

**STANDARD BID SOLICITATION DOCUMENT**  
**GOVERNMENT OF GUYANA**



***Supply and Delivery of Solar PV Equipment for  
58 sites : Lots 1-8***

**GUYANA ENERGY AGENCY**



**January , 2025**

# **GOODS AND RELATED SERVICES (VALUE G\$15 million and above)**

## **Introduction**

### **Preface**

This Standard Bid Solicitation Document (SBSD) has been prepared by the National Procurement and Tender Administration Board (NPTAB) for use by Procuring Entities for the procurement of goods and services. The procedures and methods presented in this document have been developed on the basis of practical experience and are mandatory for use in the procurement carried out in whole or in part from the state funds in accordance with the provisions of Guyana's Public Procurement Legislation.

In order to simplify the preparation of the bid document for each individual procurement proceeding, the SBSB groups the provisions that are not intended to be changed in "the Instructions to Bidders" and in "the General Conditions of Contract". Data and provisions specific to each procurement and contract should be included in the Bid Data Sheet, the Special Conditions of the Contract, Technical specifications, price schedule, schedule of requirements and the Evaluation Criteria. The applicable forms are listed in the table of contents, below.

Request for additional information can be forwarded to:

Guyana Energy Agency  
295 *Quamina Street, South Cummingsburg, Georgetown*  
Telephone number: 592-226-0394  
E-mail: [gea@gea.gov.gy](mailto:gea@gea.gov.gy)  
Website: [www.gea.gov.gy](http://www.gea.gov.gy)

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## INVITATION FOR BIDS (IFB)

1. **The Guyana Energy Agency** hereinafter referred to as “the Procuring Entity”, invites eligible bidders to submit their bids as per the required specifications mentioned in the Bidding Documents for the **Supply and Delivery of Solar PV Equipment for 58 sites: Lots 1-8**

**Lot 1: Multimodal Inverters**

**Lot 2: Solar PV Modules**

**Lot 3: VRLA Batteries**

**Lot 4: Lithium Battery Energy Storage System**

**Lot 5: Solar PV Array Roof Mounting Hardware**

**Lot 6: Balance of System (BoS) Equipment**

**Lot 7: Electrical Conduits and Fittings**


**Lot 8: Electrical Equipment**

**Bidders may bid for individual lots or for any combination of lots.**

2. Required period of supply: **Ninety (90) days from the signing of the Contract.**
3. The bidding documents may be purchased by interested bidders for a non-refundable fee in the amount of \$2,000 (two thousand dollars) from the Cashier at the *Guyana Energy Agency, 295 Quamina Street, South Cummingsburg, Georgetown*. Alternatively, interested eligible bidders may download a free copy of the Bid document from the GEA website [www.gea.gov.gy](http://www.gea.gov.gy).
4. All Bidders should submit their bids together with an original bid security of 2% of the tendered amount not later than 09:00 hours on **20<sup>th</sup> day of February 2025** at the address: **National Procurement & Tender Administration Board, Ministry of Finance, Main & Urquhart Streets, Georgetown.**

Clarifications must be submitted in writing to the GEA’s email address at [gea@gea.gov.gy](mailto:gea@gea.gov.gy) no later than one week prior to the deadline for the bid submission.

5. Bids shall be valid for one hundred and twenty days (120) days after the date of bid opening.
6. Bids shall be opened by the National Procurement and Tender Administration Board in the presence of Bidders’ representatives who wish to attend, at 09:00 hours on **20<sup>th</sup> day of February 2025** at the address: 49 Main and Urquhart Streets, Georgetown.
7. Bidders are required to complete the Bidders Registration via the following NPTA website: [Bidders Registration – The National Tender & Procurement Administration \(NPTA\) of Guyana](#)

  
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**Dr. Mahender Sharma**  
**Chief Executive Officer- Guyana Energy Agency**





## INSTRUCTIONS TO BIDDERS

### A. Introduction

#### 1. Description of the Procurement

The Procuring Entity identified in the *Bid Data Sheet* intends to procure the goods identified in the *Bid Data Sheet* and in the *Schedule of Requirements*.

The project is in keeping with the country's Low Carbon Development Strategy. The benefits of this initiative are detailed below.

Generally, this project will assist in decreasing the reliance on imported fossil fuels, lower electricity consumption from the utility and lead to avoided CO<sub>2</sub> emissions.

The multimodal inverter in this document refers to a grid-connected inverter/charger that is primarily used for purposes of providing backup power to a facility (and in some cases selected/priority loads) via energy stored in batteries.

The battery energy storage system should provide the primary function of allowing the maximum use of energy stored during the periods when solar energy is not available (at nights) or when power failure occurs, thereby minimising the amount of energy used from the standby generator. It should be capable of providing rapid response when the intermittent source cannot meet the energy requirement of the building.

Electricity generated from the PV arrays would be used for internal consumption and recharging the batteries. The project will also seek to demonstrate the applicability of photovoltaic system operation with energy storage and its energy contribution to Guyana. It is expected to contribute towards Guyana's efforts to reduce reliance on imported fossil fuels through the popularization and deployment of Renewable Energy Technologies.

#### 2. Eligibility and Qualifications of Bidders

- 2.1 In order to be awarded a procurement contract, Bidders should possess the technical and financial capacity needed to perform the contract, should fulfill their tax and social insurance fund liabilities in Guyana, should not currently be subject to a debarment penalty, and must comply with the specific eligibility and qualification requirements referred to in the *Bid Data Sheet* and *Evaluation Criteria*.
- 2.2 The bidders should not have conflicts of interest, including involvement in more than one bid in this proceeding, should not be associated nor have been associated in the past, directly or indirectly, with any agency or any of its representative(s), affiliate(s), that have been engaged by the Procuring Entity to provide consulting services at the preparation stage of the bidding documents, technical specifications and other documentation that are subject to be used in the procurement of goods which must be purchased in accordance with the Invitation for Bids. In cases when the indicated facts are discovered, the Bidder's bid shall be rejected.

### B. Bidding Documents

#### 3. Clarification and Amendment of Bidding Documents

- 3.1 The Procuring Entity, in not more than three (3) working days, will respond in writing or electronic mail to any request for clarification of the bidding documents to be received (in writing or electronic mail) not later than seven (7) days before the expiry of a deadline for submission of bids. At the same

time, the Procuring Entity's response shall without identifying its source of the request, be distributed to all bidders who have received the bidding documents from the Procuring Entity.

- 3.2 At any time before the deadline for submission of bids, the Procuring Entity may amend the bid documents by issuing an Addendum to the bidders.

### **C. Preparation of Bid**

#### **4. Language of Bid**

- 4.1 The bid prepared by the Bidder, as well as all correspondence and documents related to that bid and exchanged by the Bidder and the Procuring Entity shall be written in the language specified in the *Bid Data Sheet*.

#### **5. Documents Included in Bid**

- 5.1 The bid prepared by the Bidder should contain the *Form of Bid*, the *Price Schedules* and the other documents to be submitted in accordance with these *Instructions to Bidders*, *Bid Data Sheet* and *Evaluation Criteria*.

#### **6. Bid Price**

- 6.1. Subject to the choice of INCOTERMS as indicated in the *Bid Data Sheet*, the prices given in the *Price Schedule* shall include all transportation costs to the destination point indicated in the Contract, all taxes, duties, payments collected, in accordance with the laws of Guyana and delivery related and other costs on performing of contractual obligations.
- 6.2. The prices offered by the Bidders shall remain fixed during the whole period of Contract performance and shall not be modified in any circumstance.

#### **7. Bid and Payment Currency**

- 7.1 The prices shall be indicated in Guyana Dollars, unless otherwise specified in the *Bid Data Sheet*.

#### **8. Bid Security**

- 8.1 Unless otherwise provided in the *Bid Data Sheet*, the Bidder shall furnish, as part of his bid, an original Bid Security, in the form, currency and amount specified in the *Bid Data Sheet* with a validity period for not less than two (2) weeks upon the expiry of the bid validity period and in accordance with the specified form.

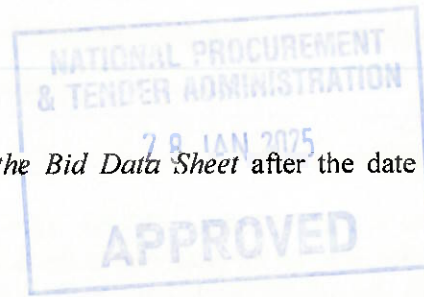
- 8.2 The bid security may be forfeited, if the Bidder:

(a) withdraws their bid after it is opened during the period of validity specified in the bid; or,

(b) having been awarded the contract fails:

(1) to sign the contract on the terms and conditions provided in their bid; or

(2) to furnish the Performance Security, if required to do so.



**9. Period of Validity of Bid**

9.1 Bids shall remain in force during the period specified in *the Bid Data Sheet* after the date of bid opening.

**10. Format, Signing and Submission of Bid**

10.1 The Bidder shall prepare one (1) original bid and one (1) hard copy which shall be completed in writing in indelible ink and shall be signed by the Bidder, or by the person (persons) duly authorized to sign the bid in accordance with the power of attorney and 2 (two) exact electronic PDF copies of the bid on Flash Drive, to be submitted with the bid. All pages of the bid where new information, modifications or erasures entered shall be initialed (signed) by the person or persons signing the bid. In the event of discrepancies between them, the original shall prevail.

10.2 The bid shall contain no interlineations, erasures or overwriting, except the cases when the Bidder needs to correct errors which must be initialed by the person or persons signing the bid.

10.3 The Bidder shall seal the original and Electronic PDF copies of the bid in different envelopes, marking them "**ORIGINAL**" and "**COPIES**", as appropriate. The envelopes shall then be sealed in an outer envelope.

10.4 The outer envelope shall:

- (a) be addressed to The **Chairman, National Procurement & Tender Administration Board (NPTAB), Main & Urquhart Streets, Georgetown**
- (b) bear the **Name of the Project (Supply and Delivery of Solar PV Equipment for 58 Sites : Lots 1-8** and the words: "**DO NOT OPEN BEFORE,**" 09:00 hours on **20<sup>th</sup> day of February 2025.**

**11. Deadline for Submission of Bids**

11.1 Bids must be received by the Procuring Entity at the address and within the periods specified in the *Bid Data Sheet*. All bids received by the Procuring Entity upon the expiry of a period established for submission of bids as indicated by the Procuring Entity shall be rejected and returned to the Bidder unopened.

**12. Modification and Withdrawal of Bids**

12.1 The Bidder may modify or withdraw their bid after the bid's submission, provided that the Procuring Entity will receive a written notice of modification, substitution or withdrawal of bid before the deadline for submission of bids.

12.2 The Bidder's modification, substitution or withdrawal notice shall be prepared, sealed, marked, and sent in accordance with the provisions of ITB Clause 10. In that case the outer and inner envelopes will be additionally marked as "**MODIFICATION**" or "**WITHDRAWAL**", as appropriate. A withdrawal notice may also be sent by email with a subsequent written confirmation not later than the deadline for submission of bids.

## D. Opening and Evaluation of Bids

### 13. Opening of Bids

- 13.1 The Procuring Entity will open all bids in the presence of bidders' representatives who wish to attend, at the time, on the date, and at the address specified in the *Bid Data Sheet*. The bidders' representatives who are present shall sign a register evidencing their attendance.
- 13.2 The bidders' names, bid prices, including alternatives (if permitted), information on the presence or absence of required bid security, information on the presence (absence) of tax debts and debts of social insurance payments will be announced at the opening. No bid shall be rejected at the opening, exclusive of late bids and unidentified Bids to be returned to the Bidder unopened.
- 13.3 Bids and modifications sent pursuant to ITB Clause 12.2 that are not opened and read out during the bid opening shall not be accepted for further evaluation, regardless of circumstances.

