

# REQUEST FOR PROPOSAL

## **Aviation Risk Assessment in relation to the Proposed 750KW Solar PV Installation at the John A. Osborne Airport Montserrat Technical Consultancy**



MINISTRY OF COMMUNICATIONS, WORKS & LABOUR  
P O BOX 344, BRADES, MONTSERRAT, W I

◆ Tel: (664) 491-2521/2522 ◆ Fax: (664) 491-6659 ◆ E-mail: [mcw@gov.ms](mailto:mcw@gov.ms)

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## **PART A**

# **Part A**

## **PART A - Background**

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## **PART A**

### **1 Introduction and Project Overview**

1.1 Montserrat, a British Overseas Territory, is a small island developing state in the Caribbean Sea with a population of about 4,500 people. It is located among the string of islands known as the Lesser Antilles and between the neighbouring French territory of Guadeloupe to the south and Antigua to the north. Montserrat is referred to as the “Emerald Isle” due to its lush green landscape and natural beauty.

GoM recognises the critical issues it faces in relation to the provision of energy for its population. Despite the abundance of indigenous renewable energy sources, particularly sunshine, Montserrat’s power system, like most islands in the Caribbean, currently relies heavily on costly diesel imports to generate electricity. The power system is operated by Montserrat Utilities Limited (MUL), a private company owned by Government of Montserrat (GoM). The total existing installed capacity is 6.57 megawatts (MW), 6.32MW of diesel-based generation and 0.25MW of Solar PV generation. This has resulted in the economy being exposed to volatile energy prices, major outlays in imported fuel and limited economic growth. This has stifled the ability to attract regional investment, built up local environmental pollution and delayed the island’s ability to mitigate against the growing consequences of climate change. Longer term dangers from increased storm frequency and intensity, periodic major flooding and land erosion, and increasing periods of more pronounced drought need to be confronted. In view of these pressures, climate change strategies are being developed and implemented.

Across the Caribbean, and indeed worldwide, Montserrat has one of the highest electricity tariffs in the Caribbean (EC\$0.99 to EC\$1.10 per kilowatt hour [kW/hr]). GoM is seeking to position Montserrat as being dependent fully on renewable indigenous energy sources for electricity generation by 2020.

GoM aims to promote and implement the use of renewable energy and energy efficiency measures in the public sector. Ultimately, the GoM’s Program will reduce Montserrat’ fossil fuel dependency, promote sustainable energy and therefore contribute to the country’s competitiveness by installing renewable energy systems and retrofitting public lights with energy efficiency technologies.

Therefore GoM, has budgeted funds from the European Union Development Fund 10 & 11 (EDF 10 & 11) for the development of a utility-scale solar energy facility to generate 1 MW of capacity with appropriate storage. The proposed project will facilitate phase two consisting of 750 KW Solar PV and Battery Storage.

These Terms of Reference relate to the provision of Aviation Risk Assessment expertise to the Government of Montserrat (GoM) and John A. Osborne Airport Authority (Airport Authority) in relation to the proposed 750KW Solar PV installation at the John A. Osborne Airport Montserrat.

#### **Project Objective**

The primary objective of this assignment is to undertake an Aviation Risk Assessment at the John A. Osborne Airport, Montserrat in relation to the proposed 750KW Solar PV Installation, for Government of Montserrat via the Ministry of Communications, Works and Labour in collaboration with the John A. Osborne Airport Authority. The goal of the assignment is to present:

## **PART A**

- I. An Aviation Risk Assessment Report for the John A. Osborne Airport, Montserrat. Inclusive of recommendations to enable PV deployments at the airport by providing an approach to overcome the three primary challenges identified by the Federal Aviation Administration (FAA): (1) reflectivity and glare; (2) radar interference; and (3) physical penetration of airspace.

Government of Montserrat and the John A. Osborne Airport Authority will share with the awarded consultant all relevant data and make available all relevant staff to aid the consultant carrying out their assignment in a timely and professional manner.

## **2 The Authority**

2.1 The Government of Montserrat is the funding agent; the Ministry of Communications, Works and Labour will be the Procuring Entity managing the project and has been deemed to be The Authority. The Authority shall actively manage the resulting Contract and key activities including contract review meetings, key deliverables and analysis of management information provided.

If you have any queries relating to this RFP please email them to [procurement@gov.ms](mailto:procurement@gov.ms) for the attention of MS Harjinder Jutle.

**PART B**

**Part B**

**PART B - RFP Overview**

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## **PART B**

### **1 Letter of Invitation**

26<sup>th</sup> April 2019

Dear Sir/Madam,

**Re: Aviation Risk Assessment in relation to the Proposed 750KW Solar PV Installation at the John A. Osborne Airport Montserrat Technical Consultancy**

You are invited to submit a proposal for the above-named project. Proposal documents can be accessed by visiting the two websites below;

- **Electronic proposal documents can be downloaded and submitted via the MyTenders Portal at <https://www.mytenders.co.uk/>**
- **Electronic proposal documents can be downloaded from the Government of Montserrat website at <http://www.gov.ms/tenders/> and submitted via Hard Copies to the Departmental Tender Committee, Ministry of Communications, Works and Labour.**

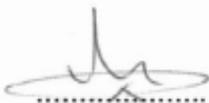
**This tender package comprise the following documents:**

1. Instructions to Bidders
2. RFP Check List
3. Form of Proposal
4. GoM & Consultant Agreement
6. General Conditions of Contract
7. Anti-Collusion Statement
8. Evaluation Criteria

**The submission deadline is Wednesday 15<sup>th</sup> May 2019, no later than 12.00 midday Eastern Caribbean time. Please refer to Instructions to Bidders for full details on how to make a submission.**

If you require any clarifications, please submit them via email to the procurement department for the attention of Harjinder Jutle, at [procurement@gov.ms](mailto:procurement@gov.ms), no later than 16:00hrs on 10<sup>th</sup> May 2019.

