

Norway-Trondheim: Geological, geophysical and other scientific prospecting services
OJ S 126/2016 02/07/2016
Contract award notice
Services

Directive 2004/18/EC

Section I: Contracting authority

I.1. Name and addresses

Official name: Geological Survey of Norway (NGU)

National registration number: 970 188 290

Postal address: Postboks 6315 Sluppen

Town: Trondheim

Postal code: 7491

Country: Norway

Contact person: Marine Geology

For the attention of: Dr Jochen Knies

E-mail: ngu@ngu.no

Telephone: +47 73904000

Fax: +47 73921620

Internet address(es):

General address of the contracting authority: <http://www.ngu.no>

Address of the buyer profile: <https://kgv.doffin.no/ctm/Supplier/CompanyInformation/Index/1709>

Electronic access to information: <https://kgv.doffin.no/ctm/Supplier/Documents/Folder/143486>

I.2. Type of the contracting authority

National or federal agency/office

I.3. Main activity

Other: geological and environmental 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

Framework agreement for consultancy services on migration modelling of hydrocarbons within the project Petromaks 2 "NORCRUST".

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

Services

Service category No 27: Other services

Main site or place of performance: Trondheim.

NUTS code NO061 Sør-Trøndelag

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

The procurement involves the establishment of a framework agreement

II.1.4. Short description of the contract or purchase(s)

Geological Survey of Norway (NGU) invites bids for a Framework agreement for consultancy services on Migration modelling of hydrocarbons within the project Petromaks 2 “NORCRUST”.

A. Background.

Petromaks 2 “NORCRUST” is a collaborative project lead by the Geological Survey of Norway (NGU). Partners are “CAGE — Center for Arctic Gas Hydrate, Environment, and Climate” at the University of Tromsø, Statoil ASA, Lundin Norway AS, and ENI Norge and is funded by the Research Council of Norway. “NORCRUST” aims at supporting the industry in search for petroleum prospects on the Norwegian shelf by integrating geological and geochemical data from hydrocarbon seepage sites at the seabed with potential underlying hydrocarbon reservoirs. This requires knowledge of timing of hydrocarbon migration to the seafloor, ability to distinguish hydrocarbon origin from shallow biogenic and deep thermogenic sources, and reliable assessment of the temperature and depth of hydrocarbon formation.

For the hydrocarbon migration modelling task, we aim to integrate active leakage zones at the seafloor west of Svalbard and in the northern Barents Sea with potential source rocks concepts through migration modelling for improved spatial and temporal constraints on migration, spill and trap filling routes. We aim for a petroleum system analysis software package that numerically models and describes processes of hydrocarbon generation, migration, trapping and leakage to the seafloor (plus methanhydrate balance) within sedimentary basin over geological times in a geo-framework derived from seismic and well data and builds upon a probabilistic Monte Carlo type modelling approach.

B. Assignment Description.

— Design and run a Petroleum System Analysis (PSA) model to quantify the amount, timing and location of methane seepage history at the seafloor in the Norwegian/Barents Sea derived from thermogenic sources.

— Design and run PSA model exclusively build on Monte Carlo modelling strategies to quantify input and out uncertainties.

— Design a PSA model which considers seafloor seepage tapping multiple methane pathway options such as leakage from traps / vertical migration / faults leakage.

— Account for geometrically correct fault planes (3D features) — SGR dynamically adjusted over time.

— Account for incorporation of high resolution seismic (many layers — fine stratigraphy at <10m resolution) and allow for high-resolution stratigraphy (many sublayers).

— Design a PSA model that accounts for dynamic behaviour of methane hydrate stability zone over time.

— Account for methane hydrates in hydrocarbons (HC) bulk mass balance (incl. loss from model via hydrate zone destabilisation).

— Design a PSA model that links new 3D P-cable seismic data with an existing 2D line model into a joint model across the Vesnesa Ridge, northwestern Svalbard.

Design PSA model which are calibrated against.

— Classical PSA parameter (thermal, HC columns etc.).

— New PSA parameters (methane leakage rates, saturation of pore space with methane).

C. Requirements for bidders.

— Demonstrated competence in PSA modelling including methane leakage to seafloor in the Norwegian Barents Sea.

— Dokumented experience building and employing high-resolution stratigraphic lithology concepts (based on well data) within PSA models.

— Demonstrated experience in building and working with PSA models using faults with realistic geological geometries.