### 14. Evaluation of Bids

- 14.1 During the evaluation of bids, the Procuring Entity may, at its discretion, request the Bidder to provide clarification of their bid. The request for clarification and the response thereto shall be made in writing, and in that case no change in price or substance of the bid shall be sought, offered, or permitted.
- 14.2 The Procuring Entity shall determine the responsiveness of each bid to requirements of the bidding documents. For the purposes of this Clause a substantially responsive bid is one which satisfies all the indicated provisions without a material deviation or reservation.
- 14.3 The Procuring Entity may regard a tender as responsive if it contains any minor deviations, that do not materially alter or depart from the characteristics, terms and conditions and other requirements of the bid solicitation documents, or if it contains errors or over sights that are capable of being corrected without touching the substance of the tender. To the extent feasible and appropriate, for the purposes of comparing bids, acceptable deviations shall be quantified in monetary terms, and reflected in adjustments to the bid price (for the purposes only of comparison of bids).
- 14.4 Arithmetical errors shall be rectified in the following manner. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words shall prevail. If the Bidder disagrees with such correction of errors, their bid shall be rejected.
- 14.5 The Procuring Entity shall evaluate and compare only the bids that are determined to be responsive to the Bid Solicitation Document.

### 15. Confidentiality and Contacting the Procuring Entity

- 15.1 No Bidder shall contact the Procuring Entity on any matter related to their bid from the date of bid opening until the date of contract award, except for requests related to clarification of the bid. Information concerning the evaluation of bids is confidential.
- 15.2 Any effort by the Bidder to influence the Procuring Entity's decision on bid evaluation and comparison, or contract award may result in the rejection of that Bidder's bid and subjected to debarment in accordance with Regulation 3(1)(b) of the Procurement (suspension and debarment) Regulations 2019.



## E. Award of Contract

### 16. Award Criteria

- 16.1 Subject to ITB Clause 18, the Procuring Entity will award the Contract to the Bidder whose bid is determined to be substantially responsive to the requirements of the bid solicitation document, and who offered the **Lowest Evaluated Bid**, provided that the Bidder has been determined:
- (a) to be eligible pursuant to Clause 2;
  - (b) to comply with qualification requirements, in accordance with Clause 2, and any technical requirements and evaluation criteria disclosed in the bid solicitation documents.

### 17. Procuring Entity's Right to Vary Quantities at Time of Entering into a Contract

- 17.1 The Procuring Entity reserves the right, when entering into a contract, to increase or decrease the quantity of goods and related services specified in the Schedule of Requirements, by the percentage indicated in the *Bid Data Sheet*, no change in the unit price or other conditions shall be made (an increase of quantity **not exceeding 10 percent variation**)

### 18. Procuring Entity's Right to Accept Any Bid and to Reject All Bids

- 18.1 The Procuring Entity reserves the right to accept or reject any bid or all bids, and to cancel the bidding process at any time prior to award of contract, without thereby incurring any liability to Bidders and without being required to inform the Bidder or Bidders of reasons of such actions.

### 19. Notification of Award

- 19.1. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the bid validity period.
- 19.2. The notice of acceptance shall be given to the successful bidder within fourteen (14) days of the award of contract.
- 19.3. At the same time that the Procuring Entity notifies the successful Bidder in accordance with sub-clause (1), the Procuring Entity will notify all other Bidders of the name of successful Bidder, and their bid price.

### 20. Signing of Contract and Performance Security

- 20.1 The Procuring Entity will send the successful Bidder the Form of Contract contained in the bid solicitation document. The successful Bidder shall sign and date the Contract and return it to the Procuring Entity within seven (7) days of receipt of notice of award.
- 20.2 Together with the signed Contract, the Bidder shall, if required to do so by the *Bid Data Sheet*, furnish the Procuring Entity with a Performance Security in the amount and form specified in the *Bid Data Sheet*.
- 20.3 If the successful Bidder fails to furnish the performance security, if required to do so, or within 7 (seven) days fails to return the Contract signed by them, then it shall be a sufficient ground to refuse the award of Contract, and to forfeit the bid security, In that case the Procuring Entity shall award the Contract to the next lowest evaluated Bidder, subject to the right of the Procuring Entity to reject all bids.

### 21. Settlement of Disputes

- 21.1 To settle the disputes which may arise during the execution of Contract, the parties shall follow the

procedure referred to in the *Bid Data Sheet*.

**22. Corrupt and Fraudulent Practices**

22.1 The Procuring Entity requires that Bidders observe the highest standards of ethics during the bidding process and execution of such contracts. In pursuance of this policy, the Procuring Entity:

- (a) will reject the bid if it establishes that the Bidder recommended for award has engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract in question.
- (b) refer the matter to the Public Procurement Commission (PPC) in accordance with the provisions of Procurement (Suspension and Debarment) Regulations 2019.

**23. Compliances**

23.1 Bidder must submit valid certificates of compliances from Guyana Revenue Authority (GRA), National Insurance Scheme (NIS), and VAT registration (*where applicable*).

**24. Defects Liability:**

24.1 The "Defects Liability Period" for the goods and related services is six (6) months from the date of taking over possession or such other period as may be specified in the Bid Data Sheet. During this period, the supplier will be responsible for rectifying any defects or replacement of goods free of cost to the Procuring Entity.

## BID DATA SHEET (BDS)

The following specific data to clauses of the provisions of *Instructions to Bidders* which supplement or amend the provisions of the *Instructions to Bidders* (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

Item No.	
<b>ITB 1.1</b>	<p>Guyana Energy Agency, 295 Quamina Street, South Cummingsburg, Georgetown, tel:226-0394, <a href="mailto:gea@gea.gov.gy">gea@gea.gov.gy</a>.</p> <p>The subject of the procurement is: <b>Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8</b></p> <p style="margin-left: 40px;"> <b>Lot 1: Multimodal Inverters</b>  <b>Lot 2: Solar PV Modules</b>  <b>Lot 3: VRLA Batteries</b>  <b>Lot 4: Lithium Battery Energy Storage System</b>  <b>Lot 5: Solar PV Array Roof Mounting Hardware</b>  <b>Lot 6: Balance of System (BoS) Equipment</b>  <b>Lot 7: Electrical Conduits and Fittings</b>  <b>Lot 8: Electrical Equipment</b> </p> <p style="text-align: right; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">             NATIONAL PROCUREMENT              &amp; TENDER ADMINISTRATION              28 JAN 2025              APPROVED         </p> <p><b><u>Bidders may bid for individual lots or for any combination of lots.</u></b></p>
<b>ITB 2.1</b>	To qualify for award of the Contract, the bidders shall meet the qualification requirements set out in the evaluation criteria (page 52-53)
<b>ITB 4.1</b>	Language of Bid shall be English Language. All submission must be in <b>English</b> .
<b>ITB 5.1</b>	<p>The Bidder shall submit the following additional documents in its bid:</p> <ol style="list-style-type: none"> <li>1. Evidence of <b>Financial Capability</b> in the amount of 30% of the bid price in the form of a bank statement or letter of credit from a commercial bank in the name of the bidder dated one month prior to bid submission. Letter of credit must state a figure. The document must be dated within one month of the bid opening date and be clearly legible. When a photocopy of the letter of credit or bank statement is presented, it must be certified a “true copy of the original” by the issuing company.</li> <li>2. Submission of a <b>valid business registration or certificate of incorporation</b>, inclusive of list of directors, that is clearly legible. Where bidder is part of an unincorporated joint venture, a legible copy of joint venture agreement is required. Copy of joint venture agreement must state the joint venture partner to which invoice will be paid and contract to be signed. Where bidder is a joint venture company, a legible copy of certificate of incorporation is to be submitted. Each party must submit valid compliance as per items 2 and 3 of the Evaluation Criteria.</li> <li>3. Written confirmation of <b>authorizing signatory</b> must be provided. For the incorporated company this must be in the form of a Power of Attorney endorsed by a Commissioner of Oaths or Justice of Peace. For a registered business that has appointed an employee to sign the bid, a letter of authorizing signatory must be provided.</li> <li>4. Valid certificates of <b>compliance from GRA and NIS and VAT</b> registration (only applicable to Bidder’s resident in the country of the Procuring Entity).</li> <li>5. Completed <b>litigation form</b> on page 54 of the bidding documents.</li> <li>6. A letter stating any or <b>no termination or abandonment of projects</b>. The letter must be dated</li> </ol>



<p style="writing-mode: vertical-rl; transform: rotate(180deg);">                 NATIONAL PROCUREMENT                  &amp; TENDER ADMINISTRATION                  28 JAN 2025                  APPROVED             </p>	<p>within one month of the bid opening date.</p> <ol style="list-style-type: none"> <li>7. Provide documentary evidence that the goods are <b>ISO certified and Tropic resistant</b>;</li> <li>8. Provide documentary evidence that the PV modules comply with <b>IEC 61215 &amp; IEC 62804 for Crystalline Silicon PV Modules (or equivalent) standards</b>, and that the inverters are UL 1741 listed;</li> <li>9. Provide documentary evidence to demonstrate that the Goods offered meet all the technical specifications of the bidding document. Technical literature must include data sheets and specific technical information on each of the items of equipment and components proposed for the photovoltaic system;</li> <li>10. <b>Certificates of product quality</b> (modules and inverters) issued by a recognized laboratory accredited by the International Laboratory Accreditation Cooperation (ILAC) and which must be valid up to the date of commissioning of the system;</li> <li>11. Documentary evidence that batteries comply with IEC 61427:1999 and the manufacturing process conformed to environmental management standard ISO 140010</li> <li>12. An <b>implementation schedule</b> indicating important milestones such as equipment procurement, delivery to site and testing. Frequent progress reports and work plan are to be provided to the procuring entity as required by the procuring entity during project execution.</li> <li>13. Bidder must provide <b>audited financial statements</b> for the years: 2021, 2022 and 2023 for incorporated companies. Financial statements must be audited by a Chartered accountant/accountancy firm and include an auditor's note. OR Registered businesses must provide Balance Sheets, Profit and Loss Accounts, and Income and Expenditure Accounts for the years: 2021, 2022 and 2023 These financial statements must be approved by a Chartered accountant/accountancy firm. The financial analysis would include: Current ratio: &gt;1 for each year of the last 3 years; Net worth: +ve and minimum of 20% of bid value; Average annual turnover: GYD 6 million. The detailed evaluation criteria can be found on page 52- 53 of the bidding documents</li> </ol>
<p><b>ITB 6.1</b></p>	<p>The price quoted by bidders shall be on the basis of DDP for goods delivered from abroad, and for goods delivered from Guyana. Incoterms Delivered Duty Paid (DDP) are applicable.</p>
<p><b>ITB 7.1</b></p>	<p>Currency of Bid shall be in Guyana Dollars</p>
<p><b>ITB 8.1</b></p>	<p>A bid security of two percent (2%) of the tendered sum is required in the form of a Bank guarantee or a bond from an Insurance company licensed by the Bank of Guyana.</p>
<p><b>ITB 9.1</b></p>	<p>The period of validity of bid is one hundred and twenty (120) days</p>
<p><b>ITB 11.1</b></p>	<p>Deadline and place for submission of bids at 09:00 hours on the <b>20<sup>th</sup> day of February 2025</b> at the address: <b>The National Procurement &amp; Tender Administration Board, Ministry of Finance, Main &amp; Urquhart Streets, Georgetown, Guyana</b></p>
<p><b>ITB 13.1</b></p>	<p>Time and place for opening of bid: 09:00 hours on <b>20<sup>th</sup> day of February 2025</b> at <b>The National Procurement &amp; Tender Administration Board, Ministry of Finance, Main &amp; Urquhart Streets, Georgetown, Guyana.</b></p>
<p><b>ITB 17.1</b></p>	<p>Increase or decrease in the quantity of goods and services not exceeding 10%.</p>
<p><b>ITB 20.2</b></p>	<p>The Performance security amount will be Ten (10%) of the contract price. Performance Security must be in the form of a Bank Guarantee or a bond from an Insurance company licensed by the Bank of Guyana. This shall be valid for the duration of the contract period.</p>
<p><b>ITB</b></p>	<p>Disputes that may arise in the performance of the contract shall be settled in accordance with the</p>



<b>21.1</b>	applicable Laws of Guyana.
<b>ITB 24.1</b>	The duration of the defect's liability period is six (6) months following provisional acceptance.

