the guarantee period shall in no way exempt the Contractor from his responsibility under this clause

Should a non-urgent fault occur during the guarantee period the Contractor will be advised and he shall repair the fault in good time

Should a fault occur during the guarantee period, that is in the opinion of the Project Manager of an urgent nature, then the Contractor will be advised and shall proceed immediately to rectify the fault

Should a fault occur during the guarantee period, that is in the opinion of the Project Manager of an urgent nature, and the Contractor is not available, the Employer shall reserve the right to obtain the services of any available Contractor to repair the fault. The cost of such repair work shall be borne by the Contractor in accordance with the escalated rates. In such a case the faulty equipment shall be kept for scrutiny by the Contractor. If this occurs during the retention period and retention money is still due to the Contractor, such claim from the Alternative Contractor, will be deducted from the Retention fund

Should the frequency and breakdown/s, in the opinion of the Project Manager, become so regular as to constitute an unacceptable state of affairs or should the installation or portions thereof prove to be unacceptable, the Contractor shall upon receipt of a written instruction from the Project Manager, replace portions/components or even the entire installation if need be, at his own cost as prescribed by the Project Manager

Where the practical completion is not reached by the date stated in the Bid / RFQ document or by the revised date granted by the Project Manager, the Contractor shall be liable to a Penalty determined by the Project Manager, which is in this instance .1% (point 1 percent) of the Bid / RFQ Total value, Per Day

PRELIMINARIES

Bid er's attention is drawn to the fact that the Hospital and Laboratory will be fully operational during the building process. The work will have to be carried out in phases and at times that must be liaised and agreed to with the Business Manager and Hospital Management. This might result in certain work being carried out at night

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times only, even after hours of weekends. Also note that sensitive electronic equipment are in use and no work that cause a vibration can be carried out when these equipment are in operation. Operating theaters in the vicinity of the building work will also be in use during the building program and the Contractor must liaise closely with the Hospital Management and obtain their written consent and permission, before removing and/or servicing equipment/structures, that might interfere with the running of the theaters or any other service/s. The use of certain lifts for moving of material will also have to be agreed to with the Hospital Management. The bidder must allow for this in his prices since no additional claim will be entertained in this regard

**QUOTATIONS SHOULD BE BASED ON THE FOLLOWING SPECIFICATIONS
SITE APPLICATION**

Repair to cracks

Repairs to cracks 0.2^{mm} to 2^{mm}

Rake out with a scraped blade.

Remove dust and debris.

Fill with pure acrylic, paintable, flexible crack filler.

Cracks over 2^{mm}

Open out with a carborundum disk into a V shape minimum 3^{mm} wide.

Remove dust and debris.

Wet the crack and fill with damp 1:4 cement/sand mortar properly compacted into the cracks.

Repairs to Mortar Joints

Scrape out unsound mortar

Point solidly with 1:3 cement/sand mortar properly compacted into the joints

Repairs to Painted Wall Surface Coating

Remove loose paint with a sharp paint a scraper or hand-held pneumatic engraving tools fitted with flat chisel heads

Feather edges of tightly bonded paint with a rough to medium grit paper

Built up paint covering flush with general surface area

Preparation - Generally

Materials used in preparation to be types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.

Apply in strict accordance with the manufacturers specification.

Apply oil based stoppers/fillers after priming. Apply water based stoppers/fillers before priming unless recommended otherwise by manufacturer. Patch prime water based stoppers/fillers when applied after priming.

Ensure that doors and opening windows, etc, are "eased" as necessary before coating. Prime any resulting bare areas.

Plastered surfaces and fibre cement boards to be washed down and allowed to dry completely.

Unfinished concrete surfaces clean with 1:4 solution of spirit of salts: water.

All floors where painting is to be carried out to be swept clean, walls dusted down and unpainted surfaces protected.

Efflorescence

Remove surface salts and other loose material with a stiff brush or coarse dry cloth.

Leave for 48 hours and repeat process if further efflorescence occurs.

Sand glossy surfaces to provide a key for finish.

Ironmongery

Remove from surfaces to be coated and re-fit on completion. Do not remove hinges unless instructed to do so

Previously Uncoated Timber

Ensure that large and loose knots are removed and made good with sound timber of the same species. Sand down flush

Ensure that surfaces are clean and remove all oil, grease and excessive natural oils with suitable solvents

Sand to a smooth, even finish with arrises rounded or eased

Remove resinous bleeding by heat, apply two coats of knotting to resinous areas and all knots and allow to dry

Ensure that head of fasteners is countersunk sufficiently to hold stopping/filling. Fill nail and screw holes, joints, cracks, holes, depressions, open or coarse grain with matching coloured stopper/filler worked well in and finished off flush with surface. Sand smooth and remove dust

Sand down to remove all plaster stains pencil marks and other blemishes from timber that is to be oiled or stained

Previously Coated Timber

Strip any existing cracked or flaking varnish back to fresh wood

Sand down any discoloured areas to fresh wood

Ensure that surfaces are clean and remove all oil, grease and excessive natural oils with suitable solvents

Sound varnish to be sanded with 360 grit paper

Uncoated Masonry/Render

Remove dirt, surface deposits, loose and flaking material with a stiff brush

Fill holes and cracks flush with surface, rub down

Unpainted Plaster

Remove dirt and surface deposits with a stiff brush

Rub down to remove nibs, trowel marks and plaster splashes

Lightly rub over trowelled glossy plaster with worn abrasive paper

Fill depressions, holes and cracks and lightly rub down flush with surface

Steel Generally

Remove all loose and flaking paint

Feather edges of tightly bonding paint

Rusted Areas

Clean disk sand and wire brush to remove rust

Clean bare steel patches with a solvent wash

Rust convertor only to be used on small areas where hand cleaning is ineffective

Apply with a stiff brush ensuring penetration into any pitting

Inspect after two hours and recoat areas showing unconverted red rust

Prime surfaces as soon as possible after cleaning, and in any case within four hours

Coating

Painting Generally

Operatives must be appropriately skilled and experienced in the use of specified materials and methods of application

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Do not use materials that show any bittiness when applied. Do not thin or intermix unless specified or recommended otherwise. If materials are found to have been thinned without authorization, the Project Manager may require an additional application of additional coats

Any priming as soon as possible on the same day as preparation is completed, ensure that coats are of adequate thickness and suit surface porosity

Adjacent coats of the same material must be of a different tint to ensure that each coat provides complete coverage

Apply coatings to clean, dust free, suitable dry surfaces in dry atmospheric conditions and after any previous coats have hardened. Lightly abrade between coats as necessary

Apply coatings evenly to give a smooth finish of uniform colour, free from brush marks, nibs, sags, runs and other defects. Cut in neatly and cleanly. Do not splash or mark adjacent surfaces

Keep all surfaces clean and free from dust during coating and drying. Adequately protect completed work from damage

Painted Joinery/woodwork

Before priming preservative treated timber, any cut surfaces to be retreated and all end grain to be liberally coated allowing it to soak in before recoating it

Pre-primed woodwork to be lightly rubbed down and patch prime to match existing

Prime: One coat primer, two coats to end grain which will be painted

Finish: Two coats Alkyd gloss, sanded down between coats

Staining

Check with stain manufacturer if primer is required for the species of timber and type of previously applied treatment.

