



**NIMOS**

Date: 7 June 2024

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## **Terms of Reference for the Review of the Environmental and Social Impact Statement for the Offshore Block 58 Development in Suriname**

### **1. Background**

NIMOS, the Nationaal Instituut voor Milieu en Ontwikkeling in Suriname (National Institute for Environment and Development in Suriname) was established by Presidential Decree in March 1998. As the technical institute concerning environmental matters, it advises Ministries and others regarding environmental implications of projects and other activities.

The project proponent proposes to carry out oil field development activities within Block 58, whereby the primary objectives are the drilling of 32 wells, and installation of seabed flowlines that transport the crude oil to the anchored Floating Production Storage Offloading (FPSO), from where crude oil will be transferred to oil tankers every five days for onward transport to refineries.

### **2. Review of the Environmental and Social Impact Assessment Reports**

For the above mentioned oil field development activities an Environmental and Social Impact Assessment (ESIA) is conducted. As NIMOS is responsible to advise the government regarding environmental implications of projects, it has to review the Environmental and Social Impact Statement (ESIS). For this review NIMOS will need external expertise in the following areas:

- Environmental and Social Impact Assessment
- Drill Cuttings and Effluent Discharge Modelling
- Oil Spill Modelling
- Air Quality and Climate (GHG)
- Underwater Noise Modelling
- Environmental Permitting for Offshore Oil and Gas Production

### **3. Objective**

The review is needed to assess the technical quality, accuracy and completeness of the Environmental and Social Impact Statement for this Project. By doing the review it must be assured that the Environmental and Social Impact Statement presents all the relevant information necessary for a well-considered decision-making regarding this project.



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#### **4. Tasks**

The external reviewers will assist The Office of Environmental and Social Assessment to finalize the review of the Environmental and Social Impact Statement for this project. The setup of the review is as follows:

- Individual review of the Draft ESIS and the related Specialist Studies (by Consultant);
- Reporting (by Consultant);
- Submission to the project proponent of the review report of the Draft ESIS and the related Specialist Studies (by NIMOS);
- Clarification sessions between the external review team and the ESIA Consultant Team (if necessary);
- Review of the Final ESIS and reporting (by Consultant); and
- Advice to the Government of Suriname (by NIMOS).

#### **5. Qualifications and Duties of the External Reviewers**

##### **Expert on Environmental and Social Impact Assessment**

- a. As a minimum, a Master's Degree in Environmental Sciences, Earth Sciences, Oceanography or related fields
- b. A minimum of ten years' experience in conducting and reviewing Environmental and Social Impact Assessments for Offshore Oil and Gas Production Projects
- c. Language capability: fluently speaks, reads and writes English

The duties of the expert on Environmental and Social Impact Assessment are:

- To assess the technical quality, accuracy and completeness of the Environmental and Social Impact Study with regard to the described impacts, mitigation measures, and management and monitoring plans by:
  - i. Reviewing the Draft Environmental and Social Impact Study (including Management Plans), explaining the strengths and weaknesses of the study, pointing out incongruities or gaps in information, explaining the bases for alternative scientific judgments, and suggesting strategies for handling the technical issues;
  - ii. Make recommendations on how the described impacts and mitigation measures in the Draft ESIA report should be modified to yield more accurate/definitive results (if and where required);
- Advising NIMOS on the described impacts and mitigation measures in the Final ESIA Report (including Management Plans)
- To list recommendations based on the reviewed information and expert knowledge



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### **Expert on Drill Cuttings and Effluent Discharge Modelling**

- a. As a minimum, a Master's Degree in Oceanography with emphasis on ocean currents, waves and geophysical fluid dynamics, Environmental Engineering, Marine Sciences or related disciplines
- b. A minimum of ten years' experience in related field and expert experience in modeling programs concerning the Offshore Oil Industry specifically deep water
- c. Experience and knowledge of Environmental and Social Impact Assessment (ESIA) is an asset
- d. Language capability: fluently speaks, reads and writes English

The duties of the expert on Drill Cuttings and Effluent Discharge Modelling are:

- To assess the technical quality, accuracy and completeness of the Drill Cuttings and Effluent Discharge Modelling Specialist Study with regard to the described impacts regarding drilling discharges, their mitigation, management and monitoring measures by:
  - i. Reviewing the Drill Cuttings and Effluent Discharge Modelling Specialist Study, explaining the strengths and weaknesses of the study, pointing out incongruities or gaps in, among others, methodology and information, explaining the bases for alternative scientific judgments, and suggesting strategies for handling the technical issues;
  - ii. Make recommendations on how the study and the associated information in the Draft ESIA report should be modified to yield more accurate/definitive results (if and where required); and
  - iii. Reviewing the Draft ESIA Reports, where related to Drill Cuttings and Effluent Discharge Modelling Assessment and Mitigation.
- Advising NIMOS on the Final ESIA Reports, where related to Drill Cuttings and Effluent Discharge Modelling Assessment and Mitigation, especially regarding managing any significant negative aspects and impacts of the project on the affected sensitive receptors; and
- To list recommendations based on the reviewed information and expert knowledge.

