Document Title:	Scope of Work for Geophysical, Geotechnical, Laboratory and UXO Investigations for the Inter-Array Cable Network, Offshore Wind Farm Area and Offshore Export Cable Corridor within the Baltic East Offshore Wind Farm Project Area 46.E.1.
Ordering Party:	Baltic East Sp. z o.o. Aleja Grunwaldzka 472, 80-309 Gdańsk
Investment location:	OWF area 46.E.1 (OWF Baltic East)
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Rev	Purpose	List of Updated/Modified Sections
B	Issue for Inter-Discipline Check	-

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1.0 DEFINITIONS AND ABBREVIATIONS

1.1 Definitions

ORDERING PARTY	Baltic East Sp. z o.o. Aleja Grunwaldzka 472, 80-309 Gdańsk
CONTRACTOR	Shall mean the entity awarded the Contract for the performance of the geophysical, geotechnical, laboratory and UXO investigation Work described in this Scope of Work, including all applicable Work Packages.
SUBCONTRACTOR	Shall mean any other Party (other than the Contractor) to a subcontract. Subcontractor shall also include further subcontractors of the Contractor of any tier.
OFFSHORE WIND ACT	Amendment to the Act of December 17th 2020 by the Act of March 7th, 2025, on promoting the generation of the electrical energy in offshore wind farms, published in the Journal of Laws on April 16th, 2025.
PROJECT	Shall mean the Baltic East offshore wind farm project in the area 46.E.1 (OWF Baltic East)
UXO SURVEY	UXO SURVEY Shall mean a systematic geophysical survey performed under WPD for the identification, mapping, classification and risk-based assessment of potential unexploded ordnance and other relevant ferrous or non-ferrous objects within the UXO SURVEY AREA. The UXO SURVEY is separate from any localised UXO investigation, clearance or avoidance activity required in advance of individual geotechnical investigation locations.
UXO SURVEY AREA	Shall mean the combined spatial extent to be covered under WPD, comprising: • 100 m wide corridors centred on each planned IAC route centreline, extending 50 m on either side; • 100 m wide corridors centred on each planned offEXC route centreline, extending 50 m on either side; • areas within a radius of 225 m from the centre point of each planned WTG location; and • areas within a radius of 225 m from the centre point of each planned OSS location. The UXO Survey Area shall be established using the latest route and layout data issued or approved by the ORDERING PARTY.
WORK PACKAGE	Shall mean a defined and separately identifiable part of the WORK, comprising Work Package A (WPA), Work Package B (WPB), Work Package C (WPC) or Work Package D (WPD), as further described in this Scope of Work.
WORK	Shall mean all activities, services, surveys, investigations, testing, processing, interpretation, reporting and delivery obligations to be performed by the CONTRACTOR under WPA, WPB, WPC and WPD.
VESSEL	The ship including all its equipment and personnel required to perform the WORK

1.2 Abbreviations

ALARP	As Low as Reasonable Practicable
BSB	Below Seabed
BHMW	Hydrographic Office of the Polish Navy
CRS	Coordinate Reference System
OCR	Company Representative
DPR	Daily Progress Report
EPSG	European Petroleum Survey Group
OGD	“Other” Geological Documentation
HAZID	Hazard Identification
HIRA	Hazard identification and Risk Assessment
HSE	Health, Safety and Environment
IAC	Inter-array (infield) Cables
MAC	Mobilisation and Calibration
MAG	Magnetometer
MBES	Multibeam Echosounder
MTL	Master Target List
NtM	Notice to Mariners
OSS	Offshore Substation
OWF	Offshore Wind Farm
offEXC	Offshore Export Cable
PEP	Project Execution Plan
GWP	GEOLOGICAL WORKS PROJECT (in polish - projekt robót geologicznych)
PSzW	the permit for construction and use of artificial islands, structures and infrastructure in the Polish Maritime Areas
SOW	Scope of Work
SI	International system of units
SVP	Sound Velocity Profile
UHRS	Ultra-High Resolution Seismic
USBL	Ultra Short Baseline
UXO	Unexploded Ordnance
WGS84	World Geodetic System 1984
WPR	Weekly Progress Reports
WPA	Work Package A – Geophysical Survey
WPB	Work Package B – Geotechnical Survey
WPC	Work Package C – Laboratory Testing
WPD	Work Package D – UXO SURVEY
WTG	Wind Turbine Generator

1.3 System of Units

All measurements, design and analysis shall be carried out using the ISO 80000-1:2009 International System of Units (SI).

All drawings shall be dimensioned and detailed using SI units.

1.4 Reporting Language

As a minimum requirement, all reports and other deliverables shall be delivered by CONTRACTOR in English language. Where information is available in Polish, an English translation shall also be provided.

1.5 Codes and Standards

Any reference to rules, codes, standards, guidelines and regulations in the contract documentation shall require the use of the latest published edition at the contract award.

The WORK shall be carried out in accordance with ISO 19901-10:2021 Petroleum and natural gas industries — Specific requirements for offshore structures — Part 8: Marine soil investigations and Part 10: Marine geophysical investigations.

The CONTRACTOR shall use standards to be mutually agreed with the ORDERING PARTY at the commencement of the Planning Phase.

It shall be CONTRACTOR's responsibility to acquire all the relevant documents referenced in this SCOPE OF WORK together with ISO 19901-10:2021 and relevant documents that it references.

The Work shall additionally be performed, where applicable, in accordance with:

- PN-EN ISO 14688-1 – Rozpoznanie i badania geotechniczne - Oznaczanie i klasyfikowanie gruntów - Część 1: Oznaczanie i opis;
- PN-EN ISO 14688-2 – Rozpoznanie i badania geotechniczne - Oznaczanie i klasyfikowanie gruntów - Część 2: Zasady klasyfikowania;
- PN-EN ISO 14689-1 – Rozpoznanie i badania geotechniczne – Identyfikacja i klasyfikacja skał – Część 1: Zasady ogólne;
- PN-EN ISO 17892-1 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów -Część 1: Oznaczanie wilgotności naturalnej;
- PN-EN ISO 17892-2 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 2: Oznaczanie gęstości objętościowej;
- PN-EN ISO 17892-3 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów -Część 3: Badanie gęstości właściwej;
- PN-EN ISO 17892-4 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 4: Badanie uziarnienia gruntów;
- PN-EN ISO 17892-5 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 5: Badanie edometryczne gruntów;
- PN-EN ISO 17892-8 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 8: Badania trójosiowe bez konsolidacji i bez odpływu;
- PN-EN ISO 17892-9 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 9: Ściskanie trójosiowe z konsolidacją na próbkach całkowicie nasyconych wodą;

- PN-EN ISO 17892-10 - Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 10: Badania w aparacie bezpośredniego ścinania;
- PN-EN ISO 17892-11 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 11: Badania filtracji;
- PN-EN ISO 17892-12 – Rozpoznanie i badania geotechniczne - Badania laboratoryjne gruntów - Część 12: Oznaczanie granic płynności i plastyczności;
- PN-EN ISO 22475-1 – Rozpoznanie i badania geotechniczne - Metody poboru prób i pomiarów wód podziemnych - Część 1: Zasady techniczne poboru prób gruntów, skał i wód podziemnych;
- PN-EN ISO 22476-1 – Badania polowe – Część 1: Badanie sondą statyczną ze stożkiem elektrycznym lub stożkiem piezo-elektrycznym;
- PN-EN 1997-1 – Eurokod 7- Projektowanie geotechniczne – Część 1: Zasady ogólne;
- PN-EN 1997-2 – Eurokod 7- Projektowanie geotechniczne – Część 2: Rozpoznawanie i badanie podłoża gruntowego;
- PN-EN 206+A1:2016-12 – Beton – Wymagania, właściwości, produkcja i zgodność;
- PN-88/B-04481 – Grunty budowlane – Badania próbek gruntów;
- ASTM D2434-22 – Standard Test Methods for Measurement of Hydraulic Conductivity of Coarse-Grained Soils;
- ASTM D4015-21 – Standard Test Methods for Modulus and Damping of Soils by Fixed-Base Resonant Column Devices;
- ASTM D4318 – Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils;
- ASTM D4373-21 - Standard Test Method for Rapid Determination of Carbonate Content of Soils;
- ASTM D4412-19 - Standard Test Methods for Sulfate-Reducing Bacteria in Water and Water - Formed Deposits;
- ASTM D5084 -24 - Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter;
- ASTM D5334-14 – Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure;
- ASTM D6913 – Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis;
- ASTM D6528-24 – Standard Test Method for Consolidated Undrained Direct Simple Shear Testing of Fine-Grained Soils;
- ASTM D8459-23 - Standard Test Methods for Detecting Water Soluble Sulfates in Construction Soils;
- ASTM G57-20 – Standard Test Method for Measurement of Soil Resistivity Using the Wenner Four-Electrode Method;
- BS 1377-7:1990 – British Standard Methods of tests for Soil for civil engineering purposes – Part 7: Shear strength tests (total stress);
- BS 1377-3:2018+A1:2021 – Methods of test for soils for civil engineering purposes – Part 3: Chemical and electro – chemical testing;
- DIN 50929 -3 – Probability of corrosion of metallic materials when subject to corrosion from the outside - Part 3: Buried and underwater pipelines and structural components; Supplement 1: Corrosion rates of structural components in water;
- IMCA S-019 – Guidance on Geophysical Surveys for Offshore Projects;
- IHO S-44 - IHO Standards for Hydrographic Surveys;
- Approved Geological Works Project (GWP).

1.6 References

Reference	Document title	Document description
/1/	Appendix 2 - Technical Specification and Requirements	Will be delivered during RFP stage.
/2/	Appendix 2.1 - NEP-GIS-GIS-SPC-00001-GIS Specification	Will be delivered during RFP stage / GIS Specification.
/3/	Appendix 2.2 - NEP-GIS-GIS-DSH-00001-Data Transfer Journal	Data Transfer Journal. Will be delivered during RFP stage.
/4/	2D UHRS data – to be shared with awarded CONTRACTOR	2D UHRS data from the initial campaign in digital format, to be provided by the ORDERING PARTY and used, together with WPA SBP results, as an input to the planning, optimisation and interpretation of WPB geotechnical investigations within the IAC area.
/5/	Geophysical / Hydrographic data – to be shared with awarded CONTRACTOR	Hydrographic data from the environmental campaign.
/6/	Geological Work Project – to be shared with awarded CONTRACTOR	Geological Works Project for the 46.E.1 area.
/7/	Existing UXO Information	Existing UXO-related data, historical records and target information to be provided by the ORDERING PARTY, where available.

2.0 PROJECT DESCRIPTION

The ORDERING PARTY is planning to develop Offshore Wind Farm within area 46.E.1. The project is currently progressing into development phase and preparations for commencement of more detailed studies are ongoing.

The ORDERING PARTY pursuant to the Decision of the Ministry of Infrastructure of the Republic of Poland No. MFW 46.E.1, issued in 2023, obtained a permit for construction and use of artificial islands, structures and infrastructure in the Polish Maritime Areas (PSzW) for the project entitled - Neptun 46.E.1 Offshore Wind Farm (PROJECT) in accompany with other required infrastructure.

The Baltic East OWF of approx. 112 km^2 is in the southern part of Baltic Sea (northern part of Stilo Sandbank), approximately 25 km north of the coastline, at the altitude of Lubiatowo village (Wejherowo district, Choczewo commune, Pomeranian Voivodeship).

The PSzW indicates the boundaries of the area in which the above-mentioned permit is valid. The aforementioned boundaries are presented in the map and table below (Figure 1-1, Table 1-1).

Figure 1-1: Illustration of Project Location.

