



resembid



**INVITATION TO TENDER (ITT) FOR THE PROCUREMENT OF AN ENGINEERING,  
PROCUREMENT, AND CONSTRUCTION (EPC) CONTRACT**

**FOR**

**RESILIENT-LED SOLAR STREETLIGHTS WITH BATTERY ENERGY STORAGE  
TECHNOLOGY**

**FOR THE RESEMBID SUSTAINABLE ENERGY PROJECT (SEP)**

**TRANSITIONING TOWARDS GREEN ENERGY IN THE TURKS AND CAICOS  
ISLANDS**



**THE GOVERNMENT OF TURKS AND CAICOS ISLANDS  
Ministry of Home Affairs, Transportation, Broadcasting, Energy and Utilities and  
Telecommunications Commission (MOHAT)**

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## PROJECT BACKGROUND

The Turks and Caicos Islands (TCI) is one of the most vulnerable member states of CARICOM. An archipelago of 40 low-lying islands and cays, TCI's geographic location, and small economy make it highly susceptible to climate change impacts such as the increased frequency of hurricanes and sea-level rise (SLR). These climate change impacts pose a significant risk to the local economy, critical infrastructure, and livelihoods of TCI islanders.

The high exposure and vulnerability to the local energy sector are evident following an active 2017 Atlantic Hurricane Season. Hurricane Irma (a Category 5 hurricane) ripped off roofs, caused significant flooding throughout communities, and destroyed utility poles resulting in mass power outages. Compounding the damage already felt, just days later, TCI would be struck by a second major hurricane, Hurricane Maria (Category 3), with winds up to 125 miles per hour (mph). To address the damage caused to the local energy utility system, local utility company, FortisTCI, would be forced to import much-needed capacity from their international parent companies in Canada, the United States and across The Caribbean. It would then take the team 60 days after Irma to restore power to the country; however, many residents remained without power due to the damage caused to their homes and the inability to connect power safely. Currently, electricity is generated primarily through diesel (84MW); however, there is a national consensus (across the public and private sectors) to expand renewable energy in the most environmentally friendly manner.

In addition to hurricane impacts, strengthening TCI's energy sector is critical to the country's overall national development plan and the diversification of its economy. The country's National Development Plan (2020) outlines national challenges, vision statements, and ten strategic goals, including creating a more sustainable future, investing in human capital, supporting quality infrastructure and services, and creating a knowledge based competitive economy. The high cost of electricity, inadequate electrical generation to support future development, and poor infrastructure were all identified as significant challenges that warranted urgent action. With the tourism sector accounting for 36.6% of total GDP (2017), the electricity sector must maintain and improve its reliability, resilience, cost-effectiveness, and environmental sustainability to drive new economic activity while further enhancing the lives of TCI Islanders.

Demonstrating leadership towards green energy, FortisTCI installed 1 MW of distributed roof-top solar on commercial buildings through its Utility Owned Renewable Energy Program (UORE). An additional 1MW of ground-mounted solar is also set to be constructed. While this is a step in the right direction, accelerating the sustainable energy transition will require TCI to undertake a deeper investment in capacity building, the development of modern legislative and regulatory frameworks, and catalytic pilot projects.

The overall objective of this project is to contribute to the acceleration of a reliable, resilient, and environmentally sustainable energy sector in TCI (Renewable energy penetration rate). It will also strengthen capacity for sustainable energy transition in TCI



through investment in capacity building; development of modern legislative and regulatory frameworks; catalytic pilot projects.

To support the improvement and transformation of TCI's energy sector, The Turks and Caicos Islands developed its Resilient National Energy Transition Strategy (R-NETS), which offers a comprehensive evaluation of the energy sector and identifies short, medium, and long-term needs for the development of a green energy network. In 2019, the TCIG/RESEMBID SEP Cabinet adopted the R-NETS, led by TCIG/RESEMBID SEP, Fortis TCI, and Rocky Mountain Institute (RMI) and identified an optimal pathway to reach at least 33% renewable energy penetration by 2040 with the installation of "microgrid-capable" renewables at critical public facilities. The R-NETS also recommended the pursuit of efficiency, the acceleration of legislation to support TCIG/RESEMBID SEP and FortisTCI programs, and additional utility-scale and pilot battery storage projects.

Following the R-NETS, in 2020, in partnerships with the Clinton Climate Initiative (CCI) and RMI, a Solar Land and Rooftop Assessment of 31 critical facilities were completed to assess their solar PV potential for roof-top or ground-mounted systems. The team identified 17 sites as suitable locations for ground-mount solar PV, totaling 67.6 MW in capacity, while high-opportunity sites for roof-top solar showed potential for 7.9 MW.

Building on these existing national strategies, this proposed project will progress the TCIG/RESEMBID SEP national goals to take proactive steps to diversify the local economy and heighten public systems to support future development and climate resiliency in a post-COVID-19 era. Like other tourism-dependent islands throughout the region, the global health pandemic severely impacted TCI's tourism industry. Much needed revenue generated directly and indirectly from the tourism sector was lost and had a trickle-down impact on the local labour market. This proposal will provide much-needed investment into enhancing public infrastructure and offer tangible outputs to improve capacity to develop resilience to climate change.



## PROJECT SUMMARY

### PROJECT SPECIFIC OBJECTIVES

The specific objective of this project is to strengthen the capacity of the TCI for a sustainable energy transition. It is against this impact statement to create long-term and meaningful change within the energy sector and across public systems that the following set of outcomes and actions are proposed.

Component 1: Catalytic pilot energy projects implemented.

#### Output 1a: Solar PV Microgrids

At the end of the project, a solar roof-top feasibility, and structural assessments of five (5) essential government critical facilities (including 4 clinics and TCI's disaster management headquarters) for solar PV and energy efficiency upgrades will be conducted. The necessary data to support the project will be collected and analyzed, including a capacity needs assessment (CNA). Catalytic pilot energy projects will be implemented to reduce TCI's dependency on imported fossil fuel. Additionally, energy audits will be conducted to assist in designing Solar PV systems and Battery Energy Storage Systems (BESS) for the critical facilities identified.

#### Output 1b. Solar Streetlights

One hundred and forty (140) hurricane-resilient solar streetlights installed on; North Caicos (25), Middle Caicos (15), South Caicos (20), Grand Turk (30), Salt Cay (10), and Providenciales (40) will be installed.

Component 2: Applicable laws and regulations, policies related to the national energy transition strategy critically reviewed and Energy efficiency market transitions are strengthened.

A comprehensive review of existing energy legal and regulatory frameworks, including the Electricity Ordinance, Customs Ordinance, Physical Development Ordinance, Development Manual, Building Code, Energy Policy, and housing policies will be conducted and proposed amendments will be made to existing applicable laws, regulations, and policies in TCI. A financial and investment analysis on RE and EE technologies will also be conducted.

