

Ireland-Dublin: Research consultancy services

OJ S 49/2016 10/03/2016

Contract notice

Services

Directive 2004/18/EC

Section I: Contracting authority

I.1. Name and addresses

Official name: PIPCO RSG Ltd

National registration number: N/A

Postal address: 7 Dundrum Business Park, Windy Arbour

Town: Dublin

Country: Ireland

For the attention of: Nick O'Neill

E-mail: noneill@pip.ie

Telephone: +353 12964667

Internet address(es):General address of the contracting authority: <http://www.pip.ie>Address of the buyer profile: <http://irl.eu-supply.com/ctm/Supplier/CompanyInformation/Index/603>Electronic access to information: http://irl.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=97236&B=ETENDERS_SIMPLE**Additional information can be obtained from:**

the abovementioned address

Specifications and additional documents (including documents for competitive dialogue and a dynamic purchasing system) can be obtained from:

the abovementioned address

Tenders or requests to participate must be submitted: Official name: PIPCo RSG Ltd.

(Petroleum Infrastructure Programme)

Postal address: 7 Dundrum Business Park, Windy Arbour

Town: Dublin

Postal code: 14

Country: Ireland

For the attention of: Martin Davies

E-mail: mdavies@pip.ie

Telephone: +353 12964667

Fax: +353 12964676

Internet address: www.pip.ie**I.2. Type of the contracting authority**

Body governed by public law

I.3. Main activity

Other: oil and gas research

I.4. Contract award on behalf of other contracting authorities

The contracting authority is purchasing on behalf of other contracting authorities: no

Section II: Object of the contract

II.1. Description

II.1.1. Title attributed to the contract by the contracting authority

An Integrated Biostratigraphic and Lithostratigraphic Framework of Offshore Ireland.

II.1.2. Type of contract and place of performance or delivery

Services

Service category No 8: Research and development services

Main site or place of performance: Dublin.

NUTS code IE021 Dublin

II.1.3. Information about a framework agreement or a dynamic purchasing system

II.1.4. Information about framework agreement

II.1.5. Short description of the contract or purchase(s)

The stratigraphic nomenclature for Offshore Ireland is currently informal. A consistent framework for zonation needs to be refined and modified for the Irish basins, led by the integration of extensive existing well data, seismic and improved sampling techniques. This study will produce a biostratigraphic and lithostratigraphic regionally-correlative framework across all the offshore Irish basins. The proposed framework will also be compared to coeval equivalents in neighbouring hydrocarbon provinces. Analysis will include data from the Porcupine, Rockall, Slyne, Erris, Donegal, Goban Spur, Fastnet, North and South Celtic Sea, Kish and Central Irish Sea basins. Additionally this synthesis will support, or challenge, existing models of paleogeography and provide insights to reservoir, source and seal fairways to aid in hydrocarbon exploration. Comparisons of paleogeography with eastern Canada along the conjugate margin will be drawn based on conclusions from this analysis and previous studies. This study is a proposal from the Irish Shelf Petroleum Studies Group (ISPSG) of the Petroleum Infrastructure Programme (PIP).

II.1.6. CPV code(s)

73210000 Research consultancy services

II.1.7. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

II.1.8. Lots

This contract is divided into lots: no

II.1.9. Information about variants

Variants will be accepted: no

II.2. Scope of the procurement

II.2.1. Total quantity or scope

Objective of invitation to tender.

The objective of this Invitation to Tender is to commission a project to compile all existing biostratigraphic data from offshore Ireland wells and to propose a new chrono-lithological framework to be presented to the geoscience community. A final product will contain, but is not limited to:

— A comprehensive review of existing data, gaps and uncertainties in the offshore database.

— A revised, consistent and regionally correlative Palaeozoic to Cenozoic biostratigraphic and lithostratigraphic framework using available age data, with the addition of new analysis from core or cuttings if required. The project will include contingent additional top-to-bottom analysis of 10 'key' wells, to be decided after the gap analysis is complete.