Apply stain in flowing coats. Redistribute excess material by brushing before stain has set. Allow not less than 12 hours between coats

Varnishing

Thin first coat with white spirits according to manufacturer's recommendations

Brush well in avoiding aeration and lay off

Apply further coats of varnish, rubbing down lightly between coats along the grain

Bead Glazing to Coated Timber

Before Glazing: Apply first two coats to rebates and beads

Concealed Joinery Surfaces

Inaccessible parts of joinery constructions are to be primed and/or coated before assembly

Where one or more additional coats are specified to be applied, they must be applied to all surfaces, including those that will be concealed when incorporated into the building

Wooden Doors

Varnish or paint bottom edges before hanging

Completion

Ensure that opening lights/windows/hinges and other moving parts move freely. Remove all masking tape and temporary coverings afterwards

Protection

Adequately protect all surfaces that are not to be coated

Protect all surfaces from dust and damp

Where doors are delivered to site in a finished condition, provide all necessary protection to the doors when applying coatings to the frames

Plumbing

Only registered Plumbers to be employed for any plumbing & drainage work

Allow for $\pm 2\text{m}^2$ tiling above each basin and sink

Allow for A Grade Glazed white tiles, 152 x 152mm, 5 – 6.5mm thick

Sinks size: 1350^{mm} x 535^{mm} unless otherwise specified in bill of quantities

Sink mixer for tea room sink to be 15mm chrome plated brass cobra mixer type tap

All basins to be white glazed, each fitted with an approved 32mm chrome plated brass waste fitting with screwed outlet, and a 15mm chrome plated brass elbow action tap connected to water supply

All sinks to be standalone stainless steel sink, work area, splash back on Pre-manufactured 40 x 32^{mm} stainless steel square tubing frames, 4 legs on adjustable pedestals. Exposed surfaces having a smooth finish, each fitted with an approved 32mm chrome plated brass waste fitting with screwed outlet, and a 15mm chrome plated brass Hospital goose neck tap

Stainless steel grade 316 or Type 304 to be used for stainless steel sinks

All material to be SABS approved

Make sure all existing water pipes and waste is in good working condition

All existing basins and sinks to be washed and cleaned

On each water supply line, a ball valve need to be installed as close as possible to outlet, this includes basins, sinks, toilets

Each tap to be visibly marked with “H” or a “Red” mark for Hot water and “C” or a “Blue” mark for Cold water

Geyzers: Install makes such as Franky, Kwikhot or similar. Install on a drip tray with drain pipe to outside, pressure valve, safety valve, shut off valve, overflow pipe. Isolator to be installed at least 1m from Geyser, hot and cold water supply lines to be bonded and earthed. Isolator to be wired to DB with dedicated double pole circuit breaker.

Toilets: these shall be deemed to include the following: WC Pan, flush valve or 11 litre cistern with flushing apparatus, float valve and flush pipe and all finishings to pipes and cistern. To be the wash down type, approximately 400 high manufactured of white glazed fireclay or vitreous china, each provided with the compatible “P” or “S” –Traps, jointed to Pan. Pans and traps to be set on and encased in Class B concrete not less than 100mm thick at any point or position

Wall mounted bowl urinals: to be of white glazed fireclay or vitreous china, approximately 700 x 380mm in size with back flush entry, secured to wall with at least 2 concealed hanger brackets. Each urinal to be fitted with 38mm chrome plated domical grating, urinal complete with push button assembly, exposed type flush valve with ball-o-stop and wall flange. • Chrome plate finish. • Additional toilet piston screw • Non-hold open feature, spreader and all other necessary chrome plated brass fittings as well as a chrome plated brass bottle trap

Hydroboil installations: Install always above sink (see bill of quantities for size)

Emergency shower: complete body shower with eye station. Flow rate to be 60 liter per minute. At floor level, 700mm below shower head, the radius of water reaching the floor should be 200mm. At the eye station flow rate should be 6 liter per minute at a flow pressure safe enough not to injure the User. This unit to be 1 meter from floor level. Make use of emergency showers as supplied by Broen, Bull Maurice Trading or similar

Electrical

Only registered Electricians to be employed for any electrical work

Wires to be used for sockets outlets; 2.5mm² PVC

Colour for 2- compartment steel/PVC power skirting unless differently specified in bill of quantities (colour to be confirmed)

Normal plugs to be white and dedicated plugs to be red

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Electrician to consult with Lab Manager regarding lab equipment when circuit are installed to prevent overloading, new plug points to be wired from distribution board and marked properly

Legend card in DB to be up to date

Electrical Certificate of Completion to be issued on completion

All material to be SABS approved

All installations to comply with SANS10142 installation rules

All additional /replaced plugs, isolators and light switches must be labelled on the cover and Distribution Board

Circuit breakers to be SABS approved and type and size to be confirmed with Project Manager before installation

Hydroboils: wire from DB Board with 30Amp double pole isolator next to Unit (at least 1m away) and 20Amp circuit breaker in DB board

Doors

All doors to be hung in such a way that the clearance gap between door and frame after hanging shall not exceed 2mm at sides and head. The floor clearance to be preferably 2mm but may be increased to accommodate an uneven floor finish. Exterior doors shall be hung on brass hinges. Aluminium frame glass doors to have 6mm safety laminated glass fitted, to be hung on aluminium hinges, not less than 4 hinges on a 2 100mm high door. On higher doors at least 5 hinges should be fitted. The glass door must have a mid-rail with bottom half either glass or solid aluminium, the aluminium door profile must be 90mm all-round All exterior doors to be fitted with an aluminium and rubber weather strip at the bottom. Each door to be equipped with 2 door handles. Type to be confirmed by Project Manager. Behind every door a door stop should be installed on top of the floor to prevent the door handle making contact with the wall – clearance between wall and door handle to be approximately 20mm.

