**Evaluation criteria and requirements of the system (Part D of the Bid template for lot 4)**

The high speed containment, decanting and recovery system (hereinafter referred to as “the system”) must consist of an inflatable boom (inflated on board), minimum freeboard 600mm, incorporating a decanting arrangement. The system must also include a recovery arrangement.

The system must include the ancillaries necessary for its autonomous operation on board a vessel (i.e. boom, reel(s), air compressor(s), hydraulic and air hoses, towing arrangement, boom vane, skimmer, pump etc.) thereby the necessary power supply must be foreseen. All suitable components should be hydraulically driven.

The whole system must be designed in such a way that it can be installed, deployed and operated from a vessel fitted with twist-locks for standard ISO container(s) (i.e. 10 or 20 feet) without any specific or customised pre-fitting. The system offered should be easily operated allowing for fast deployment and retrieval. Therefore, a hydraulic storage reel (winder) or alternative system from which deployment and retrieving of the oil boom are carried out it is requested.

The system must be designed for operation and towing in open sea at speeds above 3 knots. The boom should have an adequate free board for operation in open sea. In terms of breaking strength (BS), the towing lines should have a lower value than the connectors (e.g. shackles) and around 75% of the boom value.

When deployed, in recovery mode, the maximum front opening of the oil boom must be over 40 meters, allowing a wide recovery area. The recovery arrangement must have a pump(s) suitable for heavy oil (at least 10,000 cSt.) with a pumping capacity of at least 80 m3 per hour at 10 bar discharge pressure (measuring water).

The complete system, containing all necessary equipment items for its autonomous operation on board a vessel (i.e. boom, reel(s), power unit(s), air compressor(s), hydraulic and air hoses, etc.) must be containerised to facilitate transportation and storage (ISO certified containers).

The systems must be certified to operate in Hazardous Area Zone II according to the ATEX directive (ATEX 94/9/EC) or similar. The system should be easily maintained.

**Please complete the space highlighted in grey in the tables below:**

|  |  |
| --- | --- |
| **Indicate the name of the system that is offered:** |  |

1. **SELECTION CRITERIA**

**Tenders not complying with all the following selection criteria will not be evaluated further:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item N.** | **SELECTION CRITERIA** | **Compliance**  **Yes/No** | **COMMENTS** |
|  | | | |
| 1 | The system offered consist of an inflatable boom (inflated on board), minimum freeboard 600mm, incorporating a decanting arrangement |  |  |
| 2 | The system includes a recovery arrangement |  |  |
| 3 | The system is designed in such a way that it can be installed, deployed and operated from a vessel fitted with twist-locks for standard ISO container(s) (i.e. 10 or 20 feet). |  |  |
| 4 | When deployed, in recovery mode, the maximum front opening of the oil boom is over 40 meters. |  |  |
| 5 | The recovery systemhas a pump(s) suitable for heavy oil (at least 10,000 cSt.) with a pumping capacity of at least 80 m3 per hour at 10 bar discharge pressure (measuring water). |  |  |
| 6 | The system is stored and transported in ISO certified container(s) fitted with twist locks. |  |  |
| 7 | Towing lines breaking strength < connectors. |  |  |
| 8 | The system has a proven record of use in open sea with towing speeds above 3 knots. |  |  |
| 9 | Minimum warranty period of 2 years. |  |  |
| 10 | System includes all necessary ancillaries for its autonomous operation on board a vessel including power-supply and storage reel (winder) or alternative system. |  |  |
| 11 | Certified to operate in Hazardous Area Zone II according to the ATEX directive (ATEX 94/9/EC) or similar |  |  |

1. **QUALITY CRITERIA AND DESCRIPTION OF THE EQUIPMENT**

Bids shall be evaluated in accordance with the Quality Award Criteria (Qi) and their associated weightings (Wi) as described here below:

|  |  |  |
| --- | --- | --- |
|  | **Quality and appropriateness of the system for the EMSA pollution response services based on the information provided below** | **25%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Provide design, materials, total weight and characteristics of 1 complete system including all necessary ancillaries for its autonomous operation on board a vessel (i.e. boom (ballast type and weight, buoyancy to weight ratio, free-board height, tensile strength, weight per meter, abrasion resistance, fabric tear strength, puncture strength, floating system), reel(s), power unit(s), air compressor(s), hydraulic and air hoses, towing arrangement, boom vane, etc.).
* Indicate if the equipment or part of it is certified under a quality standard or has an equivalent certification (if yes, please specify):
* Describe the limitations of the equipment during an operation conducted in open sea at a towing speed above 3 knots (i.e. maximum operating speed, critical towing speed, any sea/wave working limits, etc.):

|  |  |  |
| --- | --- | --- |
|  | **Quality of the proposed arrangement for the storage, transportation and operation of the system based on the information provided below** | **10%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Describe if the system allows for a rapid deployment from a vessel (indicative deployment time):
* Specify the quality, type and characteristics of the ISO container(s) for storage and transportation of 1 complete system including all necessary ancillaries for its autonomous operation on board a vessel (i.e. boom, reel(s), power unit(s), air compressor(s), hydraulic and air hoses, towing arrangement, boom vane, etc.).
* Description of options for handling and operation of the system (indicate minimum number of people to safely operate the system):
* Indicate the clear deck space and ancillaries (i.e. cranes indicating lifting capacity) required for deployment and retrieval of the system:

|  |  |  |
| --- | --- | --- |
|  | **Complexity of the maintenance requirements for the system based on the information provided below** | **5%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Describe the requirements that are necessary for the maintenance of the equipment (equipment requiring simpler maintenance will be evaluated higher):

|  |  |  |
| --- | --- | --- |
|  | **Completeness of the repair tools and spares for the system based on the information provided below** | **10%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Indicate the complete list of spare parts delivered with the system and included in the price offer:

|  |  |  |
| --- | --- | --- |
|  | **Efficiency of the system based on the information provided below** | **20%** |

**Please describe the performance of the equipment:**

* List and describe the types of oil products the system is designed to recover. Indicate the recovery capacity of the system and efficiency in relation to water intake (percentage of oil versus water):
* To support the description of the performance of the equipment you may provide evidence such as records of tests, sea trials and real operation:

|  |  |  |
| --- | --- | --- |
|  | **Quality of the factory acceptance test (FAT) based on the information provided below** | **10%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Describe the methodology that is adopted to test the equipment during FAT. A more comprehensive FAT will be evaluated higher:

|  |  |  |
| --- | --- | --- |
|  | **Quality of the plans for Commissioning and Training based on the information provided below** | **5%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Describe the equipment (for the full set of items) and describe the methodology for commissioning on board a vessel:
* Describe provision of two day on-site training including theoretical and practical training and describe the methodology for training:

|  |  |  |
| --- | --- | --- |
|  | **Duration of the extended warranty and efficiency of the post-sale service based on the information provided below** | **10%** |

**Please provide the following information relevant for the evaluation of this quality criterion:**

* Indicate terms and conditions of the extended warranty (in addition to the minimum warranty of 2 years):
* Describe the post-sale service:

|  |  |  |
| --- | --- | --- |
|  | **Quality, appropriateness and completeness of other ancillaries offered (different from those considered necessary)** | **5%** |

* **Please provide the following information relevant for the evaluation of this quality criterion** **that is evaluated as an advantageous point.** Provide a description of any “other ancillaries” different from the necessary ancillaries as previously indicated in Point 2 – Quality criterion Q1, Q2 and Q4 of this annex. Offers including more ancillaries that are relevant to the operation of the equipment will be evaluated higher.

1. **PRICE OFFER TEMPLATE**

Bids shall be evaluated in accordance with the Prices for Evaluation (Pi)and their associated factor (Fi) as described here below:

| **Factor (Fi)** | **LIST OF PRICES FOR EVALUATION** | | | | **PRICE in EUR (Pi)** |
| --- | --- | --- | --- | --- | --- |
| 1 | Price for each individual item that is part of the system and can be purchased individually (i.e. boom, reel(s), power unit(s), air compressor(s), hydraulic hoses, air hoses, towing arrangement, etc.) as described under Point 2 – Q1. |  | **NAME** | |  |
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|  | *(add more lines if needed)* | |  |
| 1 | Price of Certified ISO Container(s) including twist locks for storage and transportation of 1 system including all necessary ancillaries for its autonomous operation on board a vessel (i.e. boom, reel(s), power unit(s), air compressor(s), hydraulic and air hoses, towing arrangement, boom vane, etc.) as described under Point 2 – Q2. | | | |  |
| 1 | Price of repair tools and spares for the system as described under Point 2 – 4. | | | |  |
| 2 | Price for the purchase of a complete system including all the items listed above in this table (all the individual items + ISO Container(s) for storage and transportation + repair tools and spares) | | | |  |
| **Factor (Fi)** | **LIST OF PRICES FOR EVALUATION (continuation)** | | | | **PRICE in EUR (Pi)** |
| 1 | Price for on-site commissioning of the full system of equipment as described under Point 2 – Q7. | | | |  |
| 2 | Price for a two day on-site training as described under Point 2 – Q7. | | | |  |
| 1 | Price for attendance to the operational acceptance test upon delivery of the equipment | | | |  |
| 2 | Transportation of 1 complete system (all the individual items + ISO Container(s) for storage and transportation + repair tools and spares). | | | Price per 1 km (Road transport) will be multiply by a 1,000 kilometres for evaluation proposes |  |
|  |
| **Total for evaluation (∑Pi x Fi)** | | | | |  |

Tenderers are invited to fill in the table below with the prices of “other ancillaries” as listed under Quality criterion N.9. These prices will not be considered for the evaluation process. Nevertheless these prices will become part of the contract. EMSA may decide to purchase “other ancillaries” on the basis of the prices indicated below. Please add more lines if it is necessary.

| **Item**  **N.** | **LIST OF PRICES FOR OTHER ANCILLARIES (NOT FOR EVALUATION)** | **PRICE in EUR** |
| --- | --- | --- |
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