Yours faithfully,



*B* Beverley Mendes

**Permanent Secretary  
Ministry of Communications, Works and Labour**

## **PART B**

### **2 Introduction**

- 2.1 The Authority wishes to secure the services of a Technical consultant to conduct an Aviation Risk Assessment at the John A. Osborne Airport in relation to the proposed 750KW Solar PV Installation. The Authority is managing this procurement process in accordance with Government of Montserrat's Public Procurement Regulations (the "Regulations"). This is a supply of services Contract being procured under the open competitive procurement procedure.
- 2.2 The Authority is procuring this contract on behalf of the Government of Montserrat and John A. Osborne Airport Authority.
- 2.3 Part C contains the Instructions to Bidders.
- 2.4 Part D contains the Bid Evaluation criteria.
- 2.5 Part E contains the General Contract Agreement & Contract Conditions
- 2.6 Part F contains the Service requirements, key deliverables for the proposed project.
- 2.7 Part G contains the templates for the Bidders Response.
- 2.8 Following evaluation of all responsive bids, the Ministry of Communications, Works and Labour (MCWL Department Tender Committee will award a contract to the most qualified and economically advantageous consultant to undertake the said services for the project.
- 2.9 The Government of Montserrat through the MCWL Department Tender Committee reserves the right not to conclude a Contract as a result of the current procurement process.

**PART C**

**Part C**

**PART C - Instructions to Bidders**

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## **PART C**

### **1 General**

- 1.1 These instructions are designed to ensure that all Bidders are given equal and fair consideration. It is important therefore that you provide all the requested information in the format and order specified.
- 1.2 Bidders should read these instructions carefully before completing the Bid documentation. Failure to comply with these requirements for completion and submission of a Bid may increase the possibility of bids submitted which are not fully responsive to the project requirements and therefore subjected to rejection. Bidders are advised therefore to acquaint themselves fully with the extent and nature of the Montserrat General Condition of Contract.
- 1.3 Each Bidder will:
- i. Examine the RFP and any documents referenced in the RFP and any other information provided by the Procuring Entity.
  - ii. Consider all risks, contingencies and other circumstances relating to the delivery of the requirements and include adequate provision in your financial submission to manage such risks and contingencies
  - iii. Ensure that pricing information is submitted in XCD (Eastern Caribbean Dollars).
  - iv. If necessary, obtain independent advice before submitting a bid
  - v. Satisfy itself as to the correctness and sufficiency of your Financial Submission, including the proposed pricing and the sustainability of the pricing.
- 1.4 The Bidder shall ensure that each and every sub-consultant, consortium member and adviser abide by the terms of these instructions and the Conditions of Bid.
- 1.5 The Bidder shall not make contact with any other employee, agent or consultant of the Authority who are in any way connected with this procurement exercise during the period of this procurement exercise, unless instructed otherwise by the Authority.
- 1.6 The Authority or Government of Montserrat shall not be committed to any course of action as a result of:
- issuing this RFP or any invitation to participate in this procurement exercise;
  - an invitation to submit any Response in respect of this procurement exercise;
  - communicating with a Bidder or a Bidder's representatives or agents in respect of this procurement exercise; or
  - Any other communication between the Authority and/or any relevant GoM Departments (whether directly or by its agents or representatives) and any other party.
- 1.7 Bidders shall accept and acknowledge that by issuing this RFP the Authority shall not be bound to accept any Bid and reserves the right not to conclude a Contract for some or all of the services and services for which Bids are invited.

## **PART C**

- 1.8 The Authority reserves the right to amend, add to or withdraw all or any part of this RFP at any time during the procurement exercise.

### **2 Type of Contract**

- 2.1 The Montserrat General Conditions of Contract will be adopted for this contract.

### **3 RFP Checklist**

- 3.1 Bidders must complete the Form of Proposal, Document Check List, Anti-collusion statement, Technical Questionnaire, Cost Proposal. Failure to fully complete these documents will lead to their bid becoming non-compliant and rejected.

### **4 Tax Compliance**

- 4.1 The bidder must submit a Tax Compliance Certificate from the Inland Revenue Department along with the bidding documents, if the individual or company is based in Montserrat. In the case of a sole trader, the tax compliance certificate should be issued in that individual's name. However, where the sole trader is trading using a business name, the tax compliance certificate should be issued in the business name. In the case of a company, the tax compliance certificate should be issued in the name of the Company". It is therefore incumbent on the bidder to ensure that the tax compliance certificate is issued in the correct name. Diligent checks will be made with the Inland Revenue Department and the Financial Services Commission to verify the accuracy of certificates. Bids received with improper tax compliance certificates will be rejected.

- 4.2 Except in cases where there is an exemption from tax, of which proof must be provided; residents of Montserrat for tax purposes are subject to tax on the profits from this project while non-residents are liable to a **20% Withholding Tax** deduction from the gross amount.

Please take into consideration your tax obligations and liabilities to the Government of Montserrat. For further information please contact Montserrat Customs & Revenue Service (MCRS) via email at [irev@gov.ms](mailto:irev@gov.ms).

- 4.3 All services undertaken will be the subject of taxation in accordance with the current legislation.

### **5 Bid Validity**

- 5.1 Bids are to remain open for acceptance for a period of 90 days. A Bid valid for a shorter period will be rejected.

### **6 Timescales**

- 6.1 Set out below is the proposed procurement timetable. This is intended as a guide and whilst the Authority does not intend to depart from the time table it reserves the right to do so at any stage.

## PART C

DATE	STAGE
26 <sup>th</sup> April, 2019	RFP Published on the Government of Montserrat website <a href="http://www.gov.ms/tenders">www.gov.ms/tenders</a> and myTenders <a href="https://www.mytenders.co.uk/">https://www.mytenders.co.uk/</a>
10 <sup>th</sup> May, 2019	Clarification Period Closed
15 <sup>th</sup> May 2019 by 12.00 Eastern Caribbean time	RFP Return Date (Submission Deadline).

### 7 Authority's Contact Details

7.1 Unless stated otherwise in these Instructions or in writing from the Authority, all communications from Bidders (including their sub-consultants, consortium members, consultants and advisers) during the period of this procurement exercise must be directed to the designated Authority contact named in Section. 2.1 of Part A.