Paint

Two final coats of White paint to all surfaces, ceiling and walls. Door colours to be confirmed by Project Manager, if not varnished

Existing pipes against wall must be colour coded painted, for example gas, water, oxygen

Rhino board surface to receive Rhinolite to a smooth finish on dry walls

Before painting can commence, every defect/uneven surface must be repaired

Patch prime new and exposed plaster areas with 1 coat and allow drying. Coat 1 may be thinned up to 10% with mineral turpentine to aid absorption. Allow 4 hours drying time at 23° c . Three (3) coats of paint to dry wall. Paint texture and type to match existing, Colour for walls and steel frames to be white unless otherwise confirmed by Project Manager

One coat metal primer to steel work and two coats final oil based enamel

Paint to be Plascon double velvet, Dulux, Prominent or similar

TILE Floors

Ensure that the sub-floor is completely smooth, level, hard, dry and clean before laying commences

Only use A Grade Acid resisting Ceramic/ porcelain tiles, 10mm thick, 600^{mm} x 600^{mm} for floors and 600^{mm} x 200^{mm} for walls in size or as per BOQ

All tiles need to have "Aluminium Tile Edge Trim" where necessary. Bull nose or square one may be used

Use SABS approved tile cement and apply as per Manufacturers instructions (colour to be confirmed by Project Manager)

Use SABS approved water proof Acid resistant grout. Gaps 5 – 10mm (colour grey)

Skirtings to be 100mm high where required, coved at junction with floor and rounded on top edge

CARPET Floors

Ensure that the sub-floor is completely smooth, level, hard, dry and clean before laying commences. Installation to be done by an approved Installer in accordance with the Manufacturer's specifications

TILE Walls

Ensure that the wall is completely smooth, level, hard, dry and clean before laying commences

Only use A Grade Acid resisting Ceramic tiles, 10mm thick, 600 x 200mm in size

Use SABS approved tile cement and apply as per Manufacturers instructions (colour to be confirmed by Project Manager)

All tiles need to have "Aluminium Tile Edge Trim" where necessary. Bull nose or square one may be used

Use SABS approved water proof Acid resistant grout. Gaps 5 – 10mm (colour grey)

All edges and corners to be finished off with PVC edging strips. Colour to be confirmed per job depending on tile colour.

Glazing

All Internal glass in panes not exceeding 1.5m² of surface area shall be 4mm clear float glass

All Internal glass in panes exceeding 1.5m² of surface area shall be 6mm laminated safety glass with a Manufacturer's warranty against defects and discoloration

All Exterior glass up to a height of 10m in panes not exceeding 2.9m² of surface area shall be 6.38mm PVB Laminated annealed safety glass. Above 10m the Project Manager should appoint a Glazing Competent Person

Mirrors to comply with SABS requirements. Unframed mirrors to have polished edges

All glass in aluminium doors and frames to be fitted with 6mm laminated safety glass

All exterior facing windows to be tinted with Klingshield or similar product, unless otherwise stipulated. Colour to be confirmed by Project Manager

Blinds

Vertical Group 3 blinds to be installed (colour to be confirmed by Project Manager)

Blinds to be re-measured on site before manufacturing and installation

Vertical blinds to be 127mm

Horizontal blinds 50mm

Horizontal blinds to be either Aluminium/ Wood Venetian conformation on the BOQ

Measurements given is only for bidding purpose

Suspended ceilings

Install suspended ceilings as per Manufacturers instructions such as Donn Products or similar. Panels to be vinyl clad smooth white panels, 1200 x 600 x 12.5mm on suspended pre-painted exposed tee trusses, including main and cross tees, hangers, grids, etc., all level and properly secured. At edges use 25mm pre-painted shadow line aluminium cornices

Partitioning

Drywall partitioning construction and support frame system including finishes to be as per Manufacturer's specifications

Minimum requirement GPG Gypsum Gyproe Standard 40 Db, ½ hour fire rating with a stud (63.5mm) and track system. Positioning at 600mm cc fixed to 63.5mm top & bottom track clad on both sides with 12.5mm taper edged rhino board affixed with 25mm drywall screws at 220mm cc

All corners to be finished off with drywall corner strips. All joints to be taped, jointed and smoothed before painting

Aluminium skirtings to be affixed to all drywall partitioning unless otherwise specified

Door and window frames fitted in drywall partitioning to be installed as per Manufacturer's specifications

**PLEASE TAKE NOTE THAT THE ABOVE SPECIFICATIONS AND MEASUREMENTS ARE SUBJECT TO
CHANGE AS MAY BE DETERMINED BY THE FINAL APPROVED DRAWINGS OR COMPULSARY SITE**

MEETING FOR THE JOB IN QUESTION

WORKS AGREEMENT

Contractor: The contractor shall:

- Provide adequate supervision and management of the works at all times.
- Provide toilet facilities for use by his workers except where provided by the client (NHLS).
- Storage space is not always available for material and sufficient arrangements should be catered for and included in pricing.
- Submit all local authority notices by the works.
- Comply with all statutes, regulations and bylaws of local or other authorities having jurisdiction regarding the execution of the works and obtain all certificates and other documents required by such authorities.
- Notify the Project Manager where compliance with any statute, regulation or bylaw requires a change or variation to the works upon which such change shall be deemed to be a contract instruction.
- Immediately begin the works and continue at a rate of progress satisfactory to the Project Manager in terms of the agreement.
- Comply with all contract instructions in good time.
- Bring the works, within the constructed period, to practical completion in terms of completion.
- Bring the works to final completion.
- Surplus material and waste to be carted away to a suitable dumping site to be found by the Contractor, outside the boundary of the site

Completion

Practical Completion

- The Project Manager shall inspect the works from time to time to give the contractor interpretations and guidance on the standard and state of completion of the works which he will require the contractor to achieve for practical completion
- The contractor shall inform the Project Manager of the date on which he expects to achieve practical completion
- The Project Manager shall inspect the works on or before the date requested by the contractor

Where the works:

- Has reached practical completion the Project Manager shall at once issue a certificate of practical completion to the contractor
- Has not reached practical completion the Project Manager shall issue a practical completion list to the contractor detailing the outstanding work to be done and defects to be rectified to achieve practical completion
- Is not ready for practical completion inspection the Project Manager shall issue a list as a general guide to the contractor of the outstanding areas of work and defects to be attended to before he can request a further inspection

Final Completion

- Within seven calendar days of practical completion the Project Manager shall prepare and issue to the contractor a final completion list detailing the incomplete work and defects to be rectified within a reasonable period
- The defects liability period of fourteen calendar days shall start on the date of practical completion
- On the expiry of the defects liability period the Project Manager shall immediately inspect the works for final completion. Where the works:
- Has reached final completion the Project Manager shall at once issue a certificate of final completion to the contractor

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- Has not reached final completion the Project Manager shall issue a defects list to the contractor detailing any incomplete work and defects to be rectified before the Project Manager will undertake a further inspection
- Where the contractor has achieved final completion the latent defects liability period shall end three years from the date of final completion

Employer: The employer shall:

- Hand over the site to the contractor by the date stated in the schedule. The construction period and latent defects liability period shall commence with the handover of the site.
- Arrange for water, sewer and electrical connections as required and pay all fees concerning this
- Provide water and electricity as required for the execution of the works free of charge.
- Not issue instructions to, interfere with, hinder or obstruct any of the contractor's workers or any other persons employed or acting on behalf of the contractor.

