

12/04/2022

Dear Sir/Madam,

**Invitation to Tender for the 'Range dependent nature of impulsive noise - analysis of existing data & development of method for incorporation into noise impact assessments' project for the Carbon Trust's Offshore Renewables Joint Industry Programme (ORJIP) for Offshore Wind**

You are invited to submit a tender for the Range dependent nature of impulsive noise - analysis of existing data & development of method for incorporation into noise impact assessments project (the "RaDIN project" or "Project") which is part of the Offshore Renewables Joint Industry Programme (ORJIP) for Offshore Wind.

The Invitation to Tender (ITT) consists of the following documents:

- Description of Tender (this document);
- ORJIP Offshore Wind Stage II Contractors' Conditions;
- Tender Certificate (Word template);
- Bid Price Calculation Sheet (Excel template);
- Clarification Document (if applicable<sup>1</sup>);

Unless informed to the contrary, tenders and communications shall be sent by e-mail to the following e-mail address: [oliver.patrick@carbontrust.com](mailto:oliver.patrick@carbontrust.com)

Tenders must be submitted before **24/05/2022, 12:00 BST**. Any tenders received after this date and time will be deemed non-compliant.

Your tender must consist of the following, the contents of which are described further below:

- Main Bid Document (pdf) – template not provided;
- Signed Tender Certificate (pdf) – template provided; and
- Bid Price Calculation Sheet (xls) – template provided.

The timeline of this procurement process is as follows:

Deadline for clarification questions	22/04/2022
Clarification Document published <sup>1</sup>	29/04/2022
Submission of full tender	24/05/2022, 12:00 BST
Bidder interviews	June 2022
Successful Contractor announcement	Late June 2022
Envisaged Contract award date	July 2022

Please e-mail any clarification questions, including questions about the timing of this ITT, to [oliver.patrick@carbontrust.com](mailto:oliver.patrick@carbontrust.com) any time before 22/04/2022. The complete set of clarification questions and all answers to clarification questions will be published in the Clarification

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<sup>1</sup> A Clarification Document will not be published if no clarification questions are received in relation to this ITT.



Document on our website by 29/04/2022 and will hence be visible to all potential Bidders:  
<https://www.carbontrust.com/news-and-events/tenders>

For information about ORJIP Offshore Wind, please see the Carbon Trust's web site:  
<https://www.carbontrust.com/our-projects/offshore-renewables-joint-industry-programme-orjip-for-offshore-wind>

We look forward to receiving Your tender.

Yours sincerely,

*Oliver Patrick*

.....  
Oliver Patrick  
For and on behalf of **THE CARBON TRUST**

## Offshore Renewables Joint Industry Programme for Offshore Wind



### Invitation to Tender for the “Range dependent nature of impulsive noise - analysis of existing data & development of method for incorporation into noise impact assessments” Project

#### Description of tender

April 2022



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## **IMPORTANT INFORMATION FOR BIDDERS**

### Publishing

Neither this document, nor any part of it nor any other information supplied in connection with it may, except with the prior written consent of the Carbon Trust, be republished, reproduced, copied, distributed or disclosed to any person for any purpose other than consideration by the recipient of whether or not to submit a tender.

### Bid evaluation

The received bids will be evaluated by the Carbon Trust and the ORJIP Offshore Wind Partners against the criteria provided in section 8. A shortlist of Bidders will be created and invited for interview. Carbon Trust will do a vetting of the shortlisted bidders. Carbon Trust may request shortlisted bidders to fill-in a Due Diligence Questionnaire to supply additional information prior to being invited for an interview.

### Contracting

Bidders should note that the Scope of Work contained in section 5 of this document does not constitute an offer to contract with the Carbon Trust. It only represents a definition of specific requirements and an invitation to submit a tender addressing these requirements.

Issuance of this Invitation to Tender and the subsequent receipt and evaluation of the tenders by the Carbon Trust does not commit the Carbon Trust to enter into a Contract with any Bidder.