7.2 All communications should be clearly headed “**Aviation Risk Assessment for the John A. Osborne Airport Montserrat Ref. proposed Solar PV Installation Project Technical Consultant**” and include the name, contact details and position of the person making the communication.

7.3 Suppliers' requests for Bid clarifications must be submitted in accordance with the procedure set out in PART C Section 11 – Queries Relating to Bid.

### 8 Alternative Bid

8.1 Bidders are not allowed to submit alternative Bids.

### 9 Insurance

9.1 The successful Bidder may be asked to submit details of their current insurance in relation to carrying out consultancy services for this project. Submitting an insurance proposal to cover the intended works shall satisfy this requirement.

### 10 Submission of Bids

10.1 Bidders must obtain for themselves at their own responsibility and expense all information necessary for the preparation of Bids. Bidders are solely responsible for the costs and expense incurred in connection with the preparation and submission of their Bid and all other stages of the selection and

## **PART C**

evaluation process. Under no circumstances will the Authority be liable for any costs or expense borne by Bidders, sub-consultants, suppliers or advisers in this process.

10.2 The Authority may at its own absolute discretion extend the closing date and the time for receipt of Bids specified under PART C Section 6. Any extension granted under this PART C Section 10 will apply to all Bidders.

10.3 All Bids will be arithmetically checked; any errors will be brought to the proposer's attention. The rates supplied would be the basis for the arithmetic correction and would be the determining factor for any queries about the corrected price.

10.4 The Authority is not bound to accept the lowest Bids and has the right to accept and reject any Bid offers.

10.5 **Late Bids will not be accepted.**

10.6 **Submitting a Tender (Bid)**

There are two options for submitting a tender

- **Electronic tender submissions can be uploaded via the Mytenders Portal at <https://www.mytenders.co.uk/>**  
If you are intending to make an electronic submission to this tender, please register your interest on mytenders at the earliest opportunity. Please ensure that you allow sufficient time to upload your documents.
- **Hard copies can be submitted by hand – Please follow the instructions set out below;**

### **Submitting a hard copy of your tender**

You will need two plain envelopes for the Tender submission

You must follow these instructions, failure to do so may result in the bid being non-compliant and not considered any further.

#### Envelope 1.

Follow the steps written below:

1. Write the name of the bidder (Tenderer, Supplier) on this envelope
2. Write the name of the project and the address on the envelope as written below;

#### **Supplier Name (*Your Company Name*)**

**Proposal for Aviation Risk Assessment for the John A. Osborne Airport Montserrat Ref. proposed Solar PV Installation Project Technical Consultant  
Department Tender Committee  
Ministry of Communications, Works and Labour  
P.O. Box 344, Brades, Montserrat, MSR1110**

## **PART C**

3. Now put this envelope into another plain envelope (Envelope 2.)

### Envelope 2

Continue following the steps below:

4. Envelope 1 should now be inside this envelope (Envelope 2), seal the envelope and then write the Project Title and address for Tender return.;

**Aviation Risk Assessment for the John A. Osborne Airport Montserrat Ref. proposed Solar PV Installation Project Technical Consultant  
Department Tender Committee  
Ministry of Communications, Works and Labour  
P.O. Box 344, Brades, Montserrat, MSR1110**

**\*NB: Envelope 2 must not have the Bidders name on it or any other markings.** Tenders are to be delivered to the address above. Tenderers will be given a receipt.

## **11 Queries Relating to Bid**

11.1 All requests for clarification about the requirements or the process of this procurement exercise shall be made in accordance with these Instructions.

11.2 The Authority will endeavour to answer all questions as quickly as possible but cannot guarantee a minimum response time. In order to satisfy query requests, the Authority has designated specific personnel to deal with clarification requests from Bidders

11.3 Clarification requests can be submitted via e-mail to [procurement@gov.ms](mailto:procurement@gov.ms) from the date shown under PART C Section 6.

11.4 In order to ensure equality of treatment of Bidders, the Authority intends to share the questions and clarifications raised by Bidders together with the Authority's responses (but not the source of the questions) to all participants on a regular basis.

11.5 The Authority reserves the right not to respond to a request for clarification or to circulate such a request where it considers that the answer to that request would or would be likely to prejudice its commercial interests.

**PART D**

**Part D**

**PART D - Bid Evaluation**

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## PART D

### 1 Introduction

1.1 The Bid process will be conducted to ensure that Proposals are evaluated fairly to ascertain the most technically and economically advantageous Proposal.

### 2 Evaluation of Bids

2.1 The following evaluation criteria will be used to evaluate Bids received in response to this RFP. The Administrative Compliance checklist would first be applied and this is either a pass or fail, with failure meaning that bids would be deemed Non-compliant. **Bidders must achieve a minimum score of 65% to be considered for award of contract.**

QUESTION NUMBER	Question title	WEIGHTED SCORE %
D1.1	Administrative Compliance	PASS/FAIL
D1.2	Financial Evaluation	40%
D1.4	Technical Questionnaire	40%
D1.5	Bidders Experience	20%

### 3 Administrative Compliance (PASS/FAIL)

3.1 Bidders must submit all the documents requested in the RFP. The RFP checklist provides a list of requirements which need to be fulfilled. All Bidders are required to fully complete the Form of Proposal including the commencement time and the proposed completion time which are highlighted. In addition, they need to fully complete the RFP Bidders Response Template. A valid Tax Compliance Certificate only if based in Montserrat need to be submitted with their submission. Bidders should sign and date the Anti-Collusion statement. Similarly details of previous experience must be submitted. The Administrative Compliance which is a Pass/Fail. If **all** the above requirements are fulfilled, then the Bidder would move on to the other evaluation criteria. If any of the above-mentioned items are not submitted, then the Bidder would be deemed non-compliant and rejected.

