

Recovery and Development Agency Quick Contracting Invitation to Tender



BOOKLET 3

REQUIREMENTS DOCUMENT

CONTRACT FOR THE

SUPPLY AND INSTALLATION OF SEA MARKERS ACROSS THE TERRITORY

Head of Procurement

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Invitation to Tender No. ITT/0011

Submission Deadline:
Friday 22 March 2019
Time: **1600 hours**

**CONTRACT FOR THE
SUPPLY AND INSTALLATION OF SEA MARKERS ACROSS THE TERRITORY
SCOPE OF WORKS – SEA MARKER REPLACEMENT**

Introduction

1. The reinstatement of the navigational system in the post 2017 hurricanes is crucial to ensuring the safe navigation of BVI waters, allowing passage of vessels and making sure BVI is tourist-ready.
2. The Territory's sea markers are managed by the BVI Ports Authority (BVIPA), with input from BVI Shipping Registry (BVISR) on placement. The majority of the markers have been reinstated by BVIPA, however there are some markers still outstanding. This remaining work forms the Scope of Works to be completed by the Contractor.
3. The replacement of the markers at this scope of works will ensure that these navigational markers are functioning, this is an infrastructure requirement. The addition of these markers will contribute to the protection of ecologically sensitive habitats near the high traffic bays. The marking of the channels in North Sound and Trellis will improve the navigational aids to charter boats, thus improving the tourism product.

Location

4. The sea markers, buoys, beacons and guiding lights that need replacing are spread all over the territory. A map of the locations is provided at figure 1 below. The coordinates and depth of the navigation aids to be installed are available in the spreadsheet included with this Scope of Works (136 - Sea Marker Locations - Final.xlsx). There is also a Google Earth file included with this Scope of Works, that shows the locations within Google Earth. The exact location of each navigation aid will be determined by BVIPA and BVISR. There will be a representative from these agencies available during the works to provide specialist input on the exact siting of each marker.



Figure 1. Map of locations of Navigational Aids to be installed.

Specific Scope of Works

5. The scope of this project is the replacement of Navigational Aids.

5.1. Supply and installation of Sea Markers and Buoys. With the assistance of BVIPA and BVISR damaged and missing buoys will be replaced and new ones will be installed as per the spreadsheet provided. Additional (spare) buoys also need to be supplied. All GIS data collected will be shared with BVI Government for future use.

5.2. All buoys and beacons are to be for IALA Region B or Cardinal, of robust construction, firmly embedded to the bottom and able to withstand ground and sea swell. All navigational and channel markers are to have solar powered lights, if possible, LED.

5.3. Supply and installation of the following channels markers:

5.3.1. Anegada, Secondary channel leading to Anegada Reef Hotel – 4 lateral markers (2 red and 2 green);

5.3.2. Virgin Gorda, Saba Rock Passage – 4 lateral markers (2 red and 2 green);

- 5.3.3. JVD, White Bay – 4 lateral markers (2 red and 2 green);
- 5.3.4. Tortola, Cane Garden Bay – 1 lateral marker (1 red);
- 5.3.5. Beef Island, Trellis Bay – 10 lateral markers (5 red and 5 green);
- 5.3.6. 6 spare buoys (3 red and 3 green) and 1 North Cardinal buoy.
- 5.4. Supply and installation of the following navigational markers:
 - 5.4.1. Virgin Gorda, North Sound Harbour – 1 North Cardinal marker;
 - 5.4.2. Virgin Gorda, Mountain Point Beacon – 1 West Cardinal pile marker;
 - 5.4.3. Beef Island, Beef Island Bluff – 1 South Cardinal pile marker.
- 5.5. Supply and installation of the following information and regulatory markers:
 - 5.5.1. Virgin Gorda, Saba Rock Passage – 2 limiting speed buoys (5 knots);
 - 5.5.2. Beef Island, Trellis Bay / Airport – 7 yellow lateral exclusion marks.

The Contractor's Submission

- 6. As part of their return to this request, the contractor is asked to submit the following:
 - 6.1. A price for the completion of the works as listed in the Scope of Works above.
 - 6.2. A breakdown of the submitted price, to include Labour, materials, equipment costs, mobilization, and Overheads and Profit.
 - 6.3. An Environmental Management Plan (EMP) that they will follow during the works. As part of this request, there is an attached template, partially completed, for the contractor to complete and submit.
 - 6.4. A programme of works for the project, in Gantt chart format (preferably MS Project) including a proposed start date, construction period, and projected completion dates.

6.5. A proposed payment schedule. This should be a simple table that explains what milestones the contractor expects to be paid on completion of (ie. 20% payment on installation of 6 buoys, 40% at 12 buoys installed).

Handover Documentation

7. Any associated maintenance regimes for installed equipment, along with approved providers for parts and replacements, should be provided to the BVIPA and BVISR.

8. The final locations of each buoy and beacon, along with a summary of the type installed and works conducted, should be recorded and provided as part of the handover documentation.

9. All GIS information relating to Navigation Aids collected during the works must be shared with the BVI Government through BVIPA and BVISR for future use, no later than 2 (two) weeks after the end of this work.