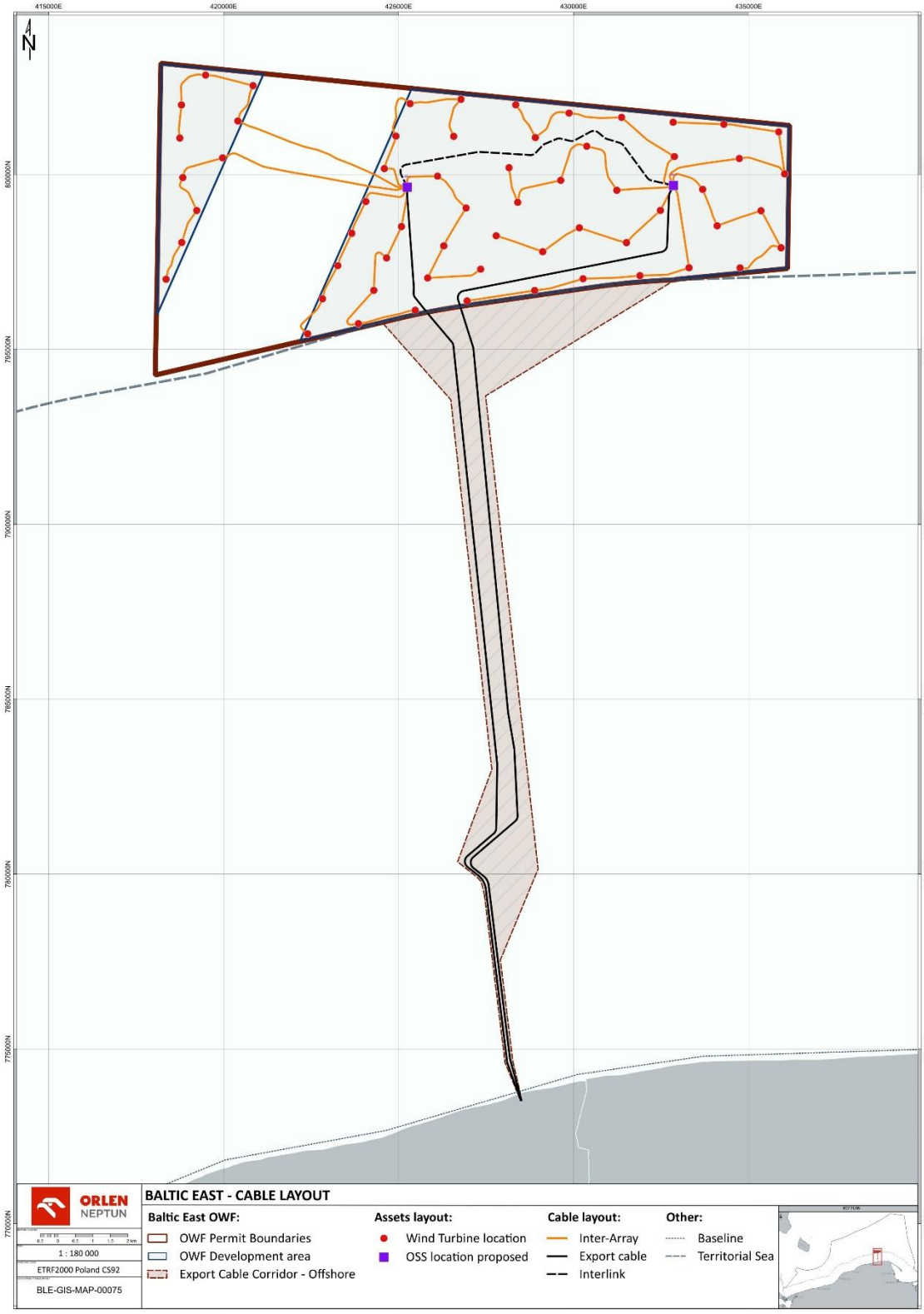


Table 2-1 Coordinates of the boundaries of the PROJECT.

No.	Coordinate system WGS 84		Coordinate system CS92 EPSG: 2180	
	Longitude DDMMSS.sss	Latitude DDMMSS.sss	X	Y
1	17°43'05.643"E	55°00'17.984"N	418044,45	794269,01
2	17°43'05.640"E	55°00'36.000"N	418054,60	794825,69
3	17°43'06.000"E	55°01'42.750"N	418098,80	796888,08
4	17°43'05.640"E	55°03'24.394"N	418150,00	800028,91
5	17°43'05.639"E	55°05'06.379"N	418207,79	803180,17
6	17°45'02.381"E	55°05'00.851"N	420273,94	802971,87
7	17°46'39.823"E	55°04'56.239"N	421998,64	802798,81
8	17°46'40.577"E	55°04'56.203"N	422011,99	802797,47
9	17°51'30.273"E	55°04'42.490"N	427140,23	802286,87
10	17°56'28.930"E	55°04'28.352"N	432428,17	801766,64
11	18°00'00.359"E	55°04'18.343"N	436172,33	801402,14
12	18°00'00.360"E	55°03'38.548"N	436154,75	800172,47
13	18°00'00.360"E	55°02'06.000"N	436113,85	797312,72
14	17°57'00.960"E	55°01'54.527"N	432924,66	797004,87
15	17°56'59.692"E	55°01'54.034"N	432901,93	796989,98
16	17°56'55.710"E	55°01'53.920"N	432831,20	796987,52
17	17°56'49.220"E	55°01'53.695"N	432715,91	796982,30
18	17°56'42.730"E	55°01'53.470"N	432600,61	796977,08
19	17°56'38.156"E	55°01'53.283"N	432519,34	796972,53
20	17°56'36.245"E	55°01'53.205"N	432485,39	796970,63
21	17°56'29.760"E	55°01'52.940"N	432370,16	796964,18
22	17°56'23.280"E	55°01'52.640"N	432255,01	796956,66
23	17°56'16.800"E	55°01'52.340"N	432139,86	796949,13
24	17°56'10.325"E	55°01'51.995"N	432024,77	796940,22
25	17°56'03.850"E	55°01'51.650"N	431909,68	796931,31
26	17°55'57.385"E	55°01'51.270"N	431794,76	796921,32
27	17°55'50.920"E	55°01'50.890"N	431679,83	796911,33
28	17°55'44.460"E	55°01'50.475"N	431564,98	796900,26
29	17°55'38.000"E	55°01'50.060"N	431450,12	796889,20
30	17°55'31.545"E	55°01'49.600"N	431335,33	796876,74
31	17°55'25.090"E	55°01'49.140"N	431220,54	796864,29
32	17°55'25.531"E	55°01'49.020"N	431228,31	796860,46
33	17°55'18.650"E	55°01'48.645"N	431106,00	796850,76
34	17°55'12.210"E	55°01'48.150"N	430991,46	796837,22
35	17°55'05.775"E	55°01'47.615"N	430876,99	796822,46
36	17°55'04.173"E	55°01'47.482"N	430848,49	796818,79
37	17°54'59.340"E	55°01'47.080"N	430762,51	796807,70
38	17°54'58.112"E	55°01'46.971"N	430740,66	796804,67
39	17°54'52.915"E	55°01'46.510"N	430648,20	796791,85
40	17°54'46.490"E	55°01'45.940"N	430533,88	796776,01
41	17°54'35.801"E	55°01'44.953"N	430343,68	796748,47
42	17°54'25.113"E	55°01'43.965"N	430153,50	796720,90
43	17°54'14.424"E	55°01'42.978"N	429963,29	796693,37
44	17°54'03.736"E	55°01'41.990"N	429773,10	796665,82
45	17°53'53.048"E	55°01'41.002"N	429582,91	796638,28
46	17°53'42.360"E	55°01'40.016"N	429392,71	796610,81

No.	Coordinate system WGS 84		Coordinate system CS92 EPSG: 2180	
	Longitude DDMMSS.sss	Latitude DDMMSS.sss	X	Y
47	17°53'31.672"E	55°01'39.023"N	429202,51	796583,11
48	17°53'20.985"E	55°01'38.036"N	429012,33	796555,64
49	17°53'10.297"E	55°01'37.046"N	428822,12	796528,06
50	17°52'59.610"E	55°01'36.057"N	428631,93	796500,53
51	17°52'48.923"E	55°01'35.067"N	428441,74	796472,97
52	17°52'38.235"E	55°01'34.077"N	428251,53	796445,43
53	17°52'27.549"E	55°01'33.087"N	428061,35	796417,89
54	17°52'16.862"E	55°01'32.096"N	427871,15	796390,32
55	17°52'06.175"E	55°01'31.106"N	427680,94	796362,80
56	17°51'55.489"E	55°01'30.115"N	427490,76	796335,25
57	17°51'44.802"E	55°01'29.123"N	427300,55	796307,68
58	17°51'34.116"E	55°01'28.132"N	427110,35	796280,15
59	17°51'23.430"E	55°01'27.140"N	426920,16	796252,60
60	17°51'17.158"E	55°01'26.548"N	426808,52	796236,13
61	17°51'16.230"E	55°01'26.460"N	426792,00	796233,68
62	17°51'09.825"E	55°01'25.825"N	426677,98	796215,92
63	17°51'03.420"E	55°01'25.190"N	426563,96	796198,17
64	17°50'57.025"E	55°01'24.515"N	426450,09	796179,18
65	17°50'50.630"E	55°01'23.840"N	426336,22	796160,19
66	17°50'44.250"E	55°01'23.130"N	426222,60	796140,12
67	17°50'42.833"E	55°01'22.972"N	426197,36	796135,65
68	17°50'37.870"E	55°01'22.420"N	426108,98	796120,05
69	17°50'32.824"E	55°01'21.821"N	426019,09	796103,03
70	17°50'31.505"E	55°01'21.665"N	425995,60	796098,59
71	17°50'25.140"E	55°01'20.910"N	425882,21	796077,14
72	17°50'18.785"E	55°01'20.125"N	425768,99	796054,75
73	17°50'12.430"E	55°01'19.340"N	425655,77	796032,37
74	17°50'06.095"E	55°01'18.510"N	425542,88	796008,60
75	17°49'59.760"E	55°01'17.680"N	425429,99	795984,83
76	17°49'53.435"E	55°01'16.815"N	425317,26	795959,97
77	17°49'47.110"E	55°01'15.950"N	425204,52	795935,12
78	17°49'40.805"E	55°01'15.045"N	425092,12	795909,04
79	17°49'34.500"E	55°01'14.140"N	424979,72	795882,95
80	17°49'28.210"E	55°01'13.200"N	424867,56	795855,78
81	17°49'21.920"E	55°01'12.260"N	424755,40	795828,61
82	17°49'19.920"E	55°01'11.949"N	424719,73	795819,60
83	17°49'15.650"E	55°01'11.285"N	424643,58	795800,36
84	17°49'10.889"E	55°01'10.545"N	424558,67	795778,92
85	17°49'09.380"E	55°01'10.310"N	424531,75	795772,11
86	17°43'07.006"E	55°00'18.149"N	418068,75	794273,67
87	17°43'06.493"E	55°00'18.087"N	418059,60	794271,92
88	17°43'06.000"E	55°00'18.027"N	418050,81	794270,23

3.0 WORK OBJECTIVE

3.1 General

The WORK comprises two main survey campaigns to be executed under a single CONTRACT:

- an engineering survey campaign covering the planned Inter-Array Cable (IAC) network and Offshore Export Cable (offEXC) corridor associated with the Baltic East Offshore Wind Farm, including geophysical investigations, geotechnical investigations, laboratory testing and data integration;
  and
- an engineering UXO SURVEY campaign covering the UXO SURVEY AREA (as defined in Section 1.1). The purpose of this campaign is to detect, position and characterise potential UXO-related targets relevant to the planned installation activities.

Although both survey campaigns form part of the same Contract, they constitute separate scopes of investigation with dedicated survey objectives, methodologies, acceptance criteria and deliverables. Where relevant, data acquired under the individual WORK PACKAGES shall be integrated and cross-correlated to support the overall engineering assessment of the Project.

The WORK shall be divided into four separate WORK PACKAGES. WPA, WPB and WPC form an interdependent engineering investigation sequence, whereas WPD constitutes a separate UXO survey campaign. The WORK PACKAGES may be executed concurrently where technically appropriate and subject to the dependencies defined in this Scope of Work. WPB shall be informed by the relevant WPA results, and WPC shall be based on samples recovered during WPB. WPD may be planned and executed independently of WPA, WPB and WPC, except where coordination or data integration between the WORK PACKAGES is specifically required under this Scope of Work. WORK PACKAGES are defined as:

- **WORK PACKAGE A (WPA)** – Geophysical Survey: acquisition, processing and interpretation of geophysical data. Within the IAC area, WPA shall comprise SBP acquisition only. Within the offEXC corridor, WPA shall comprise SBP, together with optional SCS acquisition where required and instructed in accordance with this Scope of Work. WPA shall additionally include the identification, interpretation and mapping of sub-seabed boulders and boulder-related anomalies detectable in the acquired geophysical datasets.
- **WORK PACKAGE B (WPB)** – Geotechnical Survey: execution of Vibrocore, CPTU and, where required, TCPTU investigations. The planning and final selection of WPB investigation locations shall be based on the available and relevant WPA results and other datasets identified in this Scope of Work.
- **WORK PACKAGE C (WPC)** – Laboratory Testing: performance of laboratory testing on samples recovered during WPB, including preparation, testing, quality control, interpretation and reporting of laboratory results.
- **WORK PACKAGE D (WPD) - UXO SURVEY**: performance of a separate, systematic and comprehensive UXO campaign covering the defined UXO Survey Area, including the identification and mapping of seabed boulders detectable in the acquired WPD datasets.

Unless otherwise approved by the ORDERING PARTY, WPA, WPB, WPC and WPD shall be planned, executed, controlled and reported as separately identifiable Work Packages, with dedicated schedules, progress reporting, deliverables and acceptance milestones. The final deliverables under WPA, WPB and WPC shall be delivered separately for the IAC area and the offEXC corridor.