— Demonstrated experience in stochastic PSA modelling and stochastic result analysis.

The Geological Survey of Norway will evaluate and compare only the Price quoted of those Bids found to be substantially responsive. Detailed evaluation shall be conducted on the basis of:

- Quality / experience in migration modeling of hydrocarbons from the source to leakage zone on the seabed.
- Quoted hourly rates.
- Assignment execution plan and references.

The bid shall be submitted in the following format:

- Original Bid on paper, dated and signed, in a sealed envelope and clearly marked “Framework agreement for consultancy services on migration modelling of hydrocarbons within the project Petromaks 2 “NORCRUST“.
- 1 copy in PDF format on CD or memory stick.
- 1 censored copy in PDF format on CD or memory stick.

Bidder shall prepare an original offer and send it in a sealed envelope. The envelope should then be placed in neutral envelope and sealed. The neutral sealed envelope shall be marked: “Bid: Framework agreement for consultancy services on migration modelling of hydrocarbons within the project Petromaks 2 “NORCRUST” and delivered within the 27.5.2016 to:

Geological Survey of Norway (NGU)(at the reception),
Eirikssons vei 39, Lade,
7040 Trondheim, Norway.

Bids can optionally be sent by regular mail to:

Geological Survey of Norway (NGU),
P.O.Box 6315 Sluppen,
7491 Trondheim,
Norway.

The Bidder holds the risk if the tender does not arrive in time at NGU in Leiv Eirikssons vei 39. Valid tax certificate and HSE declaration shall accompany the tender.

NGU reserves the right to reject the entire, parts of the bid or to enter into negotiation with a selection of the most relevant suppliers. NGU reserves the right to go ahead with new request for bids depending on the size of received quotations, quantity and available budget.

Electronic Invoice:

NGU requires that the suppliers of goods and services have the capacity to send their invoices and credit notes electronically in accordance with the standard “Electronic Trade Format” (Elektronisk handelsformat-EHF).

NGU uses the regulation ‘General purchasing terms for government purchases of merchandise (AIS 89).

Any question regarding this bidding process should be addresses to Project Leader Dr. Jochen Knies, Phone +47 73 90 4116, E-Mail: jochen.knies@ngu.no with a copy to ngu@ngu.no

Bidders are encouraged to submit a censored version of the bid that may be forwarded to other bidders (on request) without damaging any sensitive business information.

Bidding document is in Norwegian language. Interested parties are expected to be able to read instruction and specifications. Insufficient or erroneous bid is the bidder’s own responsibility and it will be rejected.

II.1.5. CPV code(s)

71351000 Geological, geophysical and other scientific prospecting services

II.1.6. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

II.2. Total value of the contract/lot

II.2.1. Total value of the contract/lot

Section IV: Procedure

IV.1. Type of procedure

IV.1.1. Type of procedure

Negotiated with a call for competition

IV.2. Award criteria

IV.2.1. Award criteria

The most economically advantageous tender in terms of

1. Quality / experience in migration modelling of hydrocarbons from the source to leakage zone on the seabed. Weighting 50
2. Quoted hourly rate. Weighting 40
3. Assignment methodology and references. Weighting 10

IV.2.2. Information about electronic auction

IV.3. Administrative information

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

16/00165

IV.3.2. Previous publication concerning this procedure

Contract notice

Notice number in the OJ S: [2016/S 085-151466](#) of 30.4.2016

Section V: Award of contract

Contract No: 1

Lot No: 1

- Lot title: Framework agreement for consultancy services on migration modelling of hydrocarbons within the project Petromaks 2 'NORCRUST'

V.1. Date of conclusion of the contract

21.6.2016

V.2. Information about tenders

Number of tenders received: 1

V.3. Name and address of the contractor

Official name: Migris AS

National registration number: 888400532

Postal address: Havnegata 9, D4

Town: Trondheim

Postal code: 7010

Country: Norway

E-mail: info@migris.no

Telephone: +47 92640396

Internet address: <http://migris.no/>

V.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot:

Value: 2 750 000 NOK

excluding VAT

V.5. Information about subcontracting

The contract is likely to be subcontracted: no

Section VI: Complementary information

VI.1. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:

no

VI.2. Additional information

VI.3. Procedures for review

VI.3.1. Review body

VI.3.2. Review procedure

VI.3.3. Service from which information about the review procedure may be obtained

VI.4. Date of dispatch of this notice

29.6.2016