Should Your tender be successful, a Final Scope of Work that builds upon the Scope of Work contained in section 4 of this document and Your Approach to Work will be mutually agreed between You and the Carbon Trust. Once the Final Scope of Work is agreed, Your offer will be formally accepted by the Carbon Trust issuing an Award Letter, the Final Scope of Work, the ORJIP Offshore Wind Stage II Contractors' Conditions, and any clarifications agreed in writing. The Award Letter, the Final Scope of Work, the ORJIP Offshore Wind Stage II Contractors' Conditions, and any clarifications agreed in writing will establish the Contract for the Range dependent nature of impulsive noise - analysis of existing data & development of method for incorporation into noise impact assessments project (the "**Contract**") between You and the Carbon Trust. With the exception of any minor amendments to the ORJIP Offshore Wind Stage II Contractors' Conditions which may be requested by the Bidder, the submission of a tender shall constitute unqualified acceptance of the ORJIP Offshore Wind Stage II Contractors' Conditions. In the event that minor amendments to the ORJIP Offshore Wind Stage II Contractors' Conditions are requested, such amendments must be clearly stated and the exact alternative wording must be provided in Annex A of the Tender Certificate. Please note that it is at the sole discretion of the Carbon Trust to accept any of the proposed amendments and that the Carbon Trust reserves the right to require the provision of further information in relation to any such request. No minor changes other than those contained in Annex A of the Tender Certificate at the time of submitting the tender will be considered. No material changes will be considered at any time.

### Mechanics of the tender process

Bidders should note that:

- it is at the discretion of the Carbon Trust whether to accept any non-compliant tender or whether to reject any non-compliant tenders without progressing such tenders through the evaluation phase;
- the Carbon Trust reserves the right not to accept the lowest priced tender or any tender whatsoever;
- the Carbon Trust reserves the right to accept more than one tender;
- unless a Bidder makes a formal statement to the contrary, the Carbon Trust reserves the right to accept any part of a Bidder's tender without accepting the remainder;
- formal notification that a tender has been successful will be communicated in writing by the Carbon Trust;
- the costs of tendering are the full responsibility of the Bidder; and
- the pricing set by Bidders shall be valid for a minimum of 90 days.

Bids may be submitted by individuals, companies, organisations or consortia.

Bidders should be aware that dates referred to in this Invitation to Tender may be subject to change where this is necessary in the interests of the Project (such changes will be notified in advance).

The Tender Certificate, Main Bid Document and any correspondence must be written in English. This Invitation to Tender, the Contract, its formation, interpretation and performance is subject to and in accordance with the law of England and Wales.

#### Conflicts of interest

Bidders should be free of any commercial interests, partnership arrangements or contracts underway or other matters which may present a conflict or potential conflict of interest in respect of the provision of these services. As set out in section 4, if a Bidder thinks that it may have any conflict or potential conflict of interest, the Bidder shall describe the details of this conflict and provide details of whether and how it would propose to manage such a conflict in a satisfactory and robust manner in Annex B of the Tender Certificate. The Carbon Trust reserves the right to require the provision of further information in relation to any conflict or potential conflict of interest.

#### Disclaimer

The information contained in this Description of Tender document and in any documents or information it refers to or incorporates (the "**Disclosed Information**") has been prepared to assist interested parties in deciding whether to make a bid. The Disclosed Information is not a recommendation by the Carbon Trust. It does not purport to be all inclusive or include all the information that a Bidder may require.

Neither the Carbon Trust nor any of its directors, employees, agents or advisers makes any representation or warranty (express or implied) as to the accuracy, reasonableness or completeness of the Disclosed Information. All such persons or entities expressly disclaim any and all liability (other than in respect of fraudulent misrepresentation) based on or relating to the Disclosed Information or any subsequent communication. The Bidder should conduct its own due diligence and seek its own professional, legal, financial and other advice as appropriate. The only information which will have any legal effect and/or upon which any person may rely will be such information (if any) as has been specifically and expressly represented and/or warranted in writing to the successful Bidder in any written contract that may be entered into with the Carbon Trust.



## **1. Introduction to the Offshore Renewables Joint Industry Programme for Offshore Wind**

- 1.1. The Offshore Renewables Joint Industry Programme (“ORJIP”) for Offshore Wind is a collaborative R&D programme between The Carbon Trust, EDF Energy Renewables Limited, Ocean Winds UK Limited, Equinor ASA, Ørsted Wind Power A/S, Red Rock Power Limited, RWE Renewables GmbH, Shell Global Solutions International B.V, SSE Renewables Developments UK Limited, TotalEnergies E&P UK Limited Crown Estate Scotland, The Scottish Ministers and The Crown Estate Commissioners (the latter 12 collectively referred to in this document as “ORJIP Offshore Wind Partners”).
- 1.2. The objective of the Carbon Trust ORJIP Offshore Wind programme is to improve the evidence base in respect of the overall impact that offshore wind projects have on the marine environment and with regard to other uses of marine areas as well as better inform consenting authorities, offshore wind farm developers and other relevant stakeholders on the environmental risk that is associated with planned and existing offshore wind projects.
- 1.3. To achieve this objective, ORJIP Offshore Wind provides a framework to identify, develop, initiate and conduct impactful, relevant and strategic research and development projects aimed at reducing consenting risk, project maturation time, cost, and the environmental impact of offshore wind projects. Research is undertaken under areas that are chosen as priority focus areas for ORJIP Offshore Wind each year of the programme.
- 1.4. Contractors receive technical direction and data from ORJIP Offshore Wind Partners through the Carbon Trust management team and in collaboration with a Project Expert Panel (“PEP”).
- 1.5. This project will fall under the ‘impacts of underwater noise on marine mammals’ priority focus area.
- 1.6. Please note, the term “Contractor”, where used within this document, refers only to the successful Bidder or, in the event that the Contract is awarded to a consortium, the successful Bidders.