WPB shall be informed by WPA results. For the offEXC corridor, the final WPB investigation plan shall take into account the results of SBP and interpretation, together with SCS results where SCS has been instructed and performed. For the IAC area, the final WPB investigation plan shall take into account the results of the WPA SBP survey and the existing 2D UHRS data provided by the ORDERING PARTY.

WPC shall be based on samples recovered during WPB. Laboratory testing results, associated databases and reports shall be prepared and delivered separately for the IAC area and the offEXC corridor.

WPD constitutes a separate UXO SURVEY campaign covering the defined UXO SURVEY AREA and shall not be deemed satisfied by localised UXO investigation, clearance, avoidance or target verification activities undertaken solely to enable the safe execution of individual geotechnical investigation locations.

The separation of WPD from WPA, WPB and WPC shall not relieve the CONTRACTOR of its obligations to assess and manage UXO risk associated with the execution of WPB. Where required by this Scope of Work, relevant data shall be reviewed by a suitably qualified EOD/UXO Specialist to support recommendations for UXO risk mitigation and the issuance of the applicable ALARP documentation prior to the execution of geotechnical investigations.

THE WORKS will be executed based on approved GWP's (Geological Works Projects) developed in purpose to execute geological works within the area of OWF Baltic East 46.E.1.

The GWP for export cable routes has already been submitted to the appropriate Polish geological administration body, namely the Ministry of Climate and Environment in October 2026. The issuance of the required approval to undertake the investigation, is expected to be issued in the first quarter of 2027.

The GWP for inter array cable is planned to be submitted to the same Authority in November 2026. The issuance of the required approval to undertake the investigation, is expected to be issued in the first quarter of 2027.

3.2 Purpose of the Survey

The purpose of the survey is to acquire geological, geophysical and geotechnical information necessary for the detailed design, installation and long-term operation of the Inter-Array Cable (IAC) network within the Baltic East Offshore Wind Farm area and the offshore Export Cable (offEXC) corridor connecting the Offshore Substation(s) with the planned landfall location.

The objectives of the survey are as follows:

- To determine geological and geotechnical conditions along the planned IAC and offshore export cable corridors.
- To identify the distribution, thickness and lateral continuity of seabed and sub-seabed sediments within the planned cable corridors.
- To identify geological and geotechnical hazards potentially affecting cable installation, cable burial operations or long-term cable integrity, including shallow gas, buried channels, erosional features, gravel horizons, peat or organic deposits, geological discontinuities and other sub-seabed features relevant to cable engineering.

- To establish geological and geotechnical ground models suitable for cable routing, cable burial assessment, cable protection design and thermal design.
- To provide input data for detailed engineering design of cable installation and protection measures.
- To support assessment of achievable cable burial depth and identification of sections where special installation techniques or protection measures may be required.
- To support thermal assessment of the planned cable system through determination of relevant sediment characteristics and thermal properties.
- To provide calibration and correlation between geophysical and geotechnical datasets.
- To provide sufficient information for preparation of the geological and geotechnical documentation required for subsequent project stages.
- To establish a controlled and auditable progression from geophysical investigation under WPA to geotechnical investigation planning and execution under WPB.
- To ensure that the offEXC WPB investigation plan is developed on the basis of WPA SBP results and, where available, optional SCS results.
- To ensure that the IAC WPB investigation plan is developed on the basis of WPA SBP results and the 2D UHRS data provided by the ORDERING PARTY.
- To provide laboratory test data under WPC, reported separately for the IAC and offEXC investigation areas.
- To identify, locate, map and assess potential UXO and UXO-related hazards within the defined UXO SURVEY AREA under WPD.
- To identify and map seabed boulders detectable in the acquired WPD datasets within the defined UXO SURVEY AREA.
- To identify, interpret and map sub-seabed boulders and sub-seabed boulder-related anomalies to a target depth of 5 m below seabed, using the acquired SBP data and, for the IAC area, supported by the 2D UHRS data provided by the ORDERING PARTY, and to assess their potential relevance to cable routing, burial and installation.
- To provide UXO reconnaissance outputs suitable for subsequent project risk management, route and layout development and, where required, planning of further target investigation, avoidance, clearance or mitigation activities.

The results of the survey shall form the basis for detailed engineering design, cable installation assessment, development of integrated geological and geotechnical ground models and preparation of the geological documentation required under applicable Polish regulations.

4.0 EXISTING SITE INFORMATION

The following geophysical and geotechnical survey investigations were performed within the Baltic East site. All available data will be shared with CONTRACTOR.

Table 4-1 Existing site information

Scope	Covered area and purpose	Year of completion	Resolution
UHRS 2D MCS	162 survey lines (1039 km), whole area 46.E.1 covered	2025	
Hydrographic survey (MBES, SSS, SBP)	133 survey lines (2090,5 km), whole area 46.E.1 covered	2022-2024	OWF: MBES 0.5mx0.5m; SSS 0.2x0.2m
Hydrographic survey (MBES, SSS)	121 survey lines (1401 km), the entire area of the Export Corridor (with the except of a small north-eastern part)	2020	offEXC: MBES 1x1m and 0.25x0.25 pts file/ SSS: 0.2x0.2m
Geotechnical data from the initial campaign	9 BH and 9 CPTu (with depth approximately 70m BSL)	2025/2026	

The 2D UHRS dataset listed in Table 4-1 shall be made available by the ORDERING PARTY to the CONTRACTOR. Within the IAC area, the CONTRACTOR shall use this dataset together with the WPA SBP results when planning, optimising and interpreting the WPB geotechnical investigations.

Within the offEXC corridor, the WPB investigation plan shall primarily be developed on the basis of WPA SBP and MBES results and, where optional SCS has been instructed and performed, the relevant SCS results.

Existing datasets shall not relieve the CONTRACTOR from the obligation to acquire, process, interpret and deliver the data required under the applicable Work Package.

5.0 GEODETIC CONTROL

5.1 Horizontal Datum

The ETRF2000 Poland CS92 (Table 5 - 1) coordinate system is the base system for the project. All acquired data and coordinates should be represented in this horizontal coordinate system as stated in GIS Specification, ref. /2/. It is the basic reference for all data. It is used to ensure that all elements of the PROJECT are consistently represented spatially.

Parameters shift for horizontal datum transformations (e.g. WTG84 to ETRS89 and vice versa) shall be listed in the reports and shall be documented.

The following geodetic datum projection system shall be used during the survey:

Table 5-1 Horizontal datum

Projection Parameters ETRF 2000 Poland CS92	
EPSG	2180
Grid projection	Transverse Mercator
Central meridian	19.0
Latitude of origin	0.0
False easting	500,000.0
False northing	-5,300,000.0
Scale factor	0.9993
Units	Metres
Geodetic CRS	ETRF 2000 Poland
Ellipsoid	GRS 1980
Coordinates are expressed in metres [m]; Linear measurements are expressed in metres [m]; Angular units are expressed in degrees [º].	

5.2 Vertical Datum

Primary Vertical Reference shall be PL-EVRF2007-NH EPSG: 9651 (Polish Local Vertical Reference Framework 2007 – Northern Hemisphere) for all vertical data, measurements should be referenced to the applicable EVRF 2007 geoid model. Geoid EVRF 2007 will be used as the fundamental reference point for sea level measurement.
All survey data must be referenced to PL-EVRF2007-NH datum, and metadata must include details on the vertical reference system to avoid misinterpretation. Any transformations between different vertical datums must be documented with precise transformations parameters and must be approved before use by the ORDERING PARTY.

6.0 WORK PACKAGES REQUIREMENTS

In addition to meet the objectives outlined in Section 3.0, the following specific geotechnical and geophysical survey requirements shall be met by the CONTRACTOR.

The requirements set out in this Section apply to WPA, WPB, WPC and WPD, as relevant. The CONTRACTOR shall maintain clear separation of the scope, execution records, datasets, reporting and deliverables associated with each Work Package.

6.1 Documentation of Proposed Methodology

The CONTRACTOR shall structure its proposed methodology, execution strategy, schedule, resource plan and deliverable register in accordance with WPA, WPB, WPC and WPD.

The Contractor may, at its own discretion, determine the sequence and methodology of executing the surveys, investigations, and associated activities, provided that the data and deliverables are submitted in accordance with the Work Package structure and delivery schedule specified herein.

Notwithstanding the above, WPB shall be planned on the basis of the relevant WPA results. The final selection and positioning of geotechnical investigation locations shall take into account the available results and interpretation of the applicable geophysical survey data acquired under WPA.

The Contractor may perform different Work Packages in parallel; however, the submission of deliverables shall follow the sequence defined in the Work Package structure. A subsequent Work Package may only be delivered after, or concurrently with, the delivery of all preceding Work Package(s), in accordance with the agreed delivery schedule.

The commercial breakdown shall also follow this structure where required by the RFI documentation.

The proposed methodology shall clearly identify the interfaces, dependencies, hold points and data transfer requirements between the individual Work Packages.

In addition to any other documentation required under the RFP, the CONTRACTOR shall clearly and explicitly document the proposed methodology for all Work Packages in its offer, including, but not limited to, the following:

6.1.1 WORK PACKAGE A – GEOPHYSICAL SURVEY

The proposed WPA geophysical investigation methodology shall clearly distinguish between:

- The IAC scope, comprising SBP acquisition only; and
- The offEXC scope, comprising SBP and optional SCS acquisition.

The WPA methodology shall define as applicable:

- acquisition parameters;
- survey geometry and line planning;
- positioning and navigation systems;
- recording parameters;
- equipment configuration, deployment and recovery procedures;
- QA/QC requirements and acceptance criteria;
- onboard and onshore processing workflows;
- interpretation methods;
- methodology and interpretation criteria for the identification, classification and mapping of sub-seabed boulders and sub-seabed boulder-related anomalies in the acquired SBP data;
- methodology of error budget calculating;
- data management and transfer arrangements; and
- separate reporting and deliverables for the IAC area and the offEXC corridor.

The proposed methodology and decision-making process for the implementation of optional SCS acquisition shall apply to the offEXC corridor only. The CONTRACTOR shall define the criteria to be applied when assessing whether the WPA SBP data provide sufficient penetration depth and data quality for reliable geological interpretation. Optional SCS shall not form part of the IAC scope unless separately instructed by the ORDERING PARTY in accordance with the applicable contractual change procedure.

The ORDERING PARTY may provide MBES and SSS data acquired between 2022 and 2024 for the OWF site. The CONTRACTOR may utilise these datasets as supporting information.

Alternatively, if deemed appropriate within the proposed survey strategy, the CONTRACTOR may acquire equivalent data as part of the scope of this CONTRACT.

The WPA methodology shall include a systematic review and interpretation of the acquired SBP data for evidence of sub-seabed boulders and sub-seabed boulder-related anomalies to a target depth of 5 m below seabed. The methodology shall define the applicable detection and interpretation criteria, confidence classes and data limitations, including the minimum dimensions and burial depth of sub-seabed boulders that can be reliably identified from the dataset.

6.1.2 WORK PACKAGE B – GEOTECHNICAL SURVEY

The proposed WPB geotechnical investigation methodology shall include:

- ALARP certification for each geotechnical investigation location, covering an area of at least 30 × 30 m;
- Procedure for relocation of geotechnical investigation locations where the initially surveyed 30 × 30 m box cannot be certified as ALARP;
- Vibrocore acquisition procedures;
- CPTU and, where proposed or required, TCPTU investigation procedures;
- survey and investigation equipment;
- deployment methodology;
- positioning systems;
- QA/QC procedures and acceptance criteria;
- sample recovery, handling, labelling, storage and transportation protocols; and
- field data recording and reporting arrangements.

The proposed WPB methodology shall describe how the geotechnical investigation plans will be reviewed, optimised and finalised following the availability and interpretation of the relevant WPA datasets.

For the offEXC corridor, the methodology shall demonstrate how the WPA SBP and MBES results and, where optional SCS has been instructed and performed, the corresponding SCS results will be used to select and optimise Vibrocore, CPTU and TCPTU investigation locations.

For the IAC area, the methodology shall demonstrate how the WPA SBP results and the 2D UHRS data provided by the ORDERING PARTY will be jointly reviewed and used to select and optimise the Vibrocore, CPTU and TCPTU investigation locations.

The methodology shall identify the proposed WPB hold points and shall demonstrate that offshore execution of the relevant part of WPB will not commence until:

- the relevant WPA data have been processed and interpreted to a level sufficient for geotechnical location planning;
- for the IAC area, the 2D UHRS data provided by the ORDERING PARTY have been reviewed;
- the proposed final WPB investigation plan has been submitted to the ORDERING PARTY; and

- the proposed final WPB investigation plan has been reviewed and approved in writing by the ORDERING PARTY.

The location selection process shall consider geological variability, identified hazards, interpreted stratigraphy, areas of uncertainty, engineering relevance and the need for direct calibration of geophysical interpretation.