### **Expert on Oil Spill Modelling**

- a. As a minimum, a Master's Degree in Oceanography with emphasis on ocean currents, waves and geophysical fluid dynamics, Environmental Engineering, Marine Sciences or related disciplines
- b. A minimum of ten years' experience regarding Oil Spill Modelling for Offshore Oil Industry specifically deep water
- c. Experience and knowledge of Environmental and Social Impact Assessment (ESIA) is an asset



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d. Language capability: fluently speaks, reads and writes English

The duties of the expert on Oil Spill Modelling are:

- To assess the technical quality, accuracy and completeness of the Oil Spill Modelling Specialist Study with regard to the described impacts regarding Oil Spill Modelling, their mitigation, management and monitoring measures, by:
  - i. Reviewing the Oil Spill Modelling Specialist Study, explaining the strengths and weaknesses of the study, pointing out incongruities or gaps in information, explaining the bases for alternative scientific judgments, and suggesting strategies for handling the technical issues;
  - ii. Make recommendations on how the study and the associated information in the Draft ESIA report should be modified to yield more accurate/definitive results (if and where required);
  - iii. Reviewing the Draft ESIA Reports, where related to Oil Spill Modelling Assessment and Mitigation;
- Advising NIMOS on the Final ESIA Reports, where related to Oil Spill Modelling Impact Assessment and Mitigation
- To list recommendations based on the reviewed information and expert knowledge

#### **Expert on Air Quality and Climate (GHG)**

- a. As a minimum, a Master's Degree in Air quality solutions, Meteorology or related disciplines
- b. A minimum of ten years' experience regarding air quality and climate change assessment and mitigation
- c. Experience and knowledge of Environmental and Social Impact Assessment (ESIA) is an asset
- d. Language capability: fluently speaks, reads and writes English

The duties of the expert on Air Quality and Climate (GHG) are:

- To assess the technical quality, accuracy and completeness of the Draft ESIA and its specialists and management studies with regard to the described impacts regarding Air Quality and Climate (GHG) their mitigation, management and monitoring measures, by:
  - i. Reviewing the above mentioned studies, explaining the strengths and weaknesses of the study, pointing out incongruities or gaps in information, explaining the bases for alternative scientific judgments, and suggesting strategies for handling the technical issues;
  - ii. Make recommendations on how the studies should be modified to yield more accurate/definitive results (if and where required);



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- iii. Reviewing the Draft ESIA Reports and its specialist and management studies, where related to:
  - 1. dispersion modelling of pollutant concentrations within atmospheric emissions from the project installations;
  - 2. GHGs and Climate, with emphasis climate change risk assessment and energy consumption and savings assessment;
- Advising NIMOS on the Final ESIA Reports, where related to the Air Quality and GHG sections and specialist studies;
- To list recommendations based on the reviewed information and expert knowledge.

#### **Expert on Underwater Noise Modelling**

- a. As a minimum, a Master's Degree in Sound and Vibration Studies or related disciplines
- b. A minimum of ten years' experience regarding Noise Modelling for Offshore Oil Industry specifically Underwater Noise
- c. Experience and knowledge of Environmental and Social Impact Assessment (ESIA) is an asset
- d. Language capability: fluently speaks, reads and writes English

The duties of the expert on Oil Spill Modelling are:

- To assess the technical quality, accuracy and completeness of the Underwater Noise Modelling Specialist Study with regard to the described impacts regarding Oil Spill Modelling, their mitigation, management and monitoring measures, by:
  - i. Reviewing the Underwater Noise Modelling Specialist Study, explaining the strengths and weaknesses of the study, pointing out incongruities or gaps in information, explaining the bases for alternative scientific judgments, and suggesting strategies for handling the technical issues;
  - ii. Make recommendations on how the study and the associated information in the Draft ESIA report should be modified to yield more accurate/definitive results (if and where required);
  - iii. Reviewing the Draft ESIA Reports, where related to Underwater Noise Modelling Assessment and Mitigation;
- Advising NIMOS on the Final ESIA Reports, where related to Underwater Noise Modelling Impact Assessment and Mitigation
- To list recommendations based on the reviewed information and expert knowledge



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### **Expert on Environmental Permitting for Offshore Oil and Gas Production**