— Identification of major stratigraphic boundaries and unconformities, and their relationship to seismic character at well level. The integration of seismic data into the chrono-litho stratigraphic framework is crucial to the project. Relevant datasets will be provided to the contractor, subject to terms and conditions.

— Interpretation of palaeoenvironments of coeval units derived from biostratigraphic and lithostratigraphic data. Palaeogeographic interpretations from offshore Ireland will be compared to previous studies across the conjugate margin and offshore eastern Canada. Specific focus will be on source rock-reservoir-seal sequences for play fairway mapping and comparisons between the conjugate margin offshore domains.

— An illustrative 'Atlas' as a reference document with maps, correlations and interpretations will be required. A supplementary final report will include details of the analysis. Additional products will include digital format summaries of the database (excel), and integration with wire-line log profiles.

— Maps and digital databases from well locations will also be provided in an ArcGIS project or transferrable GIS datatype.

Detailed requirements.

The goal of this study is to create a biostratigraphic, and palaeogeographic framework for the offshore realm of Ireland to assist in the correlation of stratigraphic intervals and interpretation of seismic. Specific requirements of this study include:

— Synthesis of past data collection and gap analysis will require the review of existing biostratigraphy reports from various stratigraphic levels from approximately 140 wells. Review of existing data will be summarized in a digital format (excel database) and interpreted for consistency. Gap analysis will additionally show maps per system (Paleogene, Cretaceous, Jurassic, Carboniferous, etc.), illustrating existing coverage at each well location and areas for future analysis. Locations of wells with existing top-to-bottom biostratigraphic data will be highlighted. Contingent top-to-bottom biostratigraphic analysis of 10 additional 'key' wells may be proposed by the Tenderer to fill in the gaps. This data gathering phase will also include a review of the palaeogeographic and provenance data from regional studies (e.g., approximately 20 operator reports), and other relevant technical publications, well reports, PIP reports, field studies, outcrop studies, DSDP/ODP wells, university theses, and other available material. Regions for clarity on palaeoenvironment for source/reservoir/seal intervals and play fairway mapping will be presented once the gap analysis is complete.

— Identification of the distribution of fossil organisms and their relation back to the geological time scale. The project requires specialists in different fossil groups to integrate their knowledge to develop unified biostratigraphic schemes, accurately calibrated by geochronological information. Stratigraphic zonation will be summarized for each well in a consistent format, and include tabulated depths of proposed tops, microzones and palynozones. If possible, quantitative assemblages will be illustrated on numerical abundance charts (existing and/or new datasets), and the description of the interval top and bottom will be provided (last occurrence of a species, for example) with confidence indicators.

— An appendix may be provided describing key taxa or assemblages of fossils/spores defining specific intervals for future reference. This may be supplemented by any defining characteristics or images (microscopic, ESEM/SEM, can be extracted from old reports).

— Biostratigraphic data will be integrated with vertical well profiles containing lithology, palaeoenvironment interpretation and wire-line log data. In addition, the applicant will identify unconformities, regional hiatuses, or faulted-out sections and where possible, constraints on

timing of tectonic events. All units are to be in metres. If original files are in feet, these are to be converted to metres, with the original units to be included in logs/interpretations for ease of reference back to the original well files.

— Integration of seismic data. Type sections of 30 representative wells (from existing database or new analysis) will be accompanied by seismic sections to assist in regional correlations. Wells with VSPs should be considered where possible to aide with time-depth assumptions.

— The Tenderer may recommend suitable zones for radiometric dating of volcanics to constrain barren zones, if relevant.

— Maps across the basins will be generated using existing and new data, showing palaeodepositional environments, palaeobathymetry, probable marine circulation patterns, in order to describe the evolution of the region. Maps may also show the spatial distribution of fossil organisms if appropriate to support interpretation. Interpretations would ideally take into account likely regions of provenance, sedimentation directions and rates across coeval units.

— A description of unsolved uncertainty in terms of palaeogeographic environments, connected fairways or stratigraphic dating. Recommendations for addressing uncertainty in future data collection.

— A description, or series of maps illustrating the implications for hydrocarbon exploration in terms of source rock, reservoir and seal facies (e.g. extent of enhanced source rock richness, likely location of isolated anoxic basins etc.).

