

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**

๑. ชื่อโครงการ..... การจัดการระบบลดอาการโคลงของเรือ (Roll Damping and Stabilization System)
สำหรับโครงการเรือตรวจการณ์ไกลฝั่ง

กิจกรรมการจัดการระบบลดอาการโคลงของเรือ (Roll Damping and Stabilization System)
สำหรับโครงการเรือตรวจการณ์ไกลฝั่ง

/หน่วยงานเจ้าของโครงการ สำนักโครงการเรือตรวจการณ์ไกลฝั่ง ลำที่ ๒ บริษัท อยู่กรุงเทพ จำกัด

๒. วงเงินงบประมาณที่ได้รับจัดสรร ๓๔,๐๐๐,๐๐๐ บาท (ไม่รวมภาษีมูลค่าเพิ่ม ๗%)

๓. วันที่กำหนดราคากลาง (ราคาอ้างอิง) วันที่ ๒๙ มิถุนายน ๒๕๕๙

เป็นเงิน ๖๗๗,๐๐๐ ปอนด์ (ไม่รวมภาษีมูลค่าเพิ่ม ๗%)

(คิดเป็นเงินไทยโดยประมาณ ๓๒,๑๔๗,๖๘๓.๕๐ บาท อัตราแลกเปลี่ยน ณ วันที่ ๒๙ มิถุนายน ๒๕๕๙)

๔. แหล่งที่มาของราคากลาง (ราคาอ้างอิง)

จากการสืบราคาปัจจุบัน จากบริษัทผู้ผลิต ๑ ราย ดังนี้

๔.๑ NAIAD DYNAMICS, UK LTD.

๕. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง (ราคาอ้างอิง)

๕.๑ นางจันทร์ทิพย์ ชำศิริพงษ์ หัวหน้าแผนกบริหารงานพัสดุ

๕.๒ นายธนาพิพัฒน์ วุฒิวิงศ์ พัสตุ ๑

Term of Reference (TOR)
Roll Damping and Stabilization System
for the Royal Thai Navy Offshore Patrol Vessel

1. Objective

The Bangkok Dock Company (1957) Limited (Buyer) wishes to announce this Term of Reference (TOR) for procuring 2 sets of Roll Damping and Stabilization system for the construction of the Royal Thai Navy Offshore Patrol Vessel (OPV)

2. Requirement

2.1 Goods shall be 2 (two) sets of NAIAD DYNAMICS Active Fin Stabilizer 500 Series Top Plate Assembly, including Support Services, Factory Acceptance Test (FAT), recommended on-board spare parts and training.

2.2 The detail and scope of supplies are in ANNEX A: Technical Requirement Specification.

2.3 Goods shall be manufactured in the United Kingdom.

2.4 Goods shall be new and never been used.

3. Condition of Bidding

3.1 The bid price shall include all costs, expenses, fees and cost for transportation. Transportation shall be CIF Laem Chabang Port, Chonburi, Thailand in accordance with Incoterms 2010 (by vessel with Thai flag or same privilege) and risk shall pass in accordance with the said terms.

3.2 This bid price shall exclude customs duty for the list of materials imported into the Kingdom of Thailand.

3.3 The enumeration of the bid price must be provided in Total Price

3.4 The price validity shall be until 31st August 2016.

4. Qualification of Bidder

4.1 Bidder must be a professional to sell goods in this bid.

4.2 Bidder has never been on the blacklist of the Thai Government, or as a result of not receiving orders to another entity or person who is blacklisted by the Thai Government.

4.3 Bidder must act as principal for its own account and not as agent or broker. If any Bidder has a coordinator in Thailand, the name and contact details of such coordinator must be clearly specified in the proposal.

4.4 Bidder must have own bank account where receive/payment shall be made, except, if each payment is not over 30,000 Bath, the counter party may receive/paid by cash.

5. Document for Consideration

5.1 Bidder's Qualification Document

5.1.1 Copy of Company Registration/Affidavit1 and certified true copy.

5.1.2 Letter of power of attorney, in case of the bidder is authorized the behalf to bid, sign in the bid, or in the other cases. The letter shall be affixed the duty and enclosed with the copy of the identity card or passport and/or household registration, which declare both of the authorizer and behalf. Notarisation is required.

5.2 Technical Specification Document

5.2.1 The details of specification of goods in this bid must meet the buyer's requirements. The bidder must clearly identify the manufacturer profile and the country of origin.

- 5.2.2 Copy of List of document showing that the bidder has sold similar system to the BAE Systems Surface Ships Limited for the River Class Vessel project for the UK Royal Navy.
- 5.2.3 If the Technical Specification documents do not comply with item 5.2.1 - 5.2.2, the buyer reserves the right not to consider the bidder.
- 5.2.4 Catalogue of the required goods shall be provided and goods clearly shown.

6. Delivery and Acceptance

- 6.1 If the goods are transported via sea freight that has Thai flag or the same privilege vessel in operation, Thai flag or the same privilege vessel shall be used. Relevant Bill of Lading shall also be provided.
- 6.2 In the event that the delivery will be delayed due to the non-availability of a Thai Registered Vessel, the bidder shall request an exemption from Bangkok Dock and will be responsible for any such costs incurred seeking such an exemption from the relevant authorities in Thailand. The bidder shall give a minimum of 30 days' notice of a request for an exemption.
- 6.3 The bidder must declare document and/or evidence of delivered goods that meet the specification and standard which specified in Contract or purchase order (PO) as stated in all respects.
- 6.4 If the delivered goods from bidder do not meet the requirements, buyer reserves the right to reject those goods. And in this case, the bidder must immediately take the right to change immediately.
- 6.5 Goods shall be CIF Laem Chabang Port, Chonburi, Thailand not more than 8 months after receiving Purchasing Order (PO) or Contract Effective Date (CED).