Risk and Insurance

- The Contractor indemnifies the NHLS against any loss in respect of claims from other parties arising out of or due to the execution of the works or occupation of the site by the contractor consequent upon:
 - Death or bodily injury or illness of any person.
 - Physical loss and damage to any property other than the works.
 - Removal of or interference with lateral support of an adjoining property.
- The contractor shall take out insurances in respect of his employees as are required by law.
- Where, in the opinion of the Project Manager, loss and damage to the works due to the contractor's negligence the contractor shall be liable for such loss and damage.
- The contractor shall in all circumstances be at risk for loss of, or damage to his construction plant or vehicles.
- The contractor shall enclose the site along the facades where work is being done. He shall furthermore allow for all the required scaffolding, gantries, hoarding, etc. to safeguard pedestrian traffic on the sidewalks or paths as well as vehicular traffic in the streets
- The form of scaffolding, gantries, hoardings, etc., must be fully detailed in his "method statement" as previously required. It is not the intention to prohibit or deviate pedestrians or traffic during construction and Bidders are to account for this when pricing the Bid
- Adequate warning signs/ lights/ etc. are to be employed where required. If the Bidder requires the full pavement width and even part of the adjacent street, then he must make all the necessary arrangements with local authorities for the pavement and street closure as well as pay for all fees in connection therewith including the loss of income due to parking meters
- The existing premises will be occupied at all times and the Contractor will be required to keep all noise to a minimum

Safety

- From the date of site handover to the Contractor until the completed work is handed back to the Employer, the Contractor shall be responsible for maintaining safe working conditions on site
- The Contractor shall be responsible in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the regulations promulgated in terms of the Act or Factories, Machinery and Buildings Work Act, whichever is applicable
- The Contractor shall be responsible for supplying and installing the required safety signs as determined by the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) All safety signs shall comply with the requirements of the latest edition of SANS 11861 as Applicable

Programme

- The Contractor shall submit his programme of work to the Project Manager not later than 14 days after the Contractor has been notified of the acceptance of his bid . If necessary, the Project Manager may instruct the Contractor to adjust his programme to suit other activities

END

**5. BILL OF QUANTITIES (BOQ)
PRICING SCHEDULE**

- The summary Bill of Quantities comprises items that will cover the Contractor's profit on material, labour, preliminaries and general expenses involved in executing the project.
- The amounts and rates to be inserted in the Bill of Quantities shall exclude VAT.
- The amounts and rates to be inserted in the Bill of Quantities shall only be FIXED prices and such will form the pricing part of the preferential point scoring system for this tender.

No.	Description	Unit	Quantity	Rate per Month	Amount
A.	FEASIBILITY AND DETAILED DESIGN OF PHOTO-VOLTAIC (PV) SYSTEM.				
1.	Feasibility Study Report.	50KW	1		
2.	Detailed design of PV System.	50KW	1		
B.	PRELIMINARIES AND GENERAL PER SITE				
1.	Health and Safety undertaking.	Item	1		
2.	Quality Assurance undertaking.	Item	1		
3.	Project Management.	Item	1		
4.	As-built and guarantees.	Item	1		
5.	Site clean-up.	Item	1		
6.	Accredited training provided to NHLS technician (not on-site training).	No	5		
C.	PV SOLAR PLANT EQUIPMENT PACKAGE PER SITE				
1.	Supply and connect and commission new Deye 50KW 3 Phase Hybrid Inverter High Voltage complete with 10 years warrantee	Item	1		
2.	Supply and install Felicity High-Voltage 61.44KWh Lithium Battery System 10 years warrantee.	Item	1		
3.	Supply and install Thornova or Canadian 580w or 610w Tier 1	Item	1		

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	Mono Solar Panel 15 years warranty, complete with Solar Mounting rails 3.5M Galvanized, Solar Mid Clamp, Solar end Clamp,				
	Mono half-cell solar panels per site	Item	1		
	Solar panels mount system per site	Item	1		
	Complete cabling per site	Item	1		
	Lightning and Earthing and related protection per site	Item	1		
	Commissioning and Compliance: Prepare commissioning and connect the solar system to NHLS power, complete with Certificate of Compliance (COC) for electrical.	item	1		
	Contingency: Provide the sum of R 70 000.00 (seventy thousand Rand) for contingencies and design contingency, to be used as instructed by the NHLS Project Manager. shall be expended at the sole discretion of the Client, and can be deducted in whole or in part if not required	Item	1		R70 000.00
Sub-Total Amount					R
15%Vat					R
Contract Amount					R

PRICING DATA

C2.1 PRICING INSTRUCTIONS

- Measurement and payment clauses of the COLTO (1998)/SANS 1200 Standardised Specifications, as well as the Particular Specifications, shall be deemed to form part of and included in the pricing instructions.
- The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

%	=	percent	m ² .pass	=	square metre-pass
h	=	hour	m ³	=	cubic metre
ha	=	hectare	m ³ .km	=	cubic metre-kilometre
kg	=	kilogram	MN	=	meganewton
kl	=	kilolitre	MN.m	=	meganewton-metre

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km	=	kilometre	MPa	=	megapascal
km-pass	=	kilometre-pass	No.	=	number
kPa	=	kilopascal	Prov sum	=	Provisional sum
kW	=	kilowatt	P C sum	=	Prime Cost sum
l	=	litre	sum	=	lump sum
m	=	metre	t	=	ton (1 000 kg)
mm	=	millimetre	W/day	=	Work day
m ²	=	square metre			

3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates to be inserted in the Bill of Quantities are to be the full inclusive prices for the work described under the items. Such prices and rates shall cover all costs and expenses that may be required in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices shall be used as a basis for assessment of payment for additional work that may have to be carried out.
5. It will be assumed that prices included in the Bill of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for bid s. (Refer to **www.sabs.co.za** or **www.iso.org** for information on standards).
6. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount bid ed for such items.
7. An item against which no price is entered will be considered to be covered by the other price s or rates in the Bill of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
8. The quantities set out in the Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
9. Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
10. The short descriptions of the items of payment given in the Bill of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
11. The Bill of Quantities has been drawn up in accordance with the latest issue of the COLTO (1998)/SABS1200 Standardised Specifications. Descriptions in the Bill of Quantities are abbreviated and must be read in conjunction with the measurement and payment clauses of the applicable specification