## **2. Background of the RaDIN project**

- 2.1. Offshore wind development activities (namely pile driving and high-order UXO detonation) introduce large levels of the noise to the subsea environment. Impulsive noise from these processes can cause damage to the auditory systems of marine mammals. This auditory impairment can either be temporary - temporary threshold shift (TTS), or permanent – permanent threshold shift (PTS).
- 2.2. It is known that noise becomes less impulsive at greater distances and therefore less likely to cause auditory injury. However, this is currently unaccounted for in assessments when predicting the potential marine mammal injury impact ranges. More accurate representation of impulsive noise in noise modelling for assessments is required to reduce the conservatism in the assessment of risk of PTS onset to marine mammals. This project will provide a more comprehensive understanding of how the impulsive characteristics of noise from piling and UXO detonation changes (becomes non-



impulsive) with distance from the source and provide recommendations on how the findings can be incorporated into impact assessments.

### **3. Aims and objective of the RaDIN project**

3.1. The project will develop a framework for use in noise impact assessments that a) assesses the impulsivity of noise with range from the source, and b) incorporates a measure of impulsivity in addition to the standard use of sound levels and frequencies to estimate the subsequent risk of injury to marine mammals. The project has three main activities:

- i. Review the existing literature on the transition from impulsive to non-impulsive noise characteristics, with a view to considering appropriate metrics that can be used relative to the mechanism of noise impact at the mammalian ear.
- ii. Collate and analyse field data to investigate the range dependent nature of impulsive noise from pile driving and UXO detonation.
- iii. Develop a framework combining the above that can be incorporated into noise impact assessments.

### **4. Tender documents for submission**

4.1. In response to this Invitation to Tender, Bidders are required to submit

- i. A Main Bid Document (pdf) – no template provided but contractors are requested to split the document between Technical & Financial Proposal;
- ii. The signed Tender Certificate (pdf) – template provided; and
- iii. The filled-in Bid Price Calculation Sheet (xls) – template provided.

4.2. The Main Bid Document should be no more than 20 pages excluding appendices and no more than 40 pages including appendices. Font should be clearly legible, and be at least font size 11. The Main Bid Document shall as a minimum include the following information:

- i. The Bidder's proposed detailed Approach to Work (see section 5 and criterion 1 for more details). Bidders shall provide Work Package descriptions in the format set out in Annex 2 to this document. The Approach to Work should:
  - include a Gantt chart which describes the timeline for the Project, showing when each Work Package will start and finish;
  - outline how the Bidder will deliver the Scope of Work and do so on budget and within the allocated time;
  - any Alternative Work (i.e. substitute activities to take place instead of certain activities outlined in the Scope of Work in section 5). If Alternative Work forms part of the Approach to Work, the Bidder is expected to highlight, explain and justify the intended deviation from the Scope of Work. Alternative Work will be considered as non-optional when the tender is evaluated; and
  - any Additional Work (i.e. activities to take place in addition to the activities outlined in the Scope of Work in section 5). If Additional Work forms part of the Approach to Work, the Bidder is expected to explain and justify why the Additional Work would be beneficial and to provide a

separate quotation for these activities. It is at the discretion of the Carbon Trust to consider Additional Work in the evaluation of the tender.

- ii. a pdf copy of the filled-in Bid Price Calculation Sheet;
  - iii. the offered Bid Price, including any cost assumptions deemed relevant by the Bidder – see section 6 and criterion 4 for more details;
  - iv. an explanation of experience and staff skills, and how these are relevant to the Approach to Work – see criteria 2 and 3 for more details; and
  - v. supplementary information to provide experience evidence and skills evidence (e.g. CVs) – see criteria 2 and 3 for more details. This information should be provided as appendices to the Main Bid Document.
- 4.3. The Tender Certificate must be signed by an authorised signatory. Bidders must fill in the provided template.
- 4.4. The filled-in Bid Price Calculation Sheet must be provided in Excel format in addition to the information provided in the Main Bid Document. See section 6 and criterion 4 for more details.
- 4.5. The failure by a bidder to submit either the Main Bid Document, the signed Tender Certificate or the filled-in Bid Price Calculation Sheet shall mean that such tender is a non-compliant tender.