NATIONAL PROCUREMENT  
& TENDER ADMINISTRATION  
28 JAN 2025  
APPROVED

## GENERAL CONDITIONS OF CONTRACT (GCC)

The General Conditions are the Standard General Conditions of Contract. No alteration shall be made on the pages of these Conditions. The Procuring Entity, when amending or supplementing the General Conditions of Contract should do so only in the *Special Conditions of Contract*. Any amendment or addenda of the General Conditions of Contract shall conform to the legislation of Guyana.

### 1. Definitions and Application

1.1 This Contract lists below the terms that have the following interpretation:

- (a) **"Contract"** means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Form of Contract signed by the parties, including all attachments and appendices thereto and all the documents referenced therein.
- (b) **"Contract Price"** means the price payable to the Supplier under the Contract for complete and proper performance of his contractual obligations.
- (c) **"Goods"** means the item (s) referred to in the Schedule of Requirements contained in the Bid Solicitation Document.
- (d) **"GCC"** - means the General Conditions of Contract contained in this Section.
- (e) **"SCC"** means the Special Conditions of Contract.
- (f) **"Procuring Entity"** means the Procuring entity carrying out the procurement of Goods, specified in the SCC.
- (g) **"Supplier"** means an individual or legal entity, or a combination of any abovementioned forms which operate under the existing agreement as a joint venture and supply the Goods and Services under the Contract.
- (h) **"Day"** means calendar day.

1.2 The *General Conditions of Contract* shall apply in the procurement of goods; the specific amendment, addition and alteration shall be indicated in the *Special Conditions of Contract*.

1.3 Warranty requirements are as specified in the *Special Conditions of Contract*.

### 2. Contract Documents

2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The contract shall be read as a whole.

### 3. Performance Security

3.1 If required by the SCC, within seven (7) days of receipt of notification of award, the successful Bidder shall furnish the Procuring Entity with the performance security the amount and form of which are indicated in the SCC.

**4. Packing**

4.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to final destination specified in the Contract, and as may be required by the *Special Conditions of Contract*.

**5. Delivery, Transportation, Mobilization Advance**

5.1 The Supplier must deliver the Goods within the periods and to the Destination point indicated in the *Schedule of Requirements* and shall provide the documentation indicated in the SCC. Subject to the SCC, transportation of the Goods to the place specified by the Procuring Entity shall be carried out and paid by the Supplier and related costs shall be included in the Contract Price.

**6. Payment**

6.1 The payment to the Supplier for the Goods delivered shall be made in accordance with the Contract in the form and within the periods specified in the SCC.

6.2 If the Procuring Entity does not pay the Supplier the sum due within the periods specified in the Contract, in that case the Procuring Entity shall pay the Supplier [interest at the rate specified or determined pursuant to the *Special Conditions of Contract*].

**7. Prices**

7.1 Prices established by the Supplier in the Contract for goods delivered shall not vary from the prices quoted by the Supplier in his bid.

**8. Assignment**

8.1 The Supplier shall not assign, in whole or in part, his obligations under the Contract to a third party for the execution without the Procuring Entity's prior written consent.

**9. Delays in the Supplier's Performance and Liquidated Damages**

9.1 Delivery of the Goods shall be carried out by the Supplier, in accordance with the schedule indicated by the Procuring Entity in the *Schedule of Requirements*.

9.2 Except for provided under GCC Clause 13, the delay in the Supplier's performance of their delivery obligations shall render the Supplier liable for payment of liquidated damages in the amount specified in the SCC, unless an extension of time is agreed upon by the parties without application of liquidated damages. Once the maximum deduction specified in the SCC is reached, the Procuring Entity may consider termination of the Contract, in accordance with Clause 10 of the *General Conditions of Contract*.

**10. Termination**

10.1 The Procuring Entity, without detriment to any other sanctions of infringement of the provisions of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver a portion or all of the Goods within the periods provided for in the Contract, or within an extension period of that Contract, or to perform any of his obligations under the Contract.

- (b) if bankruptcy procedures are applied to the Supplier, or it is declared insolvent.
- (c) if the Supplier, in the Procuring Entity's opinion, has engaged in corrupt, fraudulent, collusive or coercive practices when entering into or executing the Contract.
- (d) If the Procuring Entity deems that continued implementation of the contract would no longer be expedient from the standpoint of the public interest.

10.2 The notice of termination shall specify the reason of termination, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

10.3 Notwithstanding clauses 9 and 10.1(d), the Supplier shall not forfeit their performance security, and shall not be liable for payment of liquidated damages, or termination for default, if delay in executing the Contract or failure to perform obligations under the Contract is the result of an event of force majeure. When force majeure arises, the Supplier shall promptly notify the Procuring Entity in writing of such circumstance and its causes.

10.4 When the contract is terminated in accordance with clause 10.1(d), the Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Entity at the Contract terms and prices. For the remaining Goods, the Procuring Entity may elect:

- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

## 11. Settlement of Disputes

11.1 If any dispute or disagreement arises between the Procuring Entity and the Supplier for the Contract or in connection with it, the parties shall make every effort to resolve the dispute or disagreement amicably by mutual consultation.

11.2 If during twenty one (21) days, the parties failed to resolve their dispute or disagreement by mutual consultation; either the Procuring Entity or the Supplier may send the other party the notice of intent to commence arbitration, if an arbitration is incorporated in the Contract in the *Special Conditions of Contract* or otherwise agreed by the parties, or in the Court of General Jurisdiction if no arbitration is envisaged, and no arbitration or litigation in respect of that matter may be commenced unless such notice is given.

Any dispute or disagreement in respect of which the notice of intent is sent to commence trial shall be heard by the [Court of General Jurisdiction].

11.3 Notwithstanding any reference to dispute settlement herein, the parties shall continue to perform their obligations under the Contract, unless they agree otherwise.

## 12. Applicable Law

12.1 The Contract shall be interpreted in accordance with the Laws of Guyana.



**13. Formal Communication between the Procuring Entity and the Supplier**

13.1 Any notice given by one party to the other pursuant to the Contract shall be in force if it is done in writing and sent at the address of other party in the SCC.

13.2 A notice shall be effective when delivered or on the specified date, whichever is later.

**14. Taxes and Duties**

14.1 The Supplier shall be fully responsible for all taxes, duties, license taxes, etc., levied in accordance with the legislation of Guyana, and subject to the application of INCOTERMS in accordance with the SCC.

**15. Retention**

15.1 No retention shall be applied on consumables, but warranties, guarantees and expiry dates to apply.

15.2 Retention on fixed assets shall be determined by the procuring entity on a case-by-case basis.

**SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract shall supplement the *General Conditions of Contract*. Whenever there is a conflict, the provisions herein shall prevail over those in the *General Conditions of Contract*.

GCC Clause No.	Special Conditions of Contract
<p><b>1.1</b></p>	<p><b>Definitions</b></p> <p>The Procuring Entity is the Guyana Energy Agency, 295 Quamina Street, South Cummingsburg, Georgetown, tel:226-0394, Fax:226-5227, gea@gea.gov.gy.</p> <p>The Supplier is _____ <i>(indicate full name, legal address, phone, fax and e-mail of Supplier)</i></p> <p>The Subject of procurement is the <b>Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8:</b></p> <p style="padding-left: 40px;"> <b>Lot 1: Multimodal Inverters</b>  <b>Lot 2: Solar PV Modules</b>  <b>Lot 3: VRLA Batteries</b>  <b>Lot 4: Lithium Battery Energy Storage System</b>  <b>Lot 5: Solar PV Array Roof Mounting Hardware</b>  <b>Lot 6: Balance of System (BoS) Equipment</b>  <b>Lot 7: Electrical Conduits and Fittings</b>  <b>Lot 8: Electrical Equipment</b> </p> <p><b>Warranty</b></p> <p>The supplier warrants all Goods supplied under the contract are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the contract. The supplier further warrants that all Goods supplied under this contract shall have no defect, arising from design, materials or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.</p> <p>Any item found defective during the warranty period shall be replaced free of cost to the satisfaction of the Procuring Entity.</p>
<p><b>3.1</b></p>	<p><b>Performance Security</b></p> <p>The amount and form of Performance Security is 10% of the contract price. The performance bond shall be issued from a local commercial bank within 14 days of signing of the contract. The bond shall be valid for the entirety of the contract period.</p>
<p><b>4.1</b></p>	<p><b>Packing:</b></p> <p>The Supplier shall provide such packing of the Goods as is required to prevent damage or deterioration during transit to the final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit.</p>
<p><b>5.1</b></p>	<p><b>Delivery and Transportation</b></p> <p><b>The following documentation is to be provided by the Supplier to the Procuring Entity:</b></p>



	<p>(1) Copies of Supplier's invoice indicating a description, quantity, unit price of the Goods and sum total.</p> <p>(2) Shipping order, railway receipt or truck receipt.</p> <p>(3) Warranty certificate of Manufacturer or Supplier;</p> <p>(4) Inspection certificate issued by the authorized inspection service, and the supplier's factory inspection report (if any);</p> <p>(5) Certificate of origin;</p> <p>(6) Certificate of conformity</p> <p>(7) Certificate of Quality</p>
6.1	<p><b>Payment for each Lot:</b></p> <p>(a) Ten percent (10%) of the contract price within 14 days of signing the contract and the submission of the performance bond.</p> <p>(b) Eighty percent (80%) of the contract price upon delivery and physical verification by the procuring entity that goods have complied with the technical specifications.</p> <p>(c) Ten percent (10) of the contract price upon expiry of the defects liability period barring the correction of defects.</p>
9.2	<p><b>Liquidated Damages</b>                  Applicable rate: 0.05% per week for untimely execution of order.                  Maximum deduction: 10% of the delayed works/delivery</p>
11.2	<p><b>Settlement of Disputes</b>                  Disputes arising out of or in connection with the Contract shall be settled in accordance with the Laws of Guyana.</p>
14.1	<p><b>Taxes and Duties</b>                  The version edition of INCOTERMS shall be: Delivered Duty Paid (DDP)</p>
16.1	<p><b>Defects Liability</b>                  The duration of the defect's liability period is 6 months following provisional acceptance. During this period, the contractor will be responsible for rectifying any defects free of cost to the Procuring Entity.</p>

NATIONAL PROCUREMENT  
 & TENDER ADMINISTRATION  
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**SCHEDULE OF REQUIREMENTS/DELIVERY SCHEDULE**

The delivery schedule expressed as days specifies hereafter the date of delivery to destination point. In column "the delivery schedule", the Procuring Entity shall indicate the date from which schedule starts. It should be either the date of award, or the date of signing of Contract, or the date of opening of letter of credit, or the date of confirming the letter of credit (subject to circumstances). The Form of Bid shall specify only reference to that schedule.