A strategy for the market transition towards efficient energy-consuming products and appliances will be developed in accordance with the criteria of **CARICOM Regional Organization for Standards and Quality (CROSQ)**. A draft report on the recommendations (regulations, define procedures and infrastructure needs, and outline procedures for market surveillance) will be prepared by the project. A report on financial and investment analysis of RE will also be prepared under this component of the project.



Component 3: Increased national conversations, interests, and knowledge awareness surrounding sustainable energy and TCI's green energy transition.

A Communications and Visibility plan, and a Community Outreach, Awareness, and Communication Strategy will be prepared and implemented, including but not limited to the development of EUD website. The design and distribution of flyers, brochures, posters, billboards, press releases, radio & TV interviews, town hall/public meetings will be populated on the UED website periodically.

Component 4: Improved institutional capacity building for energy transition and economic Diversification.

At the end of the project the local capacity of TCI residents to participate in the transition towards green energy will be enhanced. A cadre of local experts on RE and EE will be established to support TCIs green energy transition.

## INTRODUCTION

This Invitation to Tender (ITT) relates to the TCI RESEMBID Sustainable Energy Project (SEP) (Grant Contract No. 22-SB2334) entitled "Transitioning Towards Green Energy in the Turks and Caicos Islands/RES-33/TCI".

It outlines the Instructions to Tenderers, General Requirements and Technical Specifications and is being issued for eligible vendors to submit tenders in response to the published tender notice on the cover page.

The full set of Tender Documents consists of the following:

- a. Published Tender Notice
- b. PART A: INSTRUCTIONS TO TENDERERS
- c. PART B: GENERAL REQUIREMENTS
- d. PART C: TENDER EVALUATION
- e. PART D: CONTRACT AWARD
- f. APPENDIX 1: TENDER EVALUATION CRITERIA
- g. APPENDIX 2: CERTIFICATE OF NON-COLLUSION
- h. APPENDIX 3: TENDER SUBMISSION FORM



- i. APPENDIX 4: DRAFT CONTRACT
- j. APPENDIX 5: TENDER SUBMISSION ENVELOPE LABEL
- k. APPENDIX 6: TECHNICAL SPECIFICATIONS
- l. APPENDIX 7: COST BREAKDOWN
- m. APPENDIX 8: MAP OF TURKS AND CAICOS ISLANDS
- n. Any Issued Addendum

Tenders in conformity with all elements of Appendix 1: Tender Evaluation Criteria must be enclosed in a sealed envelope with Appendix 5: Tender Submission Envelope Label attached firmly to the front. The sealed envelope should not carry any identification mark indicating the sender of the envelope.

A virtual pre-tender meeting will be held at **2:00 p.m. (TCI time/EST) on Wednesday, 11 January 2023** via Microsoft Teams. Persons interested in attending should indicate in writing, their contact information including your name, the company you represent and email address to [eud@gov.tc](mailto:eud@gov.tc) no later than **12:00 noon (TCI time/EST) on Wednesday, 11 January 2023**.

## PART A: INSTRUCTIONS TO TENDERS

### Tender Submission

1. Tenders shall be submitted as follows:
  - a. One (1) original and Two (2) copies of the full set of tender documents and all supporting documents, printed and bound, each clearly labelled as “ORIGINAL” and “COPY” respectively.
  - b. One (1) original of the completed Appendix 6: Technical Specifications [in Microsoft Excel format]
  - c. One (1) original of the complete Appendix 7: Cost Breakdown [in Microsoft Excel format]
  - d. One (1) electronic copy of the full set of tender documents and all supporting documents [PDF file].

Note: In the event of any discrepancy between the original and copies, the original shall govern.



Electronic copies are REQUIRED and must be submitted on CD/DVD, memory stick or any other appropriate portable storage device.

A virtual pre-tender meeting will be held at **2:00 p.m. (TCI time/EST) on Wednesday, 11 January 2023** via Microsoft Teams. Persons interested in attending should indicate in writing, their contact information including your name, the company you represent and **email address to eud@gov.tc** no later than **12:00 noon (TCI time/EST) on Wednesday, 11 January 2023.**

2. The dimensions of the tender box slot are: 13 ½ inches x 3 ¾ inches (34.29 cm x 9.525cm) Tender submissions will be placed in the tender box through the slot hence the dimensions of the package(s) must not exceed the dimensions of the slot.

3. Tenders must be enclosed in a sealed envelope with Appendix 5: Tender Submission Envelope Label attached firmly to the front. No additional marks should be placed on the envelope. Tenderers are responsible for ensuring their tenders are complete and reaches the address as stated on Appendix 5: Tender Submission Envelope Label **no later than 10:00 A.M. Turks and Caicos Islands time/EST on Wednesday, 25 January 2023.**

4. Tenders will be opened publicly immediately after closing at the address as stated on Appendix 5: Tender Submission Envelope Label.

5. It is the Tenderer's responsibility to ensure that their tender is received on or before the time stated for closing of tenders. Tenders received after the submission deadline will be rejected and returned unopened to the Tenderer stamped "LATE TENDER". Late tenders delivered by courier or messenger will be returned unopened to the addressee on the courier receipt. If no return address is provided, such tenders will be opened to determine a return address.

6. Telegraphic tenders, tenders by Telex, by fax or by e-mail will not be accepted. Tenders may be revised, modified, or withdrawn in writing, prior to the submission closing time specified. The revised or amended tender should state that it supersedes the previous submission, identified as "REVISION TO TENDER", provided that such revision is received before the date and time stipulated. Tenderers will not be allowed to withdraw or modify their tenders after the deadline for submission. No tender may be altered or amended after tenders are opened.

7. Tenders shall be submitted in English.

8. Tenders must follow the sequence outlined below in organizing their submission:

i. Cover Letter



- ii. Cover Page
- iii. Table of Contents
- iv. Tender Submission Form (Appendix 3, completed)
- v. Certificate of Non-Collusion (Appendix 2, completed)
- vi. Tender Evaluation Criteria (Appendix 1, Prequalification, completed)
- vii. Tender Submission Envelop Label (Appendix 5)
- viii. Draft Contract (Appendix 4, completed)
- ix. Technical Specifications (Appendix 6, completed)
- x. Cost Breakdown (Appendix 7, complete)
- xi. Any Other Supporting Information

The Prequalification Requirements and the Technical Proposal must follow the sequence of the requirements in Appendix 1: Tender Evaluation Criteria.

Each section and related subsections must be separated and clearly identified using dividers. The full printed set of tender documents and all supporting documents must be bound.

9. All prices tendered must be in United States Dollars (US\$) and must include all discounts, applicable fees, taxes, customs brokerage fees, any other fees, and charges, if applicable (TCI duties do not apply), freight and delivery to the Turks and Caicos Islands, as well as assembly and installation charges.

10. All tender prices must be valid for at least one hundred twenty (120) calendar days from the tender submission date.

11. Tenderers are required to submit the completed and signed Appendix 2: Certificate of Non-Collusion. A tender will not be considered unless a completed Certificate of Non-Collusion signed by or on behalf of the Tenderer is included in the submission.