SCHEDULE OF QUANTITIES PREAMBLE TO THE SCHEDULE OF QUANTITIES AND RATES

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- The standard commercial terms and conditions, special terms and conditions, and specifications (including the project specification).
- The proposer is at liberty to insert a rate of his own choosing for each item in the schedule, and any item against which no quantity (where applicable) or rate is entered will be considered to be covered by other items in the schedule.
- The quantities and rates inserted in the schedule are to be inclusive prices to the employer for the work described under the several items. Such prices shall cover all costs and expenses that may be required in and for the works and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the bidder is based.
- All rates and amounts shall be net, exclusive of value-added tax (vat) and shall be carried to the summary page in their net form. Vat will then be calculated on the total of the nett amounts.
- All quantities and rates as set forth and inserted in the schedule and extended to the totals for each portion of the schedule shall be considered as being totally inclusive for the whole of the works as stipulated or as can reasonably be inferred from these documents.
- All product guarantees are deemed to be included in the rates, and installation and application rates will consist of all necessary inspections and approvals to maintain guarantees.

“Complete” as it is used in the schedule means the complete system or unit as specified in the particular documents. Each item in the schedule that is priced shall be filled in black ink.

All quantities shall be considered as final and sufficient for the work described. The proposer shall satisfy himself as to the sufficiency of quantities but may not change quantities. Quantities shall be re-measured, and payment shall be made according to the adjusted total only

6. FORM OF OFFER (SBD 7)

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

The bidder, identified in the offer signature block, has examined the documents listed in the submission data and addenda

Thereby as listed in the returnable schedules, and by submitting this offer has accepted the condition of bid . By the representative of the bidder, deemed to be duly authorized, signing this part of this form offer and acceptance, the bidder offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

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

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This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the bidder before the end of the period of validity stated in the submission data, whereupon the bidder becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s)

Name(s)

Capacity

for the bidder

(Name and
address of organization/)

.....
.....

Name and signature of witness Date

7. RFQ EVALUATION PROCESS AND CRITERIA

The RFQ will be evaluated by the Cross Functional Evaluation Team (CFET) and the successful service provider will be selected based on a three-phased approach (3-Stages):

Stage 1: Administrative Compliance

All incomplete submissions and respondents who do not meet the compliance requirements at quotation submission will be eliminated from further evaluation.

Stage 2: Mandatory Technical Requirements

All incomplete submissions and respondents who do not meet the minimum technical mandatory requirements at quotation submission will be eliminated from further evaluation.

Stage 3: Price and Specific Goals

The final evaluation phase will be based on Price and Specific Goals.

Determination of Percentage for Price – 80 percentage, & Determination of level for Specific Goals – 20 percentage.

Stage 1: Administrative Compliance

- 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 categorized as follows:

a) Returnable Documents (to be returned by Bidders)

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

1. The Bidder must agree with all NHLS General Conditions of Bid, RFQ and Conditions of Contract (GCC)	Comply	Do Not Comply
Substantiation: The Bidder must submit and attach to the bid response the signed and accepted NHLS General Conditions of Bid, RFQ and Conditions of Contract (GCC).		

2. Fully completed and signed Declaration of Interest SBD 4	Comply	Do Not Comply
Substantiation: The Bidder must submit and attach to the bid response the signed Declaration of Interest SBD 4		

4. Fully completed and signed RFQ document.	Comply	Do Not Comply
Substantiation: The bidder must submit and attach to the bid response the fully completed and signed RFQ document.		

5. Bidder must complete the Bill of Quantities (BoQ).	Comply	Do Not Comply
Substantiation: The Bidder must submit and attach to the bid response fully completed BOQ.		

6. Tax Clearance Verification Pin	Comply	Do Not Comply
Substantiation: The Bidder must submit and attach to the bid response a valid TAX Clearance Certificate and/or TAX verification Pin and/or TAX Compliance Status Letter issued by the South African Revenue Services (SARS).		

7. The Bidder must provide the CSD Registration number /Attach the CSD Summary Report	Comply	Do Not Comply
Substantiation: The Bidder must provide the CSD (Central Supplier Database) Registration number (MAAA number) / Attach the updated CSD Summary Report.		

B. Essential Returnable Documents (to be returned by Bidders) Not a disqualification factor

B-BBEE Certificate and/or Affidavit.	Comply	Do Not Comply
Fully completed and signed preferential points claim form SBD 6.1.		
Substantiation: The bidder must submit and attach to the bid response a copy of B-BBEE Certificate issued by an authorised body or person, or a sworn Affidavit prescribed by the B-BBEE Codes of Good Practice.		

Stage 2: Mandatory and regulatory requirements

The following are deemed as mandatory and regulatory requirements and failure to comply will result in the invalidation of a proposal

No	Legislative	Comply	Do not comply
1	CIDB grading (2EB or higher)		
2	Electrical Wire man's license (licensed person should be available on the day of site handover to contractor and to the client)		
3	Letter of good standing COIDA		
	Registration Certificate with the South African Photovoltaic Industry Association (SAPVIA)		
4	PV Green card Certificate		
7	Electrical trade Test (Tradesman should be available on the day of site handover to contractor and to the client)		
8	PV Green Card Certificate		

COMPLIANCE AND MITIGATION MEASURES

No.	Specification	Comply
		Yes/ No
1.	In terms of South African legislation, the user or lessor is responsible for the safety of the embedded generation facility.	
2.	ECSA Professional body registration is required for signing off on this EGI compliance test report.	
3.	All listed items need to be completed for this form to be valid:	
4.	All tests and requirements in this form must be done in person or witnessed in person by the signatory for this form to be valid.	
5.	A copy of the signed Certificate of Compliance (CoC), to be submitted as an annexure to this report. This certificate will exclude the EGI components but include all components of the circuit from the Customer Distribution Board up to the terminals at the end of the cable connected to the Embedded Generator. The EG installation shall be certified to comply with all prescriptions in this test report by the ECSA professional (PrEng or PrTech) competent registered person.	
6.	When confirmation is required, answer "Yes" or "N/A" unless specifically instructed to indicate "Yes". The report shall not be issued if any "No" answers appear.	
7.	Note 7. Supplementary information is provided at the end of the form to further explain what is needed in order to complete this report.	
8.	In terms of South African legislation, the user or lessor is responsible for the safety of the embedded generation facility.	
9.	ECSA Professional body registration required for signing off this EGI compliance test report.	
10.	All listed items need to be completed for this form to be valid:	
11.	All tests and requirements in this form must be done in person or witnessed in person by the signatory for this form to be valid.	
12.	A copy of the signed Certificate of Compliance (CoC), to be submitted as an annexure to this report. This certificate will exclude the EGI components but include all components of	

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No.	Specification	Comply
		Yes/ No
	the circuit from the Customer Distribution Board up to the terminals at the end of the cable connected to the Embedded Generator. The EG installation shall be certified to comply with all prescriptions in this test report by the ECSA professional (PrEng or PrTech) competent registered person.	
13.	When confirmation is required, answer "Yes" or "N/A" unless specifically instructed to indicate "Yes". The report shall not be issued if any "No" answers appear.	
14.	Supplementary information is provided at the end of the form to further explain what is needed in order to complete this report.	