## **5. Scope of Work**

- 5.1. The Scope of Work is provided in this section 5.
- 5.2. The Scope of Work comprises 7 Work Packages. The Scope of Work sets out the initial ideas on the key activities that the Contractor is expected to deliver for the Project.
- 5.3. It is expected that the Contractor will report on Project Deliverables to the ORJIP Offshore Wind Steering Group and Project Expert Panel. The Carbon Trust, ORJIP Offshore Wind Steering Group and Project Expert Panel shall review and provide feedback on each Project Deliverable. There will be at least one round of review comments to be accommodated by the Contractor for each Project Deliverable.
- 5.4. The Final Scope of Work will be agreed between the Carbon Trust and the Contractor when entering into the Contract. The Final Scope of Work may reflect any updates, changes or improvements to the Scope of Work as proposed by the Contractor in its Alternative Work or Additional Work and as agreed by the Carbon Trust.
- 5.5. Due to the breadth of skills and experience required for the Project, bidders may decide to build a consortium to successfully meet the objectives of the Project. If a bid is submitted by a consortium it is expected that, in the case that the consortium is selected as the preferred Bidder, Carbon Trust will only enter into a Contract with the Project

Coordinator, and that the Project Coordinator will subcontract the other members of the consortium.

- 5.6. The Carbon Trust appreciates that it will take a small, interdisciplinary team of mixed seniority approximately 12 months to complete the Project.
- 5.7. Bidders should use the Scope of Work as set out below to create the Approach to Work. Any Alternative Work or Additional Work shall be stated in the Approach to Work at the end of the relevant Work Package description.
- 5.8. It is expected that simplifying assumptions will be required to complete the work in the given timeframe. These assumptions should, to the extent possible at the time of tender submission, be clearly stated in the Approach to Work. It is expected that during the execution of the RaDIN Project, any assumptions will be discussed with the ORJIP Offshore Wind Steering Group and Project Expert Panel prior to the start of each Work Package.

## Work Packages

Work package	Description of work
WP1 –Review	<p><b>Goal</b></p> <p>Review and evaluate <b>a)</b> current approaches to classify the impulsiveness of sound, outlining the advantages and disadvantages of various approaches and remaining uncertainties, and <b>b)</b> focus in on the approaches most relevant for the mechanism of impact with the mammalian ear.</p> <p><b>Activity</b></p> <p>Perform a review to evaluate our current understanding of:</p> <ol style="list-style-type: none"><li>i. <b>The mechanism of impact at the mammalian ear.</b> Where substantial data gaps exist and it is deemed suitable, the contractor should identify an available proxy (e.g., the human ear) with commentary on the assumed transferability to the marine mammalian ear.</li><li>ii. <b>Parameters and associated metrics to define impulsiveness.</b> The contractor should explore the interaction between identified metrics of impulsivity and the identified mechanisms of impact. Any variation in the impact mechanism between different marine mammal hearing groups should be considered. Any associated criteria<sup>1</sup> existing for the transition from impulsive to non-impulsive sound should be cited where available. Assumed advantages and disadvantages of each approach should be listed, and any remaining uncertainties should be provided with associated recommendations for future work.</li><li>iii. <b>Range dependent impulsiveness of underwater piling noise and UXO detonation.</b> The contractor should review all previous studies that have considered, and/or assessed the impulsive characteristics of these noise sources, in order to summarise the different approaches and metrics used thus far</li></ol> <p>The review should include an assessment of assumptions made and any remaining uncertainties.</p> <p>It is recognised that other groups may be progressing relevant workstreams whilst this review and broader project is ongoing. It is crucial that the Contractor is aware of latest developments and ongoing efforts in the field. Where appropriate, the review should go beyond published literature and incorporate engagement with expert stakeholders and grey literature to deliver an up-to-date and future-proofed review.</p> <p>The Carbon Trust can facilitate engagement with project stakeholders (ORJIP SG, Project Expert Panel (PEP)) to determine if any grey literature not searchable online can be shared for inclusion in the review.</p>

<sup>1</sup> Metrics are referred to as descriptors of the characteristics of sound. Associated criterion can be applied to assess the sound's impulsiveness.