### 4 Financial Evaluation (40%)

4.1 Bidders must complete the Form of Proposal and return them with their RFP submission. The Bid price is a significant factor and the Government of Montserrat will seek to ensure that the services are undertaken at the most economically advantageous price. However, there are other factors which comprise the criterion and these will be considered proportionately. Government of Montserrat is not bound to accept the lowest or any Bid. The percentage for this criterion will be calculated proportionately in comparison to other price submissions from Bids. However, no tender with a price submission of 20 percent above the internal estimate will be considered. The internal estimate have also taken into consideration current market value. Bidders must submit all the documents requested in the RFP document. The RFP checklist provides a list of requirements which need to be fulfilled.

## **PART D**

### **5 Technical Questionnaire (40%)**

Complete Technical Questionnaire in Part G

### **6 Bidders Experience (20%)**

6.1 Prospective Bidders need to provide information of at least 3 previous contracts completed within the past 10 years of a similar nature to the scope of services presented in this RFP. These details should include but are not limited to the following; the entity or person for which the work was completed, contact information for the entity or person, the value of the services, the location of the services.

6.2 It is also highly desirable and essential that the bidder possess knowledge and experience in carrying out similar work on small airports in small island states and particularly, in the Caribbean region. Additional points will be awarded to any bidder who have carried out similar Aviation Risk Assessment for Solar PV Project within airport settings within the region.

6.3 All bidders must provide with their bid a copy of their credentials and proof that they are fully licenced to undertake Solar PV Installation Services.

### **7 Award of Contract**

7.1 The MCWL Department Tender Committee will inform the successful bidder through an award of Contract at the end of proposal evaluation. Unsuccessful bidders will also be notified at the same time as the successful bidder.

**PART E**

**Part E**

**PART E - GoM and Consultant Agreement**

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**1 General Contract**

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## **PART E**

# 1 General

## **Service Contract**

This Agreement (“the Agreement”) effective as of the ..... day of ..... 2019 is by and between....., an entity having a mailing address of ..... (“Aviation Risk Assessment Technical Consultant or (“ARATC”), and the Ministry of Communications, Works and Labour (MCWL), having a mailing address of P.O Box 344, Brades, Montserrat, MSR1110.

### **RECITALS:**

WHEREAS, the Ministry of Communications, Works and Labour (MCWL) desires to retain the Aviation Risk Assessment Technical Consultant (ARATC) to provide services and to undertake the objectives set out in the Terms of Reference; and

WHEREAS, the ARATC desires to perform such services as described in this Agreement.

NOW, THEREFORE, MCWL and the ARATC hereby agree as follows:

### **1. AVIATION RISK ASSESSMENT TECHNICAL CONSULTANT**

The **ARATC** represents that it is fully experienced and properly qualified to perform the Services as provided under this Agreement as set out in the Terms of Reference, and that it is, and will remain for the duration of this Agreement, properly permitted, licensed, equipped, organized and financed to perform such Services.

### **2. INDEPENDENT CONTRACTOR**

Except as otherwise expressly provided in this Agreement or otherwise authorized in writing by MCWL, in performing the Services and incurring expenses under this Agreement, the **ARATC** shall operate as, and have the status of, an independent contractor and shall not act as agent or be an agent of the MCWL. As an independent contractor, the **ARATC** shall be solely responsible for determining the means and methods of performing the Services and shall have complete charge and responsibility for the **ARATC** personnel engaged in the performance of the Services.

### **3. ASSIGNMENT**

The **ARATC** shall not assign any of its rights, interests or obligations under this Agreement or subcontract any of the Services to be performed by it under this Agreement without the express written consent of the MCWL. Any subcontract or Assignment shall be subject to all terms of this Agreement. The MCWL shall have the right to assign this Agreement to a third party upon notice to the **ARATC**.

### **4. COMPENSATION AND PAYMENT**

For satisfactory performance of the Services, or as may be modified by mutual agreement, the MCWL agrees to compensate the **ARATC** an amount not to exceed ..... Inclusive of reimbursable expenses, as set forth in the Schedule attached hereto.

### **5. CONFIDENTIALITY**

## **PART E**

(a) For purposes of this Clause:

(1) The term “Confidential Information” as used herein means all material and information, whether written or oral, received by the **ARATC** from or through the MCWL or any other person connected with the Project, or developed or otherwise received or obtained by the **ARATC** in connection with the Project or the performance of Services under this Agreement. Confidential Information shall include, but not be limited to, samples, substances and other materials, conversations, correspondence, records, notes, reports and other documents, in draft or final form, including any documentation or data relating to the results of investigations, testing, sampling in laboratory or other analysis, and all conclusions, interpretations, recommendations and/or comments relating thereto.

(2) The term “ARATC” as used herein includes all officers, directors, employees, agents, representatives and sub-consultants of the **ARATC**.

The **ARATC** shall mark all Confidential Information as “Privileged and Confidential” and keep all Confidential Information in a secure location within the **ARATC** offices. The MCWL shall have the right, but not the obligation, to enter the **ARATC** offices in order to inspect the arrangements of the **ARATC** or keeping the Confidential Information secure. No inspection by the MCWL shall relieve the **ARATC** of the responsibility for the performance of its obligations hereunder.

(b) The **ARATC** shall hold the Confidential Information in trust and confidence, shall not disclose the Confidential Information or any portion thereof to any third party without the prior written consent of the MCWL, and shall not use the Confidential Information or any portion thereof for any purpose whatsoever except in connection with the performance of the Services under the Agreement.

(c) The **ARATC** shall notify the MCWL immediately upon receipt by the **ARATC** of any request for Confidential Information. The **ARATC** is not prohibited by this Clause from disclosing portions of the Confidential Information if, and to the extent that, such portions have become generally available to the public other than by an act or omission of the **ARATC** or any of its subcontractors, or disclosure of such portions is required by subpoena, warrant or court order; PROVIDED, however, that in the event that any third party, including but not limited to a governmental employee, officer or entity, requests all or a portion of the Confidential Information, the **ARATC** shall oppose such request and cooperate with the MCWL in obtaining a protective order or other appropriate remedy unless and until the MCWL in writing

–  
(i) waives compliance with the provisions of this Clause; or

(ii) Determines that disclosure is legally required. In the event that such protective order or other remedy is not obtained, or the MCWL waives compliance with this Clause or determines disclosure is legally required, the **ARATC** shall disclose only such portions of the Confidential Information that, in the opinion of the MCWL, it is legally required to disclose, and the **ARATC** shall use its best efforts to obtain from the party to whom the Confidential Information is disclosed written assurance that confidential treatment will be accorded to such portions of the Confidential Information as are disclosed.