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Place of Delivery	Procuring Entity's Completion Schedule (---days as of signing of the contract)	Bidder's Offered Completion Schedule	
						Earliest Delivery	Latest Delivery
<b>Lot 1: Multimodal Inverters</b>							
1	All-In-One Inverter/Charger/Charge-Controller 5000Wac 48VDC/120/240VAC	53	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
	All-In-One Inverter/Charger/Charge-Controller 8000Wac 48VDC/120/240VAC	8	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 2: Solar PV Modules</b>							
2	550 Watts Photovoltaic Modules	503	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 3: VRLA Batteries</b>							
3	VRLA Deep Cycle Battery; 12V, 200AH (minimum)	488	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 4: Lithium Battery Energy Storage System</b>							
4	Lithium Battery Energy Storage System (48V)	192	kWh	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 5: Solar PV Array Roof Mounting Hardware</b>							
5	1. Solar PV Module Mounting Rail (14ft)	302	length	Guyana Energy Agency, 295	90 days		



	<p>(1) Copies of Supplier's invoice indicating a description, quantity, unit price of the Goods and sum total.</p> <p>(2) Shipping order, railway receipt or truck receipt.</p> <p>(3) Warranty certificate of Manufacturer or Supplier;</p> <p>(4) Inspection certificate issued by the authorized inspection service, and the supplier's factory inspection report (if any);</p> <p>(5) Certificate of origin;</p> <p>(6) Certificate of conformity</p> <p>(7) Certificate of Quality</p>
<b>6.1</b>	<p><b>Payment for each Lot:</b></p> <p>(a) Ten percent (10%) of the contract price within 14 days of signing the contract and the submission of the performance bond.</p> <p>(b) Eighty percent (80%) of the contract price upon delivery and physical verification by the procuring entity that goods have complied with the technical specifications.</p> <p>(c) Ten percent (10) of the contract price upon expiry of the defects liability period barring the correction of defects.</p>
<b>9.2</b>	<p><b>Liquidated Damages</b>                  Applicable rate: 0.05% per week for untimely execution of order.                  Maximum deduction: 10% of the delayed works/delivery</p>
<b>11.2</b>	<p><b>Settlement of Disputes</b>                  Disputes arising out of or in connection with the Contract shall be settled in accordance with the Laws of Guyana.</p>
<b>14.1</b>	<p><b>Taxes and Duties</b>                  The version edition of INCOTERMS shall be: Delivered Duty Paid (DDP)</p>
<b>16.1</b>	<p><b>Defects Liability</b>                  The duration of the defect's liability period is 6 months following provisional acceptance. During this period, the contractor will be responsible for rectifying any defects free of cost to the Procuring Entity.</p>

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**SCHEDULE OF REQUIREMENTS/DELIVERY SCHEDULE**

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Lot No.	Brief Description of Goods	Quantity	Physical Unit	Place of Delivery	Procuring Entity's Completion Schedule (---days as of signing of the contract)	Bidder's Offered Completion Schedule	
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1	All-In-One Inverter/Charger/Charge-Controller 5000Wac 48VDC/120/240VAC	53	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
	All-In-One Inverter/Charger/Charge-Controller 8000Wac 48VDC/120/240VAC	8	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 2: Solar PV Modules</b>							
2	550 Watts Photovoltaic Modules	503	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 3: VRLA Batteries</b>							
3	VRLA Deep Cycle Battery; 12V, 200AH (minimum)	488	each	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 4: Lithium Battery Energy Storage System</b>							
4	Lithium Battery Energy Storage System (48V)	192	kWh	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
<b>Lot 5: Solar PV Array Roof Mounting Hardware</b>							
5	1. Solar PV Module Mounting Rail (14ft)	302	length	Guyana Energy Agency, 295	90 days		

	2. Rail Splice with self grounding	180	each	Quamina St. South Cummingsburg, Georgetown, Guyana			
	3. Module Mid-Clamp kit with self grounding	780	each				
	4. Module End-Clamp kit with self grounding	260	each				
	5. Array Grounding Lug kit	130	each				
	6. L-Foot kit	910	each				
	7. Hanger Bolt Roof Mount kit	910	each				
<b>Lot 6: Balance of System (BoS) Equipment</b>							
6	1. PV Wire Stainless Steel Clips	1800	each	<p style="text-align: center;">NATIONAL PROCUREMENT &amp; TENDER ADMINISTRATION</p> <p style="text-align: center;">28 JAN 2025</p> <p style="text-align: center;">APPROVED</p> <p style="text-align: center;">Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana</p>	90 days		
	2. PV Wire: 6mm <sup>2</sup>	3600	meter				
	3. MC4 Connector Male	150	each				
	4. MC4 Connector Female	150	each				
	5. Solar DC Combiner Box with overload protection	58	each				
	6. AC/DC Surge Protector (300Vdc/ac)	60	each				
	7. DC Surge Protector (600Vdc)	65	each				
	8. Solar DC Disconnect 125A	38	each				
	9. Solar DC Disconnect 175A	20	each				
	10. Battery Cable: 2/0 AWG	680	meter				
	11. Copper Compression Lug: 2/0 AWG	1680	each				
<b>Lot 7: Electrical Conduits and Fittings</b>							
7	1. 32mm PVC conduit	230	length	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
	2. 32mm PVC flex conduit	175	meter				
	3. 32mm PVC coupler	230	each				
	4. 32mm PVC inspection bend	345	each				
	5. 32mm PVC inspection tee	50	each				
	6. 32mm PVC male adaptor	345	each				
	7. 32mm PVC conduit metal clamp/strap	860	each				

8.	25mm PVC conduit	220	length				
9.	25mm PVC flex conduit	100	meter				
10.	25mm PVC coupler	200	each				
11.	25mm PVC inspection bend	200	each				
12.	25mm PVC inspection tee	100	each				
13.	25mm PVC male adaptor	200	each				
14.	25mm PVC conduit metal clamp/strap	500	each				
15.	20mm PVC conduit	175	length				
16.	20mm PVC flex conduit	100	meter				
17.	20mm PVC coupler	230	each				
18.	20mm PVC inspection bend	245	each				
19.	20mm PVC inspection tee	80	each				
20.	20mm PVC male adaptor	345	each				
21.	20mm PVC conduit metal clamp/strap	600	each				
22.	100mm X 100mm PVC trunking	20	length				
23.	50mm X 50mm PVC trunking	25	length				
24.	100mm X 100mm galvanize trunking	60	length				

**Lot 8: Electrical Equipment**

8	1.	1 x 10mm <sup>2</sup> cable	110	roll	Guyana Energy Agency, 295 Quamina St. South Cummingsburg, Georgetown, Guyana	90 days		
	2.	1 x 16mm <sup>2</sup> cable	6	roll				
	3.	8 ft Earth Rod with Clamp	60	each				
	4.	4"x4"x3" junction box with cover	100	each				
	5.	Lug for 10mm <sup>2</sup> conductor	200	each				
	6.	Grounding bar	60	each				
	7.	2-4 panel, 125A, 120/240V, UL Listed	60	each				
	8.	4-8 panel, 125A, 120/240V, UL listed	25	each				
	9.	8-16 panel; 125A, 120/240V, UL listed	25	each				
	10.	15A, 120/240V, SP duplex circuit breaker	80	each				



Goods and Related Services (Valued G\$15M and above)

11. 15A, 120/240V, DP circuit breaker	30	each			
12. 20A, 120/240V, DP circuit breaker	80	each			
13. 30A, 120/240V, DP circuit breaker	40	each			
14. 2x1.5mm <sup>2</sup> flat cable	15	roll			
15. 2x2.5mm <sup>2</sup> flat cable	15	roll			
16. 3x10mm <sup>2</sup> flat cable	10	roll			
17. 15A duplex receptacle; complete	50	each			
18. LED bulb and socket; complete	100	each			
19. 4ft LED tube and fixture	100	each			
20. 15A decora light switch complete	50	each			
21. 70A triplex service drop Al cable	500	yard			
22. Pin insulator	80	each			
23. Expanding foam filler	60	each			
24. Roofing Silicone	60	each			
25. Electrical Insulation tape	150	each			
26. Insulated Piercing connector	200	each			

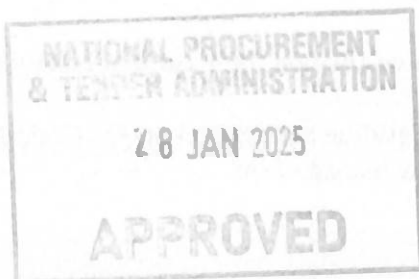
Duly authorized to sign for and on behalf of

\_\_\_\_\_ (name of Bidder)

\_\_\_\_\_ (Full name)

\_\_\_\_\_ (Title)

\_\_\_\_\_ (Signature and seal)



## TECHNICAL SPECIFICATIONS

### 1. General

The tender calling for convenient bids is dedicated to identifying and contracting a Supplier for the following services:

- 1.1 **Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8** according to the specifications provided;
- 1.2 Bidders must ensure that all equipment supplied under the contract is new, unused and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 1.3 Bidders must provide all technical documentations including equipment datasheet, user and operational manuals to the GEA. **The bidder must include all brochures, certifications, technical specifications, brand, and models of ALL equipment provided in one location in their submission in the following order.**

**Lot 1: Multimodal Inverters**

**Lot 2: Solar PV Modules**

**Lot 3: VRLA Batteries**

**Lot 4: Lithium Battery Energy Storage System**

**Lot 5: Solar PV Array Roof Mounting Hardware**

**Lot 6: Balance of System (BoS) Equipment**

**Lot 7: Electrical Conduits and Fittings**

**Lot 8: Electrical Equipment**

- 1.4 Provide 3 years after sales services to GEA. Bidders must provide a statement indicating its acceptance or otherwise of this requirement.

### 2. Specification of Required Hardware

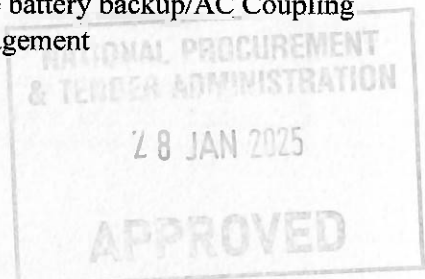
#### 2.2 General Remark

- a) All equipment supplied must have the requisite certification and comply with the specifications listed below.
- b) This specification covers Technical and General Requirements for Equipment to be used to repair/upgrade and install solar photovoltaic (PV) systems.

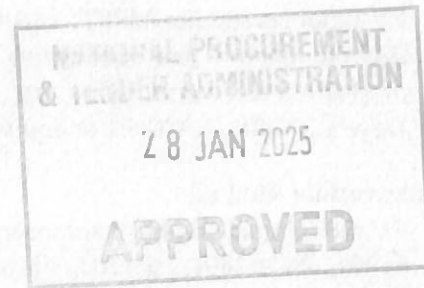
#### 2.3 Multimodal Inverter

##### 2.3.1 All-In-One Inverter/Charger/Charge-Controller 5000W/48VDC/120/240VAC

- Maximum efficiency of 96%
- Output power (continuous) at 25°C: 5000 Wac
- Intelligent battery management including state of charge calculation for maximum battery life
- Integrated soft start/generator support
- Versatile - complete for off-grid management as well as grid-tie battery backup/AC Coupling
- Excellent overload characteristics with active temperature management
- Five (5) year Standard Warranty
- Certification UL 1741, IEEE 1547
- Modular, stackable design
- AC connections: Single / Split phase



- AC Input/Output voltage: 120 / 240 Vac
- Input AC voltage range line to neutral: 95 - 135 Vac single phase, 170 - 270 Vac
- Nominal Frequency 60 Hz
- Frequency Range  $\geq 58.4$  to  $\leq 61.7$
- Pure Sine Wave
- Automatically transfers between inverter power and incoming AC power source
- Compatible battery types Flooded, Gel, AGM, Lithium, Custom
- Input DC voltage range: 40 - 68 Vdc
- Communication with BMS: RS485; CAN
- Charge control: 2 or 3 stage
- Charge temperature compensation
- Indications of status of operation (e.g. LED)
- Zero load power (W): maximum 27
- Transfer relay rating: 30 A minimum
- Optimal operating temperature range: 10°C to 60°C
- Ingress protection rating: IP65 minimum
- Battery voltage too high/low protection
- Over voltage and under voltage protection
- Surge Protection: DC Type II/ AC Type II
- Over-temperature protection
- Overload protection
- Short circuit protection
- PV power (kWp): up to 6.5 kW
- Number of MPPT: 2
- PV String Input Reverse Polarity Protection
- Operating PV voltage range: 100-500Vdc
- MPP voltage range: 125-425Vdc
- PV input current per MPPT: 13Adc minimum
- Remote control and monitoring system; including but not limited to providing operation, production and consumption data. Connection to the internet via wired LAN or Wi-Fi.
- Deye SUN-5K-SG01LP1-US or equivalent