## Deliverables

### D01: Summary report of the completed review

#### WP2 – Collation of field data

##### Goal

Identify and collate relevant datasets containing real-world underwater noise measurements for both piling and UXO detonations. The in-situ acoustic measurements collected should include the level of technical information required to derive the parameters outlined in WP1 as identifiers of impulsivity.

Individual datasets should cover a range of distances from the noise source (from close-to-source to tens of km distance) to capture the transition from impulsive to non-impulsive. As a collective, the gathered data should cover a range of environmental conditions, pile types and processes such that the interdependencies between factors can be interrogated and reasonably disaggregated.

##### Activity

- Liaise with the ORJIP OSW SG, the PEP, and underwater noise survey contractors to identify datasets containing real-world measurements that could be used.
- If required, develop confidentiality agreement(s) with data owners/providers to allow analysis of data.

Proposals should provide a list of data they intend to collate in this Work Package, with acknowledgement of where permissions from data owners will be required. The ORJIP OSW SG may be able to facilitate data availability from developers. It is expected that this list will be informed by WP1 and can therefore be iterated during delivery.

## Deliverables

**D02(A): List of data sources (as agreed with the PEP & ORJIP OSW SG) to be taken forward into WP3**

**D02(B): Signed Confidentiality Agreements with data providers including Data Sharing Annex if required**

## STAGE GATE

**A go/no-go decision will be made based on the review and availability of datasets. The project will only be ceased if the ORJIP SG, in consultation with the PEP and Contractor, agree the**

subsequent work packages cannot be effectively delivered from the conclusion of the review and/or availability of datasets.

### WP3 – Analysis of field data

#### Goal

For the collated noise monitoring data, assess the range dependent impulsiveness using identified methods (i.e., metrics and associated criteria) and critically review the range of outputs.

#### Activity

- Prioritise the most suitable metrics identified in WP1 for assessing the range dependent impulsiveness of underwater piling noise and UXO detonation. A range of metrics is expected, and it is not envisaged that a single most-suitable metric will be agreed at this stage.
- Extract the prioritised metrics from the collated field data at a range of distances (from close-to-source to tens of km distance).
- Apply associated criteria identified in WP1 to the extracted metrics to derive the impulsivity of noise for each method at a range of distances.
- Accounting for the context in which the data was collected, critically review the range of outputs to make a qualitative judgement of each methods suitability in assessing the range dependent nature of impulsiveness of underwater piling noise and UXO detonation.

### Deliverables

**D03: A report detailing the data analysis and results, including critical review of the outputs.**

### WP4 – Interim workshop

#### Goal

Present the project results and agree a framework development approach with project stakeholders.

#### Activity

- Identify and liaise with project stakeholders to arrange a workshop session. Project stakeholders are anticipated to include the ORJIP SG, the PEP, and additional sectoral experts as agreed. The Carbon Trust can facilitate communications where appropriate.
- Present available project results and outline a suggested approach (or range of approaches) to framework development.
- Receive structured feedback on the proposal(s) to incorporate into the final framework.

The workshop should be collaborative and interactive to maximise engagement. The Contractor should maintain a flexible approach and be prepared to iterate any framework proposal based on workshop feedback.

All approaches to the workshop are welcome, but Contractors should include in their proposal how they will mitigate disagreements/uncertainty and accommodate known limitations in the framework.

### **Deliverables**

**D04(A): Minutes from the workshop, with key actions and decisions highlighted**

**D04(B): Finalised framework development plan for ORJIP SG and PEP review**

### **STAGE GATE**

A go/no-go decision will be made based on the perceived viability and efficacy of framework development. A decision will be made by the ORJIP SG in collaboration with the PEP, and informed by the Contractor's recommendation and outputs from the workshop session. The ORJIP SG has the discretion to decide whether a summary report (WP6) is still required.

### **WP5 – Framework development**

#### **Goal**

Develop a user-friendly framework for implementing the range dependent impulsiveness of underwater piling noise and UXO detonation into environmental impact assessments. The framework should be usable by underwater acousticians/acoustic modellers, with results and outputs readily interpretable by broader environmental consultants and the industry Regulators (and their statutory advisers).

#### **Activity**

- Develop context-dependent recommendations for the use of methods applied in WP3 to estimate the transition point when noise from underwater piling and UXO detonation becomes non-impulsive.
- Identify how the framework can be used alongside existing thresholds for auditory injury, to reflect the transition leading to more representative results.
- Identify and clearly communicate any limitations of the framework and its dependent datasets.
- Provide any supplementary information required for the use of the proposed framework and worked examples by applying it to a sample of collected field data.

