

Invitation for Pre-Qualification  
For Provision of Analysis and Evaluation Services for Methane  
Hydrate Production Process (Sand Management)  
(No. JMH-21-032)

Japan Methane Hydrate Operating Co., Ltd.

6th July 2022

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## **1. OUTLINE OF THE WORK**

**1.1** Japan Methane Hydrate Operating Co., Ltd. (JMH) is a member of the MH21-S R&D consortium (MH21-S) having conducted the research and development project for the pore-filling type of methane hydrate to achieve an objective of the Japanese Government's Plan for the Development of Marine Energy and Mineral Resources under the supervision and finance of the Ministry of Economy, Trade and Industry (METI).

JMH, being tasked with optimizing the design of subsea production system for future mid-term methane hydrate production test, requires the expertise of an experienced contractor to provide the following analysis and evaluation services:

- (i) Review a concept design of the subsea production system and define the requirements for sand removal equipment;
- (ii) Research for technologies for sand collection from subsea pipeline and subsea separators and for sand detection;
- (iii) Verification of performance of selected sand removal equipment by CFD (Computational Fluid Dynamics) simulation; and
- (iv) Estimation of CAPEX and evaluation of operability of selected sand removal equipment.

### **1.2 Term**

From 1st August 2022 to 28th December 2022

### **1.3 Budget**

Total budget is equal to or below JPY 14,000,000. This is NOT the contract price and is the maximum limit of the budget. The contract price shall NOT exceed the above-mentioned budget and shall be in JPY. Contractor may receive payment of the contract price in other currency equivalent to the contract price in JPY.

## **2. INVITATION**

**2.1** JMH invites entities which are able to provide the services outlined in Section 1 above. Entities which intend to participate are requested to submit the documents specified in Section 3 for pre-qualification by the date and time specified in Section 4.

**2.2** JMH will invite the pre-qualified entities to submit tender proposals in July 2022.

## **3. SUBMISSION FOR PRE-QUALIFICATION**

**3.1** A letter to declare intention to participate in the tender process

**3.2** Corporate outline: a brochure and/or other explanatory documents

**3.3** Documents to show the applicant's experiences within ten (10) years and abilities in the following respects:

- (i) Experiences within offshore field development and concept selection with Operators, including technology and business model establishment.

- (ii) Experiences in developing Technical Qualification Process of R&D for system & equipment for subsea oil & gas production.
- (iii) Technical expertise within the following areas: subsea production systems and seabed processing, subsea pipelines/flowlines, riser, installation of subsea structures.
- (iv) Experiences and Technical Knowledge for Methane Hydrate Production.
- (v) Experiences in delivery of the subsea production system for methane hydrate project.
- (vi) Company organization and number of employees for each units/departments to execute same or similar scope of work.
- (vii) Number of experienced employees to execute similar scope conducted by clients and/or operators
- (viii) Number of experienced employees to execute similar scope for subsea production system and seabed processing, marine pipelines, installation of subsea structure

#### **4. CLOSING DATE AND TIME**

Documents specified above in Section 3 shall be delivered to JMH via email to the address: [tender.admin@jmh.co.jp](mailto:tender.admin@jmh.co.jp), not later than 20th July 2022 15:00 hours JST.

#### **5. REQUEST FOR CLARIFICATION**

Questions and requests for clarification on this Invitation to Pre-Qualification shall be submitted in writing via email to the address: [tender.admin@jmh.co.jp](mailto:tender.admin@jmh.co.jp), not later than 13th July 2022 15:00 hours JST.

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