— Comparisons will be drawn between this study and previous studies conducted offshore Newfoundland-Labrador with specific focus on palaeogeographic and palaeoclimatic linkages between the two regions. Maps will be presented illustrating the similarities between wells or basins.

— The revised chrono-lithostratigraphic framework will be presented as: (1) a diagram with vertical columns representing coeval formations across each Irish basin and (2) an extended diagram to include equivalent biostratigraphic framework in the neighbouring hydrocarbon provinces of Canada, UK and Norway.

— Chronostratigraphy to be interpreted and calibrated following Gradstein, 2004.

Interpretations of age data, sequence boundaries and wireline logs will be picked sensu Hardenbol et al., 1998.

Methodology.

The bidder must clearly indicate proposed methodologies and any relevant previous experience that will contribute to the above analysis. If any elements of work are to be outsourced, please specify the proposed subcontractor(s) and include a summary of their expertise and relevant experience.

Deliverables.

The Tenderer will be required to:

— Conduct an in-depth review of the existing biostratigraphic data coverage and a gap analysis of vertical and lateral data coverage. A proposed work programme detailing zones for additional sampling will be presented during an interim meeting with the client.

— Design and conduct a contingent analytical programme for 10 wells involving 'top-to-bottom' dating of sample material (cuttings, core, existing slides currently held in Dublin, Ireland) considered to be essential for further understanding of the study area(s). This analytical work may be subcontracted to an approved laboratory/contractor. This element of analysis will be confirmed at the interim meeting after the gap analysis is completed.

— Demonstrate the seismo-stratigraphic correlation of all the 'key' wells in each basin.

Seismic data will be provided subject to terms and conditions. Two possible surveys are suggested PW93 and PAD13/PAD14 (post tender award the successful Tenderer may visit the PAD Data Room to review data and select the optimum seismic sections for well ties, if

appropriate).

— Provide quantitative (where possible) biostratigraphic databases containing tabulation of existing, and/or new raw data from analysis, and numerical abundance charts. Databases may be delivered as excel sheets, pdfs and in the original software project files used to compile data (such as Stratabugs or equivalent).

— Provide a final report with individual well results, and well correlations across the Irish basins. The report will provide the details on the new integrated interpretation of palaeogeographic environments, and the implications for source rock, reservoir presence and seal fairways that may impact hydrocarbon exploration. The report should include details on methodology, assumptions and uncertainties in the interpretations and key areas for future analysis to resolve uncertainty. Tops will additionally be summarized in a excel database.

— Create an illustrative Atlas of the biostratigraphy and paleogeography of Irish offshore domains to communicate the compilation of the new research. This Atlas will contain key type-wells for each basin (or cross sections if more appropriate) that can be easily referenced for correlation purposes. The Atlas should be available in both hard copy (A3 size) and digital format (pdf). Pages and images will be also provided in high-resolution format, and original editable format.

— An ArcGIS format database (.mxd format or similar) containing all analyses and interpretation derived from this study. This may include, but is not limited to palaeogeographic maps, aerially extent of assemblages, wells with attribute data (such as interpreted chronolithological interpretation, tops, and/or assemblage abundances. No wire-line log data is to be included).

— PIPCo RSG Ltd retains all ownership and copyrights over deliverables produced in this study.

— At least two visits to Dublin during the project are required. An interim meeting following gap analysis and a visit to present final results. The Tenderer will be expected to present an oral paper and at least 1 poster at both Atlantic Ireland 2016 and Atlantic Ireland 2017.

The contractor may also add to, or revise, the scope of the above recommended work flow during discussion of the tender process in order to improve the quality and impact of the final product.

II.2.2. Information about options

Options: no

II.2.3. Information about renewals

This contract is subject to renewal: no

II.3. Duration of the contract or time limit for completion

Duration in months: 012 (from the award of the contract)

Section III: Legal, economic, financial and technical information

III.1. Conditions related to the contract

III.1.1. Deposits and guarantees required

N/A.

III.1.2. Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them

N/A.

III.1.3.