Where possible, the Contractor should use visually intuitive outputs to aid communicate and dissemination of the framework.

## Deliverables

**D05: User-friendly framework for implementing the range dependent impulsiveness of underwater piling noise and UXO detonation into environmental impact assessments**

**WP6**

**Report writing and publication**

### Goal

Deliver a comprehensive report detailing the outcomes of the project. The format should be compatible, or readily convertible, with submission to a journal or equivalent publication.

### Activity

Prepare and deliver a comprehensive report detailing the outcomes of the project. Key results should be presented alongside project learnings, and the Contractor should use their knowledge of remaining evidence gaps to recommend priority follow-on work.

## Deliverables

**D06: Final report detailing results and key learnings from WP1 – WP5. The report should be compatible, or readily convertible, with submission to a journal or equivalent publication.**

**WP7**

**Project Validation**

### Goal

Provide a 3rd party review of the project deliverables to assess its accuracy and identify any shortfalls to progress the final report as a scientific publication

### Activity

Conduct Peer Review including:

- a. An independent review of project and outputs,
- b. Publication of scientific report

Proposals should set out the intended approach to peer review, including details such as the proposed publication.

## Deliverables

**D07(A): A short report outlining the validity of the project and outputs**

**WPA**

**Project Management**

The contractor should stipulate how they will manage the project efficiently and effectively. This should include specific costs for project management time, to include update calls with the Carbon Trust Project Manager and/or ORJIP OSW Steering Group as required.

This should also include production of a brief executive summary for the whole project, for internal dissemination.



The budget should also accommodate the production of a final presentation and time dedicated to presenting this in the form of a webinar to invitees from the participants of ORJIP OSW including the Advisory Network.

Finally, if appropriate, resource should also be allocated to provide inputs into the 'ORJIP Risk Model'. The contractor is expected to produce a risk register and provide guidance on the effect of the research on inputs to the 'ORJIP Risk Model'.

**Deliverables:**

**D08: Monthly flash reports outlining work performed against WPs, forecasted progress, a risk log, and H&S incident register.**

**D09: Project executive summary**

**D10: Delivery of webinar**

**D11: Project Risk Register inputs**

**WPB**

**Expenses**

The contractor should detail the capped amount of expenses it expects to incur throughout the project. Expenses will be paid as incurred and any unused balance will not be paid.

## **6. Intellectual Property and Knowledge**

Full details of the intellectual property requirements and conditions can be found in the attached ORJIP Offshore Wind Stage II Contractors' Conditions.

## **7. Bid Pricing**

- 7.1. To provide Bidders with greater clarity on the nature, level and type of work involved in the various Work Packages, the Total Budget for the delivery of this Project is expected to range between **£60,000 and £70,000**.
- 7.2. The Bid Price submitted with the tender must be derived from the cost breakdown in the Bid Price Calculation Sheet, and must include all expenses. The Bid Price is the price for the activities that will address the Scope of Work (and any Alternative Work proposed by the Bidder). The Bid Price Calculation Sheet and the Bid Price shall not include the price of any Additional Work suggested by the Bidder. Instead, the price for such Additional Work Packages shall be stated separately to the Bid Price in the Main Bid Document.
- 7.3. If the Bid Price exceeds the expected range of the Total Budget as stated under section 6.1, to avoid receiving a lower score for criterion 4, in the Main Bid Document the Bidder should provide a clear and justified reason why the Bid Price exceeds the expected budget.
- 7.4. All costs and rates quoted in the Main Bid Document and Bid Price Calculation Sheet must be in GBP (£) and all staff rates quoted in the tender must represent the **Day Rate** for employment of staff members.
- 7.5. Any expenses must be separately included under Expenses.

## 8. Tender Evaluation Criteria

Bidders should take the following evaluation criteria into account when preparing and submitting their tenders.