12. All queries and requests for clarification regarding this tender shall be submitted in writing directly to the Energy and Utilities Department via e-mail; eud@gov.tc

13. The deadline for the submission of queries and requests for clarification from Tenderers is no later than ten (10) calendar days before the tender submission date. Responses to queries will be circulated within three (3) days to all parties who obtained

the tender documents in the form of an addendum. All addenda issued by the Turks and Caicos Islands Government (TCIG/RESEMBID SEP) prior to the tender submission date shall be attached to and shall form part of the Tender.

14. Tenders shall be accepted for the complete listing of requirements as stated in Appendix 6: Technical Specifications and Appendix 7: Cost Break Down.

15. Condition of Materials & Packaging: Goods and materials supplied for this tender shall be new and in excellent condition.

16. Claims: The successful Tenderer will immediately replace missing or damaged items and will be responsible for making any and all claims against carriers.

17. Alternate Products or Services: The determination as to whether alternate products or services is of equivalent value to the specifications indicated in the tender shall be made by the Evaluation Panel of the TCIG/RESEMBID SEP and such determination shall be final and binding upon all Tenderers.

18. Tender Submittal Costs: All costs associated with the submission of the tender is the sole responsibility of the Tenderer. The TCIG/RESEMBID SEP shall in no way be liable or obligated for any costs accrued to the Tenderer in submitting the tender.

19. Specifications are included. Tenders shall be submitted based on the details and materials shown or specified in the ITT. Pictures of the goods to be supplied should be included in the submission. Tenderer's Item Numbers and Tenderer's Descriptions should also be included in Appendix 6: Technical Specifications. Tenderers must furnish all information requested in the tender. If required, Tenderers must submit cutsheets, sketches, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with any previous tender will not satisfy this provision.

If the specifications included in the ITT are not returned with the tender submission, and no specific reference is made to them in the tender submission, it will be assumed that all specifications will be met. When material, sketches, cutsheets, descriptive literature, vendor's or manufacturer's specifications which accompany the tender contain information that can be construed or is intended to be a deviation from the specifications in the ITT, such deviation must be specifically referenced in Appendix 3: Tender Submission Form and Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown, where applicable. Tenderers must furnish all information requested in the tender. Tenders that do not comply with these requirements may be subject to rejection.

20. Delivery Schedule: The TCIG/RESEMBID SEP desires to take delivery of the goods ordered against this contract within the time period stated in Appendix 3: Tender Submission Form. Failure to deliver on or before the specified date will result in the

Tenderer having to pay TCIG/RESEMBID SEP damages of US\$100.00 per calendar day. Such amounts shall be deducted from payments due to the successful Tenderer at the time of settlement.

21. Default: Failure of the Tenderer to deliver materials or services within the time stipulated in these specifications, unless extended in writing by the TCIG/RESEMBID SEP, shall constitute contract default. The contract may be cancelled or annulled by the TCIG/RESEMBID SEP in whole or in part by written notice of default to the Tenderer upon non-performance or violation of contract terms. On cancellation, an award may be made to the next preferred bidder who shall be required to provide the tendered items at the prices contained in their proposal.

22. Substitution: After contract award, the Tenderer shall not substitute items except with the written agreement of the TCIG/RESEMBID SEP. Failure to comply will constitute a breach of contract and represent grounds for cancellation. All substitutions or modifications to the specifications by the Tenderer shall be submitted for approval via a written change order.

23. Invoicing and Payments: The Tenderer shall invoice the TCIG/RESEMBID SEP subject to the TCIG/RESEMBID SEP being satisfied that the Tenderer has performed their duties, obligations, and responsibilities under this Contract.

24. Subcontractors: The Tenderer may sublet or subcontract any of the contractual obligations concerning this tender to local/regional qualified contractors with the written acknowledgement of the TCIG/RESEMBID SEP.

25. Exceptions to Tender: All tender submittals must clearly state with specific detail any variations to the requirements. Such variations should be stated upon Appendix 3: Tender Submission Form, Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown, where applicable. Any such variations to the tender may be subject to rejection by the TCIG/RESEMBID SEP since the tender does not meet the exact requirements of the TCIG/RESEMBID SEP.

26. Tenderers shall have no interest in any tender other than their own, and they shall have no connection with any person, firm or corporation making a tender for the same Goods and Services.

27. Tenderers shall also note that:

a. Incomplete tenders and those that do not comply with the specifications or do not conform to the ITT may be subject to rejection and disqualification.

b. The TCIG/RESEMBID SEP may declare tendering void when none of the tenders comply with the ITT and/or specifications or when it is evident that there has been a lack

of competition and/or that there has been collusion amongst Tenderers and/or other parties.

c. The TCIG/RESEMBID SEP reserves the right to accept or reject any tender received.

d. Tenders will be rejected if an original tender is not submitted with an alternative tender.

## PART B: GENERAL REQUIREMENTS

1. These general guidelines apply to all goods and related services specified in this tender package.
2. **Conditions:** The preferred bidder shall be responsible for delivering goods that are new and in excellent condition.
3. **Delivery and Order Requirements:**
  - a. The Tenderer shall state the proposed delivery of all the items in **Appendix 3: Tender Submission Form** and in **Appendix 6: Technical Specifications and in Appendix :7 Cost Breakdown**, the estimated required time for delivery for each item in **Appendix 6: Technical Specifications**.
  - b. Items must be batched according to the specific location, as stated in **Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown** and each batch must be clearly labelled with the name of the specific location.
  - c. The delivery locations and quantities are as follows:
    - i. North Caicos – 25 Solar Streetlights with poles and accessories.
    - ii. Middle Caicos – 15 Solar Stret Lights with poles and accessories.
    - iii. South Caicos – 20 Solar Streetlights with poles and accessories.
    - iv. Grand Turk – 30 Solar Streetlights with poles and accessories.
    - v. Salt Cay – 10 Solar Streetlights with poles and accessories.
    - vi. Providenciales – 40 Solar Streetlights with poles and accessories.

- d. It is the responsibility of the Tenderer to ensure that items are delivered in accordance with the requirements of the ITT.
4. **Standard Delivery Documents:** Upon delivery furnish the completed priced Invoice.
  5. **Warranty:** The successful Tenderer warrants that the goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless stated otherwise in the Contract. The successful Tenderer further warrants that all goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the TCIG/RESEMBID SEP's specifications) or from any act or omission of the Tenderer, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination. Therefore, the tender warranty shall be valid for **one (1) year**. A commercial warranty of **five (5) years** after the goods have been commissioned.
  6. **Final Acceptance** will be given after confirmation by the TCIG/RESEMBID SEP that the goods are delivered in accordance with the specifications.
  7. **Inadequate Services:** When goods require service or adjustments upon delivery, the successful Tenderer shall either remedy the defect, or be responsible for remedying the defect. Such service or adjustments shall be initiated by the successful Tenderer within **forty-eight (48) hours** (not including weekends and holidays) after notification by the TCIG/RESEMBID SEP. Delivery will not be considered complete until all services and/or adjustments are satisfactory, and the goods are fully accepted. The provisions of the delivery paragraph shall remain in effect until the re-delivery is accomplished. Any shipping charges, taxes or duties associated with the transportation of a replacement product required shall be the responsibility of the successful Tenderer until the goods are satisfactory and accepted by the TCIG/RESEMBID SEP.
  8. All relevant and related manuals and user guides for the furnishings, equipment, systems, and software acquired shall be provided by the successful Tenderer.