**2.3.2 All-In-One Inverter/Charger/Charge-Controller 8000W/48VDC/120/240VAC**

- Maximum efficiency of 96%
- Output power (continuous) at 25°C: 8000 Wac
- Intelligent battery management including state of charge calculation for maximum battery life
- Integrated soft start/generator support
- Versatile - complete for off-grid management as well as grid-tie battery backup/AC Coupling
- Excellent overload characteristics with active temperature management
- Five (5) year Standard Warranty
- Certification UL 1741, IEEE 1547
- Modular, stackable design
- AC connections: Single / Split phase
- AC Input/Output voltage: 120 / 240 Vac
- Input AC voltage range line to neutral: 95 - 135 Vac single phase, 170 - 270 Vac
- Nominal Frequency 60 Hz
- Frequency Range  $\geq 58.4$  to  $\leq 61.7$
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- Input DC voltage range: 40 - 68 Vdc
- Communication with BMS: RS485; CAN
- Charge control: 2 or 3 stage
- Charge temperature compensation
- Indications of status of operation (e.g. LED)
- Zero load power (W): maximum 27
- Transfer relay rating: 50 A minimum
- Optimal operating temperature range: 10°C to 60°C
- Ingress protection rating: IP65 minimum
- Battery voltage too high/low protection
- Over voltage and under voltage protection
- Surge Protection: DC Type II/ AC Type II
- Over-temperature protection
- Overload protection
- Short circuit protection
- PV power (kWp): up to 10.4 kW
- Number of MPPT: 2
- PV String Input Reverse Polarity Protection
- Operating PV voltage range: 100-500Vdc
- MPP voltage range: 125-425Vdc
- PV input current per MPPT: 13Adc minimum
- Remote control and monitoring system; including but not limited to providing operation, production and consumption data. Connection to the internet via wired LAN or Wi-Fi.
- Deye SUN-8K-SG01LP1 or equivalent

#### 2.4 Photovoltaic Module

- PV modules should be in accordance with international standards (IEC 61215, IEC 61730, IEC 61701, IEC 62804, UL1703, UL 61730-1, UL 61730-2) and the National Electrical Code 2023
- **550 watts** or higher rated PV modules
- All modules must be compatible with the use of clamps for installation; shown in the datasheet or installation manual
- Module thickness: 30mm to 35mm
- All modules should be made of crystalline silicon solar cells
- All PV modules shall show the same capacity
- The Manufacturer should be internationally recognised and provide references and certificates on module testing.
- MC4 connectors for all Modules
- 20 years warranty on Modules

#### 2.5 VRLA Battery; 12V, 200AH (minimum)

- Nominal voltage; 12Volts
- Minimum battery size is 200 Amp-Hours; **C10**
- Batteries should be deep cycle type and rechargeable
- Lead-Acid Technology
- Capable of 50% depth of Discharge
- Design for renewable energy applications specifically for hybrid application
- Sealed maintenance free
- Manufacturer's data sheets containing battery performance specifications must be provided. Batteries must be procured from same make (manufacturer) having same ampere-Hour and voltage rating
- Two (2) years' warranty on batteries





- 1,000 and above cycles at 50% depth of discharge
- Standards to be conformed to: UL 1989, IEC 60896, IEC 61427-1, UL 2054
- Manufacturing process must have conformed to environmental management standard ISO 14001

## 2.6 Lithium Battery Energy Storage System

- Nominal voltage: 48V
- Minimum battery capacity: 100 Amp-Hours
- Batteries should be deep cycle type and rechargeable
- Lithium Technology
- Capable of 100% depth of discharge
- Design for renewable energy applications specifically for hybrid application
- Sealed maintenance free
- Manufacturer's data sheets containing battery performance specifications must be provided. Batteries must be procured from same make (manufacturer) having same ampere-Hour and voltage rating
- Operating Efficiency: 90% minimum
- Operation temperature: 10°C to 50°C
- Communication: CAN/RS485
- Five (5) years' warranty on batteries
- 5,000 and above cycles at 50% depth of discharge
- **Must comply to UL9540 standard**
- Manufacturing process must have conformed to environmental management standard ISO 14001
- **Total capacity of 192kWh (min); configurable in five (5) banks of 38.4kWh (min)**
- Battery energy storage system (battery-bank) must be complete with a battery management system (BMS), rack/cabinet and floor mount/support

## 2.7 Solar PV Array Roof Mounting Hardware

### 2.7.1 Solar PV Module Mounting Rail (14ft)

- Anodized aluminum
- Length: 14 feet
- Compatible with item L-foot, rail splice, module clamps and grounding lug

### 2.7.2 Rail Splice with self-grounding

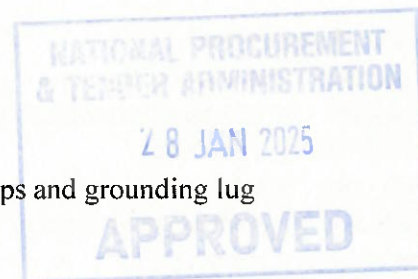
- Anodized aluminum with stainless steel bolts
- Compatible with mounting rail
- Provides an electrical connection (e.g. built-in grounding pins) between the spliced rails when installed.

### 2.7.3 Module Mid-Clamp kit with self-grounding

- Anodized aluminum with stainless steel bolts
- Compatible with mounting rail
- Compatible with 30mm to 35mm thick solar PV modules
- Provides an electrical connection (e.g. built-in grounding pins) between rails and modules when installed.

### 2.7.4 Module End-Clamp kit with self-grounding

- Anodized aluminum with stainless steel bolts
- Compatible with mounting rail
- Compatible with 30mm to 35mm thick solar PV modules
- Provides an electrical connection (e.g. built-in grounding pins) between rails and modules when



installed.

### 2.7.5 Array Grounding Lug kit

- Anodized aluminum with stainless steel bolts
- Compatible with mounting rail
- Provides an electrical connection (e.g. built-in grounding pins) between rails and grounding conductor when installed.

### 2.7.6 L-Foot kit

- Anodized aluminum with stainless steel bolts and screws
- Compatible with mounting rail; complete with rail attachment hardware

### 2.7.7 Hanger Bolt Roof Mount Kit

- Anodized aluminum with stainless steel bolts/screws
- Compatible with L-foot/rail
- Compatible for attachment with standard corrugated roof profile (pitch height of approximately 3/4")
- Provides a water-tight seal when installed

## 2.8 Balance of System (BoS) Equipment

### 2.8.1 PV Wire Stainless Steel Clips

- Clips for the purpose of management of PV wires
- Material: Stainless Steel
- Clip onto aluminum frame of PV modules
- Holds 1 or 2 PV wire
- 20 years warranty
- Nine Fastener DCS-1307 or equivalent

### 2.8.2 PV Wire: 6mm<sup>2</sup>

- Application: Outdoor PV Systems
- Insulation: UV resistant, crosslinked polyethylene, flame retardant
- Voltage rating: 1000Vdc
- Cable color: Black
- Conductor: Fine wire tinned copper conductor
- Operating Temperature: -40°C to +90°C
- Compliant with NEC 2023

### 2.8.3 MC4 Connector Male and Female

- Rated current: 30A
- Rated voltage: 600V DC (UL)
- Ambient temperature range: -40°C +40°C (UL)
- Degree of protection, mated: IP67
- Degree of protection, unmated: IP2X
- Contact resistance of plug connectors: 0,5mMΩ
- Contact material: Copper, tin plated
- Insulation material: PPO/PC/PA
- Locking system plug connectors: Snap-in (nur/only MC4)
- Flame class: UL94-HB / UL94-V0
- Safety class II
- Contact system: MC Multilam
- Type of termination: Crimped
- Cable Size: 6mm<sup>2</sup>



#### 2.8.4 Solar DC Combiner Box with overload protection

- Enclosure rating: NEMA 3R
- Mounting options and angle: Vertical wall mount, pole mount or sloped roof mount to 14 degrees incline (3 in 12 roof pitch)
- DIN rail mount for fuse holders or breakers
- Voltage rating: 600VDC
- Number of PV strings: minimum of four strings
- Supplied with overload protection for each string
- Maximum OCPD rating: 30 amp with fuses, 63 amps with 150-volt breakers
- Maximum output amps: 80 amps for fused, 120 amp for breakers
- Output wire range: 14 to 1/0 AWG
- Lug temperature rating: 90 deg C
- Fuse holder (if applicable): 30A DC, 1000V DC
- Fuse/Breaker: 20A DC, 1000V DC
- UL1741 Listed
- MidNite MNPV6 with Mersen USM1HEL fuse holder and Mersen HP10M20 fuse or equivalent

#### 2.8.5 DC Surge Protector (300Vdc/ac)

- Nominal Voltage: 0 to 300 VDC, 120/240VAC
- MCOV: 470V
- SCCR: 10kA
- VPR Line to Ground: 1200V
- Type: UL1449 4th Ed. Type 1
- Diagnostic LED: LED indicates when voltage is present between L1 + L2 (PV+ PV-)
- Thermal Disconnect: Internal Fuse
- Response Time: <1 micro sec.
- MidNite SPD-300-DC or equivalent

#### 2.8.6 DC Surge Protector (600V)

- Nominal Voltage: 0 to 600 VDC
- MCOV: 780V
- SCCR: 10kA
- VPR Line to Ground: 1500V
- Mounting: Off-grid PV combiners Charge controller inputs up to 600VDC
- Type: UL1449 4th Ed. Type 1
- Diagnostic LED: LED indicates when voltage is present between L1 + L2 (PV+ PV-)
- Thermal Disconnect: Internal Fuse
- Response Time: <1 micro sec.
- MidNite SPD-600-DC or equivalent



#### 2.8.7 Solar DC Disconnect 125A

- Enclosure: no rust in the tropics
- Hinged door for easy access to electrical circuits
- Inverter breaker included (125 amp)
- Din rail for DC circuits such as PV in, Charge Controller out, DC-GFP, DC loads, PV combiner
- Ground bus bar with minimum 10 poles
- Mounting spots for 250-500 amp, 50mV shunt
- Mounting spot for insulated bus bar (for PV negative connection point)
- Knock outs for inverter and battery cables, charge control mounting, DC & PV in & out
- Stud or bar for battery negative tie point
- UL Listed

- Three (3) years warranty
- MidNite MNDC125 or equivalent

**2.8.8 Solar DC Disconnect 175A**

- Enclosure: no rust in the tropics
- Hinged door for easy access to electrical circuits
- Inverter breaker included (175 amp)
- Din rail for DC circuits such as PV in, Charge Controller out, DC-GFP, DC loads, PV combiner
- Ground bus bar with minimum 10 poles
- Mounting spots for 250-500 amp, 50mV shunt
- Mounting spot for insulated bus bar (for PV negative connection point)
- Knock outs for inverter and battery cables, charge control mounting, DC & PV in & out
- Stud or bar for battery negative tie point
- UL Listed
- Three (3) years warranty
- MidNite MNDC175 or equivalent

**2.8.9 Battery Cable: 2/0 AWG**

- Application: Battery energy storage system
- Cable size: 2/0 AWG or 70mm<sup>2</sup>
- Rated for 600V - UL Listed
- Temperature rating up to 105°C Dry and 75°C Wet
- Stranded Copper Conductor for maximum conductivity (Class K 30 gauge bare copper)
- Flame retardant insulation with PVC jacket
- Moisture, abrasion, acid, and oil resistant