(d) To the extent the copies of documentary Confidential Information are authorized by the MCWL to be retained by the **ARATC** they shall be retained in a secure location in the **ARATC** office for a period of seven (7) years after completion of the Services or termination of this Agreement, and thereafter, disposed of at the MCWL’s direction.

### **6. MCWL’S OWNERSHIP OF DOCUMENTS**

Notwithstanding any other provision herein to the contrary:

## **PART E**

- (a) Without payment of additional compensation to the **ARATC**, any documents prepared by the **ARATC** for this Project shall become the MCWL's property upon completion, cancellation, suspension or termination of the Services or this Agreement and upon payment of all sums due to the **ARATC** for work properly performed. Reproducible copies of the original documents shall be turned over to the MCWL at that time in a format reasonably acceptable to the MCWL.
- (b) Reuse of any of these documents by the MCWL shall be at the MCWL's risk.

The **ARATC** shall be permitted to retain copies, including reproducible copies, of any or all documents for such use as it may require, except that use of any document without substantial modification shall be attributed to the MCWL and shall have the MCWL's prior written consent. Any such re-use by the **ARATC** shall be at its own risk.

To the extent that the MCWL has paid for the **ARATC** Services under this Agreement, the **ARATC** hereby grants to the MCWL a non-exclusive, perpetual, royalty-free license to the intellectual property embodied in the documents prepared by the **ARATC** in connection with the Project. The MCWL may make any changes, additions, and deletions thereto, all without further permission or consent of the **ARATC**, although the **ARATC** shall not be liable to the MCWL or any third party as a result of any such changes, additions, or deletions. The MCWL agrees to indemnify, defend and hold harmless the **ARATC** from and against any damages, losses, costs or expenses (including reasonable attorneys' fees) arising out of any such changes, additions or deletions by the MCWL.

### **7. INDEMNIFICATION**

The **ARATC** agrees to indemnify, defend and hold harmless the MCWL, against any and all claims, losses, damages, liabilities, costs or expenses (including, without limitation, attorney's fees and costs of litigation and or settlement, whether incurred as a result of a claim by a third party or an indemnity hereunder) arising out of the Services performed pursuant to this Agreement, except to the extent arising out of the negligence or wilful misconduct of the Indemnified Party that is seeking to be indemnified.

### **8. DISCOVERY OF CONFLICTS, ERRORS, OMISSIONS OR DISCREPANCIES**

In the case of conflicts, discrepancies, errors or omissions among the various parts of this Agreement, the **ARATC** shall submit the matter immediately to the MCWL for clarification. Any Services affected by such conflicts, discrepancies, errors or omissions which are performed by the **ARATC** prior to clarification by the MCWL shall be at the **ARATC's** risk.

### **9. RESPONSIBILITY TO CORRECT DEFICIENCIES**

It shall be the **ARATC's** responsibility to correct, in a timely fashion and at the **ARATC's** sole expense, any deficiencies in its Services resulting from the **ARATC's** failure to act in accordance with the Standard of Care, provided such deficiencies are reported to **ARATC** within one hundred twenty (120) days after completion of the Services, i.e., on expiry of the Defects Liability Period.

### **10. TERMINATION**

The MCWL may, by written notice to the **ARATC** effective upon receipt, terminate this Agreement in whole or in part at any time (subject to the provisions of Clause 16 of this Agreement), either for the MCWL's convenience or for the default of the **ARATC** provided, however, that such termination shall not relieve the MCWL of its obligation to pay charges justly due to the **ARATC** or Services properly performed and expenses properly incurred prior to such termination. Upon termination, the **ARATC** shall deliver to the MCWL all documents required to be delivered pursuant to Clauses 6 and 7.

### **11. FORCE MAJEURE**

Neither party hereto shall be considered in default in the performance of its obligations hereunder to the

## **PART E**

extent that performance of any such obligation is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party, and which by that party's exercise of due diligence and foresight could not reasonably have been avoided. Upon removal of such cause, the party affected shall resume its performance as soon as reasonably possible. Neither the **ARATC's** financial inability to perform nor an event, which could have been prevented, had the **ARATC** acted in accordance with the Standard of Care shall be deemed to be an event of Force Majeure.

### **12. WAIVER**

The failure of the MCWL to enforce, at any time, the provisions of this Agreement does not constitute a waiver of such provisions in any way or waive the right of the MCWL at any time to avail itself of such remedies as it may have for any breach or breaches of such provisions. None of the conditions of this Agreement shall be considered waived by the MCWL unless such waiver is explicitly given in writing by the MCWL. No such waiver shall be a waiver of any past or future default, breach or modification of any of the terms or conditions of this Agreement unless expressly stipulated in such waiver.

### **13. GOVERNING LAW**

This Agreement shall be governed by the laws of Montserrat, without regard to its conflict of law's provisions.

### **14. ENTIRE AGREEMENT AND SEVERABILITY**

The rights and obligations of the parties, and their respective agents, successors and assignees hereunder shall be subject to and governed by this Agreement, including Schedules "A", "B", which supersedes any other understandings or writings between the parties. No changes, amendments or modifications of any of the terms and conditions of this Agreement shall be valid unless reduced to writing and signed by the party to be bound. The invalidity of one provision, or invalid application thereof, of this Agreement shall not affect the validity of any other provision or any other application of any provision of the Agreement.

### **15. DISPUTE RESOLUTION**

(a) Any controversy or claim arising out of or relating to this Agreement or the breach hereof, shall be subject to good faith negotiation and/or mediation as a condition precedent to binding dispute resolution. The MCWL and the **ARATC** will attempt in good faith to promptly resolve any controversy or claim arising out of or relating to this Agreement or the breach thereof by negotiations between representatives of each party who have authority to settle the controversy. The disputing party shall give the other party written notice of the dispute, which notice shall include a general description of the dispute, and the name and title of the individual who will represent that party. The representatives shall meet at a mutually acceptable time and place within seven (7) calendar days after the date of the disputing party's notice and thereafter as often as they reasonably deem necessary to exchange relevant information and to attempt to resolve the dispute.