## PART C: TENDER EVALUATION

1. This Section refers to the criteria that will be used by the Evaluation Panel to evaluate and qualify Tenderers. The Tenderer shall provide the information requested for consideration in the evaluation process. Omission of information may result in disqualification, or the Tenderer not being considered further in the tender process.
2. Tenders will be examined to determine whether they are complete, free from any computation errors and whether the quotations are generally in order. Arithmetical errors will be rectified on the following basis:
  - i. If there exists a discrepancy between the product of the unit price and the quantity on one hand and the corresponding price entered in the schedule on the other, the unit price shall prevail, and the corresponding total price (extended price) will be corrected.
  - ii. If there exists a discrepancy between the sum of the individual prices and the corresponding total price entered in the bid, the individual prices will prevail, and the total price will be corrected.
  - iii. If there exists a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetical error in which case the amount will prevail subject to (i) and (ii) above.
3. If the preferred bidder refuses to accept the correction of errors, that bid shall be disqualified. In the event of disqualification of the bid, the TCIG/RESEMBID SEP may proceed to the next substantially responsive bid and follow the procedure as above.
4. All contact between the Tenderer and the TCIG/RESEMBID SEP during the evaluation period should be initiated by the TCIG/RESEMBID SEP. Any unsolicited contact initiated by the Tenderer during this period may be construed as an attempt to influence the evaluation process and may result in this tender being disqualified.

### Eligibility Criteria

5. Tenderers will be required to meet the eligibility criteria in **Appendix 1: Tender Evaluation Criteria** to qualify and for their bids to be evaluated. Failure to meet or satisfy these eligibility requirements may be deemed non-responsive and may result in the tender not being considered for further evaluation. Having met the eligibility requirements, responsive bids will be evaluated on their technical and price proposals in accordance with the criteria outlined in **Appendix 1: Tender Evaluation Criteria**.



6. The Tenderer is required to sign, as indicated, **Appendix 1: Tender Evaluation Criteria** which contains all the criteria that the TCIG/RESEMBID SEP will use to evaluate tenders and qualify Tenderers. The Tenderer shall provide all information requested within the bidding document to be considered for evaluation. Omission of required information may result in the tender being disqualified or not being considered further as appropriate.
7. **Appendix 3: Tender Submission Form** and **Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown** indicate the price proposal format for submission.

#### PART D: CONTRACT AWARD

1. Subject to the evaluation of the tenders, the TCIG/RESEMBID SEP will award the Contract to the Tenderer whose tender has been determined to be substantially responsive. The preferred bidder shall be contacted for further negotiations.
2. The TCIG/RESEMBID SEP does not bind itself to accept the lowest priced tender.
3. The TCIG/RESEMBID SEP reserves the right to annul the tender process and reject all tenders at any time prior to award of the Contract, without thereby incurring any liability to the affected Tenderer(s) on the grounds for the actions of the TCIG/RESEMBID SEP.
4. Prior to the expiration of the bid validity period, the TCIG/RESEMBID SEP will notify the preferred bidder in writing that their tender has been successful and that the TCIG/RESEMBID SEP wishes to negotiate details of the Contract in accordance with the General Requirements and Technical Specifications of this tender.
5. In accordance with the Business License Ordinance Section 3.1, the preferred bidder may be required to obtain a Business License Certificate issued in the Turks and Caicos Islands in the appropriate Class of Business.
6. The preferred bidder will be required to provide proof that Contributions to the National Insurance Board (certificate of clearance) and the National Health Insurance (letter of good standing) are up to date prior to the execution of this Contract.

7. The preferred bidder will be required to execute a Contract approved by the Attorney General (AG) of the TCIG/RESEMBID SEP or another Legal Officer in the Public Service appointed by the AG. **Appendix 4: Draft Contract**, is attached.
8. The Contract will be administered by the Energy and Utilities Department (EUD), Ministry of Home Affairs, Transportation, Broadcasting, Energy and Utilities and Telecommunications Commission (MOHAT).
9. The successful bidder must allow the National Audit Office and/or the Office of the Chief Internal Auditor access to the contractor's records and premises to carry out appropriate audits, if required.
10. The successful tenderer shall note the public accountability and transparency requirements of government, including disclosure to the House of Assembly and its committees.
11. The TCIG/RESEMBID SEP reserves the right to annul a notice of award of Contract, without liability, if during contract negotiations the preferred bidder (i) proposes any change substantially different from that contained in the Invitation to Tender or (ii) is unable to comply with any pre-condition to execution of the Contract.
12. The TCIG/RESEMBID SEP reserves the right to terminate the Contract by written notice if the successful Tenderer fails to meet the terms and conditions of the Contract.

## APPENDIX 1: TENDER EVALUATION CRITERIA

### Tender Reference Number RES-33/TCI-01

The Tenderer is required to complete and sign this Section. Tenderers shall provide **all the information required** within the tender documents to be considered for evaluation. Omission of required information may result in the tender being disqualified or not being considered further as appropriate.

## Prequalification

No.	Mandatory/ Optional	Yes	No	Requirements	Provide complementary details and/or State the Tender Section/ Sub- section
1.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed a completed and signed <b>Certificate of Non-Collusion</b> . <i>(A tender will not be considered unless a completed Certificate of Non-Collusion signed by or on behalf of the Tenderer is included).</i>	
2.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed a copy of my current Business License Certificate in the appropriate class of business (or receipt of payment).	
3.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed copies of: <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>For TCI Limited Companies</u></b> <ul style="list-style-type: none"> <li>• Certificate of Incorporation; and</li> <li>• Certificate of Good Standing</li> </ul> </li> <li><input type="checkbox"/> <b><u>For other TCI based Tenderers</u></b> <ul style="list-style-type: none"> <li>• Certificate of Registration</li> </ul> </li> <li><input type="checkbox"/> <b><u>For Tenderers not based in the TCI</u></b> <ul style="list-style-type: none"> <li>• Incorporation Documents showing the country and date of incorporation; and</li> <li>• Certificate of Good Standing <i>[or equivalent in-home country]</i></li> </ul> </li> </ul>	
4.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed a full listing of the Directors, Principals and/or Owners of the Company.	
5.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I certify that neither I nor any of the other Directors, Principals or Owners of the Company have a conflict of interest ( <b>actual or perceived, as defined by the TCI Code of Conduct issued by the Integrity Commission</b> ) within this tender. <b>If conflict(s) exist, details are provided. <u>Note:</u> it is the responsibility of the Company to ensure that they are clear on the definitions.</b>	
6.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I certify that no Contracts with the Company have been cancelled for non-performance in the last five (5) years. <b>If contract(s) cancelled, details are provided.</b>	
7.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I declare that no bankruptcy or insolvency proceedings are held against the Company or its Directors, Principals or Owners. <b>If bankruptcy or insolvency proceedings, details are provided.</b>	