**2.8.10 Copper Compression Lug: 2/0 AWG**

- Application: Battery energy storage system
- Material: Copper
- Voltage rating: 600V
- Compatible with Battery Cable: 2/0 AWG
- Type: Standard Barrel, Tin Plated, One hole
- Temperature Rating up to 105°C
- Hole to accommodate a 3/8" bolt/stud
- UL Listed
- Burndy YA26L3G1 or equivalent

**2.9 Electrical Conduits and Fittings**

- 2.9.1 32mm PVC conduit
- 2.9.2 32mm PVC flex conduit
- 2.9.3 32mm PVC conduit coupler
- 2.9.4 32mm PVC conduit inspection bend
- 2.9.5 32mm PVC conduit inspection tee
- 2.9.6 32mm PVC conduit male adaptor
- 2.9.7 32mm PVC conduit metal clamp/strap





- 2.9.8 25mm PVC conduit
- 2.9.9 25mm PVC flex conduit
- 2.9.10 25mm PVC conduit coupler
- 2.9.11 25mm PVC conduit inspection bend
- 2.9.12 25mm PVC conduit inspection tee
- 2.9.13 25mm PVC conduit male adaptor
- 2.9.14 25mm PVC conduit metal clamp/strap
- 2.9.15 20mm PVC conduit
- 2.9.16 20mm PVC flex conduit
- 2.9.17 20mm PVC conduit coupler
- 2.9.18 20mm PVC conduit inspection bend
- 2.9.19 20mm PVC conduit inspection tee
- 2.9.20 20mm PVC conduit male adaptor
- 2.9.21 20mm PVC conduit metal clamp/strap
- 2.9.22 100mm X 100mm PVC trunking with cover
- 2.9.23 50mm X 50mm PVC trunking with cover
- 2.9.24 100mm X 100mm galvanize trunking with cover

## 2.10 Electrical Equipment

### 2.10.1 1 x 10mm<sup>2</sup> cable

- Conductor material: single core, stranded copper, 10mm<sup>2</sup> cross sectional area
- Insulation: Rated for 600V
- Temperature rating: 90°C
- Length: 300 ft/roll (min)

### 2.10.2 1 x 16mm<sup>2</sup> cable

- Conductor material: single core, stranded copper, 16mm<sup>2</sup> cross sectional area
- Insulation: Rated for 600V
- Temperature rating: 90°C
- Length: 300 ft/roll (min)

### 2.10.3 8 ft Earth Rod with Clamp

- Material: copper
- Diameter: 5/8" (min)
- Cable clamp compatible with rod

### 2.10.4 4"x4"x3" junction box with cover



- Application: outdoor rated
- Knockouts for 20mm and 25mm conduit

**2.10.5 Lug for 10mm<sup>2</sup> conductor**

- Application: electrical system
- Material: Copper
- Voltage rating: 600V
- Compatible with 10mm<sup>2</sup> single core cable
- Type: Standard Barrel, Tin Plated, One hole
- Temperature Rating up to 105°C
- UL Listed

**2.10.6 Grounding bar**

- Material: aluminum or equivalent
- 10 terminals (min) to accommodate 16AWG (1.5 mm<sup>2</sup>) to 6AWG (16 mm<sup>2</sup>)
- 2 mounting holes
- UL Listed

**2.10.7 2-4 panel, 125A, 120/240V, UL Listed**

- 2 spaces 4 circuit load center
- compatible with plug in type circuit breakers
- Indoor rated
- 125A rated, single phase 120/240V, 2 pole
- Main lug
- Neutral bar
- UL Listed

**2.10.8 4-8 panel, 125A, 120/240V, UL listed**

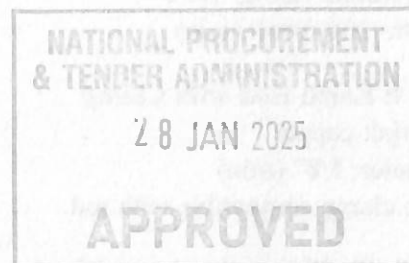
- 4 spaces 8 circuit load center (min)
- compatible with plug in type circuit breakers
- Indoor rated
- 125A rated, single phase 120/240V, 2 pole
- Main lug
- Neutral bar
- UL Listed

**2.10.9 8-16 panel; 125A, 120/240V, UL listed**

- 8 spaces 16 circuit load center (min)
- compatible with plug in type circuit breakers
- Indoor rated
- 125A rated, single phase 120/240V, 2 pole
- Main lug
- Neutral bar
- UL Listed

**2.10.10 15A, 120/240V, SP duplex circuit breaker**

- Ampere rating: 15A-15A
- Plug on type
- Single pole, two circuit, 120/240Vac
- Independent trip/protection per circuit
- UL Listed



**2.10.11 15A, 120/240V, DP circuit breaker**

- Ampere rating: 15A
- Plug on type
- Two pole, two circuit, 120/240Vac
- Common trip/protection for circuits
- UL Listed

**2.10.12 20A, 120/240V, DP circuit breaker**

- Ampere rating: 20A
- Plug on type
- Two pole, two circuit, 120/240Vac
- Common trip/protection for circuits
- UL Listed

**2.10.13 30A, 120/240V, DP circuit breaker**

- Ampere rating: 30A
- Plug on type
- Two pole, two circuit, 120/240Vac
- Common trip/protection for circuits
- UL Listed

**2.10.14 2x1.5mm<sup>2</sup> flat cable**

- Conductor material: 2 core, solid copper, 1.5mm<sup>2</sup> cross sectional area with ground conductor
- Insulation: Rated for 600V
- Temperature rating: 90°C
- Length: 300 ft/roll (min)

**2.10.15 2x2.5mm<sup>2</sup> flat cable**

- Conductor material: 2 core, solid copper, 2.5mm<sup>2</sup> cross sectional area with ground conductor
- Insulation: Rated for 600V
- Temperature rating: 90°C
- Length: 300 ft/roll (min)

**2.10.16 3x10mm<sup>2</sup> flat cable**

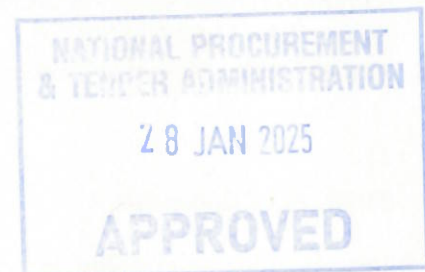
- Conductor material: 3 core, stranded copper, 10mm<sup>2</sup> cross sectional area with ground conductor
- Insulation: Rated for 600V
- Temperature rating: 90°C
- Length: 300 ft/roll (min)

**2.10.17 15A duplex receptacle; complete**

- Straight Blade Tamper Resistant Duplex Receptacle
- 125 V, 15 A, 2 Pole, 3 Wire
- Color: White
- UL Listed receptacle
- Flush mount receptacle complete with face plate and base
- 20mm and 25mm knockouts on base

**2.10.18 LED bulb and socket; complete**

- 9W-8W LED bulb
- Color: Daylight (5000k – 6000k)
- Complete with socket/base
- Surface mount socket/base



**2.10.19 4ft LED tube and fixture**

- Fixture material: metal
- Complete with LED 4 feet T8 tube
- 15W-18W LED Tube
- Color: Daylight (5000k-6000k)
- Surface mount

**2.10.20 15A decora light switch complete**

- 120-277Vac, 15 A, Single Pole
- Color: White
- UL Listed switch
- Flush mount switch complete with face plate and base
- 20mm and 25mm knockouts on base

**2.10.21 70A triplex service drop Al cable**

- Conductor material: stranded aluminum
- 3 core cable; two insulated and one non-insulated
- Application: overhead cable, outdoor, supported by non-insulated conductor
- Insulation: black cross linked polyethylene (XLP) insulation
- Rated for 600V
- Rated ampacity: 70A (min)

**2.10.22 Pin insulator**

- Application: outdoor, support for service drop cable
- Rated for 600V
- Material: Ceramic or equivalent
- Attachment: self-tapping screw

**2.10.23 Expanding foam filler**

**2.10.24 Roofing Silicone**

**2.10.25 Electrical Insulation Tape**

**2.10.26 Insulated Piercing connector**

- Application: connection between insulated aluminum main conductor and insulated copper tap-off conductor
- Stainless steel bolts, nuts and washers or equivalent
- Connection teeth for main compatible with aluminum conductor
- Connection teeth for tap-off compatible with copper conductor
- Main cable: 16mm<sup>2</sup> to 50mm<sup>2</sup>
- Tap-off cable: 10mm<sup>2</sup> to 25mm<sup>2</sup>

**3. Delivery of Equipment**

The Bidder is fully responsible for organising and guaranteeing timely delivery and transport of the equipment to the place of delivery as per the delivery schedule.

The Bidder is requested to present detailed information on the schedule of delivery and transport modalities of the equipment to the place of delivery. Close coordination with responsible staff from the procuring entity is recommended.





**4. Transfer of Ownership**

An Acceptance Inspection will be organised by the procuring entity and in presence of the Seller will allow for the issuance of a certificate to transfer ownership to the Purchaser.

**5. Warranty**

Two types of warranty have to be offered by the Bidder:

- a) Warranty on hardware failures on all products offered and used according to international established terms;
- b) Warranty on the proper operation of the provided equipment according to the specification and terms fixed in the contract between the Seller and the procuring entity.

The Bidder must include a statement of warranties for all equipment and what specifically constitutes warranty failure and all requirements and procedures for obtaining compensation for equipment which have failed under warranty.

**6. After Sales Service**

The Seller must provide a local after-sales service of no less than 3 years. Bidder must provide a statement for the availability of spare parts and/or after sales services. Bidders statement indicating its acceptance or otherwise in offering Local after sales service of no less than three (3) years. Bidder must state the nature of service that will be provided.



**SUPPLIER'S BID**



TO: \_\_\_\_\_  
(Name and address of Procuring Entity)

Dear Sir / Madam,

Having examined the bidding documents including Annexes and Addenda No \_\_\_\_\_ [specify numbers], the receipt of which is hereby acknowledged, we offer to execute the **Supply and Delivery of Solar PV Equipment for 58 sites: Lots 1-8** in accordance with the Contract conditions attached herein for the total amount for the following:

The Price of our bid, including VAT (where applicable) is

Lot 1:.....( in words)

.....(in figure)

Lot 2:.....( in words)

.....(in figure)

Lot 3:.....( in words)

.....(in figure)

Lot 4:.....( in words)

.....(in figure)

Lot 5:.....( in words)

.....(in figure)

Lot 6:.....( in words)

.....(in figure)

Lot 7:.....( in words)

.....(in figure)

Lot 8:.....( in words)

.....(in figure)

We undertake, if our Bid is accepted, to supply the Goods, in accordance with a delivery schedule given in the Schedule of Requirements.

If our Bid is accepted, we undertake to furnish the Performance security in the form of \_\_\_\_\_ to the amount of \_\_\_\_\_, comprising \_\_\_\_\_% of the Contract Price in order to execute the Contract properly and within the time period(s) specified in the Bidding Documents.

We hereby confirm that this bid shall be valid during \_\_\_\_\_ days starting from the date established

for bid opening, and it shall be binding until the expiry of the indicated period.

We understand that you are not bound to accept the lowest or any bid you receive.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ 202\_\_.