(b) If good faith negotiations are not successful, the parties shall endeavour to resolve their disputes by mediation. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the binding dispute resolution but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 45 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If binding dispute resolution is stayed pursuant to this Section, the parties may nonetheless proceed to the selection of the mediators (s) and agree upon a schedule for later proceedings.

(c) If the dispute has not been settled within 45 calendar days after the date of the disputing party's notice under Clause 15 (a) above, any lawsuit or proceeding regarding or relating to an unresolved dispute

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between the parties, regardless of whether there are other parties to the dispute, shall be commenced and filed in Montserrat.

- (d) The **ARATC** shall and shall cause its sub consultants, if any, to continue full performance under this Agreement pending the above claim resolution procedures and the ensuing litigation proceedings, if any, unless and until either MCWL the **ARATC** terminates this Agreement or the Final Completion Date occurs.

IN WITNESS THEREOF, the parties hereto have executed this Agreement on the dates set forth below, to be deemed effective as of the date first written above.

**AVIATION RISK ASSESSMENT TECHNICAL CONSULTANT (ARATC):**

.....

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Dated: \_\_\_\_\_, 2019

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## **PART F**

# **Part F**

## **PART F – Terms of Reference**

### **Terms of Reference**

These Terms of Reference relate to the provision of Aviation Risk Assessment expertise to the Government of Montserrat (GoM) and the John A. Osborne Airport Authority (Airport Authority) for Aviation Risk Assessment Services, John A. Osborne Airport, Montserrat.

### **Objectives**

The primary objective of this assignment is to undertake an Aviation Risk Assessment at the John A. Osborne Airport, Montserrat in relation to the proposed 750KW Solar PV Installation, for Government of Montserrat via the Ministry of Communications, Works and Labour in collaboration with the John A. Osborne Airport Authority. The goal of the assignment is to present:

- II. An Aviation Risk Assessment Report for the John A. Osborne Airport, Montserrat. Inclusive of recommendations to enable PV deployments at the airport by providing an approach to overcome the three primary challenges identified by the Federal Aviation Administration (FAA): (1) reflectivity and glare; (2) radar interference; and (3) physical penetration of airspace.

Government of Montserrat and the John A. Osborne Airport Authority will share with the awarded consultant all relevant data and make available all relevant staff to aid the consultant carrying out their assignment in a timely and professional manner.

### **Recipient**

The recipients of the services are the Government of Montserrat (GoM) and John A. Osborne Airport Authority (Airport Authority).

### **Background**

GoM recognises the critical issues it faces in relation to the provision of energy for its population. Despite the abundance of indigenous renewable energy sources, particularly sunshine, Montserrat's power system, like most islands in the Caribbean, currently relies heavily on costly diesel imports to generate electricity. The power system is operated by Montserrat Utilities Limited (MUL), a private company owned by Government of Montserrat (GoM). The total existing installed capacity is 6.57 megawatts (MW), 6.32MW of diesel-based generation and 0.25MW of Solar PV generation. This has resulted in the economy being exposed to volatile energy prices, major outlays in imported fuel and limited economic growth. This has stifled the ability to attract regional investment, built up local environmental pollution and

## **PART F**

delayed the island's ability to mitigate against the growing consequences of climate change. Longer term dangers from increased storm frequency and intensity, periodic major flooding and land erosion, and increasing periods of more pronounced drought need to be confronted. In view of these pressures, climate change strategies are being developed and implemented.

Across the Caribbean, and indeed worldwide, Montserrat has one of the highest electricity tariffs in the Caribbean (EC\$0.99 to EC\$1.10 per kilowatt hour [kW/hr]). GoM is seeking to position Montserrat as being dependent fully on renewable indigenous energy sources for electricity generation by 2020.

GoM aims to promote and implement the use of renewable energy and energy efficiency measures in the public sector. Ultimately, the GoM's Program will reduce Montserrat's fossil fuel dependency, promote sustainable energy and therefore contribute to the country's competitiveness by installing renewable energy systems and retrofitting public lights with energy efficiency technologies.

Therefore GoM, has budgeted funds from the European Union Development Fund 10 & 11 (EDF 10 & 11) for the development of a utility-scale solar energy facility to generate 1 MW of capacity with appropriate storage. The proposed project will facilitate phase two consisting of 750 KW Solar PV and Battery Storage.

### **Expertise Required**

It is for the consultant to propose what expertise is required for the satisfactory conclusion of this assignment. As a guide, consultants will be expected to cover the Work Package out in this assignment:

### **Scope of Service**

The Aviation Risk Assessment will be conducted in three parts. First, the solar project will be assessed for its potential to physically impact airspace. Airspace is the area above ground where aircraft may potentially operate. In most areas, it is defined as a specific height above ground which accounts for travel heights of various aircraft-types large and small. However, close to airports, there is a more complicated definition of airspace which considers the flight path for take-off and arrival, area of navigational aids (such as radar), and proximity to runway and the need to preserve visual clearance around the airport. International guidance for airspace around airports is provided in the International Civil Aviation Organization (ICAO) Annex 14, as amended in March 2015. In the physical impact analysis, the consultant will describe the physical nature of the proposed solar facility and its fixtures including the height of any tall equipment to be deployed during construction (e.g., crane, pile driver), review the various airspace zones around the airport, and determine if any of the permanent or temporary structures will impact on airspace.

In the second phase, the consultant will review the location and types of aviation navigational equipment employed at the airport and evaluate if the project could disrupt airfield communications. The nature and function of communications equipment depends on airport size and type of aircraft served. This portion of the analysis will also consider applicable flight rules for the John A. Osborne Airport, Montserrat. Because radar equipment operates on a signal and receptor basis, the analysis is primarily a line-of-sight evaluation though signal reflection may also be considered qualitatively. The information will inform a conclusion as to the potential for the solar project to produce communication interference.