No.	Mandatory/ Optional	Yes	No	Requirements	Provide complementary details and/or State the Tender Section/ Sub- section
8.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I declare that there is no ongoing or pending litigation against the Company or its Principal(s). <b>If ongoing or pending litigation(s), details are provided.</b>	
9.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed proof of experience ( <i>tabular format</i> ) of the Tenderer in providing similar orders for the specified Goods and Service for a minimum period of two (2) years, successfully completed within the last five (5) years.	
10.	Mandatory	<input type="checkbox"/>	<input type="checkbox"/>	I have enclosed proof of Financial Position in the form of reference letter, no older than six (6) months, from banking/financial institution as evidence of good financial standing.	
11.	Optional	<input type="checkbox"/>	<input type="checkbox"/>	I have included comments on the <b>Draft Contract</b> ( <i>if no comments are attached it is assumed that the tenderer will be content to agree the Contract without amendments.</i> )	
12.	Optional	<input type="checkbox"/>	<input type="checkbox"/>	I have included suggestions, recommendations, and suitable solutions to problems with carrying out the contract.	
13.	Optional	<input type="checkbox"/>	<input type="checkbox"/>	I have included any other supporting information that will justify my tender prices.	

I certify that I have read the whole of the Invitation to Tender and that the above information is true and correct.

\_\_\_\_\_  
**Signature of Representative of Company**

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

\_\_\_\_\_  
**Print Name**

\_\_\_\_\_  
**Position/Capacity**

\_\_\_\_\_  
**Telephone Number**

\_\_\_\_\_  
**E-mail Address**



## Technical Evaluation

The Technical proposal will be evaluated using the criteria below

CRITERIA			Maximum points
Item	Measure	Requirement	
1	Meeting of all of the Technical Specifications.	<i>As detailed in Appendix 6</i> <ul style="list-style-type: none"> <li>The provision of the <b>completed Appendix 6</b>, which meets all of the Technical Specifications.</li> </ul>	15
2	Delivery date of goods. <i>[To be completed in Appendix 3: Tender Submission Form and Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown]</i>	<i>As stated in Part B.</i> <ul style="list-style-type: none"> <li>If a range of time is proposed, the longest time will be considered for evaluation.</li> </ul>	5
3	Meeting Warranty requirements.	<i>As stated in Part B</i> <ul style="list-style-type: none"> <li>Provide a statement detailing the proposed warranty of the Goods and Services.</li> </ul>	5
4	Order Fulfillment	<i>Percentage of Requirements, as detailed in Appendix 6 and Appendix 7, which is proposed to be filled.</i>	5
<b>Total Points Attainable</b>			<b>30</b>

The Total Score assigned to the Technical Evaluation is **thirty (30)** points. Tenderers will be required to meet a minimum technical score of **twenty (20)** points. No tender will be considered with a technical score of less than **twenty (20)** points.

## Price Evaluation

The Tender Price will be evaluated according to the following formula and table format below. The total score assigned to the Price Evaluation is **seventy (70)** points

$$\frac{\text{Lowest price submitted for all goods}}{\text{Tenderer's Price for all goods}} \times 70 = \text{Score awarded to Tenderer}$$

## Overall Score

This overall score (out of 100) will be calculated by combining the total scores from the technical and price evaluation.

Tender No.	Tenderer	Met Pre-qualification Criteria	Technical Score (X) 30% (min. 20 points)	Original Tender Amount	Corrected Tender Amount	Financial Score (Y) 70%	Total Score (X) + (Y)	Ranking
1								
2								
3								

The preferred bidder is the bidder with the highest score whilst meeting all the requirements above. The preferred bidder will be invited to negotiate a contract with the TCIG/RESEMBID SEP.

## APPENDIX 2: CERTIFICATE OF NON-COLLUSION

### TENDER SUBMISSION CERTIFICATE OF NON-COLLUSION

#### Tender Reference Number RES-33/TCI-01

I/We certify that this tender is made in good faith, and that we have not fixed or adjusted the amount of the tender by or under or in accordance with any agreement or arrangement with any other person. I/We also certify that we have not, and I/we undertake that we will not before the award of any contract for the work:

- I. Disclose the tender price or any other figures or other information in connection with the tender to any other party (including any other company or part of a company forming part of a group of companies of which I am/we are a part of) nor to any sub-contractor (whether nominated or domestic) nor supplier (whether nominated or domestic) or any other person to whom such disclosure could have the effect of preventing or restricting full competition in this tendering exercise
- II. Enter into any agreement or arrangement with any person that they shall refrain from tendering, that they shall withdraw any tender once offered or vary the amount of any tender to be submitted
- III. Otherwise collude with any person with the intent of preventing or restricting full competition
- IV. Pay, give, or offer pay or give any sum of money or other valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to another tender or proposed tender for the work any act or thing of the sort described at i), ii) or iii) above.

I/We further declare that I/we have no knowledge either of any sum quoted or of any other particulars of any other tender for this contract by any other party.

I/We further certify that the principles described above have been, or will be, brought to the attention of all sub-contractors, suppliers and associated companies providing services or materials connected with the tender and any contract entered into with such sub-contractors, suppliers or associated companies will be made on the basis of compliance with the above principles by all parties.

I/We acknowledge that any breach of the foregoing provisions shall lead automatically to this tender being disqualified and may lead to criminal or civil proceedings.



The Turks and Caicos Islands Government/RESEMBID Project shall treat any tender received in confidence but reserves the right to make the same available to any other funding organization or statutory regulatory authority either having jurisdiction over the works or who may now or at any time in the future have statutory power to require disclosure of this tender.

In this certificate, the word 'person' includes any persons and anybody or association, incorporated or unincorporated; any agreement or arrangement includes any transactions, formal or informal and whether legally binding or not; and 'the work' means the work in relation to which this tender is made.

Print Name.....

Signature.....

in the capacity of ..... Date.....

Duly authorized to sign tenders and acknowledge the contents of the certificate of non-collusion for and on behalf of:

Name of firm.....

Full postal  
address.....

.....

.....

E-mail.....Telephone no.....

***\*\*Please Use This Form for Submission\*\****



## APPENDIX 3: TENDER SUBMISSION FORM

### How to complete this tender submission form

**When submitting the tender submission form**, all section **MUST** be completed by the tenderer.

**To:** The Energy Analyst  
Ministry of Home Affairs, Transportation, Broadcasting, Energy and  
Utilities and Telecommunications Commission (MOHAT)  
Turks and Caicos Islands Government  
Government Business Park, Airport Road  
Providenciales, Turks and Caicos Islands  
TKCA 1ZZ

**From: Contact Person (for this tender)**

<b>Name</b>	
<b>Organization</b>	
<b>Address</b>	
<b>Office phone</b>	
<b>Mobile phone</b>	
<b>e-mail</b>	

1. I/We have examined the Invitation to Tender and hereby offer the **TCIG/RESEMBID SEP; Tender Reference Number RES-33/TCI-01** in accordance with the Tender Documents and Specifications. Below is the total cost and attached are the completed **Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown**.