6.1.3 WORK PACKAGE C – LABORATORY TESTING

Contractor's WPC laboratory methodology shall include:

- the proposed laboratory testing programme and schedule;
- applicable standards and testing procedures;
- sample selection criteria;
- sample allocation, preparation and preservation procedures;
- testing methods and equipment;
- laboratory accreditation and personnel competence requirements;
- QA/QC requirements;
- data verification and validation procedures;
- procedures for identifying and resolving anomalous or inconsistent results;
- digital data formats and laboratory data registers; and
- separate reporting and deliverable arrangements for the IAC area and the offEXC corridor.

The methodology shall describe how the laboratory testing programme will be developed and, where required, updated based on sample recovery, sample quality, geological variability, engineering requirements and the findings of WPA and WPB.

6.1.4 WORK PACKAGE D – UXO SURVEY

The proposed WPD methodology shall demonstrate how the selected sensor configuration and survey geometry will achieve the required coverage, target detection performance and positioning accuracy across the complete UXO SURVEY AREA.

As a minimum, the WPD methodology shall include:

- the proposed UXO survey systems and sensor configuration;
- review available UXO/historical/geophysical information
- survey geometry, line spacing and coverage requirements;
- proposed survey speed and sensor altitude;
- QA/QC requirements and acceptance criteria;
- detection performance and target detection criteria;
- positioning and navigation methodology;
- equipment calibration, verification and test procedures;
- a coverage and accuracy of acquired data;

- data acquisition, processing and interpretation workflows;
- data quality criteria and procedures for the identification and reacquisition of data gaps;
- target detection, positioning, correlation and de-duplication procedures;
- target identification, classification and prioritisation methodology;
- preparation and quality control of the master target register;
- integration and correlation of UXO survey data with other relevant project datasets;
- methodology and interpretation criteria for the identification, classification and mapping of seabed boulders detectable in the acquired WPD datasets, including correlation with relevant bathymetric and seabed imaging data;
- limitations, uncertainties and residual risk reporting;
- separate reporting and deliverables for:
    - the OWF area (IAC corridors, and WTG/OSS areas); and
    - the offEXC route corridors;
- the proposed approach to recommendations for subsequent target investigation, avoidance, clearance or other mitigation measures.

The proposed WPD methodology shall describe how the acquired datasets will be reviewed and interpreted for evidence of seabed boulders. The CONTRACTOR shall identify the WPD sensors and datasets suitable for this purpose and describe how the interpretation will be correlated with available MBES, SSS, bathymetric and/or other relevant seabed imaging data. Magnetic or electromagnetic anomalies shall not be classified as seabed boulders unless supported by appropriate seabed imaging or other corroborating evidence.

The methodology shall demonstrate how comprehensive survey coverage of the complete defined UXO SURVEY AREA will be achieved. WPD shall not be limited to localised UXO investigation of individual WPB locations. Survey coverage outside the defined UXO SURVEY AREA, including the entire OWF area or the wider offEXC corridor, is not required unless separately instructed by the ORDERING PARTY.

The methodology shall clearly distinguish the WPD scope from any localised UXO investigation, target verification, avoidance or clearance activities required to enable the safe execution of individual Vibrocore, CPTU, TCPTU or other intrusive investigation locations under WPB.

Unless expressly instructed by the ORDERING PARTY under a separate contractual instruction, the WPD methodology shall not include or assume intrusive target investigation, recovery, neutralisation, disposal or clearance of UXO.

6.1.5 UXO Risk Assessment and ALARP Certification Requirements

6.1.5.1 WPB

Prior to commencement of intrusive geotechnical activities under Work Package B (WPB), the CONTRACTOR shall ensure that an appropriate UXO risk assessment has been completed for all planned Vibrocore and CPTU investigation locations. The UXO risk assessment shall be prepared and/or reviewed by a suitably qualified and experienced UXO/EOD Consultant and shall consider all available relevant information, including the project UXO risk assessment, historical information, available geophysical data, identified potential UXO (pUXO) targets, survey coverage, data quality and the nature and depth of the planned seabed penetration.

For WPB, the UXO/EOD Consultant shall determine whether the residual UXO risk associated with each planned Vibrocore and CPTU location has been reduced to As Low As Reasonably Practicable (ALARP) and shall issue an appropriate ALARP Certificate, statement or equivalent formal recommendation prior to commencement of the intrusive investigation.

No Vibrocore or CPTU investigation shall commence until the relevant location has been assessed and released for intrusive investigation from a UXO risk perspective and the applicable ALARP documentation has been submitted to and accepted by the ORDERING PARTY.

Where a planned investigation location cannot be released due to an identified pUXO target, insufficient survey information, unacceptable residual UXO risk or other UXO-related uncertainty, the UXO/EOD Consultant shall provide recommendations for appropriate mitigation measures, which may include further investigation, avoidance, relocation of the investigation point and/or UXO clearance, as applicable.

6.1.5.2 WPD

For Work Package D (WPD), a suitably qualified and experienced UXO/EOD Consultant shall review and assess the results of the UXO Survey, including all relevant MBES, SSS and magnetometer/gradiometer datasets and the resulting integrated pUXO target database.

The UXO/EOD Consultant shall be responsible for the review and validation of the identified pUXO targets and assessment of the residual UXO risk. A comprehensive Master Target List (MTL) shall be prepared, documenting the identified pUXO targets and providing the basis for the subsequent UXO risk assessment and recommendations.

Following completion of the WPD UXO Survey, the UXO/EOD Consultant shall provide a formal UXO risk assessment and recommendations for any further actions required to manage the identified UXO risk. The recommendations shall identify, as applicable, requirements for further investigation, target verification and identification, avoidance, relocation, additional survey, clearance and/or other appropriate UXO risk mitigation measures.

The absence of identified pUXO targets shall not, by itself, be considered sufficient evidence of an acceptably low residual UXO risk. The assessment shall consider, as a minimum, achieved survey coverage, target detection performance, positioning accuracy, data quality, survey limitations and residual uncertainties.

The WPD scope shall not include the issuance of ALARP Cards, ALARP certificates or equivalent UXO clearance certification.

6.1.6 INTEGRATED METHODOLOGY and GENERAL REQUIREMENTS

The CONTRACTOR shall demonstrate how the proposed methodology will achieve the objectives defined in Section 3.2 and comply with the applicable Geological Works Project(s).

The CONTRACTOR shall describe how the individual WORK PACKAGES will be coordinated and, where applicable, how data and results will be integrated and correlated between the relevant WORK PACKAGES.

The proposed integration and correlation methodology shall clearly distinguish between the two investigation areas. The CONTRACTOR shall also describe how the relevant data provided by the

ORDERING PARTY will be incorporated, used and correlated with the data acquired under this CONTRACT.

For the IAC area, the methodology shall describe the integration and correlation of WPA SBP data, the available 2D UHRS data provided by the ORDERING PARTY, WPB investigation results and WPC laboratory testing results.

For the offEXC corridor, the methodology shall describe the integration and correlation of WPA SBPand, SCS data where applicable, WPB investigation results and WPC laboratory testing results.

The integrated interpretation shall address, as applicable, geological and geotechnical ground conditions, geohazards and constraints relevant to cable installation, burial, protection, thermal behaviour and long-term operation.

The CONTRACTOR shall describe the proposed communication, review and approval workflow, including applicable review, approval and hold points for each WORK PACKAGE.

WPD shall be addressed separately within the proposed methodology. The CONTRACTOR shall demonstrate how the proposed WPD methodology will achieve the required survey coverage, data quality, target detection and positioning performance necessary to support the identification and assessment of pUXO targets, preparation of the Master Target List (MTL), UXO risk assessment and recommendations for any required further investigation, avoidance, clearance or other mitigation measures.

6.2 Imaging and Accuracy

The proposed geophysical survey systems shall provide sufficient resolution, penetration and data quality to support geological interpretation to the depth required by this Scope of Work and the identification and interpretation of sub-seabed boulders and boulder-related anomalies to a target depth of 5 m below seabed.

The CONTRACTOR shall define the expected horizontal and vertical positioning accuracy of the proposed survey systems and identify the main factors affecting data quality, resolution, penetration and positioning uncertainty.

6.3 Equipment Mobilisation, Calibration and Verification

The ORDERING PARTY Company Representative(s) shall supervise the mobilisation, calibration and verification of all geotechnical and geophysical survey equipment.

Prior to commencement of offshore operations, a full dimensional control, positioning systems and deployed equipment shall be performed. The dimensional control report shall be submitted to the ORDERING PARTY for review and acceptance before offshore operations commence. The CONTRACTOR shall submit all Mobilisation and Calibration Task Plan and Procedure, calibration procedures and acceptance criteria for review and approval by the ORDERING PARTY prior to mobilisation.

The Company Representative(s) shall have the opportunity to observe the mobilisation, calibration and verification activities onboard the survey vessel(s) and shall be granted access to relevant procedures, records and reports.

Mobilisation shall be deemed complete only when all survey systems are fully operational and all required calibration and verification activities have been successfully completed and documented in Mobilisation and Calibration Report.

Prior to commencement of the survey programme, the CONTRACTOR shall ensure, demonstrate and document that all equipment to be used within the scope of the works has been verified and calibrated in accordance with applicable standards, manufacturer's recommendations and industry best practice. The CONTRACTOR shall demonstrate that the Total Propagated Error (TPE) associated with the positioning systems is compatible with the accuracy requirements defined within this Scope of Work.

The calibration documentation together with the Mobilisation and Calibration Report shall be submitted to the ORDERING PARTY no later than 72 hours following completion of mobilisation activities.

6.4 Survey operations

6.4.1 Work Package A - Geophysical Survey

Under WPA, the CONTRACTOR shall perform the geophysical survey acquisition for the IAC area and the offEXC corridor in accordance with the applicable Geological Works Project(s) and this Scope of Work.

The indicative survey scope and acquisition requirements are summarised below:

Table 6-1 survey scope and acquisition requirements

Area	Approx. Lenght route	Mandatory Acquision	Survey line arrangement	Optional acquisition
IAC	99 km	SBP	One centreline along each planned cable alignment plus two offset lines at approximately ±25 m plus crosslines at approximately 2 km intervals	Two additional offset lines at approximately ±50 m
OffEXC	Approx. 60 km total cable route length (both export cables)	SBP	Longitudinal lines as defined below, plus crosslines at approximately 2 km intervals	SCS

For the IAC area, SCS acquisition is not required under WPA. The available 2D UHRS data provided by the ORDERING PARTY shall be used together with the acquired SBP data during subsequent WPB planning and interpretation.

For the offshore Export Cable (offEXC) the final survey line kilometrage shall be determined based on the approved survey geometry supplied by the ORDERING PARTY.

For the offEXC corridor, the longitudinal survey layout shall comprise:

Table 6-2 offEXC configuration

offEXC configuration	Longitudinal survey lines
Base configuration: two export cable circuits	One line along each cable centreline, two outer wing lines and two additional lines between the cable alignments, giving six longitudinal lines in total
Optional configuration: four export cable circuits within a common corridor	One line along each cable centreline, two outer wing lines and two additional lines between the cable alignments, giving eight longitudinal lines in total
Diverging northern sections	Following route separation, five longitudinal lines per cable group, giving ten longitudinal lines across both separated groups

The final survey line plan and associated kilometrage shall be prepared by the CONTRACTOR based on the survey geometry provided by the ORDERING PARTY and the requirements of this Scope of Work.

Where review of the acquired offEXC SBP data indicates insufficient penetration or data quality for reliable geological interpretation, the CONTRACTOR shall identify the affected sections and recommend where additional SCS coverage is required.

The proposed SBP system and acquisition configuration shall provide sufficient resolution, penetration and data quality to support the identification and subsequent interpretation of sub-seabed boulders and boulder-related anomalies to a target depth of 5 m below seabed.

6.4.2 Work Package B - Geotechnical Survey

The Contractor shall perform geotechnical investigations in accordance with the approved Geological Works Projects (GWP).

WPB shall comprise Vibrocore (VC), CPTU and, where required, Thermal CPTU (TCPTU) investigations. The indicative investigation scope is summarised below:

Table 6-3 Planned Geotechnical Survey Scope

Investigation Area	Investigation Type	Target Depth	Mandatory Scope	Optional Scope
IAC	Vibrocore (VC)	6 m BSB	77 locations	20 locations
IAC	CPTU/TCPTU	6 m BSB	77 locations	20 locations
offEXC	Vibrocore (VC)	6 m BSB	52 locations	
offEXC	CPTU/TCPTU	6 m BSB	52 locations	

The final WPB investigation locations shall be planned and optimised based on the available and relevant WPA results. For the IAC area, the available 2D UHRS data provided by the ORDERING PARTY shall additionally be taken into account.

Geotechnical investigation locations shall, wherever practicable, be positioned on the relevant WPA survey lines.