- a. As a minimum, a Bachelor's Degree in Environmental Law, Environmental Management or related disciplines
- b. A minimum of ten years' experience in drafting and/or advising on Environmental Permits for Offshore Oil and Gas Production Projects
- c. Experience and knowledge of Environmental and Social Impact Assessment (ESIA) is an asset
- d. Language capability: fluently speaks, reads and writes English

The duties of the expert on Environmental Permitting for Offshore Oil and Gas Production are:

- Advise NIMOS on the possible types of Environmental Permits which can be used for Offshore Oil and Gas Production
- Review the Draft and Final ESIA Reports to determine if all necessary information is included in order to draft an Environmental Permit
- Advise NIMOS on which pollution sources with significant environmental impact must obtain (an) environmental permit(s) as a precondition to their operation
- Advise NIMOS on what else to include in an Environmental Permit for the activity based on the results of the Draft and Final ESIA Reports

### **6. Deliverables**

The estimated time allocation for the total external review including all reporting is a **maximum of 300 hours**. The review of the studies will **start in July 2024** and **terminates in December 2024** (or later based on the deliverables by the project proponent).

**The Review of, respectively, the Draft and Final ESIA documents should be submitted to NIMOS not later than four (4) weeks (for the Draft ESIA) and two (2) weeks (for the Final ESIA) after receipt of the documents from NIMOS.**

### **7. Application Requirements**

The applicant for the consultancy is required to submit the following documents:

- CVs of the experts as per Annex I for CV format; and
- a financial and technical proposal (including the workplan) as per Annex II Proposal format which describes how the consultant will implement the scope of work and deliverables.



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## 8. Submission

All Bids must be submitted to the email address: [esa@nimos.org](mailto:esa@nimos.org), with the subject reading: **Application for the Expert Review of the Environmental and Social Impact Statement for the Offshore Block 58 Development in Suriname**

The Approved Scoping Report associated with the ESIA for the Block 58 Development is available as background information document and can be requested through [esa@nimos.org](mailto:esa@nimos.org)

The Deadline for submission of Bids is **21 June 2024**. Any Bids that arrive after the deadline for submission shall not be considered.

## 9. Evaluation

Bids will be evaluated taking into consideration the following factors:

	Criteria	Score
I	Qualifications and competence of the consultant/key-staff for Assignment <ul style="list-style-type: none"><li>• Education</li><li>• Duration of prior experience in conducting review of environmental assessments or similar studies</li><li>• Specific and general expertise in the required area in terms of years projects completed</li><li>• Experience in countries with similar conditions and economic background as Suriname</li><li>• Fluency in English</li></ul>	60
II	Adequacy of the proposed work plan and methodology in responding to the TOR <ul style="list-style-type: none"><li>• Adequacy of the proposed work plan</li><li>• Compatibility of the technical solution with the terms of reference</li></ul>	40
	Points	100

Bids/quotations can be submitted as a consultancy or consortium team.

Bids from following consultants will not be accepted:

- Currently involved in producing an Environmental Impact Statement in Suriname;
- Currently conducting work for Total Energies and/or RSK.



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## Annex I CV Format

CURRICULUM VITAE (CV)

<b>Proposed Position</b>			
Name of Firm/consultant			
Date of Birth			
Nationality			
Member in Professional Societies			
<b>Key Qualifications</b>			
<b>Education</b>			
<i>Institution:</i>			
<i>Date:</i>			
<i>Degree or Diploma obtained:</i>			
<i>Institution:</i>			
<i>Date:</i>			
<i>Degree or Diploma obtained:</i>			
<b>Employment Record regarding Environmental Assessment (and other requested expertise)</b>			
<i>From (year):</i>			
<i>Location:</i>			
<i>Employer:</i>			
<i>Positions held:</i>			
<i>Description:</i>			
<i>From (year):</i>			
<i>Location:</i>			
<i>Employer:</i>			
<i>Positions held:</i>			
<i>Description:</i>			
<b>Language</b>	<b>Reading</b>	<b>Speaking</b>	<b>Writing</b>





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## Annex II Proposal Format

<b>Adequacy of the proposed work plan and methodology in responding to the TOR</b>			
<i>Project team and experience</i>			
<i>Workplan</i>			
<i>Project schedule</i>			
<i>Project cost</i>			
<b>Personnel</b>	<b>Specialist name</b>	<b>Specialist name</b>	<b>Total cost</b>
<b>Hourly rate USD</b>			
<b>Task 1 name task</b>			
<b>Task 2 ....</b>			
<b>.....</b>			
<b>Total hours</b>			
<b>Total Fees</b>			
<b>USD Total Cost</b>			