***Enclosure 2 – Bid Template***

***Attached to the Invitation to tender No EMSA/OP/03/2017***

**To prove the technical and professional capacity (selection criteria at point 14.5 of the Tender Specifications) please enclose to this document the list of customers and projects concluded in the last five years encompassing delivery of high capacity skimmer systems (point 14.5.1.a of the Tender Specifications). Besides, please complete the tables below and enclose any supporting reference to demonstrate that your offer complies with the minimum requirements in point 1 below (such as info-sheet, technical manuals, sea trials or operational reports, FAT report template, certificates and declarations of conformity). Please include an index of enclosures in the first page.**

|  |  |
| --- | --- |
| **Name of the system:** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **SELECTION CRITERIA - MINIMUM REQUIREMENTS (point 14.5.1 b of the Tender Specifications)** | | | |
| **Tenders not complying with all the following minimum requirements will not be further** **considered for the evaluation of the quality criteria (point 2 of the present bid template):** | | | |
|  | **REQUIREMENTS OF THE OFFER** | |  |
|  | **The offer includes the system info sheet describing the system on ONE paper with the following information as a minimum:**   * **Overview and main components** * **Key characteristics and operations** * **Technical specifications** * **Storage and transport** | **Compliance** | **Reference document & page number/s** |
| **Yes** |  |
| **No** |
|  | **The offer includes a manual in English SPECIFIC for the system and each equipment item offered containing, as a minimum, the following information:**   * **Overview information about system offered and the different equipment items included** * **Complete list of equipment included in the system** * **Dimensions, volume and weight for each equipment item** * **Hydraulic sketch describing how the system shall be connected** * **Detailed hydraulic and electric scheme** * **Maintenance routine for the system as a whole and for each individual equipment item** * **The different equipment manufacturer manuals describing every item in the system in detail with drawings, wire diagram etc.**   *The manual should be included in the offer in electronic format in a USB memory stick* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The offer includes *records of sea trials or real operations***  *Records must detail operational conditions (e.g. location, weather and sea conditions, air and sea temperature)* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The offer includes description of the equipment factory acceptance test (FAT) with at least the following requirements:**   * **Running of all mechanical parts and hydraulic components** * **Deployment in water of the skimmer head** * **Pumping test for all pumps delivered with the system** * **Flow-meter readings and functions** * **Local and remote wireless control operation** * **FAT report template or similar** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The offer includes description and plan for equipment commissioning and personnel training:**   * **Commissioning of the system as described, on board a selected vessel or at a suitable location, including at least:**   + **Unpacking the system**   + **Installation/connection of the system as required**   + **Testing of all functionalities of the system**   + **Commission report template** * **One day on-site training with the following characteristics:**   + **Theoretical part including as a minimum:**     - **General information about the system**     - **Safety recommendations for lifting, securing and operating the system. Recommendation of Personal Protecting Equipment.**     - **Specific information about each component of the system.**     - **Specific information about maintenance and cleaning the system.**     - **Specific information about the operation of the system.**   + **Practical training containing as a minimum:**     - **How to prepare the system for deployment**     - **How to start up and operate the system**     - **How to take home the system**     - **Regular maintenance and how to maintain the system after use**     - **How to prepare the system before transport**     - **Troubleshooting** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The offer includes a statement of minimum warranty period of 2 years and post-sale technical support for the duration of the contract.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The offer includes a statement of pre-installation technical support including the provision of one day on-site consultancy if so required, at no extra cost.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **SYSTEM GENERAL REQUIREMENTS** | |  |
|  | **The system is an oil pollution recovery system fitted with one self-propelled skimmer-head connected to an umbilical stored on a reel with an integrated telescopic arm from which the skimmer-head is deployed directly hanging from the umbilical. To allow for a wider recovery range the skimmer-head shall be fitted with exchangeable modules (e.g. weir, brush, drums) or equivalent solution.**  **The system is manufactured with materials and a painting system that, when maintained and operated according to the system manual, allows for storage and operation in a demanding environment for a period of at least 15 years without significant corrosion and need of repainting or changing significant parts.**  *Supplier shall describe for the system, the different parts, materials used, painting system, etc.* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The system is fully autonomous diesel-hydraulic operated. Thereby, the system includes a diesel-hydraulic power unit(s) and all necessary equipment items for its fully autonomous operation on board a vessel (i.e. pump(s), hoses, etc.).