In the third phase, the consultant will review the glare analysis prepared by Asante Energy and insert it into the report supported by background information on the development of the modelling software, US Federal Aviation Administration (FAA) Solar Policy and ocular hazard standard, and how the results generated by Asante fit with the FAA's glare hazard standards. Because there is no international standard for determining whether glare from solar PV is significant, project developers outside of the US typically rely on the FAA methodology and standards, which will be the basis for conclusions to be presented.

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A critical step in the Risk Assessment process is the gathering of information. Information gathering will include the collection of hard and soft data and information relating to the John A. Osborne Airport, Montserrat and its systems as well as confirming the characteristics of the proposed Solar PV project. In addition, meeting key stakeholders, including but not limited to the Airport Authority, Air Traffic Controls, Airline Companies operating regularly out of the John A. Osborne Airport, Montserrat.

**The consultant will produce an initial list of information needs as part of his/her bid response to this RFP.**

### **2 Work Package: Aviation Risk Assessment Services for the John A. Osborne Airport – Montserrat relating to the proposed 750KW Solar PV Project**

#### **.2.1 Task 1: Kick-off Meeting, Site Visit and Data Collection**

A Site Visit will be held with the Consultant, GoM, Airport Authority, Air Traffic Controls and Airline Companies regularly operating out of the John A. Osborne Airport (local team), no later than two (2) weeks after Notice to Proceed (NTP). During this meeting and site visit, the Consultant should plan to carry out the following activities:

- Meet with the local team to review the ToR and objectives, communication protocols, and assignment schedule.
- Acquire additional data as needed to fill gaps related to the project from Airport Authority, Air Traffic Controls and Airline Companies regularly operating out of the John A. Osborne Airport.
- Conduct Field Visit to the John A. Osborne Airport and surrounding areas in addition to any other locations the consultant deems relevant.

#### **.2.2 Task 2: Draft Aviation Risk Assessment Study Report**

The Consultant will provide the Draft Aviation Risk Assessment Study Report two (2) weeks after end of site visit. The Report will address the following key elements:

- The Identification and Evaluation of Aviation Risks at the John A. Osborne Airport directly and indirectly caused by the installation of the proposed 750KW Solar PV System.
- Mitigation Actions (recommendations) to enable the proposed 750KW Solar PV deployments at the John A. Osborne Airport by providing an approach to overcome the three primary challenges identified by the Federal Aviation Administration (FAA): (1) reflectivity and glare; (2) radar interference; and (3) physical penetration of airspace.
- Risk Management Action to be carried out by the Airport Authority and Montserrat Utilities Limited as part of the Operation and Maintenance of the proposed Solar PV system.

At the completion of Task 2 activities, the Consultant shall issue a Draft Aviation Risk Assessment Report that addresses the elements outlined above for review and comments by GoM, Airport Authority, Air Traffic Controls, Airline Companies operating regularly out of the John A. Osborne Airport, Montserrat. Comments to the Draft Report will be provided within one weeks of issuance. During this one-week period, if requested, Consultant shall be available at a mutually agreed upon time for a summary conference call to discuss any comments, concerns and open items.

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### .2.3 Task 3: Final Aviation Risk Assessment Report

One week following issuance of feedback from GoM, Airport Authority, Air Traffic Controls, Airline Companies operating regularly out of the John A. Osborne Airport, Montserrat to the Draft Aviation Risk Assessment Report the Consultant shall issue the Final Aviation Risk Assessment Report reflective of the agreed changes to the draft report.

## Project Schedule

	Deliverable	Milestone
Work Package	Kick-off Meeting, Site Visits and Data Collection	2-weeks after the issuance of the Notice to Proceed by GoM .
	Draft Aviation Risk Assessment Study Report	2-weeks after the completion of the Site Visit.
	GoM/Airport Authority review and feedback on Draft Aviation Risk Assessment Study Report	1-week after Consultant submit the Draft Aviation Risk Assessment Study Report.
	Final Aviation Risk Assessment Report	2-weeks after Consultant submit the Draft Aviation Risk Assessment Study Report.

## Consultant's Qualifications

The Consultant must demonstrate extensive experience in Aviation Risk Assessment generally and specially relating to the installation of Solar PV systems at airports.

Overall experience working with small airports is essential.

All key expert (s) will have to demonstrate appropriate academic qualification in their respective discipline, combined with a minimum of 7 years of relevant experience handling similar assignments related to Aviation Risk Assessments.

## Reporting

The consultant will report to the Permanent Secretary, Ministry of Communications, Works and Labour (MCWL). The main point of contact for MCWL for this assignment will be, Rawlson Patterson, PWD Director (Ag), MCWL, GoM; [Pattersonr@gov.ms](mailto:Pattersonr@gov.ms).

Written submissions should be sent to Rawlson Patterson, and copied to Owen Lewis, Public 750KW Solar PV Project Manager, MCWL; [olewis.contractor@rmi.org](mailto:olewis.contractor@rmi.org) .

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**PART G - BIDDERS RESPONSE**

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### **2 RFP Document Checklist**

Project Title: **Aviation Risk Assessment for the John A. Osborne Airport Montserrat Ref. proposed Solar PV Installation Project Technical Consultant**

Date RFP advertised: **Friday 26<sup>th</sup> April 2019**

Proposal Deadline Date: **Wednesday 15<sup>th</sup> May 2019**

Proposal Deadline Time: **12:00pm**

Below are the following documents that must be submitted for a consultant's bid to be valid. Bidders are asked to supply and tick off the following information. Failure to provide any of the stated documents will result in the bid being considered non-compliant and rejected.

The below documents should be presented with their bid to ensure that their bid is valid.

Signed Form of Proposal (**Including time for completion and notice period**)

Tax Compliance Certificate (**If locally registered in Montserrat**)

Signed Anti-Collusion Statement

Bidders Company Details

Completed Technical Questionnaire

.....  
Bidders Authorized Signature

.....  
Date

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**3 Form of Proposal**

The Chairperson  
Departmental Tender Committee  
Ministry of Communications, Works and Labour  
Brades  
Montserrat

Dear Sir/Madam;

**Re: Aviation Risk Assessment for the John A. Osborne Airport Montserrat Ref. proposed Solar PV Installation Project Technical Consultant**

I/We the undersigned undertake to complete the above Services in accordance with the General Conditions of Contract, Terms of reference and for the sum of:

EC\$

.....