References:

- NHLS delegates can also and contact the client or visit the work done as referred on the reference or completion certificate.
- All the contractors will be requested to provides NHLS with the following signed of stamped references or completion certificates of similar work done on company or departments letter head, not more than five years (5) old as per the table below; **Unless specified on the Project Technical evaluations.**

If QUOTE VALUE	REQUIRED REFERENCE OR COMPLETION CERTIFICATES	CONTRACT VALUE OF PROJECT PREVIOUSLY DONE
	Three (3) copies of contactable reference or completion certificate, on client's letterhead, with contact details, valid e-mail address, office telephone, cell phone and business address	At least 3x R200,000.00 and above

Stage 3: functionality evaluation

This evaluation is based on the functional proposal submitted in envelope one (functional envelope). For this phase, there is a cut-off score of **70%** and only the proposals that score **70%** and above during the functional evaluation will be considered during the second phase of evaluation.

FUNCTIONAL EVALUATION

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No	Evaluation Criteria (Bidder's Waste Management Proposal)	Proof Required	Score Allocation	Weighting (%)
10.3	Proof of relevant experience should be provided by means of Reference Letters. Submit at least 3x Reference Letters of similar work done (similar work to be done for solar installation) in line with the value of EB: CIDB grading detailing the following: (1) type of project, (2) period of the project, (3) scope of work, and (4) the result of the project. Reference letters from former clients confirming successful implementation to assist in evaluating required experience.	Submit reference letters Note: Appointment letters and Practical completion will not be considered	30 = Five (5) and or above projects of a similar nature completed. 24= Four (4) projects of a similar nature completed. 18= Three (3) projects of a similar nature completed. 12= Two (2) projects of similar nature completed. 0= One (1) to two (2) projects of a similar nature completed.	30%
10.4	Project Managers' qualifications, skills and experience The Project Manager must submit a comprehensive CV to demonstrate five (5) years' experience in Design and Solar Install as well as a qualification in the following: B-Tech / BSc in Electrical Engineering (ECSA registered) or N. Dip: Electrical Engineering (ECSA registered). The Project Manager must be registered with the Engineering Council of South Africa (ECSA) under Electrical Professional Engineer or Technologist Note: The registered PM with ECSA should be available on the day of site handover to the contractor and to the client. Include the organogram of the project team.	A comprehensive CV, Certificates of Qualification and Professional Body Engineering Council of South Africa (ECSA) under Electrical Prof. Engineer or Technologist with good standing with	30 = B-Tech / BSc in Electrical Engineering (ECSA) with more than 5 years' experience, and with (Solar) PV GreenCard / Attendance certificate for solar system design and installation. Curriculum Vitae of Project Manager to be attached for points scoring. Note: Non-submission or submission of only one of the above will result in no points allocated. 20 = N. Dip: Electrical Engineering (ECSA registered) with more than 5 years' experience, and with (Solar) PV GreenCard / Attendance certificate for solar system design and installation. Curriculum Vitae of Project Manager to be attached for points scoring.	30%

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No	Evaluation Criteria (Bidder's Waste Management Proposal)	Proof Required	Score Allocation	Weighting (%)
		PV GreenCard.	Note: Non-submission or submission of only one of the above will result in no points allocated.	
10.5	Project Team (Electrician) qualifications, skills and experience. The Electrician must submit a comprehensive CV to demonstrate five (5) years of experience as well as a qualification in the following: Trade Test Certificate. Note: Electrical Tradesman should be available on the day of site handover to the contractor and to the client.	A comprehensive CV, Trade Test Certificate.	20= Relevant qualification with 8 years relevant experience and above with and Trade test Certificate. 16= Relevant qualification with 6 years but less than 7 years' relevant experience and with and Trade test Certificate. 12= Relevant qualification with five (5) years' relevant experience and with and Trade test Certificate. 8= Relevant qualification with more than 3 years but less than 5 years' relevant experience and with and Trade test Certificate. 4= Relevant qualification and 1-2 years' relevant experience and with and Trade test Certificate.	20%
10.6	Project Approach and Methodology Bidders must submit (as part of their functional proposal) a comprehensive Project Execution Plan (PEP) comprising the approach to managing the following aspects of the project: Risk	A comprehensive Project execution plan indicating all items listed.	10 points - Bidder has submitted a PEP, covering all the aspects mentioned. - Comprehensive and clear execution plan.	10%

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MADWALENI LABORATORY

No	Evaluation Criteria (Bidder's Waste Management Proposal)	Proof Required	Score Allocation	Weighting (%)
	• Change • Quality • Communications (Including stakeholder engagement, management and reporting) • Time • Scope		ints • PEP clearly linked to scope and, time. • Bidder has submitted a PEP, covering at least the aspects mentioned. • Comprehensive and clear execution plan. • PEP clearly linked to scope and, time. ints • Bidder has submitted a PEP, covering the majority of aspects mentioned. • Good and clear execution plan. • PEP clearly linked to scope and time ints • Bidder has submitted a PEP, covering at least half of the aspects mentioned .	

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BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS EASTERN CAPE
MADWALENI LABORATORY

No	Evaluation Criteria (Bidder's Waste Management Proposal)	Proof Required	Score Allocation	Weighting (%)
			• PEP is comprehensive and clear. • PEP linked to scope and time. 2= Points • Bidder has submitted a few PEPS covering aspects mentioned. • Poor and unclear execution plan. PEP is not clearly linked to scope and time 0 Points • No PEP submitted	
10.7	Project Plan The service provider must provide/ submit a comprehensive, detailed project plan indicating the following: • Feasibility Study Report; • Detailed Design of the PV System; • Installation; • Testing and Commissioning and • Training Details and or Plan of five (5) NHLS staff members.	Submit a comprehensive, detailed project plan with timelines.	10= Submitted a Comprehensive, detailed project plan with timelines indicating the listed requirements. 0= No copy of a project plan submitted, or a plan does not meet all the requirements per the requirements.	10%
TOTAL				100%

Stage 4: Price And Specific Goals Criteria

Bid will be evaluated based on the PPPFA 80/20-point system as presented in the Preferential Procurement Regulations 2022, for this purpose SBD 6.1 form should be scrutinized, completed and submitted together with your quotation. The 80/20-point system will be as follows:

Price Assessment	80 Points
Specific Goals	20 Points

8. SCHEDULE OF WORK CARRIED OUT BY THE BIDDER

The bidder must indicate in the spaces provided below a complete list of similar contracts awarded over the years, including the current contract (if any). This information shall be deemed to be material to the award of this bid.