**  **All functions of the system (reel, telescopic arm and skimmer) are hydraulically driven and they can be operated locally and by a wireless remote control.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The complete system is ATEX certified to operate in Zone 2 according to Directive 94/9/EC and Directive 2014/34/EU (equipment Group II category 3) or equivalent.**  *The supplier shall attach actual documents(e.g. declaration of conformity) or templates as prove that the whole system is ATEX certified* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The system is in conformity with the Essential Health and Safety Requirements of the Equipment and Machine Directive 2006/42/EC or equivalent standard.**  *The supplier shall attach actual documents (e.g. declaration of conformity) or templates* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The system is designed in such a way that it can be installed and operated on deck of a vessel, fitted with twist-locks for 10’/20’ ISO container, at short notice without being pre-fitted or customise in any way (Please note that the pre-installation of any element requiring welding or drilling the vessel is considered pre-fitting).**  **The system, once installed and connected, is designed for one-man operation (deployment, manoeuvre and retrieval) using independently local controls and wireless remote controls.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **All hydraulic hose connectors are stainless steel AISI 316 (also known as marine grade stainless steel) fitted with adequate quick-coupling valves.**  **All water hose connectors are stainless steel AISI 316 (also known as marine grade stainless steel).**  **The system oil discharge outlet is fitted with standard hose connector** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **SYSTEM OPERATIONAL REQUIREMENTS** | |  |
|  | **As a minimum the system is designated to operate off-shore at sea state Beaufort 5 (2-3 metres sea waves, 17–21 knots winds). The skimmer-head is able to manoeuvre and operate in this sea conditions with the whole length of the umbilical free floating.**  *Reference shall be made to the sea trials or real operations presented to comply with point 1.1.3* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The system is designed to recover a wide range of crude oil and derivate products, unadulterated or as part of an emulsified water mixture (with viscosity up to 30,000 Cst).**  **The pumping capacity of the system is as a minimum 125 m3/h at 7 bar**  *To reach the minimum capacity, a skimmer head with 2 pumps is acceptable*  *To allow for a wider recovery range the skimmer-head shall be fitted with exchangeable modules or equivalent solution*  *Reference shall be made to the sea trials or real operations presented to comply with point 1.1.3* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The system is able to run continuously at maximum working load for at least 3 hours without filling petrol, overheating or have other problems** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The system is designed and manufactured:**   * **to be stored in air temperatures between -400C to +500C without damages** * **to be started at air temperatures down to -20ºC** * **to operate in:**   + **air temperatures between -20ºC to +40ºC,**   + **water temperatures between -2ºC to +30ºC,**   + **water salinity between 0 to 4.1%** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |  |
|  | **REQUIREMENTS OF THE DIESEL-HYDRAULIC POWER PACK** | |  |
|  | **The power pack incorporate at least the following features:**   * **Fuel oil low level alarm and safety shutdown** * **Hydraulic oil low level alarm and safety shutdown** * **Overheating alarm and safety shutdown** * **Running hours counter indicator** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **REQUIREMENTS OF THE UMBILICAL AND STORAGE REEL WITH INTEGRATED TELESCOPIC ARM** | |  |
|  | **The umbilical is integrated in a unique, free-floating sleeve containing all hoses for recovered oil transfer, water injection and hydraulic hoses to operate skimmer system, pump(s), propellers, etc.**  **The length of umbilical is 70m as a minimum and the whole length shall be stored on the reel.**  **The umbilical is designed to be protected against normal tear and wear and sunshine.**  **The oil hose in the umbilical has at least 5 inches as minimum inner-diameter.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **Telescopic arm reaches 4 meters as a minimum from centre of hose reel to connection to skimmer-head with strength with safety factor of minimum 2** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The reel is fitted with a swivel so it is not necessary to unwind the whole umbilical when using the system.**  **The telescopic arm is fitted with a self-spreader to automatically distribute the umbilical in the reel during retrieval of the system.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The reel allows for 360 degrees unlimited horizontal rotation** **on the platform (axial rotation) in both directions.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **REQUIREMENTS FOR THE SKIMMER-HEAD** | |  |
|  | **The system includes only one skimmer-head designed to minimise water intake and fitted with means to avoid debris entering into the pumps.**  *The offer shall include different interchangeable modules (e.g. weir, brush, drums)or equivalent solution to facilitate the collection of different types of oil* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The skimmer-head has an integrated water injection system to facilitate the pumping of the recovered product**  *The water injection system includes all necessary items for autonomous operation (e.g. water pump, hoses)* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **REQUIREMENTS OF THE FLOWMETER** | |  |