<u>COST DESCRIPTION</u>	<u>COST (US\$)</u>
<b>Total FOB Cost of All Items</b>	
- Freight & Insurance	
- Local Delivery Charges to Delivery Locations	
- Installation & Associated Set up Costs	
- Other Costs _____	
<b>TOTAL COST</b>	<b>\$</b>



Funded by the  
European Union  
Financé par l'Union  
européenne



**EXPERTISE  
FRANCE**  
GROUPE AFD  
Implemented by Expertise France  
Mis en œuvre par Expertise France



In collaboration with GFDRR  
En collaboration avec la GFDRR

1. I/We, after having carefully read the Invitation to Tender and the Technical Specifications herewith offer to supply the goods and services in accordance with the details set out in **Appendix 6: Technical Specifications and Appendix 7: Cost Breakdown** and provide the unit prices as stated.
2. I/We acknowledge this offer will remain open for acceptance by you for a period of **one hundred and twenty (120)** calendar days from the closing date for receipt of tenders. The full Tender Package is now enclosed along with supporting documentation.
3. I/We acknowledge that the Turks and Caicos Islands Government/RESEMBID project is not obliged to accept the lowest or any offer and that this contract award procedure may be cancelled by you.
4. I/We undertake to deliver to the **TCIG/RESEMBID SEP; Tender Reference Number RES-33/TCI-01** in accordance with the terms and conditions of the tender documents.
5. I/We acknowledge that all costs and expenses incurred by us in producing and submitting this offer will be borne by us in full.
6. I/We undertake to treat the details of this offer as private and confidential. I/We acknowledge that no part of these documents may be transmitted by us to a third party.
7. I/We intend to deliver to the **TCIG/RESEMBID SEP; Tender Reference Number RES-33/TCI-01**; within .....calendar days from the date of official confirmation of award of contract. Prices quoted are inclusive of all shipping charges, freight, delivery and insurance to the Turks and Caicos Islands along with any applicable installation and assembly costs.

**Delivery Date:** .....

**Warranty Statement**.....

**Proposed Payment Terms:** Milestone payment schedule

I/We acknowledge the Turks and Caicos Islands Government/RESEMBID Project reserves the right to accept any tender submitted in whole or in part or reject any or



all Tenders or to award the work in one or more contracts and to waive any irregularities.

I/We further acknowledge this tender is irrevocable, made for good and services consideration and acceptance thereof by the Turks and Caicos Islands Government/RESEMBID Project and shall be binding on the undersigned from the date of acceptance.

Print Name.....

Signature of Tenderer.....

in the capacity of ..... Date: .....

On behalf of (Name of Company) .....

Address.....

.....

.....

Office Phone..... Mobile Phone No.....

E-mail.....

**\*\* Please Use This Form for Submission \*\***



## APPENDIX 4: DRAFT CONTRACT

GOVERNMENT OF THE TURKS AND CAICOS ISLANDS/RESEMBID PROJECT

**CONTRACT FOR THE RESEMBID SUSTAINABLE ENERGY PROJECT**

**TCIG/RESEMBID SEP; Tender Reference Number RES-33/TCI-01**

THIS AGREEMENT is made the \_\_\_\_\_ day of  
Two Thousand and Twenty-Two

### PARTICULARS

**Buyer:** THE TURKS AND CAICOS ISLANDS GOVERNMENT/RESEMBID  
SUSTAINABLE ENERGY PROEJCT  
Ministry of Home Affairs, Transportation, Broadcasting, Energy and  
Utilities and Telecommunications Commission (MOHAT)

**Seller:**

**Address:**

**Goods:** One hundred and forty (140) Solar Streetlights with poles and accessories

**Services:** Engineering, Procurement and Construction (EPC) of One Hundred and  
Forty (140) Solar Streetlights with poles and accessories.



**Prices & Payment:** Payment shall be in accordance with the following schedule:

**Payment Milestone Schedule**

<b>No.</b>	<b>Milestones</b>	<b>Documentation</b>	<b>Accumulative Percentages (USD)</b>
<b>1</b>	Installation Design	Presentation of Design Report	10% of Total Cost
<b>2</b>	Order: 140 Solar Streetlights with Poles and Accessories	Proof of Order	15% of Balance
<b>3</b>	Ready for Shipment	Shipment documents (CIF), Bill of lading with Certificate of Origin	70% of Balance
<b>4</b>	Delivery to Sites	Site Inspection	75% of Balance
<b>5</b>	Erection and Mechanical Installation	Progress Payment Certified by Project Team	95% of Balance
<b>6</b>	Commissioning	Taking Over Certificate certified by Project Team	100% of Balance

The Prices shall be paid in United States Dollars

## Delivery of the Goods:

Delivery of the Goods shall be made to the Buyer's address on the Delivery Date which shall be \_\_\_\_\_ weeks from the date of execution of this agreement or as agreed by the parties. The Goods may be delivered in advance of the Delivery Date only with the prior written consent of the Buyer. The Buyer shall make all arrangements to take delivery of the Goods whenever they are tendered for delivery in accordance with the Conditions of Purchase.

## WHEREAS

- a) The Buyer has requested the Seller to provide **EQUIPMENT**, as defined and described herein (hereinafter referred to as the "Goods").
- b) The Seller having presented to the Buyer that they have the requisite experience and ability to provide the goods and services on the terms and conditions set forth in this Contract.
- c) The Buyer has committed funding for the cost of the goods and services and intends to apply these proceeds to eligible payments under this Contract, it being understood,
  - i) That such payments will be subject in all respects to acceptability of the goods and services as dictated by the Tender Documents.
  - ii) That such payments shall be subject in all respects to the terms and conditions of the agreement for payment as included herein.

**NOW THEREFORE** the parties hereto agree as follows:

- 1) In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of the contract hereinafter referred to.
- 2) The following documents (all of which are either annexed or have been signed in quintuplicate for identification purposes on behalf of the Parties) shall be deemed to form, and be read and construed as, part of this Agreement:
  - a) The Conditions of Contract, namely:

TENDER SUBMISSION FORM dated \_\_\_\_\_



# CONDITIONS OF PARTICIPATION

## 1 Definitions

In these Conditions, unless the context requires otherwise:

- 1.1 'Buyer' means the person who buys or agrees to buy the Goods and services from the Seller; namely, the Government of the Turks and Caicos Islands/RESEMBID Project, its successors and/or assignees (and the Buyer may assign all or any of its rights under this contract);
- 1.2 'Conditions' means the terms and conditions of purchase set out in this document and any special terms and conditions agreed in writing by the Buyer and the Seller;
- 1.3 'Delivery Date' means the date or dates (if any) specified in the Seller's tender response or, if there is none, the date or dates to be specified by the Seller when the Goods and Services are to be delivered;
- 1.4 'Services' means the works which the Buyer agrees to buy from the Seller;
- 1.5 'Goods' means the articles which the Buyer agrees to buy from the Seller;
- 1.6 'Price' means the price for the Goods and Services; and
- 1.7 'Seller' means the person who sells or agrees to sell the Goods and Services to the Buyer.