Company Name	Nature of work	Value of the work	Contact person & contact number	Duration of the project (Start and end date)
		R		
		R		
		R		
		R		
		R		
		R		

Signature of person authorized to sign the bid:_____

Date: _____

SBD 4: DECLARATION OF INTEREST

BIDDER'S DISCLOSURE

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 Bidder Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2 Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of State institution

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**

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

2.2.1 If so, furnish particulars:

.....
.....

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 consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 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) 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.

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

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MADWALENI LABORATORY**

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

SBD 6.1: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

1. GENERAL CONDITIONS

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

- 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 bid).

- a) The applicable preference point system for this bid /RFQ is the **80/20** preference point system.
- b) The **80/20 preference point system** will be applicable in this bid /RFQ. The lowest/ highest acceptable bidder will be used to determine the accurate system once bids are received.

1.3 Points for this bidder (even in the case of a bidder 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 bidder are allocated as follows:

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

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- 1.5 Failure on the part of a bidder to submit proof or documentation required in terms of this bidder to claim points for specific goals with the bid , 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 bidder, either before a bidder 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) **“bid ”** 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 bidding process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money bid ed 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) **“bidder 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).
- (f) **“Historically Disadvantaged Individual (HDI)”**
 - i. 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”) and /or
 - ii. Who is a female; and/or
 - iii. Who has a disability
- (g) **“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.
- (h) **“Youth”** Has the meaning assigned to it in section 1 of the National Youth Development Agency Act, 2008 (Act No. 54 of 2008)
- (i) **“Specific goals”** means specific goals as contemplated in section 2(1)(d) of the PPPFA which may include contracting with persons, or group of persons, historically disadvantage by unfair discrimination on the basis of race, gender and disability including the implementation of programmes of the Reconstruction and Development Programme as published in Government Gazette No. 16085 dated 23 November 1994.

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

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

Where

P_s = Points scored for price of bidder under consideration

P_t = Price of bidder under consideration

P_{min} = Price of lowest acceptable bid

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

$$P_s = 80 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

Where

P_s = Points scored for price of bidder under consideration

P_t = Price of bidder under consideration

P_{max} = Price of highest acceptable bid

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 bid . For the purposes of this bidder the bidder 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 bid :

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 bidder documents, stipulate in the case of—

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

(b) any other invitation for bid , that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable bidder 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.

Points awarded for historically disadvantaged individuals

Preference points for HDI's are calculated on their percentage shareholding in a business, provided that they are actively involved in and exercise control over the enterprise. The following formula is prescribed

$$NEP = NOP \times \frac{EP}{100}$$

Where

NEP = Points awarded for equity ownership by an HDI

NOP = The maximum number of points awarded for equity by an HDI in that specific category

EP = The percentage of equity ownership by an HDI within the enterprise or business, determined in accordance with the definition of HDI's.

A consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level Verification certificate for every separate bid

Table 1: Specific goals for the bidder 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 bidders: The bidder must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this bid	Number of points allocated (80/20 system) (To be completed by the organ of state)	Percentage Owned (To be completed by the bidder)	Number of points claimed (80/20 system) (To be completed by the bidder)
HDI	6	%	
Woman	4	%	
Disabled	1	%	
Youth	4	%	
Locality Eastern cape = 5	5		
Total Points	20		

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number:

MADWALENI LABORATORY

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 bid , 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 bidding 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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary

..... SIGNATURE(S) OF BID ER(S)	
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	
	
	

10. FORM: OHS ACT DECLARATION AND SUBMISSION

The Bidder declares him/herself/herself to be conversant with the following:

1. All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of the Act:
 - i) Section 8: General duties of Employers to their employees ii) Section 9:
General duties of Employers and self-employed persons to persons other than employees.
 - iii) Section 13: Duty to Inform iv) Section 37:
Acts or omissions by employees or mandatories
 - v) Sub-section 37(2) relating to the purpose and meaning of this Agreement
2. Construction Regulations, 2014 (Government Notice R.84) pertaining to the Contractor and to all his Subcontractors, or any amendments thereto.
3. Bid document Volume 3: Project Specification PD: Supplement to Volume 5: Specification for Occupational Health and Safety.
4. Bid document Volume 3: C1.7 Agreement in terms of Occupational Health and Safety Act.

The Bidder declares that he has or will obtain the necessary knowledge, competence and resources to comply fully with all OHS requirements should he be awarded the contract.

The Bidder confirms that he has included with his bid a written quotation describing how he will comply with OHS requirements

Signature	_____	Date	_____
Name	_____	Capacity	_____
Bidder	_____		

11. CONTRACT DATA

PART 1: DATA PROVIDED BY THE EMPLOYER

3.1.3	The Contractor shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract: GCC 2015 3rd Edition 1. Clause 5.8.1 Non-working times 2. Clause 5.11.1 Suspension of the Works 3. Clause 5.12.1 Approval of any extension of time for completion 4. Clause 5.12.4 Acceleration of progress instead of extension of time 5. Clause 5.13.2 Reduction of a penalty for delay 6. Clause 6.3.2 The issuing of variation orders 7. Clause 6.8.4 The determination of additional or reduced cost arising from changes in the legislation 8. Clause 6.11 The agreeing of the adjustment of the sums for general items 9. Clause 10.1.5 The giving of a ruling on a Contractor's claim
5.3.1	Clause 5.3.1: Commencement of the Works The documentation required before commencement with Works execution are: a) Health and Safety Plan b) Initial programme c) Security d) Insurance
5.3.2	Clause 5.3.2: Timeframe to deliver documentation The time to submit the documentation required before commencement with Works execution is fourteen (14) days.
5.4.4	"The Contractor shall bear all costs and charges for special and temporary rights of way required by him/her in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him/her for the purposes of the Works."

