**Invitation to Tender**

**Solar Panel and Battery System**

**Ref: NZ184**

# 1. About Company Name

For almost 70 years Flann Microwave Ltd has been the market-leading designer and manufacturer of precision passive RF, Microwave and millimetric products, solutions and service. We produce critical components and sub-systems required to deliver, test, measure and calibrate systems operating from 300MHz to 1.1THz, supplying to several industry sectors:

* SATCOM & Spaceflight
* Metrology, Test & Measurement
* R&D & Academia
* Telecommunications 5G & 6G
* Aerospace & Defence
* Security

From the company’s inception in 1956, Flann has and continues to be a family run business. We employ around 65 highly skilled engineers and professionals who have supported us as the company’s global reputation for quality, reliability and performance has grown.

Located in Bodmin, Cornwall, our purpose-built factory and business premises occupy an area of 1800m2 situated in attractive grounds with views over the rolling Cornish countryside.

Since 1993 Flann has held a quality system status with the accreditation ISO9001:2015 which we continue to comply with

Flann’s on-going policy of maintaining the highest standards ensures that the Company’s global reputation for quality, reliability and performance will continue into the future.

**Business Highlights**

* Export sales are in excess of 80% of total production.
* Technical sales and service support operating from offices in the UK.
* Global customer base including many leading companies in Communications, Research & Development, and Aerospace & Defence
* Worldwide distribution network dedicated to the supply and service of our products in a global market.
* Dynamic R&D initiative developing the next generation of passive microwave components.
* Project management, consultancy and customised product manufacture.
* Computer-aided-engineering facilities for consistent quality of manufacture and life-long in-service performance.

# 2. Background and Context

As part of our drive to reduce our carbon emissions, we are now seeking to install a PV solar and battery system with a minimum of 160kWp Solar PV with 40kWh Storage

The purchase of this system is part of a grant funded application process and therefore procurement will be subject to grant approval of the project. We will assess tenders received on a Most Economically Advantageous Tender.

# 3. Tender requirements

The successful tenderer will be expected to deliver the following activities. Please note where specific products are stated, a bidder may offer an alternative providing the specification meets or exceeds the specification including the relevant warranties, Where specific products have been detailed in the ITT, potential suppliers may propose alternatives with an equivalent specification and guarantees:

**3 General**

1. Location: Dunmere Road, Bodmin, Cornwall PL31 2QL
2. Roof is flat
3. Area beneath roof accessible via scaffolding.
4. Flann Microwave Limited annual consumption is 250,000 kWh
5. **Site Visit** A site visit and structural assessment is strongly recommended to be conducted to ensure that the roof can take the weight caused by having the PV array mounted onto the roof.This is be arranged as per Section 5.

**3.2 Specific Requirements**

1. Installation at our premises (3.1.1) and integration to our electrical supply
2. 360 x 450W Trina Vertex S + Solar Modules (Black Frame)
3. Solis 60kW Inverter x 2
4. TESLA Powerwall 13.5kW x 3 and gateway batteries storage included, with capability to add more in future upgrades.
5. Monitoring to confirm PV generation levels. System can identify what the solar array is producing, and how much of the energy is being self-consumed, imported and exported to the grid.
6. ESDEC Mounting System
7. A bio-directional meter is a requirement.
8. 2 Zappi EV charging points (22kW).
9. All work to include:
10. To design new arrays on the pitched roofs where feasible
11. A new PV system including the PV modules and three phase inverters or (and) micro-inverters utilising the flat roof area.
12. To configure the three phase inverter system(s) to the most cost-effective outcome
13. Structural Assessment and Building Regulations Compliance
14. Structural Assessment Report
15. District Network Operator Consent. To conduct the necessary G99 checks and application process with the DNO.
16. System design
17. Scaffolding and safe access system
18. Compound and welfare facilities
19. Mechanical handling of materials
20. Waste Management; waste certificates to be provided as evidence the waste has been disposed of in accordance with any regulatory requirements
21. Supply, installation and commissioning of solar PV system
22. On site client training, instruction and handover

3.3 **Warranties**

1. PV units minimum 25 year product workmanship and 30year power performance
2. Inverters with minimum 10 year warranty
3. ESDEC Mounting System with of 20 year warranty
4. Workmanship minimum warranty of 5 years
5. Other equipment employed as part of the installation should clearly specify the length and type of warranties included

**3.4** Certification of installations to building regulations (structural report confirming capability of roof load)

4**. Budget**

The total maximum budget available for this commission is £130,000.00 (ex VAT) but inclusive of all expenses.

**Tenders that exceed the total budget will not be considered.**

The budget will be reviewed as part of the tender evaluation detailed in Section 10 and will reflect the degree to which there is a saving on the maximum budget.