Legal form to be taken by the group of economic operators to whom the contract is to be awarded

In the event of a consortium submitting an acceptable offer, the contract will be awarded by PIPCo RSG Ltd to one contractor who acts as the agreed prime contractor. The prime contractor is responsible for the delivery of all services provided for under the terms of the contract and shall assume all the duties, responsibilities and costs associated with the position of prime contractor.

III.1.4. Contract performance conditions

The performance of the contract is subject to particular conditions: no

III.2. Conditions for participation

III.2.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions: Tenders must satisfy all the following qualification criteria to be included in this competition:

- 1) Tenders must be submitted before the tender deadline.
- 2) None of the circumstances in Article 45, EU Directive 2004/18/EC of the European Parliament and of the Council of 31.3.2004 apply (co-ordinating procedures for award of public works contract, public supply contracts and public service contracts).
- 3) Tender documentation is complete, as specified in the Format of Tender and Schedule of Cost Sections in this document.
- 4) The Tenderer is not economically, legally, commercially or financially related to one or more other Tenderers in a way that would impede in any way the incentive that the Tenderer should have to compete to be a Service Provider in the competition. For the avoidance of doubt, in the case where the Tenderer is a consortium, partnership, a joint venture or a group of any kind, all members of the partnership, consortium, joint venture or group must make all certifications required herein.

III.2.2. Economic and financial ability

III.2.3. Technical and professional ability

List and brief description of conditions:

The project team must have the qualifications and relevant experience to address the above scope of work, including familiarity with stratigraphy, palynology and biostratigraphy of NW Europe, Ireland and eastern Canada. Tenders will be evaluated by the Evaluation Team composed of members of the Steering Group together, possibly with advisors, consultants, and such other persons engaged or nominated by PIPCo RSG Ltd for the purposes of this Invitation to Tender process.

Minimum level(s) of standards possibly required:

Format of tender.

The tender must provide information on each of the following items:

- 1) A short Capability Statement demonstrating competence and appropriate experience relevant to this tender. The Capability Statement should contain a maximum of 2 examples of relevant work for which the proposer and/or their personnel have been directly involved.
- 2) The approach proposed to meet the requirements of this Invitation to Tender (see Section 2.2).
- 3) A detailed schedule of the programme of work including proposed start date and specific review milestones which will enable the Steering Group to monitor overall progress and a breakdown of resources.
- 4) An overview of the specific personnel proposed including lead researcher and contact

person, together with current CVs, which should clearly specify relevant qualifications, skills and experience.

5) A schedule of daily rates, supervisor costs, shipping costs and analytical costs (see section on costs below).

6) Valid tax clearance certificate.

7) Confirmation of acceptance by the Tenderer and any third parties of the conditions of tender described in Appendix A for this Invitation to Tender.

8) Confirmation that none of the circumstances listed in Appendix B of this Invitation to Tender apply to the Tenderer.

9) Any additional information the Tenderer feels is relevant in support of their application.

Schedule of costs.

PIPCo RSG Ltd will award the contract on the basis of a fixed price contract. As such the tenders should state a total fixed cost for providing all the required services (including a day rate). Submitted tenders should confirm that quoted costs are valid for 90 days after the closing date for receipt of tenders. Specifically tenders should state:

1) The fixed cost of carrying out all the work required to satisfy all the specifications. This sum shall cover all the costs including:

a. The daily rate and number of days being charged in respect of each individual involved in the project;

b. A lump sum estimate for gap analysis and synthesis of existing database (assuming digital database capture of scanned reports covering 140 wells).

c. A lump sum estimate for seismo-stratigraphic work and the use of seismic data to tie the 'key' wells in each basin.

d. A detailed schedule of costs for preparation and new analytical work on a per sample basis, and on a per well basis. Estimates of shipping costs assuming sample analysis of 10 wells, supervision costs, any other data collection costs. A final lump sum estimate for all the preparation and analytical work.

e. Lump sum estimate for remaining items listed in Detailed Requirements and Deliverables.