### Criterion 1: Approach to Work (Weighting: 25%)

<i>Description</i>	<i>Information required from Bidders</i>
Proposed Approach	<p>In the Main Bid Document, Bidders are required to provide a clear and detailed description on how they plan to deliver the work for this Project.</p> <p>The description should include an initial overview on the approach followed by a description on how each Work Package and task will be delivered.</p> <p>Also, Bidders need to justify how their proposed approach meets the objectives of the Project.</p>
Additional Work	<p>If there is any Additional Work proposed by the Bidder, these aspects will be evaluated separately. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the tender.</p>
Project management	<p>Bidders are required to describe how they will manage the Project utilising appropriate resources and describe how they will work with the various stakeholders, such as the relevant ORJIP Offshore Wind PEP, to get information and manage potentially conflicting relationships.</p>

### Criterion 2: Experience (Weighting: 30%)

<i>Description</i>	<i>Information required from Bidders</i>
Experience and knowledge	<p>In the Main Bid Document, Bidders should elaborate on experience of the criteria described and explain how these past experiences are relevant for this tender. Of particular importance will be the Bidders understanding of the policy environment and the need for this project.</p> <p>In addition, Bidders should provide at least two examples (with reference to specific roles, responsibilities and activities the Bidder undertook) of previous work which illustrates the Bidder's skills, capabilities, and experience in all of these areas (Bidders may wish to make reference to submitted examples of previous work for other clients).</p> <p>Bidders are advised that experience is considered a key important criterion and partnerships with other companies to support certain areas of experience are welcomed. All experience / case studies should be attached as an appendix to the Main Bid Document.</p> <p>Bidders should provide evidence of their relevant skills and experience. It is anticipated that the successful bidder will exhibit, among others, the following range of skills and experience:</p>

	<ul style="list-style-type: none"> <li>• Understanding of the requirements under EU and UK legislation;</li> <li>• Practical understanding of the offshore wind industry, including consenting/licensing processes and operation of offshore wind farms;</li> <li>• Understanding of conservation science, including impact of underwater noise on marine mammals expertise and knowledge of offshore wind farms;</li> <li>• A track record of satisfactory health, safety and quality management;</li> <li>• Experience of undertaking authoritative studies in relevant applied science areas;</li> <li>• Experience of reporting and presenting the results of studies in relevant applied science areas;</li> <li>• Experience of applying statistical skills to the design and undertaking of relevant studies;</li> </ul> <p>Experience of working collaboratively with regulatory bodies and industry, ideally including the renewables industry and Statutory Nature Conservation Bodies.</p>
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### Criterion 3: Staff Skills (Weighting: 15%)

<i>Description</i>	<i>Information required from Bidders</i>
CVs/Resumes	Bidders are required to provide detailed CVs/Resumes for any key personnel who will be involved with this Contract together with proposed Project structure, intended position of the key personnel in the Project, and main responsibilities. CVs should include professional memberships of proposed staff working on this Project.
Applicable skills	Bidders should elaborate on the most relevant skills of the key personnel that will be involved in the Project.
Prior experience form involved staff	Please include examples of similar work performed by the proposed staff members, explaining how is relevant to the Approach to Work.
Expert engagement	A close working relationship with key stakeholders, such as government departments & agencies, regulatory bodies, Statutory Nature Conservation Bodies, NGOs and academia, who are seen relevant to the success of this Project. Please supply ideas of how these groups can be engaged and leveraged.

### Criterion 4: Data Acquisition (Weighting: 10%)

<i>Description</i>	<i>Information required from Bidders</i>
Knowledge and experience of relevant source data	It is understood tenderers may not be able to commit to access or use of 3 <sup>rd</sup> party data without permission from the owner. A key criterion for scoring is that tenderers have a good understanding of what source data is likely to be available and who the owners are.

	Permission to use the data can be determined attained through coordination with ORJIP Offshore Wind.
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**Criterion 5: Bid Price (Weighting: 20%)**

<i>Description</i>	<i>Information required from Bidders</i>
Day rates and man hours (man-h) for all staff grades	In the Bid Price Calculation Sheet, Bidders are required to provide day rates for all staff grades and to input the man-h involved in each Work Package.
Price for the delivery of the Project	<p>In the Bid Price Calculation Sheet, Bidders are required to provide a cost breakdown by Work Package, including man hours and day rates of personnel completing the work as specified in section 6.</p> <p>Bidders are required to specify expected expenses separate from the estimated budget for each Work Package.</p> <p>The Bid Price will be assessed on the price for the Approach to Work (which includes the price of the Work Packages in the Scope of Work and any Alternative Work proposed by the Bidder).</p> <p>If there is any Additional Work proposed by the Bidder, this will be evaluated separately. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the tender.</p> <p>Carbon Trust will reimburse reasonable expenses at cost and receipts may be requested. Pre-approval will be required for travel costs over £150 per return journey and combined hotels &amp; subsistence cost exceeding £200 per day.</p> <p>Bidders will be required to confirm or comment on their ability to carry out the activities detailed in the Scope of Work within the initial term of the Contract and provide an outline plan of work.</p>