Duly authorized to sign the Bid for and on behalf of

\_\_\_\_\_  
(name of Supplier)

\_\_\_\_\_  
(Full name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature and seal)



## PRICE SCHEDULE

### Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8

**Bidders are required to (a) enter the bid prices electronically (refer to Excel attachment for Price schedule tables) , (b) print out the completed Price Schedule and (c) include it in the hardcopy submission to NPTA on the day of tender opening. Bidders must submit a soft PDF version for the Price Schedule with the bid submission on the flash drive.**

Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025	
Description	Total Cost (GYD)
Lot 1: Multimodal Inverters	0
Lot 2: Solar PV Modules	0
Lot 3: VRLA Batteries	0
Lot 4: Lithium Battery Energy Storage System	0
Lot 5: Solar PV Array Roof Mounting Hardware	0
Lot 6: Balance of System (BoS) Equipment	0
Lot 7: Electrical Conduits and Fittings	0
Lot 8: Electrical Equipment	0
<b>Grand Total</b>	<b>0</b>
<p><b>Duly authorized to sign for and on behalf of</b></p> <p>_____</p> <p><b>(name of Bidder)</b></p> <p>_____</p> <p>_____</p> <p style="display: flex; justify-content: space-between;"><span><b>(Full name</b></span><span><b>(Title)</b></span><span><b>(Signature and seal)</b></span></p>	
<p><b>NOTE: Bidders are required to (a) enter the bid prices electronically , (b) print out the completed Price Schedule and (c) include it in the hardcopy submission to NPTA on the day of tender opening. Bidders must submit a soft PDF version for the Price Schedule with the bid submission on the flash drive.</b></p>	

Table 1 showing Summary page





Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025					
Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 1: Multimodal Inverters</b>	All-In-One Inverter/Charger/Charge-Controller 5000Wac 48VDC/120/240VAC	53	each		0
	All-In-One Inverter/Charger/Charge-Controller 8000Wac 48VDC/120/240VAC	8	each		0
	<b>Grand Total for Lot 1:</b>				<b>0</b>

Table 2 showing Lot 1



**Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025**

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 2: Solar PV Modules</b>	550 Watts Photovoltaic Modules	503	each		0
	<b>Grand Total for Lot 2:</b>				<b>0</b>

Table 3 showing Lot 2

NATIONAL PROCUREMENT  
& TENDER ADMINISTRATION  
28 JAN 2025  
**APPROVED**

Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025					
Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 3: VRLA Batteries</b>	VRLA Deep Cycle Battery; 12V, 200AH (minimum)	488	each		0
	<b>Grand Total for Lot 3:</b>				<b>0</b>

Table 4 showing Lot 3



**Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025**

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 4: Lithium Battery Energy Storage System</b>	Lithium Battery Energy Storage System (48V)	192	kWh		0
	<b>Grand Total for Lot 4:</b>				0

Table 5 showing Lot 4

**NATIONAL PROCUREMENT  
& TENDER ADMINISTRATION**  
28 JAN 2025  
**APPROVED**



**Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025**

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 5: Solar PV Array Roof Mounting Hardware</b>	1. Solar PV Module Mounting Rail (14ft)	302	length		0
	2. Rail Splice with self grounding	180	each		0
	3. Module Mid-Clamp kit with self grounding	780	each		0
	4. Module End-Clamp kit with self grounding	260	each		0
	5. Array Grounding Lug kit	130	each		0
	6. L-Foot kit	910	each		0
	7. Hanger Bolt Roof Mount kit	910	each		0
	<b>Grand Total for Lot 5 :</b>				

Table 6 showing Lot 5



**Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025**

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 6: Balance of System (BoS) Equipment</b>	1. PV Wire Stainless Steel Clips	1800	each		0
	2. PV Wire: 6mm <sup>2</sup>	3600	meter		0
	3. MC4 Connector Male	150	each		0
	4. MC4 Connector Female	150	each		0
	5. Solar DC Combiner Box with overload protection	58	each		0
	6. AC/DC Surge Protector (300Vdc/ac)	60	each		0
	7. DC Surge Protector (600Vdc)	65	each		0
	8. Solar DC Disconnect 125A	38	each		0
	9. Solar DC Disconnect 175A	20	each		0
	10. Battery Cable: 2/0 AWG	680	meter		0
	11. Copper Compression Lug: 2/0 AWG	1680	each		0
	<b>Grand Total for Lot 6:</b>				

Table 7 showing Lot 6

**Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025**

Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
<b>Lot 7: Electrical Conduits and Fittings</b>	1. 32mm PVC conduit	230	length		0
	2. 32mm PVC flex conduit	175	meter		0
	3. 32mm PVC coupler	230	each		0
	4. 32mm PVC inspection bend	345	each		0
	5. 32mm PVC inspection tee	50	each		0
	6. 32mm PVC male adaptor	345	each		0
	7. 32mm PVC conduit metal clamp/strap	860	each		0
	8. 25mm PVC conduit	220	length		0
	9. 25mm PVC flex conduit	100	meter		0
	10. 25mm PVC coupler	200	each		0
	11. 25mm PVC inspection bend	200	each		0
	12. 25mm PVC inspection tee	100	each		0
	13. 25mm PVC male adaptor	200	each		0
	14. 25mm PVC conduit metal clamp/strap	500	each		0
	15. 20mm PVC conduit	175	length		0
	16. 20mm PVC flex conduit	100	meter		0
	17. 20mm PVC coupler	230	each		0
	18. 20mm PVC inspection bend	245	each		0
	19. 20mm PVC inspection tee	80	each		0
	20. 20mm PVC male adaptor	345	each		0
	21. 20mm PVC conduit metal clamp/strap	600	each		0
	22. 100mm X 100mm PVC trunking	20	length		0
	23. 50mm X 50mm PVC trunking	25	length		0
	24. 100mm X 100mm galvanize trunking	60	length		0
	<b>Grand Total for Lot 7:</b>				0

Table 8 showing Lot 7



Supply and Delivery of Solar PV Equipment for 58 sites in Eight (8) Lots-2025					
Lot No.	Brief Description of Goods	Quantity	Physical Unit	Unit Price (GYD)	Total Cost (GYD)
Lot 8: Electrical Equipment	1. 1 x 10mm <sup>2</sup> cable	110	roll		0
	2. 1 x 16mm <sup>2</sup> cable	6	roll		0
	3. 8 ft Earth Rod with Clamp	60	each		0
	4. 4"x4"x3" junction box with cover	100	each		0
	5. Lug for 10mm <sup>2</sup> conductor	200	each		0
	6. Grounding bar	60	each		0
	7. 2-4 panel, 125A, 120/240V, UL Listed	60	each		0
	8. 4-8 panel, 125A, 120/240V, UL listed	25	each		0
	9. 8-16 panel; 125A, 120/240V, UL listed	25	each		0
	10. 15A, 120/240V, SP duplex circuit breaker	80	each		0
	11. 15A, 120/240V, DP circuit breaker	30	each		0
	12. 20A, 120/240V, DP circuit breaker	80	each		0
	13. 30A, 120/240V, DP circuit breaker	40	each		0
	14. 2x1.5mm <sup>2</sup> flat cable	15	roll		0
	15. 2x2.5mm <sup>2</sup> flat cable	15	roll		0
	16. 3x10mm <sup>2</sup> flat cable	10	roll		0
	17. 15A duplex receptacle; complete	50	each		0
	18. LED bulb and socket; complete	100	each		0
	19. 4ft LED tube and fixture	100	each		0
	20. 15A decora light switch complete	50	each		0
	21. 70A triplex service drop Al cable	500	yard		0
	22. Pin insulator	80	each		0
	23. Expanding foam filler	60	each		0
	24. Roofing Silicone	60	each		0
	25. Electrical Insulation tape	150	each		0
	26. Insulated Piercing connector	200	each		0
	<b>Grand Total for Lot 8:</b>				<b>0</b>

Table 9 showing Lot 8





## SUPPLY CONTRACT FOR GOODS

THIS CONTRACT made the \_\_\_\_\_ day of \_\_\_\_\_ 202\_\_ between \_\_\_\_\_ [Guyana Energy Agency] (hereinafter referred to as "the Procuring Entity"), on the one hand, and \_\_\_\_\_ [name of Supplier] from \_\_\_\_\_ [city and country of Supplier] (hereinafter referred to as "the Supplier"), on the other hand have come to an Agreement on the following:

The Procuring Entity has announced bid for procurement of goods and services, namely **Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8** and has accepted the Supplier's bid for the supply of indicated goods and services to the sum of \_\_\_\_\_ [Contract Price in words and figures] (hereinafter referred to as "the Contract Price").

### THIS CONTRACT WITNESSES AS FOLLOWS:

1. In this Contract, the terms and expressions have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall form the Contract and shall be deemed its integral part, viz.:
  - (a) Procuring Entity's Notification of Award;
  - (b) Bid and Price Schedule submitted by Bidder;
  - (c) Schedule of Requirements;
  - (d) Technical Specifications;
  - (e) General Conditions of Contract;
  - (f) Special Conditions of Contract;
  - (g) Other documents included in the Contract documents;
3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
4. In consideration of the payments to be made by the Procuring Entity to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Entity to provide the Goods and Services, and remedy defects therein in conformity in all respects with the provisions of the Contract.
5. The Procuring Entity hereby agrees to pay the Supplier in consideration of the delivery of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS of the aforesaid, the parties hereto have caused this Contract to be executed in accordance with the legislation of Guyana the day and year first above written in the beginning of the document.

Signed and Sealed.....[Full name and title of Procuring Entity's representative]

Signed and Sealed .....[Full name and title of Supplier's representative]

**BID SECURITY**  
**(Bank Guarantee or Insurance Bond)**

Whereas \_\_\_\_\_ [name of Bidder] (hereinafter referred as "the Bidder") is ready to submit his bid dated \_\_\_\_\_ [date of bid submission] for the **Supply and Delivery of Solar PV Equipment for 58 sites : Lots 1-8** (hereinafter referred as "the Bid"),  
KNOW ALL PEOPLE, that WE \_\_\_\_\_ [name of Bank / Surety] from \_\_\_\_\_ [name of country], having our registered office at the address \_\_\_\_\_ [address of Bank / Surety], (hereinafter referred as "the Bank"), are bound to \_\_\_\_\_ [name of Procuring Entity] to the sum of \_\_\_\_\_, by which payment to the indicated Procuring Entity shall be made in whole and in a timely manner; the Bank is bound on behalf of its name, its successors and authorized persons. This is to confirm that the license issued to the Bank shall provide for activity on issuance of the guarantee, and the person(s) signing that guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors, or of General Stockholders Meeting is required, it is already received and there is no other approval required.

THE CONDITIONS of this obligation are as follows:

1. If the Bidder:
  - (a) Withdraws their Bid during the period of bid validity specified by the Bidder on the Form of Bid; or
2. If the Bidder having received notice from the Procuring Entity that their bid is accepted within the period of bid's validity:
  - (a) fails or rejects to sign the Contract at the request of; or
  - (b) fails or rejects to furnish the performance security in accordance with the Instructions to Bidders;

We undertake to pay the Procuring Entity the above sum upon receipt of their first written request, without needing the Procuring Entity to show grounds or reasons of that request, provided that the sum requested by the Procuring Entity is due to him because of the occurrence of one or two or both conditions, specifying the condition or conditions occurred.

This guarantee shall remain in force during \_\_\_\_\_ days inclusive following the expiry of the bid validity period, and any request in respect thereof should reach the Bank not later than the abovementioned date.

\_\_\_\_\_  
(Full name of Bank / Surety representative)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature and seal)

Dated on « \_\_\_\_ » day of \_\_\_\_\_ 202\_\_.