7. Warranty

Warranty period shall be not less than 12 months after the ship delivery to the RTN.

8. Assurance

All machinery supplied shall be according to class rules subjected to class approval. Bidder shall provide the class certificates in original. In some single cases only copies of class certificates could be accepted.

The bidder shall confirm the quality assurance by issuing a copy of its quality plan that complies with ISO (latest standard) at no extra cost to the buyer.

9. Penalty

If the bidder cannot deliver on time as buyer's scheduled, bidder must pay on a daily rate penalty of 0.014 percent of the goods value that are not delivered from the date of delivery until the date that the bidder has fulfilled the conditions in the contract or PO.

When the penalty reaches the maximum of 10% and if the equipment is still not delivered after this period then buyer shall be entitled to terminate the contract and seek further recompense if buyer has to source an alternative supplier for the equipment. In addition buyer would expect a refund of all payments made.

10. Performance Guarantee

At the time of execution of the contract, the bidder shall submit to buyer a Performance Guarantee in an amount of five percent (5%) of the contract value in favour of the buyer by a first class bank operating in Thailand. The Performance Guarantee shall valid until the end of the agreed warranty period.

In the event the bidder requires an advance payment, the bidder shall issue an Advance Payment Guarantee via a first class bank operating in Thailand and remain valid up to the

point of delivery. No advance payment will be made until the Advance Payment Guarantee has been issued to buyer.

11. Condition of Payment

11.1 Payments shall be;

- 15% on the delivery of drawings (four weeks from Effective Contract Date)
- 15% on the delivery of control system (eight weeks from Effective Contract Date)
- 70% on the delivery of hardware and the remaining equipment of system

11.2 Payment by this condition shall be agreed by the bidder and buyer. The bidder is responsible for any other charges related to the transfer of the bank levy, and consent to such deductions from the amount transferred in that period.

11.3 The bank must be a first class bank operating in Thailand.

12. Export Licenses/End User Certificate

In the event of the bidder's equipment requires bidder's Government to issue an Export License before the equipment can be shipped to Thailand, the bidder must advise buyer immediately and provide the required format of the End- User Certificate needed to satisfy its authorities. It should be noted that the issuing of an End-User certificate can take up to 90 days and this should be taken into consideration when requesting such a document from buyer.

13. Law of the Contract

The contract shall be subjected to the Laws of the Kingdom of Thailand with the right to go to Arbitration in the event a dispute cannot be resolved. Arbitration shall be in accordance with current ICC rules and shall take place in Bangkok, Thailand.

14. Technical Requirement

Technical Requirement Specifications are shown in ANNEX A.

ANNEX A
**Technical Requirement Specification of the Roll Damping and Stabilization System
for the Royal Thai Navy Offshore Patrol Vessel**

1. Requirement

2 (two) sets of Naiad Dynamics, Roll Damping and Stabilization System. The offer shall be a repeat system that supplied for HTMS Krabi, including Support Services, Factory Acceptance Test (FAT), recommended on-board spare parts and training.

2. Technical Specifications

The system shall consist of standard Naiad Dynamics components:

2.1 Electrical Components

- System Display (1 each)
- System Control Module (1 each)
- Servo Control Module (1 each)
- Motion Sensor Package (1 each)

2.2 Fin Components

- 500 Series Top Plate Assembly (2 each)
- Fin Assembly 5.5 Sq. Meter (2 each)
- Local Junction Boxes (2 each)

2.3 Hydraulic Components

- Fin Hydraulic Power Pack (2 each 30kW)

2 Technical Documentation

The following documents are required:

- Instruction Manual for Operating and Maintenance
- Drawings
- ILS document
- Factory Acceptance Test Record
- All document, 8 hard copies, 1 soft copy shall be provided

3 Support Services

Bidder shall provide support services for the installation, commissioning, Setting to Work, Harbour Acceptance and Sea Acceptance Trials. Man-day and prices shall be separately shown.

4 Factory Acceptance Test

Buyer and the Royal Thai Navy (RTN) reserve the right to attend Factory Acceptance Tests. The bidder will be responsible for all costs in their country, including provision of test fuel and labour in the event that we wish to attend Factory Acceptance Tests. Costs of personnel travel and accommodation whilst in UK shall be responsible of the buyer. If there is a failure of the equipment not to pass the Factory Acceptance Test, the bidder shall be responsible for all additional costs incurred by the party attending the tests.

The bidder shall give 90 days' notice of the intended date for the Factory Acceptance Test of the equipment to enable adequate planning to be made for a team to visit. The bidder shall provide all assistance required to obtain any visa that may be required to enter the bidder's country.

5 Spare Parts

List and price of carried on-board spare parts shall be provided.

6 Training

The bidder shall provide training as followings:

- Maintainer Training Course (10 persons at UK factory, 5 days)
- Operator Training (at buyer training facilities in Sattahip, Thailand)