|  | **Flowmeter is integrated in the system and works with water, oil and/or any combination of both, showing the current flow in m3/h and total flow in m3. It shall be possible to set total flow figures to zero.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **REQUIREMENTS OF THE WIRELESS REMOTE CONTROL** | |  |
|  | **The wireless remote control is mounted in a comfort neckband, belt or similar and it allows for operation of all system functions (e.g. skimmer, telescopic arm and hose reel).**  *All functions operated by remote control shall also be possible to operate without remote control from an operating desk on the system.* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The wireless remote control has a working range of minimum 80 meters or the maximum length of the umbilical offered (whatever is longer).** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The wireless remote control is water-safe and ATEX certified as indicated in point 1.2.3.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **The wireless remote control has at least 8 hours working time without charging or changing batteries. The offer includes two extra battery packs and an automatic battery charger with charging time less than 12 hours.**  *The automatic battery charger shall automatic stop charging battery when the battery is full loaded.* | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **REQUIREMENTS OF THE STORAGE** | |  |
|  | **The complete system, containing all necessary equipment items for its autonomous operation on board a vessel is offered in suitable container(s) to facilitate transportation and storage: the container(s) offered must be ISO standard shipping containers(s). If the system is not in a close container (i.e. open container or flat-rack) appropriate canvas for outdoors storage is provided.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  | **REQUIREMENTS OF THE SPARE PARTS AND ANCILLARY EQUIPMENT** | |  |
|  | **The offer includes as a minimum the following spare parts:**   * **Spare parts for regular services to power-pack (e.g. hydraulic oil filters, lubricant filters, fuel filters air filters, drive-belts,…)** * **Spare parts for skimmer-head and modules in line with the equipment offered (e.g. 1 set of brushes, plates,  belts,)** * **Spare parts for skimmer-head pump** * **1 complete set of hydraulic hoses between the end of umbilical and the skimmer-head if applicable** * **1 complete set of hydraulic hoses between the reel and the power-pack if applicable** * **2 set of paint repairing kit (e.g. 0.5 l primer and 0.5l top coat,  2x brushes)** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |
|  |
|  | **The offer includes as a minimum the following ancillaries:**   * **2 oil hoses type “Composite” to be used from the system discharge outlet to the vessel tank system with a length of 10m each, adequate diameter and fitted with adequate standard connectors on both ends.** | **Compliance** | **Reference document & page number** |
| **Yes** |  |
| **No** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **EVALUATION CRITERIA – QUALITY OF THE SYSTEM (60 % OF EVALUATION)**   **(point 15 of the Tender Specifications)** | | | |
| Bids shall be evaluated in accordance with the Quality Award Criteria (Qi) and their associated weightings (Wi) as described here below Tenderers shall provide the requested information completing below table | | | |
|  | **Range** |  | 1. **4%** |
| **Indicate:**   * **Telescopic arm maximum reach (specify to which angle) and maximum lift at the maximum reach. The maximum lifting capacity must be compared with the total weight of the skimmer-head fitted with pumps and different modules if applicable** * **Umbilical hose total length and oil hose diameter**   *Longer range and more lifting capacity in proportion to the weight of the skimmer head will be evaluated higher.*  *Longer umbilical and larger oil hose diameter will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate reach in meters, maximum lifting, weight of the head and any relevant comment:* | | |
|  | **Capacity** |  | 1. **6%** |
| **Indicate maximum pumping capacity in m³/h at r.p.m. and maximum pressure for the system**  **Indicate maximum recovery capacity in m³/h for each recovery arrangement**  **Indicate the recovery capacity when power pack and reel is placed on a vessel deck 10m above sea level, skimmer head is at sea level and with 70m umbilical out winded**  *Higher pumping, maximum pressure and recovery capacity will be evaluated higher*  *Reference shall be made to the sea trials or real operations presented to comply with point 1.3 of the minimum requirements* | | | **Reference document & page number** |
|  |
| *Indicate figures as described above and any relevant comment:* | | |
|  | **Product range of recovery** |  | 1. **6%** |
| **Indicate maximum viscosity for recovered oil that the system can handle**  *Systems able to handle more viscous products will be evaluated higher*  *Reference shall be made to the sea trials or real operations presented to comply with point 1.3 of the minimum requirements* | | | **Reference document & page number** |
|  |
| *Indicate viscosity and any relevant comment:* | | |
|  | **Operational limitations** |  | 1. **6%** |
| **Indicate the limitations of the system for safe operation at open sea:**   * **current or vessel speed limit** * **weather working limits (specify up to which maximum wind speed and wave)**   *Systems able to operate under worst conditions will be evaluated higher*  *Reference shall be made to the sea trials or real operations presented to comply with point 1.3 of the minimum requirements* | | | **Reference document & page number** |