**Address of the Bank / Surety issuing guarantee:**  
\_\_\_\_\_

### MANUFACTURER'S AUTHORIZATION

*The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]*

Date of Bid Submission( <i>day/ month/ year</i> ):
IFB No: <i>[insert number of bidding process]</i>
Alternative No.: <i>[insert identification No if this is a Bid for an alternative]</i>

To: \_\_\_\_\_ *[insert complete name of Purchaser]*

#### WHEREAS

We \_\_\_\_\_ *[insert complete name of Manufacturer]*, who are official manufacturers of \_\_\_\_\_ *[insert type of goods manufactured]*, having factories at \_\_\_\_\_ *[insert full address of Manufacturer's factories]*, do hereby authorize \_\_\_\_\_ *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us \_\_\_\_\_ *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 1.3 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: \_\_\_\_\_ *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: \_\_\_\_\_ *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: \_\_\_\_\_ *[insert title]*

Duly authorized to sign this Authorization on behalf of: \_\_\_\_\_ *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*

**PERFORMANCE SECURITY  
(Bank Guarantee or Insurance Bond)**

TO: \_\_\_\_\_  
[Name of Procuring Entity]

WHEREAS \_\_\_\_\_ [name of the Supplier] (hereinafter called "the Supplier") has undertaken, in accordance with the Contract No. \_\_\_\_\_ [Contract number] dated \_\_\_\_\_ 202\_ to **Supply and Delivery of Solar PV Equipment for 58 sites: Lots 1-8** (hereinafter called "the Contract"),

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee or Performance Bond from an Insurance company licensed by the Bank of Guyana, to the sum specified therein as a security for compliance with the Supplier's obligations under the Contract,

AND WHEREAS we have agreed to furnish the Supplier with a security,

THEREFORE WE hereby confirm that we are the Guarantors and are responsible to you on behalf of the Supplier, up to a total of \_\_\_\_\_ (amount of security in words and figures) and, we undertake to pay you, on your first request notifying of the Contractor's default with the Contract, and without cavil or argument, any sum or sums within the above limits, as aforesaid, without your needing to show grounds or reasons of your request or the sum specified therein.

Any modification or addition, or amendment in the terms of Contract which may be made by the Procuring Entity and the Supplier by Additional Agreement shall in no way release us from obligations under the Guarantee, and we waive any notice of modification, addition, or amendment. This guarantee shall be valid until full completion of the Contract Conditions by the Supplier. Also, we confirm that the license issued to the Bank shall provide for activity on issuance of a bank guarantee, and the person signing the guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors or of General Stockholders Meeting is required, it is already received, and there is no other approval required

This guarantee shall be valid till the \_\_\_\_\_ day of \_\_\_\_\_ 202\_.

\_\_\_\_\_  
(Full name of Bank / Surety's representative)                      (Title)                      (signature and seal)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ 202\_.

Address of the Bank issuing guarantee:

\_\_\_\_\_

**LETTER OF ACCEPTANCE**  
(Letterhead paper of Procuring Entity)

\_\_\_\_\_ (date)

To: \_\_\_\_\_  
(Name of Supplier)

\_\_\_\_\_  
(address of Supplier)

We hereby notify you that your bid dated the \_\_\_\_ day of \_\_\_\_\_ 202\_\_, for the supply of goods \_\_\_\_\_ (*description of goods*) up to a total of \_\_\_\_\_ (*amount in figures and words*)

as amended and modified in accordance with the Instructions to Bidders is hereby accepted by our agency.

Simultaneously, we send you the Form of Contract and request you, pursuant to Clause 20.1 of the Instructions to Bidders, during seven (7) days to sign and date the Form of Contract and return it at our address. Jointly with the signed Contract, we request you to furnish the performance security, in accordance with ITB Clause 20.2.

You hereby entrusted to start supply of the Goods, in accordance with the terms and conditions of a Contract.

**Name of Agency** \_\_\_\_\_

**Full name and Title** \_\_\_\_\_

**Signature of Authorized Representative** \_\_\_\_\_

**Annex: The Contract**



**AFFIDAVIT OF AUTHORIZATION**

TO: \_\_\_\_\_ [name of Procuring Entity]

WHEREAS \_\_\_\_\_ [name of Supplier], who is the Supplier \_\_\_\_\_ [name and/or description of goods].

do hereby authorize \_\_\_\_\_ [name and address of Supplier's Representative] to submit the Bid, and sign the Contract based on Invitation for Bids for the abovementioned goods to be supplied by us, and

\_\_\_\_\_  
[Full name, title, signature for and on behalf of Supplier]

Dated on « \_\_\_\_\_ » day of \_\_\_\_\_ 202\_\_\_\_. (seal)  
(date)

*Note: The affidavit of authorization must be drafted on a letterhead of the Supplier and signed by a Commissioner of Oats to Affidavit or Justice of the peace. The Bidder shall include this authorization in their Bid.*

NATIONAL PROCUREMENT  
& TENDER ADMINISTRATION

28 JAN 2025

## Evaluation and Qualification Criteria

APPROVED

No.	DESCRIPTION	PASS/FAIL
1.	Submission of a <b>valid</b> business registration or certificate of incorporation that is <b>clearly legible</b> . <b>Incorporated companies must submit a list of directors.</b>	
2.	Submission of a <b>valid</b> NIS compliance certificate in the name of the business as per business registration. <b>Document must be clearly legible.</b>	
3.	Submission of a <b>valid</b> GRA compliance certificate in the name of the business as per business registration. <b>Document must be clearly legible.</b>	
4.	<b>Completed and signed</b> supplier's bid page (page 34-35).	
5.	Completed and signed price schedule must be submitted (Refer to the attached Excel sheet)	
6.	<b>Completed and signed</b> delivery schedule (page 18-21) or <b>statement of agreement</b> to supply goods/services <b>within the period specified in the delivery schedule</b> (page 18-21).	
7.	Provision of <b>equipment documentation detailing the technical specifications</b> for the items listed in the Schedule of Requirement (page 18-21) <b>to show that the goods match the Technical Specifications</b> as detailed on (page 22-34).	
8.	Submission of bid security <b>in the amount of 2% of the bid price</b> in the form of an insurance bond or bank guarantee or manager's cheque.	
9.	Demonstrate experience and technical capacity by providing <b>documentary evidence</b> that shows the supply of goods/services <b>similar to the items in the Requirement Schedule</b> (page 18-21). Bidder must <b>provide copies of contracts</b> with previous clients, or <b>copies of valid invoices</b> showing items supplied to clients. Bidder must demonstrate the experience of supplying goods/services to a <b>minimum value of \$8,000,000 for each year over two (2) years including value of each supply.</b>	
10.	Evidence of financial capacity, in the name of the bidder, representing <b>30%</b> of the bid price. Financial Capacity must be evidence in the form of a <b>bank statement or Line of credit from a bank or an insurance company licensed by the Bank of Guyana. The line of credit must state a figure.</b> The document must be <b>dated within one month</b> of the bid opening date and be <b>clearly legible</b> . When a photocopy is presented, it must be certified a 'true copy of original' by the issuing company.	
11.	Bidder must provide a letter of Authorization for the Procuring Entity to seek reference from the bidder's Bank/financial institution <b>relating to the financial capacity evidence supplied.</b> The document must be <b>dated within one month</b> of the bid opening date and be <b>clearly legible.</b>	
12.	Written confirmation of authorizing signatory must be provided. This must be in the form of an <b>Affidavit of Authorization endorsed by a Commissioner of Oaths or Justice of Peace.</b>	
13.	Bidder must provide <b>audited financial statements</b> for the <b>past the period: 2021, 2022 and 2023 for incorporated companies.</b> Financial statements must be <b>audited by a Chartered accountant/accountancy firm and include an auditor's</b>	

	<p>note. OR Registered businesses must provide <b>Balance Sheets, Profit and Loss Accounts, and Income and Expenditure Accounts</b> for the period: <b>2021, 2022 and 2023</b>. These financial statements must be <b>approved by a Chartered accountant/accountancy firm</b>. The financial analysis would include: Current ratio: &gt;1 for each year of the last 3 years; Net worth: +ve and minimum of 20% of bid value; Average annual turnover: GYD 6 million.</p>	
14.	<p>The Bidder shall provide accurate information on the related bidding form as provided about any litigation or arbitration resulting from contracts completed or on-going under its execution over the last five years. <b><u>Pending Litigation:</u></b> All pending litigation shall in total not represent more 50% of the Bidder's net worth and shall be treated as resolved against the bidder. <b>If bidder has pending litigation representing more than the stated percentage, the bid will not be considered.</b> <b><u>Litigation History:</u></b> Non-performance of a contract did not occur as result of supplier's default since 1st January, 2023. <b>If bidder has a history of nonperforming contract the bid will not be considered.</b></p>	
15.	<p>Bidder must provide a letter stating <b>any or no terminated or abandonment of projects</b>. The letter must be <b>dated within one month</b> of the bid opening date.</p>	
16.	<p>Provision of valid manufacturer's authorization or authorized distributor letter</p>	
17.	<p>Provision of a signed statement of warranty and/or guarantee for applicable items.</p>	
18.	<p>Bidder must provide a statement for the availability of spare parts and/or after sales services. Bidders statement indicating its acceptance or otherwise in offering Local after sales service of no less than three (3) years. Bidder must state the nature of service that will be provided.</p>	

**Award of Contract**

The contract will be awarded to the Bidder who is substantially responsive to the bid document and who has offered the lowest bid price.





**Pending Litigation Format**

No pending litigation in accordance with Evaluation Criteria # 14

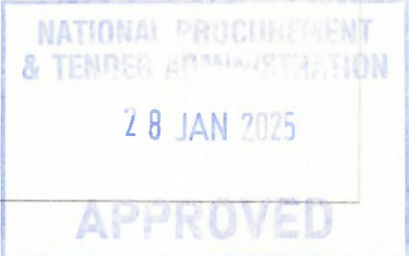
Year of dispute	Amount in dispute (currency)	Outcome as Percentage of Net Worth	Contract Identification	Total Contract Amount (current value, currency, exchange rate and USD equivalent)
[insert year]	[insert amount]	[insert percentage]	<ul style="list-style-type: none"> <li>Contract Identification: [indicate complete contract name, number, and any other identification]</li> <li>Name of Purchaser: [insert full name]</li> <li>Address of Purchaser: [insert street/ city/ country]</li> <li>Matter in dispute: [indicate main issues in dispute]</li> <li>Status of dispute: [indicate if it is being treated under Arbitration or being dealt with by the Judiciary]</li> </ul>	[insert amount]

**Litigation History**

**Litigation History Format**

No court/arbitral award decisions against the Bidder since 1<sup>st</sup> January 2021, in accordance with Evaluation Criteria 14

Year of Award	Contract Identification	Total Contract Amount (current value, currency, exchange rate and USD equivalent)
[insert year]	<ul style="list-style-type: none"> <li>Contract Identification: [indicate complete Contract name, number, and any other identification]</li> <li>Name of Purchaser: [insert full name]</li> <li>Address of Purchaser: [insert street/city/country]</li> <li>Matter in dispute: [indicate main issues in dispute]</li> <li>Party who initiated the dispute: [indicate "Purchaser" or "Supplier"]</li> <li>Status of dispute: [indicate if it is being treated by under Arbitration or being dealt with by the Judiciary]</li> </ul>	[insert amount]


  
 NATIONAL PROCUREMENT & TENDER ADMINISTRATION  
 28 JAN 2025  
 APPROVED

Section 1: Introduction

The purpose of this document is to provide a comprehensive overview of the project's objectives and scope.

The project aims to develop a robust system that can handle large volumes of data and provide real-time analytics. The system will be designed to be scalable and secure, ensuring that it can meet the needs of the organization in the long term.

The project is divided into several phases, including requirements gathering, system design, development, testing, and deployment. Each phase will be carefully monitored to ensure that the project stays on track and meets the desired outcomes.

The project team consists of experienced professionals from various backgrounds, including software development, project management, and business analysis. We are confident that our team has the skills and resources necessary to successfully complete the project.

We welcome any feedback or questions you may have regarding the project. Please contact the project manager at [email address] for more information. We are committed to transparency and communication throughout the project lifecycle.

The project is currently in the planning phase, and we expect to begin development in the next few weeks. We will provide regular updates on the project's progress and any changes to the schedule or scope.

We are excited about the potential of this project and the impact it will have on the organization. We look forward to working with you and the rest of the team to bring this vision to life.

Thank you for your interest in the project. We are confident that it will be a successful and transformative experience for everyone involved.

Best regards,  
[Name]

Project Manager

Contact: [Phone Number] | [Email Address]

Document ID: [ID Number]