Lump sum estimate for production of an Atlas (A3 size, 2 hard copies).

f. Any allowance which the tenderer wishes to make for expenses must be quantified and included within the fixed price. Please note that travel costs are not reimbursable and must be included in the fixed price.

2) All costs must be in Euro.

3) The costs shall be exclusive of all taxes including VAT. VAT and other appropriate taxes shall be quoted separately where appropriate and at the appropriate rate. Where VAT is not applicable this should be explicitly stated.

4) Un-quantified costs will not be accepted.

5) The tenderer should indicate clearly what discounts are applicable to PIPCo RSG Ltd:

a. Early payment discounts;

b. Volume discount to reflect the expanse of the study;

c. Government organisations;

d. Any other discounts.

PIPCo RSG Ltd. will not be responsible for any errors on the calculation of the costs provided in response to this Invitation to Tender. It is the responsibility of the Tenderers to ensure that the costs quoted are correct and properly calculated.

Tendering procedure.

Queries arising from this tender document should be submitted by e-mail to: [mdavies@pip.](mailto:mdavies@pip.ie)

[ie](mailto:mdavies@pip.ie) The deadline for receipt of queries is in Section 1.4). Queries received after this date will not be answered. All responses to queries raised will be circulated to all Tenderers. PIPCo RSG Ltd accepts no responsibility for the successful delivery of e-mail. No other

communication may be entered into with any employee of PIPCo RSG Ltd in relation to this invitation to tender during the tendering period. Deadline for tenders is stated in Section 1.4).

During the evaluation period clarification may be sought in writing to the Tenderers. Response to requests for clarification may not materially change any of the elements of the tenders submitted. No unsolicited communications from Tenderers will be entertained during the evaluation period. A number of the most competitive Tenderers may be invited to make presentations on their proposals for the purpose of elaboration, clarification and aiding understanding. Tenderers will be required to bear their own costs in respect to any such presentations or demonstrations.

III.2.4. Information about reserved contracts

III.3. Conditions specific to services contracts

III.3.1. Information about a particular profession

Execution of the service is reserved to a particular profession: no

III.3.2. Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract: yes

Section IV: Procedure

IV.1. Type of procedure

IV.1.1. Type of procedure

Open

IV.1.2. Information about the limits on the number of candidates to be invited

IV.1.3. Information about reduction of the number of solutions or tenders during negotiation or dialogue

IV.2. Award criteria

IV.2.1. Award criteria

The most economically advantageous tender in terms of Criteria below

1. Understanding of the requirements. Weighting 10
2. Examples and descriptions of past integrated industry standard projects. Weighting 20
3. Qualifications and relevant experience of the project team to address above scope, including familiarity with stratigraphy, palynology and biostratigraphy of NW Europe, Ireland and eastern Canada. Weighting 30
4. Quality of the tender proposal and methodology. Weighting 20
5. Cost. Weighting 20

IV.2.2. Information about electronic auction

An electronic auction will be used: no

IV.3. Administrative information

IV.3.1. File reference number attributed by the contracting authority

ISPSG 160308

IV.3.2. Previous publication concerning this procedure

no

IV.3.3. Conditions for obtaining specifications and additional documents or descriptive document

Time limit for receipt of requests for documents or for accessing documents: 21.4.2016 - 22:00
Payable documents: no

IV.3.4. Time limit for receipt of tenders or requests to participate

3.5.2016 - 12:00

IV.3.5. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.3.6. Languages in which tenders or requests to participate may be submitted

English.

IV.3.7. Minimum time frame during which the tenderer must maintain the tender

Duration in days: 090 (from the date stated for receipt of tender)

IV.3.8. Conditions for opening of tenders

Persons authorised to be present at the opening of tenders: no

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: PIPCo RSG Ltd.
Postal address: 7 Dundrum Business Park, Windy Arbour
Town: Dublin
Postal code: D14 N2Y7
Country: Ireland
E-mail: noneill@pip.ie
Telephone: +353 12964667
Fax: +353 12964676
Internet address: <http://www.pip.ie>

VI.4.2. Review procedure

VI.4.3. Service from which information about the review procedure may be obtained

VI.5. Date of dispatch of this notice

8.3.2016