# 5. Tender and commission timetable

The timescale of the programme is from the date of signing the contract until acceptance by Flann Microwave Limited authorised representative. The timetable for submission of the Tender, completion of the programme is set out below:

|  |  |
| --- | --- |
| **Milestone** | **Date** |
| Date ITT available on Contracts Finder | 1 July 2024 |
| Site Visit to be arranged with sheila.stuart@flann.com | Between 2 -11 July 2024 (except 5 July) |
| Last date for raising queries | 1700: 12 July 2924 |
| Last date for clarifications to queries | 1700: 15 July 2024 |
| Deadline to return ITT | **1700: 26 July 204** |
| Evaluation of ITT | 29-30 July 2024 |
| Preferred supplier notified | 31 July 2024 |
| Award of Contract | This is subject to successfully obtaining grant funding and will normally be no later than 30 days from contract evaluation |

# 6. Tender submission requirements

Please include the following information in your Tender submission.

6.1 Covering letter (two sides of A4 maximum) to include:

1. A single point of contact for all contact between the tenderer and Flann Microwave Limited during the tender selection process, and for further correspondence.
2. Confirmation that the tenderer has the resources available to meet the requirements outlined in this brief.
3. Confirmation that the tenderer holds current valid insurance policies as set out below and, if successful, supporting documentation will be provided as evidence:
   * 1. Professional Indemnity Insurance with a limit of indemnity of not less than two million (£ 1,000,000),
     2. Employers Liability Insurance with a limit of indemnity of not less than ten million (£10,000,000)
     3. Public Liability Insurance with a limit of indemnity of not less than ten million (£5,000,000).
     4. Products Liability Insurance with a limit of indemnity of not less than ten million (£5,000,000).
4. Conflict of interest statement

6.2 Method statement to include the following:

1. Supply, installation and commissioning of the new system/components, following all legal requirements and trade association codes.
2. PV system design practices.
3. Proposed illustrative layout of PV panels on roof.
4. DNO application for grid connection. Responsibility for securing G99 agreement, and G100 if required.
5. Installation of any additional sensors required to meet best practice.
6. Supply of electrical installation drawings to integrate with existing system/3 phase supply.
7. Manufacturer and parts of PV Panels and Inverter. (Section 3)
8. Confirm terms of guarantee for parts and installation. (Section 3)
9. How waste is going to be responsible and legally compliant.
10. Evidence that you are a registered member of both MCS and RECC.
11. Include structural report to confirm roof load capacity.
12. The CV of the HS responsible person.
13. Gantt chart or equivalent demonstrating the project timescales and any payment plan with associated milestones.

6.3 Previous work examples. Two examples of previous contracts of a similar size. Maximum of one side of A4 (pictures can be supplied separately but must contain no other text than labels; website links will not be viewed).

6.4 Budget

**7. Sub-contracting**

Tenderers should note that a consortia can submit a tender but the sub-contracting of aspects of this commission after appointment will only be allowed by prior agreement with Company name.

**8. Conflicts of Interest**

Tenderers must provide a clear statement with regard to potential conflicts of interests. Therefore, **please confirm within your tender submission** whether, to the best of your knowledge, there is any conflict of interest between your organisation and Flann Microwave Limited or its programme team that is likely to influence the outcome of this procurement either directly or indirectly through financial, economic or other personal interest which might be perceived to compromise the impartiality and independence of any party in the context of this procurement procedure.

Receipt of this statement will permit Flann Microwave Limited to ensure that, in the event of a conflict of interest being notified or noticed, appropriate steps are taken to ensure that the evaluation of any submission will be undertaken by an independent and impartial panel.

# 9. Tender clarifications

Any clarification queries arising from this Invitation to Tender which may have a bearing on the offer should be raised by email to:

[sheila.stuart@flann.com](mailto:sheila.stuart@flann.com)

in accordance with the Tender and Commission Timetable in section 5.

Responses to clarifications will be anonymised and uploaded by Flann Microwave Limited to Contracts Finder and will be viewable to all tenderers.

No representation by way of explanation or otherwise to persons or corporations tendering or desirous of tendering as to the meaning of the tender, contract or other tender documents or as to any other matter or thing to be done under the proposed contract shall bind Flann Microwave Limited unless such representation is in writing and duly signed by a Director/Partner of the tenderer. All such correspondence shall be returned with the Tender Documents and shall form part of the contract.

# 10. Tender evaluation methodology

Each Tender will be checked for completeness and compliance with all requirements of the ITT. Tenders will be evaluated to determine the most economically advantageous offer taking into consideration the award criteria.