(Amount in Words):

.....  
.....

If my/our proposal is accepted, I/We undertake to commence the Services within \_\_\_\_\_ **days** from the date of the contract signing, and complete the services within \_\_\_\_\_ **days** from the date of the contract signing.  
I/We understand that I/We shall not be reimbursed for any cost that may have been incurred in compiling this proposal.  
I/We confirm this proposal shall remain valid for a period of 90 days from the date of submission of this proposal.

Except in cases where there is an exemption from tax, of which proof must be provided; residents of Montserrat for tax purposes are subject to tax on the profits from this project while non-residents are liable to a **20% Withholding Tax** deduction from the gross amount.

Please take into consideration your tax obligations and liabilities to the Government of Montserrat. For further information please contact Montserrat Customs & Revenue Service (MCRS) via email at [irev@gov.ms](mailto:irev@gov.ms)

Name: .....

Signed: .....

Name of firm (If Applicable): .....

Address: .....

.....

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.....

Tel #: .....

Fax #: .....

Email Address: .....

Date: .....

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### **4 Proposal Submission Ant-Collusion Certificate**

I/we certify that this proposal is made in good faith, and that we have not fixed or adjusted the amount of the proposal 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:

Disclose the proposal price or any other figures or other information in connection with the proposal 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-consultant (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 proposing exercise

Enter into any agreement or arrangement with any person that they shall refrain from proposing, that they shall withdraw any proposal once offered or vary the amount of any proposal to be submitted or otherwise collude with any person with the intent of preventing or restricting full competition

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 proposal or proposed proposal 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 proposal 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-consultants, suppliers and associated companies providing services or materials connected with the proposal and any contract entered into with such sub-consultants, 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 proposal being disqualified and may lead to criminal or civil proceedings. The government of Montserrat shall treat any proposal received in confidence but reserves the right to make the same available to any other funding organisation or statutory regulatory authority either having jurisdiction over the services or who may now or at any time in the future have statutory power to require disclosure of this proposal.

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 proposal is made.

Signature: .....

In capacity of: .....

Date: .....2019

Duly authorised to sign proposals and acknowledge the contents of the anti-collusion certificate for and on behalf of:

Name of firm: .....

Full postal address: .....

Contact No. ....

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### **4 Project Experience**

4.1 Please list at least 3 projects successfully completed in the last 10 years that is of a similar nature.

NO	PROJECT DESCRIPTION	CLIENT	PROJECT VALUE (US\$)	PROJECT DURATION (MM/YR)	
				START	END
1					
2					
3					
4					
5					

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### 5. Technical Questionnaire Criteria

#### Quality Evaluation

Quality will be measured upon evaluation of Bidders' responses to the Technical Questionnaire. Each question in the Technical Questionnaire is marked using the following scores:

Scoring - Quality Criteria	
Rating of Response	Score
<b>Very Good or Fully Compliant</b> Submission which meets all requirements and is fully explained in comprehensive detail. Clearly includes all the information requested and instils full confidence that the Tenderer has the ability to fully meet the requirements of the Contract.	9 – 10
<b>Good or Fully Compliant</b> Submission which meets all the requirements and is explained in reasonable detail. Includes all the information requested and instils reasonable confidence that the Tenderer has the ability to fully meet the requirements of the Contract.	7 – 8
<b>Satisfactory or Compliant</b> Submission which meets the essential requirements and is explained in adequate detail. Although brief or lacking some detail, all the information requested has been supplied and the Council is relatively confident that the Tenderer has the ability to meet the requirements of the Contract.	5 – 6
<b>Weak or Partially Compliant</b> (Minor issues) Submission which in some areas falls short of requirements and is poorly explained. Not all of the information requested has been supplied and The Council has minor concerns regarding the Tenderers ability to meet the requirements of the Contract.	3 – 4
<b>Unacceptable or Non-Compliant</b> (Major issues) Submission which clearly fails to meet requirements and is not explained. Key information requested has not been supplied and the Council has major concerns regarding the Tenderers ability to meet the requirements of the Contract.	1 – 2
An answer to the question has not been provided or the Tenderer has not understood the requirements of the question and therefore the answer provided does not address the question.	0

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### 6. Technical Questionnaire

Weighted quality scores will be calculated by multiplying the score for each quality question by its individual weighting. The weighted scores will be totalled for each bid.

<p><b>Question 1: (20%)</b> Please describe your knowledge of the Aviation Risk Assessment, including familiarity with Solar PV installations at airports.</p>
<p><b>Bidders response:</b></p>
<p><b>Question 2: (10%)</b> Please describe your expertise in assessing and objectively reporting on FAA's reflectivity and glare, radar interference and physical penetration of airspace</p>
<p><b>Bidders response:</b></p>
<p><b>Question 3: (10%)</b> Please describe your approach to project management and include project management tools that you will utilise to deliver the scope of services, outputs and deliverables.</p>
<p><b>Bidders response:</b></p>
<p><b>Question 4: (45%)</b> Please outline what approach you would adopt to meet the requirements of this project if you were successful; Please ensure that you address the three key objectives below in your response;</p> <p style="padding-left: 40px;">An Aviation Risk Assessment Report for the John A. Osborne Airport, Montserrat. Inclusive of recommendations to enable PV deployments at the airport by providing an approach to overcome the three primary challenges identified by the Federal Aviation Administration (FAA): (1) reflectivity and glare; (2) radar interference; and (3) physical penetration of airspace.</p>
<p><b>Bidders Response:</b></p>
<p><b>Question 5 (10%)</b> Please outline your approach to ensuring that key outputs and deliverables are met within the required timescales.</p>
<p><b>Bidders Response:</b></p>

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**Question 6 (5%)**

What resources will you dedicate to the completion of this project?

Please include your availability, on site and off site, working days and hours.

***Bidders Response:***