|  |
| *Indicate the limitations and any relevant comment:* | | |
|  | **Propulsion** |  | 1. **4%** |
| **Indicate the propulsive power of the skimmer head in Kw in proportion to the weight of the skimmer head and different modules if applicable**  *More powerful systems will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate power in Kw and weight of the skimmer head and any relevant comment:* | | |
|  | **STS capability** |  | 1. **4%** |
| **Indicate the capability of the system to be used as an oil transfer pumping system floating or on vessel allowing for Ship to Ship (STS) operations**  *Systems with this capability will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate the capability and restrictions of the system and any relevant comment:* | | |
|  | **Deck space** |  | 1. **6%** |
| **Space on deck necessary to install and operate the system including skimmer head and power unit(s)**  *Systems occupying less space on deck will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate the total space occupied by the system and a breakdown of the different parts:* | | |
|  | **ATEX 1 certification** |  | 1. **6%** |
| **Specify the ATEX certification of the system and/or individual items in addition to the minimum requirement 2.3**  *Equipment certified for operation in Zone 1 (ATEX marking for gas hazards category number 2) will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate the ATEX marking of the equipment and include as annex example of certification for equipment previously delivered or the certificate template used:* | | |
|  | **Power-pack noise emissions** |  | 1. **4%** |
| **The power-pack satisfies the requirements concerning the noise emission in the environment stablished by Directive 2000/14/EC (Stage II) (i.e. dB 82 + 11 log P.Kw) or equivalent standard**  *It is understood that the equipment could be considered excluded from satisfying this directive as being specially designed and constructed for emergency services. Thereby this is not a minimum requirement but evaluation criteria.*  *The supplier shall attach actual documents (e.g. declaration of conformity) or templates to prove noise emission levels and/or compliance*  *Offers satisfying this criteria will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate any relevant comment:* | | |
|  | **Diesel engine air emissions** |  | 1. **4%** |
| **The engine installed in the power-pack complies with actual EU environmental requirements of Directive 97/68/EC (as amended) for internal combustion engines to be installed in Non-Road Mobile Machinery (NRMM) or equivalent standard (e.g. EU Stage IV and US EPA Tier IV)**  *The supplier shall attach actual documents (e.g. Data Sheet of Type-Approved Engines) or templates* | | | **Reference document & page number** |
|  |
| *Indicate type approval number (e.g. E11\*97/68\*2004/\*XXXX\*YY) or specify how the system complies with this requirement:* | | |
|  | **Storage and transport** |  | 1. **6%** |
| **Specify the quality, type and characteristics of the storage option offered (closed container or canvas)**    *Offers including the whole system in a unique ISO standard container will be evaluated higher*  *Offers including closed* *containers will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate the storage option and any relevant comment:* | | |
|  | **Quality certification** |  | 1. **4%** |
| **Detail if the system, or part of it, is manufactured under a quality standard or equivalent.**  **Indicate if the company manufacturing the system is certified under a quality standard or equivalent**    *Systems and manufacturers with quality certification will be evaluated higher* | | | **Reference document & page number** |
|  |
| *Indicate any relevant comment:* | | |
|  | | | |

| 1. **PRICE OFFER (40 % OF EVALUATION)** | |
| --- | --- |
| Bids shall be evaluated in accordance with the Total price for evaluation (P) to be filled in the table below together with the other requested prices.  **Failure to complete all the following price elements may lead to the rejection of the offer:** | |
| **LIST OF ITEMS** | **PRICE in EUR (Pi)** |
| **Psystem**= Price of the purchase of a complete system (including container, spare parts, and any ancillaries necessary for its autonomous operation) (not including training, commissioning, nor transportation costs which are to be detailed below) |  |
| **Ptraining**= Price for one day on-site training as described under minimum requirements (including travelling and accommodation cost) |  |
| **Pcommissioning**= Price for commissioning upon delivery of the equipment as described under minimum requirements (including travelling and accommodation cost) |  |
| **Ptraining & Pcommissioning**= Price for combined commissioning and one day on-site training (including travelling and accommodation cost) |  |
| **P**transp1 =Price per km for transportation of 1 complete system containerised, including tools and spares by road transport |  |
| **Ptransp1000**= Price per 1 km above will be multiply by a 1,000 kilometres for evaluation proposes |  |
| **P=TOTAL PRICE FOR EVALUATION**= Psystem+ Ptraining+ Pcommissioning + P training &commissioning +Ptransp1000 |  |

| **SYSTEM PRICE BREAKDOWN (for reference only)** | **PRICE in EUR (Pi)** |
| --- | --- |
| **Price of container** |  |
| **Price of power-pack** |  |
| **Price for each pump** |  |
| **Price of the skimmer-head** |  |
| **Price of recovery module** |  |
| **Price of a complete set of spare parts** |  |
| **Price for ancillary 10 meters oil hose** |  |
| **Item …** | *(More lines to be added if necessary)* |
| **Item …** |  |
| **Item …** |  |