The CONTRACTOR shall prepare separate final WPB investigation plans for the IAC area and the offEXC corridor and submit them to the ORDERING PARTY for review and approval prior to commencement of the respective offshore geotechnical investigations.

For the offEXC corridor, the proposed final locations of Vibrocore, CPTU and TCPTU investigations shall be selected and optimised on the basis of the acquired and interpreted WPA SBP and MBES datasets and, where optional SCS has been performed, the corresponding SCS results.

Where thermal characterisation is required, CPTU may be supplemented or replaced by TCPTU, subject to the requirements of this Scope of Work.

Offshore execution of the relevant WPB investigations shall not commence until:

- the relevant WPA results are available to a level sufficient for final WPB location planning;
- for IAC, the available 2D UHRS data provided by the ORDERING PARTY have been reviewed; and
- the applicable final WPB investigation plan has been reviewed and approved by the ORDERING PARTY.

Approval of the WPB investigation plan shall not relieve the CONTRACTOR of its obligations under this Scope of Work or the applicable Geological Works Projects.

Execution of each intrusive geotechnical investigation shall be subject to completion of the applicable UXO risk management requirements defined in this Scope of Work.

6.4.3 Work Package C – Laboratory Testing

Under WPC, the CONTRACTOR shall perform laboratory testing of samples recovered during WPB in accordance with the applicable Geological Works Project(s), this Scope of Work and the approved laboratory testing schedule.

The CONTRACTOR shall prepare the laboratory testing schedule based on the recovered materials, sample quality and relevant WPA and WPB results. The proposed schedule shall be submitted to the ORDERING PARTY for review and approval prior to commencement of the main laboratory testing programme.

Laboratory testing and associated results shall be clearly assigned to either the IAC area or the offEXC corridor.

The laboratory testing programme shall include the tests required by the applicable Geological Works Project(s) and the relevant technical requirements of this Scope of Work.

The program of offshore and onshore geotechnical laboratory tests including estimated number of tests and applicable methodologies (ISO – International Organization of Standardization, ASTM International, BS – British Standards) are presented below in Table 6-4.

Table 6-4Scope for the purpose of classification study, physical properties of soils.

Standard tests	Methodology*	Estimated number of tests**	
		base scope	optional scope
Macroscopic description of the cores	PN-EN ISO 14688-1 PN-EN ISO 14688-2 PN-EN ISO 14689-1 Munsell Soil Color Charts	all cores	
Determination of particle density	PN-EN ISO 17892-3	125	15
Determination of bulk density (fine-grained soils)	PN-EN ISO 17892-2	255	15
Natural moisture content	PN-EN ISO 17892-1	125	15
Atterberg limits – determination of plastic limit	PN-EN ISO 17892-12 or ASTM D4318	125	15
Atterberg limits – determination of liquid limit	PN-EN ISO 17892-12 ASTM D4318	125	15
Maximum and minimum bulk density	PN-EN ISO 17892-2 or PN-88/B-04481	82	5
Particle Size Distribution	PN-EN ISO 17892-4 or ASTM D6913	185	15
Particle Size Distribution Including using Hydrometer Method	PN-EN ISO 17892-4	132	5
Organic matter content analysis	ISO 10694:1995 or ASTM D2974-20 or PN-88/B-04481	41	2
Termination of thermal conductivity (near surface layer up to 6 MBSB)	ASTM D5334 – 14 / IEEE 442 (metoda igłowa)	115	15
Measurement of soil resistivity (near-surface layer up to 6 MBSB)	BS 1377:2018: Part 3 or ASTM G57 20	150	15
Aggressiveness of water towards concrete and steel (surface water)	PN-EN 206-1+A1:2016-12 or DIN 50929	4	1
Incremental loading oedometer test (ca. 12 load steps – at least one load relief during test)	PN-EN ISO 17892-5	36	2
(Pocket penetrometr, Torvane)	PN-88/B-04481 or BS 1377-7 1990	182	15
Soil sensitivity tests with a laboratory shear vane	BS 1377-7 1990	117	15
Strenght tests in unconsolidated undrained conditions (UU) in a triaxial compression apparatus (TXC)	PN-EN ISO 17892-8	5	5
Strenght tests in consolidated undrained conditions (CU) in a triaxial compression apparatus (TXC)	PN-EN ISO 17892-9	5	5
Strenght tests in consolidated drained conditions (CD) in a triaxial compression apparatus (TXC)	PN-EN ISO 17892-9	5	5

* It is permissible to replace the testing methodology with an equivalent one.

** The number of samples taken for testing may change (increase or decrease), depending on the identified ground conditions.

6.4.4 Work Package D – UXO SURVEY

The WPD survey shall comprise magnetometer and/or magnetic gradiometer, MBES and SSS acquisition. The survey configuration shall provide a minimum of 100% magnetic coverage and 100% MBES coverage of the defined UXO SURVEY AREA, together with 200% SSS coverage. the data should allow to detect at least 20cm targets.

Under WPD, the CONTRACTOR shall perform a separate, systematic UXO SURVEY providing complete coverage of the defined UXO SURVEY AREA.

The mandatory WPD survey coverage shall comprise:

Table 6-5 WPD survey coverage

Survey Area	Mandatory Coverage
IAC routes	100 m wide corridor along each planned IAC route, extending 50 m either side of the route centreline
offEXC routes	100 m wide corridor along each planned offEXC route, extending 50 m either side of the route centreline
WTG locations	Full area within a 225 m radius from the centre of each planned WTG
OSS locations	Full area within a 225 m radius from the centre of each planned OSS

The WPD survey design and final line plan shall be based on the latest route centrelines and WTG and OSS locations issued or approved by the ORDERING PARTY.

Where individual UXO SURVEY AREAs overlap, they may be combined into a single continuous survey block, provided that complete coverage of the required survey extent is achieved. Duplicate acquisition within overlapping areas is not required unless necessary to meet the specified coverage or data quality requirements.

The CONTRACTOR shall propose the survey geometry and sensor configuration necessary to achieve continuous and demonstrable coverage of the UXO SURVEY AREA and the specified target detection and positioning requirements.

Systematic UXO survey coverage outside the defined UXO SURVEY AREA is not included in the WPD scope unless separately instructed by the ORDERING PARTY.

WPD does not include intrusive target investigation, recovery, neutralisation, disposal or clearance of UXO unless separately instructed by the ORDERING PARTY.

The CONTRACTOR shall immediately notify the ORDERING PARTY where the acquired data indicate a potentially significant UXO-related hazard requiring urgent review or potential modification of ongoing offshore activities.

6.4.5 Line Plans and Infills

The CONTRACTOR shall prepare and maintain the applicable survey line plans, geotechnical investigation plans and area coverage plans separately for WPA, WPB and WPD. Any changes to the proposed line plan shall be communicated to the ORDERING PARTY and Client Representative. If infills are required, CONTRACTOR shall plan to undertake this in the most

operationally efficient way and shall provide proposed infill plans to the onboard Client Representative for review. ORDERING PARTY is not liable for any infill costs required to meet primary scope objectives as detailed in the contract. Any additional work approved by ORDERING PARTY shall be subject to terms as agreed in the contract.

6.4.6 On-Vessel Processing and Data Acceptance

Preliminary processed data and QC information shall be made available to the Offshore Client Representative within 24 hours of acquisition to enable verification of data quality, survey coverage and compliance with the applicable acquisition requirements. The CONTRACTOR shall provide a daily graphical QC report summarising the acquisition status, data quality, coverage, identified data gaps or deficiencies and any required corrective actions.

Where the acquired data do not meet the applicable requirements or acceptance criteria, the Offshore Client Representative may require re-acquisition of the affected line or area at the CONTRACTOR's cost.

Onboard QC information shall include, as applicable to the survey systems used:

- survey and sensor tracklines in GIS-compatible format;
- coverage plots and identification of data gaps or areas of insufficient data quality;
- acquisition and QC logs, including relevant acquisition parameters and QC comments;
- navigation and GNSS quality information;
- SBP/SCS: preliminary seismic/seismo-acoustic data in SEG-Y format;
- Magnetometer/gradiometer: residual magnetic data, sensor altitude/depth information and magnetic coverage;
- SSS: preliminary HF mosaic and coverage plots;
- MBES: preliminary bathymetric surface, coverage/gap analysis, data density and uncertainty/quality information;
- vessel track information for each survey day; and
- other sensor-specific QC information necessary to demonstrate compliance with the applicable survey requirements.

6.5 Quality Control Standards

The CONTRACTOR shall establish, implement and maintain a comprehensive Quality Assurance and Quality Control programme covering WPA, WPB, WPC and WPD, including acquisition, sampling, handling, testing, processing, interpretation, reporting, data management and delivery activities, as applicable.

The QA/QC programme shall ensure that all acquired data are fit for purpose and suitable to achieve the objectives defined in Section 3.2.

The CONTRACTOR shall define and document acceptance criteria for all investigation methods and shall continuously monitor compliance with such criteria throughout the project execution.

6.5.1 Geotechnical Quality Control

The CONTRACTOR shall implement quality control procedures for all Vibrocore (VC), CPTU and optional TCPTU investigations.

As a minimum, geotechnical QC shall include:

- verification of the actual position and achieved investigation depth at each location;
- documentation of refusals, obstructions, premature terminations and deviations from the approved investigation plan or procedures;
- verification of field records and data quality; and
- review of field logs and QC records by appropriately qualified geotechnical and/or geological personnel.

For Vibrocore investigations, QC shall additionally include:

- recovered core length and core recovery;
- core and sample quality, including disturbance where relevant;
- lithological logging and photographic documentation; and
- verification of sample identification, labelling, storage and transport.

For CPTU and TCPTU investigations, QC shall additionally include:

- monitoring of penetration rate and probe inclination;
- monitoring and verification of recorded parameters, including qc, fs and u2, and thermal parameters where applicable to TCPTU;
- pre-test and post-test zero readings/drift checks, as applicable;
- verification of calibration status; and
- documentation of interruptions, anomalous readings and other conditions affecting data quality.

6.5.2 Geophysical Quality Control

The CONTRACTOR shall implement and document quality control procedures for all geophysical survey systems used under the WORK, including, as applicable, SBP, SCS, MBES, SSS and magnetometer/gradiometer systems.

As a minimum, geophysical QC shall include:

- positioning and navigation quality;
- equipment and sensor performance;
- verification of survey coverage and identification of data gaps;
- signal and data quality, including noise monitoring;
- achieved penetration and resolution, where applicable;
- data completeness and integrity; and
- identification and documentation of data not meeting the applicable acceptance criteria.

For SBP and SCS, QC shall verify that the acquired data provide sufficient penetration, resolution and signal-to-noise ratio to meet the applicable geological interpretation requirements. For SBP, this shall include verification that the data quality is sufficient to support the required assessment of sub-seabed boulders and boulder-related anomalies.

For MBES, SSS and magnetometer/gradiometer data, QC shall verify the applicable coverage, positioning, sensor performance, data quality and detection requirements defined in this Scope of Work.

Data gaps, unacceptable data quality or other deficiencies that may affect achievement of the survey objectives shall be clearly identified and, where required to meet the applicable acceptance criteria, subject to re-acquisition.

Onboard QC records shall include, as applicable:

- survey and sensor tracklines;
- coverage and data-gap plots;
- QC and acquisition logs;
- preliminary processed data suitable for onboard quality assessment; and
- records of identified deficiencies and any corrective or re-acquisition actions.

6.5.3 Laboratory Quality Control

The CONTRACTOR shall implement and document QA/QC procedures for all WPC laboratory testing.

As a minimum, laboratory QA/QC shall include:

- verification of sample identification, condition and chain of custody;
- verification of appropriate sample storage and preservation;
- verification of sample selection and allocation to the approved testing programme;
- use of appropriately accredited or otherwise approved laboratories;
- verification of equipment calibration and compliance with applicable test standards and approved test methods;
- documentation of sample disturbance, loss or unsuitability for testing;
- review and validation of test results by appropriately qualified personnel; and
- identification, investigation and documentation of anomalous or inconsistent test results.

6.5.4 UXO Quality Control

The CONTRACTOR shall implement additional QA/QC procedures specific to WPD, supplementing the general Geophysical Quality Control requirements.

As a minimum, WPD-specific QA/QC shall include:

- verification of the required target detection performance through the applicable calibration and test procedures;

- verification that the required survey coverage extends to the full boundaries of the defined UXO SURVEY AREA;
- verification of magnetometer/gradiometer sensor altitude, layback, offsets and other parameters affecting target detection and positioning;
- identification and re-acquisition of any areas not meeting the applicable WPD coverage or detection requirements;
- QC of target detection, correlation, de-duplication and classification; and
- senior review and validation of the final Master Target List (MTL) and associated target classifications.

6.6 Data processing

The CONTRACTOR shall provide a detailed data processing methodology as part of the pre-project documentation for review by the ORDERING PARTY.