## 2 Conditions applicable

- 2.1 These Conditions shall apply to all contracts for the purchase of Goods and Services by the Buyer from the Seller to the exclusion of all other terms and conditions including any terms or conditions which the Seller may purport to apply under any sales offer or similar document or in correspondence. These Conditions constitute the entire express understanding between the Buyer and the Seller (and supersede all previous agreements and understandings between the parties) with respect to the subject matter covered by the contract of purchase.
- 2.2 Dispatch or delivery of the Goods by the Seller shall be deemed conclusive evidence of the Seller's acceptance of these Conditions.

### **Delivery Locations:**

- i. North Caicos – 25 Solar Streetlights with poles and accessories.
- ii. Middle Caicos – 15 Solar Stret Lights with poles and accessories.



- iii. South Caicos – 20 Solar Streetlights with poles and accessories.
- iv. Grand Turk – 30 Solar Streetlights with poles and accessories.
- v. Salt Cay – 10 Solar Streetlights with poles and accessories.
- vi. Providenciales – 40 Solar Streetlights with poles and accessories.

2.3 Any variation of these Conditions (including any special terms and conditions agreed between the parties) shall be inapplicable unless agreed in writing by the Buyer.

### **3 Price and Payment**

3.1 The Price shall be the Seller's quoted and accepted price.

3.2 Payment shall be in accordance with the schedule stated above.

3.3 There shall be deducted from the payment(s) due to the Seller damages of \$100.00 per unit per calendar day if the seller fails to deliver the goods on or before the specified delivery

### **4 The Goods**

The quantity and description of the Goods shall be as set out in the Seller's quotation.

### **5 Warranties and Liability**

The Seller sells in the course of a business, and warrants that the Goods supplied will at the time of delivery correspond to the description given by the Seller. The warranty period for the Goods shall be \_\_\_\_\_. In addition, all other conditions, warranties, and terms relating to the Goods set out in the Sale of Goods Ordinance Cap. 17.10, or to be implied by other statute or by common law, shall be included herein to the fullest extent.

### **6 Title and risk**

Title to, and risk in the Goods shall pass on delivery of the Goods to the Buyer after installation at the various locations identified.

### **7 Corruption**

7.1 The Seller shall not by himself, or in conjunction with any other person, in relation to this contract or any other contract to which the Buyer is a party corruptly solicit, receive or agree to receive, for himself or for any other person; or offer or agree to give to any person in the Buyer's service, or any consultant or Seller who has a contract with the Buyer; any gift or



consideration of any kind as an inducement or reward for doing or not doing anything, or for showing favor or disfavor to any person.

- 7.2 The Seller shall not enter into this or any other contract with the Buyer in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his knowledge unless, before any such contract is made, particulars of any such commission, and of the terms and conditions of any agreement for the payment thereof, have been disclosed in writing to the Buyer.
- 7.3 The Buyer may by notice to the Seller terminate this contract or any other contract with the Seller:
- 7.3.1 if the Seller or anyone employed by him or acting on his behalf (whether with or without his knowledge) is in breach of this Condition; or
  - 7.3.2 if the Seller or anyone employed by him or acting on his behalf is convicted of any offence of bribery at common law or under any written law of the Turks and Caicos Islands in relation to this contract or any other contract to which the Seller is a party; or
  - 7.3.3 if the Seller has misrepresented facts, or has used collusive or dishonest practices, in order to influence the entry into this contract or any other contract to which the Seller is a party.
- 7.4 If the Buyer so terminates this contract, such termination shall be deemed to be by reason of the Seller's breach hereof and, in addition to the Seller's other rights and remedies, the Seller shall be entitled to recover from the Buyer the amount or value of any such gift, consideration, fee, reward, or commission.

## 8 Interpretation

This contract shall be governed by the law of the Turks and Caicos Islands and shall be subject to the exclusive jurisdiction of the courts of the Turks and Caicos Islands in all matters regarding it. Any reference to legislation is to such legislation as amended and in force from time to time, including any legislation which re-enacts or consolidates it, with or without modification. Nothing in this contract

confers or is intended to confer any right to enforce any of its terms on any person who is not a party to it.

## 9 Variation

The time for performance and manner of performance of this agreement may varied or extended by mutual agreement of the Parties. However, no variation of this agreement or oral promise or commitment related to it shall be, unless made in writing and signed by or behalf of both parties.

## 10 Counterparts

This Agreement may be executed in one (1) or more counterparts, each of which so executed shall constitute an original and all of which together shall constitute one (1) and the same Agreement, and shall become effective when one (1) or more counterparts have been signed by each parties and delivered to the other party's representative via email, it being understood that all parties need not sign the same counterpart. Each party agrees to exchange an original executed copy with the other as soon as it is reasonably practical to do so.



## MEMORANDUM OF AGREEMENT

We agree that the Particulars and Conditions and any alterations agreed in writing contain the entire express agreement and understanding between us.

**SIGNED for and on behalf of the GOVERNMENT OF THE TURKS AND CAICOS ISLANDS/RESEMBID SUSTAINABLE ENERGY PROJECT:**

**Signature**..... **Date** .....

**Print Name**..... **Capacity:** .....

**SIGNED for and on behalf of the Seller:**

**Signature**..... **Date** .....

**Print Name**..... **Capacity:** .....

**Company Seal**



## APPENDIX 5: TENDER SUBMISSION ENVELOPE LABEL

**TENDER REFERENCE NUMBER: TR RES-33/TCI-01**

**Tender for: THE TCIG RESEMBID SUSTAINABLE ENERGY PROJECT**

**To be returned by:**

**10:00 AM (TCI time) on Wednesday, 25 January 2023**

**To: Ministry of Home Affairs, Transportation, Broadcasting, Energy and  
Utilities and Telecommunications Commission (MOHAT)  
Turks and Caicos Islands Government Business Park, Airport Road  
Providenciales, Turks and Caicos Islands  
TKCA 1ZZ**



## APPENDIX 6: TECHNICAL SPECIFICATIONS

### Solar Street Light Specifications

The integrated standalone LED solar-powered lights would be rated at a minimum of 100 Watts and are to be install on metal poles capable of withstanding hurricane winds  $\geq 157$  mph at a high of 25 feet.

