**Technical Proposal**

# Submitted by XYZ Inspection Ltd

## For: Moray Offshore Transmission Consortium (MOTC)

**Tender Title:** Subsea Cable Inspection, Survey, and Integrity Verification – Q4 2025

**Tender Reference:** MOTC-CABLE-25

**Submission Date:** 7 July 2025

# 1. Company Profile

**Registered Name:** XYZ Inspection Ltd

**Head Office:**

Unit 4, Skyline Energy Park

Claymore Drive, Bridgway View

Aberdeen, AB23 8GD, United Kingdom

**Company Registration Number:** SC482916

**VAT Number:** GB264739182

**Website:** www.xyzinspection.co.uk

XYZ Inspection Ltd is a UK-registered subsea services provider with over 14 years of experience delivering high-resolution inspection and survey solutions to clients across the offshore wind, interconnector, and oil & gas sectors. We specialise in high-voltage cable inspections, structural integrity assessments, and ROV-based diagnostics.

# 2. Project Understanding & Objectives

We understand that the Moray Offshore Transmission Consortium (MOTC) is initiating a targeted campaign to assess the structural and burial integrity of 220 km of subsea export cables currently in operation. This follows environmental observations suggesting localised seabed mobility and potential exposure of joints, free spans, or strain points.

The campaign’s core objectives include:

* High-resolution bathymetric and geophysical survey of defined cable corridors
* Visual ROV-based inspections of joints, clamps, touchdown points, and crossing structures
* Burial depth assessment with GIS correlation to “as-laid” data
* Bend radius verification and stress modelling
* Provision of an intervention-prioritised integrity report, compliant with regulatory standards

XYZ Inspection has delivered over 650 km of cumulative export cable inspections and is equipped to deliver full-scope services safely, efficiently, and within the seasonal weather window.

# 3. Technical Approach & Methodology

## 3.1 Project Planning & Mobilisation

* **Kick-off Meeting:** We will hold a pre-mobilisation technical session with MOTC’s project team to align scope, geodata, and permit expectations.
* **Mobilisation Port:** Peterhead or Montrose depending on vessel schedule; 48-hour turnaround.
* **HSE Readiness:** Method statements, risk assessments, and emergency protocols submitted 7 days prior to mobilisation.

## 3.2 Survey Operations

**[GPT generated technical content goes here. This should be generated using the text in the text box answers to Q1. Instruct the GPT to create section headers for the various parts of the methodology. Instruct the GPT to be very thorough and act as a subsea technical manager describing their methodology for carrying out subsea cable inspection and surveying based on the information given from Q1.]**

# 4. Reporting & Deliverables

## 4.1 Interim Deliverables

* Daily progress logs and raw sonar/ROV data (via secure FTP)
* Preliminary burial depth heatmaps per segment (optional)

## 4.2 Final Report Package

Delivered within 15 working days of demobilisation, including:

* Executive summary and inspection overview
* GIS-linked seabed condition maps (KMZ + static PDF format)
* Annotated sonar and ROV visuals with timestamped stills
* Cable integrity matrix with priority-ranked intervention scoring
* Appendices with vessel logs, calibration data, and weather downtime

A post-submission review workshop will be held at MOTC’s preferred location (or remotely) to walk through the report findings and field technical queries.

# 5. Equipment & Asset Inventory

|  |  |  |
| --- | --- | --- |
| **Asset** | **Model/Type** | **Function** |
| Vessel | MV Sentinel (DP2) | 60m survey support vessel, 30-day endurance |
| Sonar | Kongsberg EM2040 | High-res MBES |
| SSS | Edgetech 4205 | Dual-frequency side-scan sonar |
| Positioning | RTK GNSS + HiPAP | 0.5m accuracy |
| Software | QINSy, NaviModel, GIS-Pro,  ANSYS | Data processing & modelling |

**[GPT Should add to this table based on the text in the textbox answer to Q2]**

All hardware and software are owned and operated by XYZ Inspection Ltd and supported by OEM service agreements.

# 6. Team & Competency

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Certifications & Experience** |
| Julia Bennett | Offshore Project  Manager | MSc Subsea Engineering from Bristol University. IOSH & BOSIET certified. 12+ years of subsea experience. |
| Carl Nyambe | ROV Supervisor | 14 years ROV ops experience, IMCA accredited |
| Leila Ameen | Data Processing Lead | GIS specialist with 8 years subsea analysis |
| Tim Godfrey | Survey  Technician | BSc Hydrography and an RTK/SSS/MBES specialist |
| 8 Additional  Crew | Pilots, Engineers,  Deck Ops | OGUK Medical, GWO, IMCA logged |

All crew are full-time employees or long-term associates with verified qualifications and valid offshore documentation.

# 7. Risk & Constraint Mitigation

* **Weather Constraints:** Campaign scheduled within late-summer window (Aug– Sept); vessel capable of operating in up to 2.5m Hs.
* **Environmental Permitting:** Support offered for marine licence coordination, though XYZ does not act as named applicant.
* **Subcontracting:** GIS-based cable burial modelling to be delivered by OceanAtlas Ltd under XYZ’s supervision (existing framework partner).
* **ROV Dwell Time:** High tidal flow zones may require DP-assisted station-keeping in Area C; mitigation planned through pre-survey tidal modelling.
* **[Add GPT generated bullet point here. This should be generated based on the text in the text box answer to Q3]**

**8. Timeline (Indicative)**

# [Highlight this section in pale yellow to indicate that it needs to be filled in]

|  |  |
| --- | --- |
| **Milestone** | **Target Date** |
| Contract Award |  |
| Final Planning Meeting |  |
| Vessel Mobilisation |  |
| Offshore Survey Window |  |
| Demobilisation |  |
| Final Report Submission |  |
| Post-Survey Review Meeting |  |

# 9. Conclusion

XYZ Inspection Ltd is confident in its ability to deliver a comprehensive, regulatorycompliant, and data-rich subsea cable inspection campaign aligned with MOTC’s expectations. Our track record in offshore wind, highly skilled team, and recent technology upgrades allow us to deliver actionable insights with minimal disruption.

We welcome the opportunity to further discuss this proposal and stand ready to commence mobilisation as early as August 2025.

# 10. Declaration & Contact

We hereby declare that the information provided in this submission is complete, accurate, and binding for 90 days from the date of submission.

**Signed:**

Julia Bennett

Head of Offshore Operations XYZ Inspection Ltd julia.bennett@xyzinspection.co.uk

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