**Tender returns will be assessed based on the following tender award criteria.**

|  |  |
| --- | --- |
| Ref 6.1 Covering Letter |  |
| Acceptable covering letter including confirmation of the requirements detailed at 6.1 | Pass/ Fail |
| Ref 6.2 Method Statement | 20 |
| a. Supply, installation and commissioning of the new system/components, following all legal requirements and trade association codes.  b. PV system design practices.  c. Proposed illustrative layout of PV panels on roof.  d. DNO application for grid connection. Responsibility for securing G99 agreement, and G100 if required.  e. Installation of any additional sensors required to meet best practice.  f. Supply of electrical installation drawings to integrate with existing system/3 phase supply.  g. Manufacturer and parts of PV Panels and Inverter. (Section 3)  h. Confirm terms of guarantee for parts and installation. (Section 3)  i. How waste is going to be responsible and legally compliant.  j. Evidence that you are a registered member of both MCS and RECC.  k. Include structural report to confirm roof load capacity.  l. The CV of the HS responsible person.  m. Gantt chart or equivalent demonstrating the project timescales and any payment plan with associated milestones. |  |
| Ref 6.3 Previous work examples | 20 |
| Two examples of previous contracts of a similar size. Maximum of one side of A4 (pictures can be supplied separately but must contain no other text than labels; website links will not be viewed). |  |
| Ref 6.4 Budget | 60 |
| A **fixed fee** for this work (ex VAT) including travel and other expenses.  The lowest bid will be awarded the full 60 marks. Other bids will be awarded a mark that is proportionate to the level of their bid in comparison to the lowest bid i.e. Marks awarded = 60 x lowest bid / bid |  |

11**. Assessment of the Tender**

The reviewer will award the marks depending upon their assessment of the applicant’s tender submission using the following scoring to assess the response:

|  |  |  |
| --- | --- | --- |
| **Scoring Matrix for Award Criteria** | | |
| Score | Judgement | Interpretation |
| 100% | Excellent | Exceptional demonstration of the relevant ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services. Full evidence provided where required to support the response. |
| 80% | Good | Above average demonstration of the relevant ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services. Majority evidence provided to support the response. |
| 60% | Acceptable | Demonstration of the relevant ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services, with some evidence to support the response. |
| 40% | Minor Reservations | Some minor reservations of the relevant ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services, with little or no evidence to support the response. |
| 20% | Serious Reservations | Considerable reservations of the relevant ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services, with little or no evidence to support the response. |
| 0% | Unacceptable | Does not comply and/or insufficient information provided to demonstrate that there is the ability, understanding, experience, skills, resource and/or quality measures required to provide the goods/works/services, with little or no evidence to support the response. |

During the tender assessment period, Flann Microwave Limited reserves the right to seek clarification in writing from the tenderers, to assist it in its consideration of the tender. Tenders will be evaluated to determine the most economically advantageous offer taking into consideration the award criteria weightings in the table above.

Flann Microwave Limited is not bound to accept the lowest price or any tender. Flann Microwave Limited will not reimburse any expense incurred in preparing tender responses. Any contract award will be conditional on the Contract being approved in accordance with Company name’s internal procedures and Flann Microwave Limited being able to proceed.

12**. Tender Award**

Any contract awarded as a result of this tender process will be in accordance with this tender and supplier’s response.

# 13. Tender returns

Tenders are to be returned by email.

Tenders are to be returned in accordance with Section 5

Latest date to be returned: As per Section 5

Latest time to be returned: 17:00

Emailed tenders should be sent electronically to:

[sheila.stuart@flann.com](mailto:sheila.stuart@flann.com)

with the following message clearly noted in the Subject box;

‘Flann Microwave Limited – Solar Panel and Storage Batteries’

**Tenderers are advised to request an acknowledgement of receipt of their email.**

# 14. Disclaimer

The issue of this documentation does not commit Flann Microwave Limited to award any contract pursuant to the tender process or enter into a contractual relationship with any provider of the service. Nothing in the documentation or in any other communications made between Flann Microwave Limited or its agents and any other party, or any part thereof, shall be taken as constituting a contract, agreement or representation between Flann Microwave Limited and any other party (save for a formal award of contract made in writing by Flann Microwave Limited or on behalf of Company name).

Tenderers must obtain for themselves, at their own responsibility and expense, all information necessary for the preparation of their tender responses. Information supplied to the tenderers by Company name, or any information contained in Company name’s publications is supplied only for general guidance in the preparation of the tender response. Tenderers must satisfy themselves by their own investigations as to the accuracy of any such information and no responsibility is accepted by Flann Microwave Limited for any loss or damage of whatever kind and howsoever caused arising from the use by tenderers of such information.

Flann Microwave Limited reserves the right to vary or change all or any part of the basis of the procedures for the procurement process at any time or not to proceed with the proposed procurement at all.

Cancellation of the procurement process (at any time) under any circumstances will not render Flann Microwave Limited liable for any costs or expenses incurred by tenderers during the procurement process.