## 9. Glossary

Approach to Work	Has the meaning set out in section 3.1.
Additional Work	Any activities that are proposed by the Bidder in addition to those in the Scope of Work. It is at the discretion of the Carbon Trust to consider Additional Work in the evaluation of the tender. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the tender.
Alternative Work	Deviations from the Scope of Work that are proposed by the Bidder, which replace work or tasks in the Scope of Work. Alternative Work will be treated as non-optional in the evaluation of the tender.
Award Letter	A letter, issued by Carbon Trust, informing the Contractor about the award of the Contract. The Award Letter is issued together with the Final Scope of Work and the ORJIP Offshore Wind Stage II Contractors' Conditions.
Bidder	An individual, a company, an organisation or a consortium submitting a bid for the Project.
Bid Price	The total price for the Bidder to complete the Project in line with the Approach to Work. The Bid Price shall include the price for all Work Packages described in the Scope of Work and any Alternative work proposed by the Bidder. The Bid Price shall not include the price of any Additional Work suggested by the Bidder.
Bid Price Calculation Sheet	An Excel template provided by the Carbon Trust that is to be provided by the Bidder in addition to the Main Bid Document.
Carbon Trust Project Manager	The Carbon Trust employee who serves as first point of contact in relation to this ITT and the Project.
Clarification Document	A document containing all received clarification questions and Carbon Trust's responses to these questions.
Contract	A document consisting of the Award Letter, the Final Scope of Work, the ORJIP Offshore Wind Stage II Contractors' Conditions, and any clarifications agreed in writing.
Contractor	The Bidder (or in the case of a consortium, Bidders) selected for the delivery of the Project.
Description of Tender	This document.
Due Diligence Questionnaire	A questionnaire that is to be completed by shortlisted Bidders should Carbon Trust's bidders vetting process give reason to conduct a due diligence. In case of a consortium, the Due

	Diligence Questionnaire is to be filled-in by the designated Project Coordinator.
Executive Summary Report	A 3-10 pages report containing a high-level description of the Work Programme and a summary of the relevant results, findings and conclusions of the Project.
Final Scope of Work	The agreed Work Programme for the Project, based on the Scope of Work and the Approach to Work, which is mutually agreed between the Carbon Trust and the Contractor.
Flash Report	A template provided by the Carbon Trust at Project start.
Invitation to Tender (ITT)	The following group of documents: Description of Tender (this document); ORJIP Offshore Wind Stage II Contractors' Conditions; Tender Certificate template; Bid Price Calculation Sheet template; and Clarification Document (if applicable <sup>1</sup> ).
Main Bid Document	Has the meaning given in section 3.1. No template is provided.
Project	The Range dependent nature of impulsive noise - analysis of existing data & development of method for incorporation into noise impact assessments or RaDIN project.
Project Closeout Form	A template provided by the Carbon Trust towards the end of the Project.
Project Deliverables	The individual deliverables including, but not limited to, any reports, technical notes, documents, drawings, models, data, webinars to be produced by the Contractor according to the Scope of Work (see section 5) or as otherwise agreed in the Final Scope of Work.
ORJIP Offshore Wind	Offshore Renewables Joint Industry Programme for Offshore Wind
ORJIP Offshore Wind Partners	A group of leading offshore wind farm developers and public sector non-developers supporting ORJIP Offshore Wind.
ORJIP Offshore Wind Risk Model	The Contractor is not expected to produce a risk model of its own, but rather provide an estimate, with appropriate explanation, for potential risk reduction implications of the research undertaken within the frame of the delivered project. The Carbon Trust will provide a template to assist the Contractor in this process.

ORJIP Offshore Wind Risk Model Input Sheet	A form (to be provided by Carbon Trust) which the Contractor should complete in WPA to provide input into the ORJIP Offshore Wind Risk Model.
Project Expert Panel	A group consisting of technical experts from the ORJIP Offshore Wind Advisory Network and ORJIP Offshore Wind Partners appointed by the ORJIP Offshore Wind Partners. The PEP will supervise the Project and where necessary make recommendation to the ORJIP Offshore Wind Steering Group.
Scope of Work	The (preliminary) Work Programme for the Project as defined in section 4 of this document. At Contract award, the Scope of Work will be replaced by the Final Scope of Work.
Tender Certificate	A declaration that is to be provided by the Bidder (in case of a consortium: by the designated Project Coordinator) in addition to the Main Bid Document.
Total Budget	The expected amount of money available that will be made available from ORJIP Offshore Wind to the Contractor for the delivery the Project.
Work Package	A group of related tasks to be delivered under the Project.
Work Programme	The entirety of all Work Packages.