Processing workflows shall be appropriate to the survey systems used and shall maintain traceability between raw data, processed datasets and subsequent interpretation outputs. Processed datasets shall be clearly assigned to the relevant WORK PACKAGE and investigation area.

As a minimum, geophysical data processing shall include, as applicable:

- navigation and geometry verification and correction;
- positioning, layback and sensor offset corrections;
- depth and other sensor-specific corrections;
- noise attenuation and filtering;
- signal enhancement and amplitude correction, where applicable;
- data quality and completeness checks; and
- generation of interpretation-ready datasets.

For WPA, processing shall preserve the resolution, amplitude and spatial information required for geological interpretation and for the identification and interpretation of sub-seabed boulders and boulder-related anomalies. Processing parameters shall not unnecessarily suppress discrete reflection or diffraction features potentially associated with such anomalies.

Where SCS data are acquired, the processing shall provide interpretation-ready data suitable for assessment of geological conditions below the effective penetration depth of SBP.

For WPB, geotechnical data processing shall include, as applicable, verification and correction of investigation coordinates and depths, processing and validation of CPTU/TCPTU measurements, compilation of Vibrocore logs and recovery records, and preparation of quality-controlled datasets suitable for subsequent geological and geotechnical interpretation. The processing workflow shall maintain traceability between the original field records, processed data and final investigation results.

For WPC, laboratory test data shall be validated, compiled and linked to the corresponding WPB investigation locations and samples to ensure full traceability and subsequent integration with the geological and geotechnical datasets.

For WPD, processing shall include all applicable sensor-specific corrections and processing necessary to support reliable target detection, positioning and subsequent interpretation. The processing workflow shall maintain traceability between raw survey data, processed datasets, detected anomalies and the Master Target List (MTL).

WPD processing parameters shall preserve the information required for the detection and interpretation of discrete seabed objects, including potential UXO-related targets and seabed boulders, where detectable using the applicable survey systems.

The processing methodologies shall be submitted to the ORDERING PARTY for review prior to commencement of final processing activities.

6.7 Data Interpretation

6.7.1 General Interpretation Requirements

The CONTRACTOR shall undertake an integrated geological and geotechnical interpretation of the relevant WPA, WPB and WPC datasets. WPD data shall be interpreted separately in accordance with the UXO-specific requirements of this Scope of Work.

The geological and geotechnical interpretation shall identify and characterise, where present and detectable in the available datasets:

- stratigraphic and lithological boundaries;
- sediment distribution and geological variability;
- buried channels and erosional features;
- gravel horizons and organic deposits;
- geological discontinuities;
- sub-seabed boulder risk areas and, where reliably identifiable, individual sub-seabed boulders and boulder-related anomalies; and
- other geological hazards and constraints relevant to cable installation, burial and operation.

Interpretation shall include an assessment of data quality, interpretation confidence, uncertainty and limitations.

6.7.2 Integrated Geological and Geotechnical Interpretation

The CONTRACTOR shall integrate and correlate the available geophysical, geotechnical and laboratory datasets as follows:

Investigation Area	Datasets to be integrated
IAC	WPA SBP data; available 2D UHRS data and interpretation provided by the ORDERING PARTY; WPB Vibrocore and CPTU/TCPTU results; WPC laboratory testing results
offEXC	WPA SBP data; SCS data where acquired; WPB Vibrocore and CPTU/TCPTU results; WPC laboratory testing results

For the IAC area, the CONTRACTOR shall use the available 2D UHRS data and geological/geohazard information provided by the ORDERING PARTY to support correlation and interpretation of the newly acquired WPA, WPB and WPC datasets.

For the offEXC corridor, the CONTRACTOR shall identify, interpret and map the geological conditions, geological hazards and constraints relevant to cable installation, burial and operation based on the available and newly acquired datasets.

Where SCS data are acquired, they shall be integrated with the SBP interpretation to support assessment of deeper geological conditions and associated interpretation uncertainty.

6.7.3 Sub-Seabed Boulder Interpretation

The CONTRACTOR shall undertake a systematic assessment of the available WPA datasets for evidence of sub-seabed boulders and boulder-related anomalies within the upper 5 m below seabed (BSB). The interpretation shall identify and delineate areas of increased sub-seabed boulder occurrence or boulder-related risk. Where individual features can be reliably distinguished in the available data, individual sub-seabed boulders and boulder-related anomalies shall be picked and mapped.

6.7.4 Geotechnical Interpretation Outputs

Interpretation outputs shall be prepared and maintained separately for the IAC area and the offEXC corridor and shall include, as applicable:

- geological longitudinal profiles along the cable routes;
- geological and geotechnical ground models;
- interpreted geological horizons and units;
- geohazard and geological constraint mapping;
- engineering geological interpretation relevant to cable installation, burial and operation; and
- assessment of data quality, interpretation confidence, uncertainty and limitations.

6.7.5 Kingdom Interpretation Project

The integrated geological and geotechnical interpretation shall be maintained in a Kingdom 2025 interpretation environment.

The Kingdom project shall be structured to clearly distinguish between the IAC area and the offEXC corridor and shall contain, as applicable:

- processed geophysical datasets;
- interpreted geological horizons and surfaces;
- relevant geotechnical and laboratory investigation data;
- interpreted geohazards and geological constraints;
- sub-seabed boulder interpretation;

- geological and geotechnical models; and
- associated metadata.

The CONTRACTOR shall apply a clear and consistent project structure and naming convention and shall provide sufficient supporting documentation to allow the ORDERING PARTY to efficiently navigate, review and continue working with the delivered Kingdom project.

The final Kingdom project shall be delivered to the ORDERING PARTY as part of the final project deliverables.

6.7.6 WPD UXO Data Interpretation

WPD data shall be interpreted separately from the integrated geological and geotechnical interpretation.

The WPD interpretation shall include, as applicable:

- detection and correlation of anomalies;
- target positioning and de-duplication;
- classification and confidence assessment of potential UXO-related targets;
- preparation and validation of the Master Target List (MTL);
- assessment of data limitations and residual uncertainty; and
- identification of information required to support the subsequent UXO risk assessment and recommendations for further actions.

The CONTRACTOR shall clearly distinguish potential UXO-related targets from other anthropogenic objects, geological features and seabed boulders.

The Master Target List shall provide a quality-controlled and traceable record of the identified potential UXO-related targets and shall provide the basis for subsequent UXO risk assessment and recommendations.

6.7.7 WPD Seabed Boulder Interpretation

In addition to UXO target interpretation, the CONTRACTOR shall review the WPD datasets for evidence of seabed boulders where detectable using the applicable survey systems. Seabed boulder interpretation shall be correlated with available SSS, MBES, bathymetric and other relevant seabed imaging data.

Seabed boulders shall be maintained as a separate interpreted dataset and shall not be included in the UXO Master Target List unless the applicable feature independently meets the criteria for classification as a potential UXO-related target.

6.8 Reporting

The CONTRACTOR shall prepare and submit the reporting and data packages specified below. Reports and deliverables shall be clearly assigned to the applicable WORK PACKAGE and investigation area.

Where a report combines information from more than one WORK PACKAGE, the scope, results and deliverables relating to each WORK PACKAGE and investigation area shall remain clearly identifiable.

Table 6-6 Reports list

WORK PACKAGE	Report / Deliverable	IAC	offEXC
WPA	Mobilisation and Calibration Report	✓	✓
WPA	Daily Progress Reports (DPR) and Weekly Progress Reports (WPR)	✓	✓
WPA	Field Report	✓	✓
WPA	Factual Report	✓	✓
WPA	Geophysical Results and Interpretation Report	✓	✓
WPB	Mobilisation and Calibration Report	✓	✓
WPB	Daily Progress Reports (DPR) and Weekly Progress Reports (WPR)	✓	✓
WPB	Field Report	✓	✓
WPB	Factual Report	✓	✓
WPC	Laboratory Testing Report and associated data package	✓	✓
Integrated WPA/WPB/WPC	Integrated Ground Model Report	✓	✓
Integrated WPA/WPB/WPC	Geohazard Assessment	x	✓
Integrated WPA/WPB/WPC	Kingdom Project Description Report	✓	✓
WORK PACKAGE	**Report / Deliverable**	**IAC / OWF**	**offEXC**
WPD	Mobilisation and Calibration Report	✓	✓
WPD	Daily Progress Reports (DPR) and Weekly Progress Reports (WPR)	✓	✓
WPD	Field Report	✓	✓
WPD	Factual Report	✓	✓
WPD	Engineering UXO survey Results and Interpretation Report	✓	✓
WPD	UXO Survey Report and Master Target List (MTL)	OWF package covering IAC, WTG and OSS survey areas	Separate offEXC package
All applicable WPs	GIS and associated digital data packages	As applicable	As applicable

The Field Reports shall be submitted to the ORDERING PARTY within 5 calendar days following completion of the applicable offshore field activities and completion of the CONTRACTOR's field data QC.

Final factual, interpretation and integrated reports shall be prepared following completion of the applicable processing, validation, interpretation and integration activities.

Reports shall contain sufficient information to document the work performed, results obtained, data quality and limitations, together with the applicable interpretation, conclusions and recommendations required under this Scope of Work.

Each WPD UXO Survey Report shall include, as applicable:

- achieved survey coverage and identification of any limitations or data gaps;
- summary of data quality and detection performance;
- description of the processing and interpretation undertaken;
- target detection and classification criteria;
- Master Target List (MTL) and associated target mapping;
- assessment of interpretation confidence and residual uncertainty;
- seabed boulder interpretation and associated dataset, where applicable; and
- recommendations for any required further target investigation, verification, avoidance, clearance or other mitigation measures.

The WPD reporting shall clearly distinguish between the OWF survey areas (IAC, WTG and OSS) and the offEXC survey areas.

All reports shall be submitted in PDF and editable native format, where applicable.

6.9 Deliverables

The CONTRACTOR shall deliver all applicable raw, processed, interpreted and supporting data generated under the WORK. Deliverables shall be clearly identified by WORK PACKAGE and investigation area and provided in accordance with the applicable GIS, data management and document control requirements of this Scope of Work.

Unless otherwise specified, deliverables for WPA, WPB and WPC shall be structured separately for the IAC area and the offEXC corridor. WPD deliverables shall be structured separately for the OWF survey areas (IAC, WTG and OSS) and the offEXC survey areas within UXO SURVEY AREA.

Deliverables applicable to one WORK PACKAGE or investigation area shall not be considered as satisfying the requirements of another WORK PACKAGE or investigation area.

6.9.1 Deliverables Summary

Table 6-7 Dleiverables list

WORK PACKAGE	Deliverable / Dataset	IAC / OWF	offEXC	Required Format(s)
WPA	Raw SBP data	✓	✓	SEG-Y, including applicable headers
WPA	Processed SBP data	✓	✓	SEG-Y, time and depth domain, including applicable headers
WPA	Raw and processed SCS data	N/A	Where acquired	SEG-Y, including applicable headers
WPA	Navigation, positioning and survey tracklines	✓	✓	SHP + ASCII/CSV
WPA	Acquisition and QC records	✓	✓	XLSX/CSV + PDF, as applicable
WPA	Survey coverage and data-quality information	✓	✓	SHP + GeoTIFF + PDF, as applicable

WORK PACKAGE	Deliverable / Dataset	IAC / OWF	offEXC	Required Format(s)
WPA	Interpreted SBP/SCS profiles	✓	✓	Kingdom 2025 project + PDF + ASCII/XYZ, as applicable
WPA	Interpreted geological horizons and surfaces	✓	✓	ASCII/XYZ + SHP + GeoTIFF, in applicable time/depth domains
WPA	Isopachs / sediment thickness products	✓	✓	ASCII/XYZ + GeoTIFF, thickness in metres
WPA	Geological/geohazard interpretation datasets	✓	✓	SHP + GeoTIFF + Kingdom 2025 project
WPA	Sub-seabed boulder risk areas and interpreted individual features	✓	✓	SHP + GIS register (XLSX/CSV) + PDF supporting profiles/maps
WPA	Kingdom interpretation project	IAC content	offEXC content	Kingdom 2025 native project + associated datasets
WPA	Data package supporting final WPB location planning	✓	✓	GIS + PDF + XLSX/CSV, as applicable
WPB	Approved final investigation plan and locations	✓	✓	SHP + XLSX/CSV + PDF
WPB	Vibrocore field logs and core recovery records	✓	✓	PDF + XLSX/CSV
WPB	CPTU/TCPTU logs and validated datasets	✓	✓	AGS + XLSX/CSV + PDF, as applicable
WPB	Core photographic records	✓	✓	JPG/PNG + PDF index/contact sheets, as applicable
WPB	Sample registers	✓	✓	XLSX/CSV + PDF
WPB	Navigation, positioning and QC records	✓	✓	SHP + ASCII/CSV + PDF/XLSX, as applicable
WPB	Factual geotechnical dataset / database	✓	✓	AGS + XLSX/CSV + applicable native database format
WPC	Approved laboratory testing schedule and Plan	✓	✓	XLSX + PDF
WPC	Laboratory test results and certificates	✓	✓	XLSX/CSV + PDF
WPC	Laboratory QA/QC records	✓	✓	XLSX/CSV + PDF, as applicable
WPC	Validated laboratory dataset	✓	✓	AGS + XLSX/CSV
Integrated WPA/WPB/WPC	Integrated Ground Model	Separate IAC	Separate offEXC	Kingdom 2025 project + GIS + PDF + editable DOCX, as applicable
Integrated WPA/WPB/WPC	Geological longitudinal profiles	✓	✓	PDF + ASCII/XYZ + Kingdom 2025 project, as applicable
Integrated WPA/WPB/WPC	Geohazard / geological constraint mapping	✓	✓	SHP + GeoTIFF + PDF maps
WPD	Raw UXO survey data	OWF package	offEXC package	Native raw sensor formats + applicable