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5.8.1	Clause 5.8.1: Non-Working Times The non-working days are Saturdays and Sundays. The special non-working days are:
	1. All gazetted public holidays falling outside the year end break. 2. The year-end break commencing on 14 December and ending on 7 January (Provisional).
5.13.1	Clause 5.13.1: Penalty for Delay The penalty for failing to complete the Works will be charges per day based on the loss suffered due to delays up to a limit of 30 normal working day, upon which automatic termination will be effected by the Employer.
5.16.3	Clause 5.16.3: Latent defect liability The latent defect period is ten (10) years for civil engineering works.
6.8.2	Clause 6.8.2: Contract Price Adjustment The Contract Price Adjustment is not applicable in this contract.
6.8.3	Clause 6.8.3: Variation in Cost of Special Materials Price adjustments for variations in the costs of special materials are not allowed
6.10.1.5	Clause 6.10.1.5: Interim Payments - Materials on Site No percentage advance on materials on site but not yet built into the Permanent Works is allowed for, or will be paid.
6.10.4	Clause 6.10.4: Delivery, dissatisfaction with and payment of payment certificate <i>Add the following to clause 6.10.4:</i> Notwithstanding the above, the Engineer shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.
8.6.1.1.2	Clause 8.6.1.1.2: Insurance The value of the materials supplied by the Employer to be included in the insurance sum is -Nil.

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8.6.1.1.3	Clause 8.6.1.1.3: Insurance The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is Nil.
8.6.1.3	Clause 8.6.1.3: Insurance The limit of indemnity for liability insurance is R5 million for any single claim – the number of claims to be unlimited during the construction.
9.2.1.3.8	The Contractor has furnished inaccurate information in the returnable documents completed at bidder stage and forming part of the Contract.
9.2.1.3.9	An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.
10	Clause 10: Dispute Resolution “Dispute resolution shall initially be by means of ad-hoc adjudication as per Clause 10.5.2. Should adjudication not be successful, then the dispute shall be referred to Arbitration under the provisions of Clause 10.7.1.”
10.4.1	The parties may at time agree to settle disputes with the help of an impartial third party
10.5.3	The number of Adjudication Board Members to be appointed is five (5).
11	Clause 12: Confidentiality The Contractor shall treat the details of the Works comprised in this Contract as private and confidential (save in so far as may be necessary for the purposes hereof) and shall not publish or disclose the same or any particulars thereof in any trade or technical paper elsewhere without prior written consent of the Engineer.
12	Clause 13: Amendments in writing No amendments of this Contract or of any provisions or terms hereof and no waiver or relaxation or suspension of any of the provisions or terms of this Contract shall be of any force or effect unless reduced to writing and signed by both the parties hereto.

PART 2: DATA PROVIDED BY THE CONTRACTOR

The contractor is advised to read the *general conditions of contract for construction works, third edition, 2015* published by the South African institution of civil engineering, private bag x200, halfway house, 1685, in order to understand the implications of this data which is required to be completed. Copies of these conditions of contract may be obtained from www.saice.org.za.

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

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Clause	Data
1.1.1.9	The name of the Contractor is:
1.2.1.2	The address of the Contractor is: Address (physical): Address (postal): Telephone: Facsimile: e-mail:

12. AUTHORITY FOR SIGNATORY

Signatories for close corporations and companies shall confirm their authority **by attaching to this form** a duly signed and dated copy of the relevant resolution of their members or their board of directors, as the case may be.

An example for a company is shown below:

“ By resolution of the board of directors passed on _____ 20 _____

Mr _____ has been duly
authorized to sign all documents in connection with the Bidder for Contract

No _____ and any Contract, which may arise there from on behalf of

SIGNED ON BEHALF OF THE COMPANY: _____

IN HIS CAPACITY AS: _____

DATE: _____

SIGNATURE OF SIGNATORY: _____

AS WITNESSES: 1 _____

2 _____

ANNEXURE A: COMPLIANCE TEST REPORT

THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS LABORATORY	
---	--

1. CERTIFICATE OF COMPLIANCE (CoC) NO.	CoC No.:
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THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY
ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS LABORATORY

Issued under SANS 10142 -1	Date Issued:
2. Name of Building	
3. Physical Address of Installation	
4. Type of EG installation: Inverters, batteries, standby generator, other (specify all combinations used)	
5. Total Generation Capacity installed in kWp (DC) AND total kW (AC)	
6. EGI compliance to all inspection and test requirements in NRS 097-2-1 and ALL grid codes (Indicate YES in confirmation)	
7. Signage boards installed at relevant places, agreed with Utility, and in accordance with SANS standards (Indicate YES in confirmation)	
8. Dead Grid Safety Lock (DGSL) Confirm manufacturer details and required electrical tests completed. (Indicate N/A if there is a lockable isolation switch installed that has been agreed with Utility - refer to item 8 in the SUPPLEMENTARY NOTES for more details)	
9. A lockable isolation switch that is accessible to Utility is installed. (Indicate YES or N/A. N/A is applicable if a DGSL or electromechanical switch is installed that has been agreed with the Utility.	
10. Have operating instructions been provided for the installation? (Indicate YES in confirmation)	
11. Make of inverters Manufacturer detail – Include details of the inverter test certificates as annexure to this report	

**THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 50KW SOLAR PV AND BATTERY
ENERGY STORAGE SYSTEMS (BESS) SYSTEM FOR NHLS LABORATORY**

Model No.'s for all generator units/ Inverters	
No. of generator units/inverters installed, including the KW size for each unit/inverter	
12. Islanding test	
(Indicate YES in confirmation of test completion)	
13. Synchronization test	
(Indicate YES in confirmation of test completion)	
14. Notices applied to all control points and the areas containing the EGI in accordance with Electrical Machine Regulation 5.	
(Indicate YES in confirmation)	
15. Where an alternative supply is installed, it complies with the SANS requirements in respect of these type of connection, including a changeover switch and indicator.	
(Indicate YES in confirmation)	
16. Structural requirements, as per SANS 10400, related to the EGI identified and addressed.	
(Indicate YES or N/A)	
17. Reverse power flow blocking protection has been installed and commissioned to prevent reverse power flow into the utility distribution electricity network	
(Indicate YES or N/A)	
18. Protection settings have been set to comply with NRS 097-2-1 and the approved generation capacity maximum output of the inverter has been limited by appropriate hardware or software settings.	
(Indicate YES in confirmation)	

I, () hereby declare that I have inspected the installation,
examined the associated design and documentation. I have witnessed the relevant tests. I confirm that the
information given above is correct and complies with the Grid Codes, NRS standards, SANS standards and the
applicable statutory requirements.

ECSA Pr Eng or Pr Tech, Registration No. _____

Date: _____

I confirm that I am “competent” in terms of the ECSA act and regulations.

Name of Competent Person: _____ **(in good standing with the ECSA)**

Telephone No. _____

Email Address: _____

Company Stamp

Signature: _____