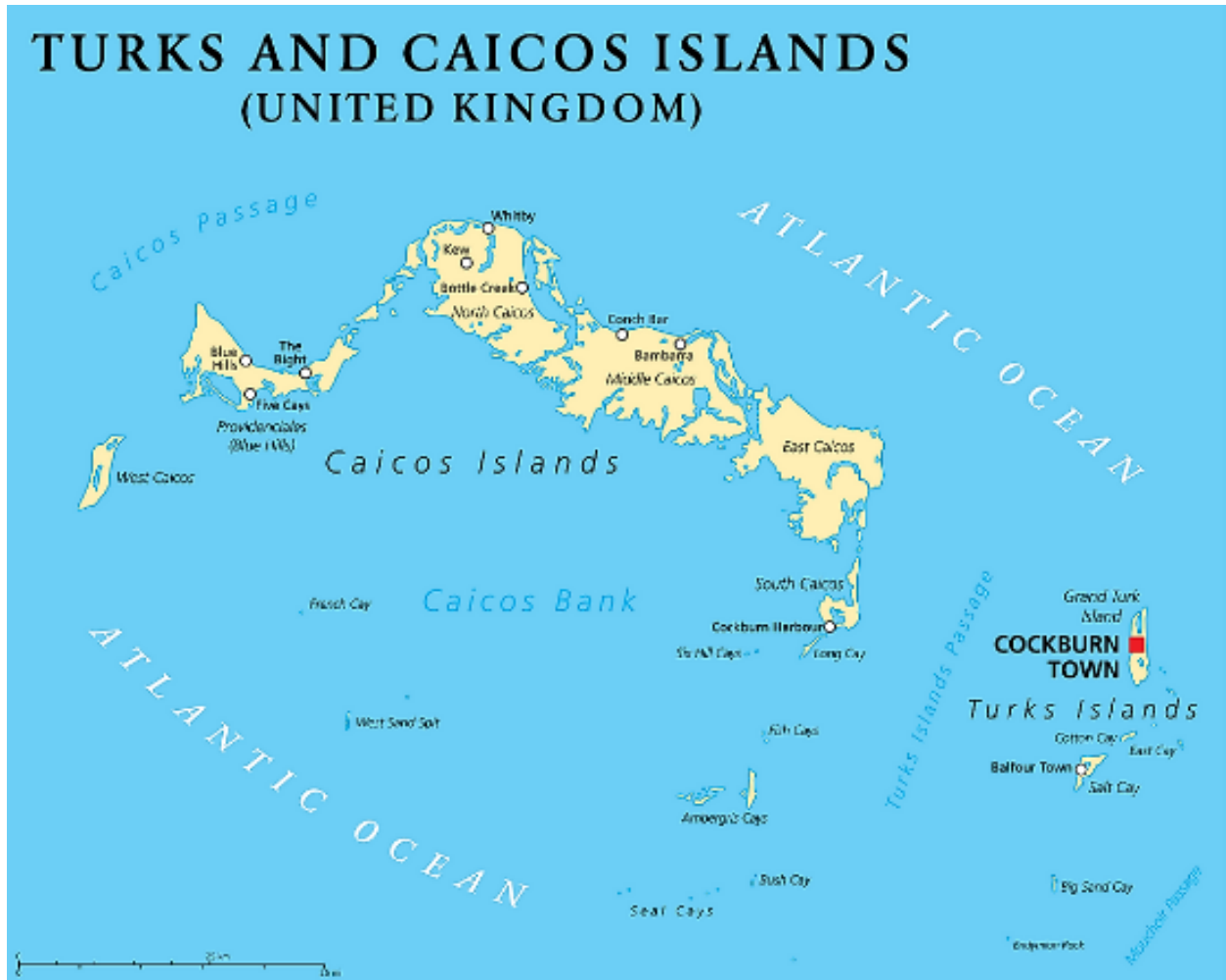
No	Description	Minimum Value
1	Power	$\geq 100$ watts
2	Lumen/LED Type	$\geq 12,800$ Lumens
3	Color Temperature	4500K – 6000K
4	Light Control	Photo Sensor Light Control or timer controlled
5	Color	Natural White
6	LED Life	$\geq 50,000$ hours
7	Working Temperature	$-10^{\circ}\text{F} - 140^{\circ}\text{F} / -23\text{C}^{\circ} - 60\text{C}^{\circ}$
8	Controller	Microwave induction/PIR
9	Luminous Efficacy	Minimum 110 lumens/watt
10	Heat sink	Well defined thermal management system should be provided, and LED must be mounted on heat sink conductive bars with suitable large surface area utilizing fins to dissipate the heat to ambient air
11	Body of fitting	Anti-corrosive material
12	Road viewing angle (Polar Candela Distribution)	Horizontal 120 Degree & Vertical 70 Degree (Batwing pattern) – Type III
13	Certification preferred	UL, RoHS, CE
14	Solar Module	Mono-crystalline Silicon Cells
15	Battery	Sealed maintenance-free Lithium-Iron phosphate
16	Charging Time	Requires 6 hours of direct sunlight at optimal angle
17	Battery Discharge time	Minimum 30 operating hours per permissible discharge.
18	Design	Aerodynamic housing/shell featuring a watertight enclosure
19	Test Certificate & photometry charts	The test certificate of the LED lamps and lighting distribution pattern shall be provided from an officially authorized independent agency.

		The photometry chart should be from an equivalent independent test agency.
20	Rating	IP67
21	Electronics Protection	<ul style="list-style-type: none"> <li>• Adequate protection is to be incorporated under “No Load” conditions e.g. when the lamp is removed and the system is switched ON.</li> <li>• The system should have protection against battery overcharge and deep discharge conditions.</li> <li>• Fuse should be provided to protect against short circuit conditions.</li> <li>• Protection for reverse flow of current through the PV module(s) should be provided.</li> <li>• Adequate protection should be provided against battery reverse polarity</li> </ul>
22	Special features	The entire unit should be theft-proof (anti-theft mechanism included) Must be able to withstand 157 mph wind speed or higher.
23	Poles	Round tapered pole shaft made of aluminum and meet all applicable material ASTM standards. Suitable foundation to support weight and wind speeds up to a category 5 hurricane.
24	Warranty	5 years

## APPENDIX 7: COST BREAKDOWN

<b>COST DESCRIPTION (Including all administrative cost)</b>	<b>TOTAL COST (USD)</b>
Total FOB Cost of All Items	
Freight and Insurance	
Local Delivery Charges to Delivery Location - Providenciales (PLS)	
Local Delivery Charges to Delivery Location - Grand Turk (GDT)	
Local Delivery Charges to Delivery Location - South Caicos (XSC)	
Local Delivery Charges to Delivery Location - North Caicos (NCA)	
Local Delivery Charges to Delivery Location - Middle Caicos (MDS)	
Local Delivery Charges to Delivery Location - Salt Cay (SLX)	
Installation & Associated Set up Costs	
Other Costs	
<b>Total Cost for Supply and Installation of 140 Solar Streetlights at the Locations stated above</b>	

APPENDIX 8: MAP OF TURKS AND CAICOS ISLANDS



Source: Google Maps