WORK PACKAGE	Deliverable / Dataset	IAC / OWF	offEXC	Required Format(s)
				industry-standard exchange formats
WPD	Processed magnetometer/gradiometer data	OWF package	offEXC package	ASCII/CSV + GeoTIFF + applicable native format
WPD	Processed SSS data	OWF package	offEXC package	GeoTIFF mosaics + native/processed data format, as applicable
WPD	Processed MBES data	OWF package	offEXC package	GeoTIFF + XYZ/ASCII + applicable native/processed format
WPD	Navigation and positioning data / sensor tracklines	OWF package	offEXC package	SHP + ASCII/CSV + GPX, as applicable
WPD	Calibration, verification, coverage and QA/QC records	OWF package	offEXC package	PDF + XLSX/CSV + GeoTIFF/SHP, as applicable
WPD	Master Target List (MTL)	OWF MTL	offEXC MTL	XLSX/CSV + GIS-compatible spatial dataset (SHP)
WPD	UXO target maps and GIS layers	OWF package	offEXC package	SHP + GeoTIFF/PDF maps, as applicable
WPD	Survey coverage / data-gap mapping	OWF package	offEXC package	SHP + GeoTIFF + PDF
WPD	Seabed Boulder Register	OWF package	offEXC package	XLSX/CSV + SHP
WPD	Seabed boulder mapping and supporting interpretation	OWF package	offEXC package	SHP + GeoTIFF + PDF/annotated imagery
WPD	UXO risk assessment and UXO/EOD Specialist recommendations	OWF package	offEXC package	PDF + editable DOCX

Unless otherwise specified, all digital deliverables shall be provided in both their applicable native format and an agreed non-proprietary or commonly accessible exchange format.

All spatial datasets shall use the coordinate reference system and vertical datum specified in this Scope of Work and shall include appropriate metadata. File naming, dataset identifiers and feature IDs shall be consistent across reports, GIS datasets, registers and interpretation projects to ensure full traceability.

Tabular datasets and registers shall be provided in editable format. Reports shall be provided in PDF and editable native format.

In addition to the deliverables specified in this Section, all reports and associated reporting outputs required under Section 6.8 shall form part of the CONTRACTOR's deliverables under the CONTRACT.

6.9.2 GIS Deliverables

GIS deliverables shall be organised by Work Package and investigation area.

All GIS datasets, layers, features and associated metadata shall be clearly assigned to the applicable Work Package and investigation area.

Separate GIS layers and associated attribute tables shall be provided for WPA sub-seabed boulders and WPD seabed boulders. As a minimum, the attribute tables shall include the unique identifier, coordinates, indicative dimensions and burial depth, where applicable and determinable, confidence classification, source dataset and interpretation comments.

GIS deliverables shall be prepared in accordance with the ORDERING PARTY's GIS Specification referenced in Section 1.5.

6.9.3 Kingdom Deliverables

The final WPA geological and geophysical interpretation, and the integration between WPA/WPB/WPC shall be prepared and maintained within the Kingdom interpretation environment.

The final Kingdom project shall be structured to clearly distinguish between:

- the IAC area; and
- the offEXC corridor.

The CONTRACTOR shall provide, as a minimum:

- a fully functional Kingdom project (v.2025);
- processed geophysical datasets;
- interpreted geological horizons;
- geological surfaces;
- geohazard layers;
- geological and geotechnical models, as applicable;
- navigation and positioning data required for the correct spatial referencing of the incorporated datasets;
- processing and interpretation parameters required to understand and reproduce the project structure; and
- associated metadata and project databases.

All datasets, horizons, surfaces, geohazards, models and associated metadata incorporated into the Kingdom project shall be clearly assigned to the IAC area or the offEXC corridor.

The final Kingdom project shall be delivered in a fully functional and editable native format, without broken links, missing files or dependencies on data not included in the final delivery.

The CONTRACTOR shall verify the completeness and functionality of the final Kingdom project prior to submission to the ORDERING PARTY.

6.9.4 WPD Master Target List and UXO Specialist Assessment

The final Master Target List shall provide a quality-controlled and traceable record of the potential UXO-related targets identified within the applicable UXO SURVEY AREA.

A suitably qualified and experienced UXO/EOD Specialist shall review the survey results and MTL and provide a documented UXO risk assessment and recommendations for any further actions required.

Recommendations shall identify, where applicable:

- targets requiring further investigation or verification;
- recommended avoidance or stand-off requirements;
- potential buffer or exclusion zones, where technically justified;
- targets or areas requiring further survey;
- potential requirements for subsequent clearance or other mitigation; and
- relevant limitations or uncertainties affecting the recommendations.

The WPD deliverables shall not include ALARP Cards, ALARP certificates or equivalent UXO clearance certification.

7.0 WORK PLAN

The CONTRACTOR shall prepare, submit and maintain a detailed Work Plan and baseline schedule covering all activities required for completion of the WORK.

Expected scope and timing of the survey activities are presented in Table 7-1. Work Plan shall be further developed by the CONTRACTOR and adapted to the proposed methodology following contract award.

Table 7-1 Initial Work Plan

Work package	Activity	Expected execution data
WPA	Project preparation and documentation	May 2027
	Offshore Acquisition	June - July 2027
	Fast tracks analysis for geotechnical survey	July 2027
	Field report	August 2027
	Data Processing and Interpretation	July 2027 – January 2028
WPB	Project preparation and documentation	May 2027
	UXO survey for geotechnical points (including ALARP certificate and UXO field report)	August 2027
	Offshore Acquisition	August – December 2027
	Field report	December 2027
WPC	Project preparation and documentation	May 2027
	Laboratory testing	August 2027 – January 2028
WPD	Project preparation and documentation	January – February 2028
	UXO Survey Campaign	March – July 2028
	Field report	July 2028
	EOD Detailed Assessment and Final MTL (Master Target List)	August 2028
Final reporting for WPA, WPB, WPC	Factual report WPA	February 2028
	Factual report WPB +WPC	February 2028
	Integrated ground model (IGM) WPA+WPB+WPC	March 2028
	Geotechnical Interpretative Report (GIR) WPA+WPB+WPC	April 2028
	GIS Deliverables	May 2028

The above milestones constitute contractual completion and delivery dates.

The CONTRACTOR shall provide a detailed baseline schedule consistent with the milestones defined above.

Any deviation from the agreed milestones shall be communicated to the ORDERING PARTY together with a proposed mitigation and recovery plan.

The detailed baseline schedule shall include as a minimum:

- Vessel(s) mobilisation(s);
- calibration and acceptance activities;
- offshore acquisition;
- daily and weekly reporting;
- data processing;
- interpretation;
- Ground Model(s) development;
- submission of Field Report(s);
- submission of Factual Report(s);
- submission of Geohazard Assessment(s);
- submission of GIS Database(s);

8.0 GENERAL REQUIREMENTS

8.1 Health, Safety and the Environment

The ORDERING PARTY places an extreme importance on all HSE matters. The CONTRACTOR must act responsibly and with due care. The geophysical survey is to be completed in a safe, efficient and timely way. As with any operation, the primary objectives are: no accidents, no harm to any personnel, no damage to the environment, no damage to equipment and material.

HSE Requirements for Contracts cover all major contracts / purchase orders placed by ORDERING PARTY or placed on its behalf, especially where they concern work and services for Baltic East project. These requirements are detailed described in Contract's HEALTH, SAFETY, ENVIRONMENTAL and QUALITY ASSURANCE requirements attached to the contract. HSE and quality requirements will be delivered for bidders during commercial part of procurement process all together with contract draft.

The CONTRACTOR must execute all survey operations with paramount consideration for Health, Safety, and Environmental protection, ensuring strict compliance with all applicable Polish national laws, maritime regulations, and international conventions pertaining to the Baltic Sea and offshore operations.

8.2 Environmental Protection

The CONTRACTOR is mandated to prioritize the selection of environmentally friendly products for any application where a discharge into the marine environment is possible. This requirement applies comprehensively to all project activities, including, but not limited to, the VESSEL operations and the deployment of all associated equipment.

8.3 Dropped Objects

CONTRACTOR shall be responsible for the recovery of any dropped object during the survey that arises from their survey operations. A dropped object procedure shall be submitted to the ORDERING PARTY prior to commencement of works. This shall include reporting and notification

procedures to comply with statutory requirements. All dropped objects are to be recovered solely at CONTRACTOR's cost before the end of the offshore campaign.

8.4 VESSEL(S)

The vessel(s) utilised for the work shall conform to statutory requirements, be of a proven design and suitable for performing relevant survey in the project area in a weather condition normally experienced in that area during scheduled season of works.

The CONTRACTOR may propose separate vessels and survey spreads for WPA, WPB and WPD, provided that each vessel and spread fully complies with the requirements applicable to the relevant Work Package.

Mobilisation, calibration, verification, acceptance and demobilisation shall be completed and documented separately for each vessel and Work Package unless otherwise approved by the ORDERING PARTY.

For detailed VESSEL requirements please see Appendix 3 - Employers Minimum Requirement for Vessels.

Survey speed, turning radius and vessel manoeuvrability shall be suitable for the applicable survey method, sensor configuration, required data quality and safe execution of the relevant Work Package. The CONTRACTOR shall state the proposed operational survey speed for each acquisition method in its methodology.

8.4.1 Vessel mobilisation

Mobilisation includes all activities required to prepare for offshore operations. Mobilisation is completed when each survey VESSEL(s) is fully operational, meaning the designated crew is onboard, all systems are functioning correctly, and the Mobilisation and Calibration Reports have been accepted by the ORDERING PARTY unless otherwise agreed. Additionally, all Health, Safety, Environmental, and QA/QC requirements are fulfilled. Once the VESSEL(s) is mobilised, and accepted by ORDERING PARTY no further adjustments to its equipment or setup are expected. Any adjustments or changes to the equipment or setup post mobilisation shall require a full Variation procedure and documentation to be completed and agreed with both the ORDERING PARTY.

Prior to the commencement of the survey, all navigation, survey, surface positioning, subsea positioning systems and whole marine spread shall be mobilised in accordance with guidelines provided by equipment manufacturers and best survey/hydrographic/geophysics practices. Equipment should be verified and calibrated in accordance with best practice. The calibration documentation shall be provided together with the Mobilisation and Calibration Report within 72-hours.

All mobilisation work should be carried out with the most attention to HSE rules and in accordance with the CONTRACTOR internal procedures.

8.4.2 Vessel demobilisation

The survey is completed when all tasks covered under the contract are complete and the ORDERING PARTY has received the approved Field Report.

Once the offshore survey work is completed and meets all specifications and Company Representative's requirements, the CONTRACTOR may proceed demobilisation of the VESSEL and equipment. The Company Representative(s) shall participate in the demobilisation of the VESSEL(s) and equipment in port. The demobilisation port localisation shall be mutually agreed upon by the CONTRACTOR and the ORDERING PARTY.

The CONTRACTOR can choose the port of mobilisation, but shall be within striking distance of the survey area. The Company Representative(s) shall supervise the equipment mobilisation and calibration.

The Company Representative(s) must approve and sign the Mobilisation and Calibration Reports.

8.5 Weather Forecasting

The CONTRACTOR will engage a specialist forecaster from a reputable organization, acceptable to the ORDERING PARTY and agreed in writing, to provide a bespoke and site specific 10-day forecast during the works. The weather forecast shall encompass the designated port, transit route and location of WORKS.

The forecast intervals shall not exceed 6 hours i.e. there should be 4 forecast per day provided. The first forecast shall be available 5 days prior to the start of offshore operations. The forecast shall be updated on a daily basis during the survey programme and a screenshot of this forecast shall be added to the Daily Progress Report (DPR).

As a minimum the forecast shall include:

- Wind direction, speed and gusts (shown in tables and graphs)
- Maximum & significant wind wave height and period (shown in tables and graphs)
- Swell wave direction height and period (shown in tables and graphs)
- Visibility
- Temperature
- Barometric pressure per period
- Type of weather
- Overall conditions in the form of surface pressure charts
- Snow and hail forecast
- Ice sheets/ridge forecasts or satellite imagery
- Forecast reliability ranking for each forecast
- Contact details for the duty forecast (to be available on a 24/7 basis)

8.6 Weather Delay

The Vessel Master has final and absolute authority in respect of safety of his Vessel. However, his decision-making process relating to weather must be transparent and logical. He/she must use recorded data which is available to the ORDERING PARTY and use approved method of measuring any vessel downtime.

The vessel master decision does not constitute a variation for an extension of time. Any weather downtime must be agreed with the CSR and signed-off on the DPR.

CONTRACTOR shall also clearly state how the actual weather is recorded.

The CONTRACTOR shall provide actual weather calculations and estimate the number of days of inclement weather submitting RFP bids.

8.7 Personnel

CONTRACTOR is responsible for the provision of sufficient qualified technical staff to undertake the work.

Personnel working on board of the vessel(s) shall have a valid medical fitness certificate issued by an approved medical doctor which shall be presented by Contractor to ORDERING PARTY. The requirements are stated by IMO, STCW and OPITO. The requirements shall be fulfilled for all personnel on board, both marine crew and other personnel as a minimum requirements.

All personnel on the vessel shall possess offshore survival training certificate for the duration of the operations which shall be presented by CONTRACTOR to ORDERING PARTY.

CONTRACTOR shall ensure that all supervisory personnel employed for the WORK are capable of, speaking, understanding, reading and writing the English Language.

Prior each crew change, the Contractor is obliged to present a list of new personnel members to the ORDERING PARTY approval.

8.7.1 Marine crew

Minimum manning requirements for 24-hour survey operation shall be in accordance with marine law currently in force in the country of vessel registration. The ORDERING PARTY may request additional manning if it considers that minimum manning requirements are insufficient or inadequate for the type and location of the work.

8.7.2 Office personnel

Office personnel are required to consist as a minimum of the following:

- Project manager;
- Reporting manager;
- QHSE manager;
- Senior Geophysicist;
- Lead Geotechnical Engineer;
- Engineering Geologist;
- Senior UXO Geophysicist;

8.7.3 Offshore personnel

Sufficient offshore personnel shall be retained on board to cover 24-hour survey operations and ensure efficient performance of the survey work.

- Party Chief;
- Senior Surveyor;
- Senior Geophysicist;
- Senior Geologist;

- QC Coordinator;
- Geotechnical Engineer;
- CPTU/TCPU Operator;
- Geotechnical Supervisor in compliance with Polish regulations
- UXO Data Processor;
- UXO/EOD Expert;
- Suitably qualified operators for all WPD acquisition systems.

As per Polish Geological and Mining law, the CONTRACTOR shall ensure at least one (1) supervisor, with geological authority, is present during geotechnical survey. The Geological Supervisor shall have at least two years of offshore experience and with 2 previous PROJECT experience in the role of geological supervisor of similar offshore activity. It is allowed to combine both positions, including Geotechnical Engineer and Geological Supervisor or Party Chief and Geological Supervisor or Surveyor and Geological Supervisor.

Crew changes for offshore personnel shall be in accordance with CONTRACTOR standards but at least once per 6 weeks. Crew rotations may be extended only due to changing of weather conditions or the approaching completion of offshore works, but this has to be always agreed and approved with the ORDERING PARTY.

8.7.4 ORDERING PARTY personnel

CONTRACTOR shall provide all the necessary resources for two Company Representatives on-board (two people as obligatory and permanently crew members) each of the mobilized survey VESSEL(s). If sufficient cabin capacity remains after accommodating the personnel required to perform the Scope of Work, the ORDERING PARTY reserves the right to assign an additional third Client Representative.

The accommodation shall be a single-occupancy 24-hour cabins. All resources, including messing and accommodation shall be suitably maintained in terms of cleanliness and hygiene.

Company Representatives shall have access to all areas on the VESSEL(s) on request and accompanied by a suitable CONTRACTOR Representatives as necessary.

Safe arrangements shall be made for CSR's to board and leave the vessel to and from a designated port.

8.8 Schedule

The survey duration shall be agreed between the ORDERING PARTY and the CONTRACTOR prior to commencement, to ensure a safe, efficient, and timely execution of the work.

The CONTRACTOR shall provide a Project Schedule (Schedule) covering the main onshore and offshore activities and identifying the key milestones, aligned with Section 7.0 – WORK PLAN.

The Schedule shall be structured by Work Package and shall separately identify WPA-IAC, WPA-offEXC, WPB-IAC, WPB-offEXC, WPC-IAC, WPC-offEXC, WPD-OWF and WPD-offEXC activities and deliverables.

The Schedule agreed by the Parties prior to the Contract signing and attached to the Contract shall constitute the Baseline Schedule of the Project.

All progress and performance will be assessed against this Baseline Schedule.

The CONTRACTOR shall ensure that the Schedule is logic-linked, feasible, and identifies the critical path, as well as key ORDERING PARTY and third-party dependencies.

The Schedule shall be provided in both native format (.mpp, .xer, or other format requested by the ORDERING PARTY) and PDF.

The CONTRACTOR shall foresee that all required documents shall be delivered to the ORDERING PARTY taking into consideration necessary time for verification and approval by the ORDERING PARTY.

It is anticipated that the offshore activities will be undertaken on a 24-hour operations basis.

The CONTRACTOR shall submit weekly (or bi-weekly, if agreed) Schedule updates throughout the Contract duration.

9.0 PERMIT CONSTRAINTS

9.1 General

The CONTRACTOR shall note that all matters relating to permits must be both in English and Polish language.

The CONTRACTOR shall inform the ORDERING PARTY of activities and progress as part of the weekly progress reports.

9.2 Geological Works Projects

ORDERING PARTY will deliver to the CONTRACTOR approval decision from Polish authorities for GWP together with documentation enabling to conduct the WORK stated in this document.

It is CONTRACTOR's obligation to notify the intention to start geological works in line with the requirements stated in art. 81 Geological and mining law Act from 9th June 2011r. (Journal of Law from 2019 r., pos. 868).

The intention to start geological works should be reported not later than 2 weeks before the planned start date to the appropriate geological administration authority (Ministry Climate and Environment), mining supervision authority (if required) and local government units, suitable to the location of the geological works (Maritime Office in Gdynia).

The CONTRACTOR is sole responsible for complying with the approved GWP requirements as well as this scope of work. In the event that the GWP requirements differ or is not clear, CONTRACTOR shall immediately discuss and reach agreement with ORDERING PARTY before proceeding.

The Contractor is not obliged to prepare geological engineering documentation(s). Nevertheless, it shall remain responsible for delivering to the Client all investigations, data and results necessary to enable the preparation of such documentation by a third-party entity.

9.3 Notice to Mariners

CONTRACTOR is responsible for issuing and getting acceptance of the Notice to Mariners (NtM) ahead of starting the field works. The NtM shall be submitted by CONTRACTOR to Hydrographic Office of Polish Navy (*pol. BHMW*) at least 14 days prior to arriving to the project boundary to have priority access.

9.4 Permit for Work for Foreign Entities

From January 1st, 2026, new regulations from the Act of March 20th, 2025 on maritime areas of the Republic of Poland and maritime administration (Dz.U.2025 poz.409), will require all foreign entities (including states, legal persons, unincorporated organizational units, and individuals) to obtain a permit for surveys and measurements related to the installation of offshore wind farms or related infrastructure.

To accelerate OWF development, the permit application process is expedited. Applications for OWF-related surveys must be submitted at least one month before the planned start date. In addition, consulting authorities (e.g., ministries of climate, environment, economy, defense, and intelligence agencies) will have 14 days to respond to permit requests; a lack of response will be considered an approval.

With a complete application for OWF projects, permits are anticipated to be issued within approximately 30 days.

In the process of applying for the required permits, the ORDERING PARTY will actively support the CONTRACTOR. While the CONTRACTOR remains responsible for preparing and submitting the complete permit application, the ORDERING PARTY will provide necessary information, coordination, and assistance with relevant authorities.

These legislative changes aim to enhance control and safety in Polish maritime areas while actively fostering the development of strategic offshore wind investments.

10.0 GENERAL DESCRIPTION OF PROJECT ACTIVITIES

This Section provides an overview of the activities required to complete WPA, WPB, WPC and WPD. Each Work Package shall include the planning, mobilisation and readiness, execution, processing, interpretation, reporting and delivery activities relevant to its scope.

The four Work Packages are:

- WPA – Geophysical Survey;
- WPB – Geotechnical Survey;
- WPC – Laboratory Testing; and
- WPD – UXO SURVEY.

The activities listed below shall be structured and reported by Work Package. Where an activity applies to more than one Work Package, the CONTRACTOR shall identify the applicable scope, resources, schedule and deliverables separately.

10.1 Planning Phase

1. Production of management weekly progress reports;
2. Development of a Project Execution Plan (PEP), including but not limited to: project organization, project management procedures, reporting procedures, communication procedures, document control procedures, contractor SoW.
3. Development of Project QHSE Plan, including but not limited to: summary of project scope, project-specific HSE requirements, risk management procedures, emergency response procedures, incident reporting procedures, subcontractor management procedures, subcontractor HSE management.
4. Development of separate Mobilisation and Calibration Task Plans and Procedures, as applicable, for WPA, WPB and WPD, including limits and acceptance criteria for each vessel, spread and survey or investigation system.
5. Development of Method Statements and Survey Procedures for all geotechnical, geophysical, laboratory and UXO investigations.
6. Development of all relevant and project-specific Risk Assessment.
7. Execution of HAZID / HIRA workshops.
8. Obtaining all permits, notifications and approvals required for execution of the Work that are not provided directly by the ORDERING PARTY, in order to undertake the WORK.
9. Review of all available geophysical, geotechnical, UXO, hydrographic, geological, historical and environmental datasets relevant to the applicable Work Package.
10. Review and optimisation of:
    - WPA survey line layouts;
    - WPB investigation locations based on the applicable WPA results and, for IAC, the ORDERING PARTY-provided 2D UHRS data;
    - WPC laboratory testing schedules; and
    - WPD area coverage and survey line plans.

    Any proposed modifications shall require prior approval from the ORDERING PARTY.
11. Finalisation of survey equipment, personnel and vessel(s) to be mobilised.
12. Preparation and readiness reviews prior to mobilisation.

Execution Phase

1. Mobilisation / demobilisation of the vessel(s), equipment and personnel
2. Calibration, Verification and acceptance testing of the survey equipment.
3. Delivery Mobilisation and Calibration Report for each vessel and marine spread.
4. Direct technical, geological, geotechnical and HSE supervision of offshore operations for all personnel, equipment and of the vessel (s).
5. Performance of WPA -IAC SBP investigations.
6. Performance of WPA -offEXC SBP and optional SCS investigations where required.

7. Review of applicable WPA results and preparation of the final WPB – IAC and WPB- offEXC investigation plans.
8. Performance of WPB Vibrocore, CPTU and TCPTU investigations following approval of the applicable final investigation plan.
9. Transfer, registration, storage and testing of WPB samples under WPC.
10. Performance of WPD UXO reconnaissance acquisition within the defined UXO SURVEY AREA.
11. Performance of on-board data quality control and verification separately for WPA, WPB and WPD.
12. Daily review of data quality and acquisition progress.
13. Provision of Work Package-specific Daily Progress Reports (DPR).
14. Provision of Work Package-specific Weekly Progress Reports (WPR).
15. Production of management reports issued through onshore office.
16. Delivery of separate WPA-IAC, WPA-offEXC, WPB-IAC, WPB-offEXC, WPD-OWF and WPD-offEXC Field Reports.

10.2 Onshore Phase

1. Validation, processing and organisation of WPA geophysical datasets separately for IAC and offEXC.
2. Processing and interpretation of IAC SBP data.
3. Processing and interpretation of offEXC SBP and MBES data and SCS data where applicable.
4. Review of WPA results for the planning and optimasation of WPB.
5. Validation and organization of WPB geotechnical datasets separately for IAC and offEXC.
6. Performance, validation and reporting of WPC laboratory testing separately for IAC and offEXC.
7. Integration of WPA, WPB and WPC results separately for IAC and offEXC.
8. Development of geological profiles, geohazard maps and geological and geotechnical ground models.
9. Processing and interpretation of WPD data.
10. Preparation of separate WPD-OWF and WPD-offEXC target registers, maps, GIS datasets and reports.
11. Preparation and delivery of the applicable factual, interpretative, Ground Model, GIS, Kingdom and final data packages.
12. Production of Work Package close-out documentation and an overall project close-out report.