

檔 號：

保存年限：

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附件：如文(附件一 1150714001_Attach1.docx、附件二 1150714001_Attach2.docx、附件三 1150714001_Attach3.pdf、附件四 1150714001_Attach4.pdf、附件五 1150714001_Attach5.pdf、附件六 1150714001_Attach6.pdf)

主旨：本公司工作船「海洋探勘者8號」擬於115年8月1日至9月15日，於臺灣西南海域執行海事探勘與水下設備校正作業，為維護航行安全，敬請 貴局惠予協助發布航船布告，請查照。

說明：

- 一、本公司為執行「OS8設備測試計畫」，前開期間將以「海洋探勘者8號」為主作業船舶、「海洋探勘者9號」為備用船舶，於旨揭海域進行隨船搭載之設備操作與測試作業。作業期間主作業船舶將全程隨行警戒，並依《國際海上避碰規則》懸掛適當號燈與號型；作業海域範圍角點座標、工作船舶資訊、聯絡人員資料，詳如(附件一)。
- 二、本案業經相關主管機關及權益關係人審核同意，檢附下列書面回函供核參：
 - (一)內政部國土管理署：115年5月12日國署計字第1150046594號函，認屬「船舶無害通過範圍」，免辦理海域用地區位許可(附件二)。
 - (二)台灣中油股份有限公司：115年3月12日探採海域發字第11500611840號函，認該範圍目前無探採作業，不影響安全(附件

交通部航港局南部航務中心



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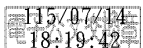
三)。

(三)台江國家公園管理

處：115年3月11日江企字第1150001104號函，原則同意於黑水溝一般管制區內辦理測試（附件四）。

三、為維護航行安全並利各界周知，敬請 貴局惠予協助發布前開期間、海域之航船布告；如尚須本公司補充其他相關資料，敬請惠予通知，當即配合辦理

正本：交通部航港局南部航務中心

副本：115/07/14
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OS8 Equipment Development and Testing Plan

Operating Unit : Iovtec Co. Ltd

2026/07/10

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I. Purpose and Scope of the Plan

1. Objectives

Our company's work vessel, Ocean Surveyor 8, will conduct marine survey and underwater equipment calibration operations in the waters southwest of Taiwan.

2. Equipment Testing Period

The equipment testing period is from August 1, 2026 to September 15, 2026

3. Scope of Equipment Testing

Vehicle operation testing will be conducted in the waters southwest of Taiwan. To ensure navigational safety, the Ocean Surveyor No. 8 and Ocean Surveyor No. 9 will be selected for operation. The home port for equipment testing is Xingda Port, with Kaohsiung Port designated as the backup port.

The expected testing area is shown in Figure 1, and the coordinates of the corner points of the testing area are listed in Table 1.

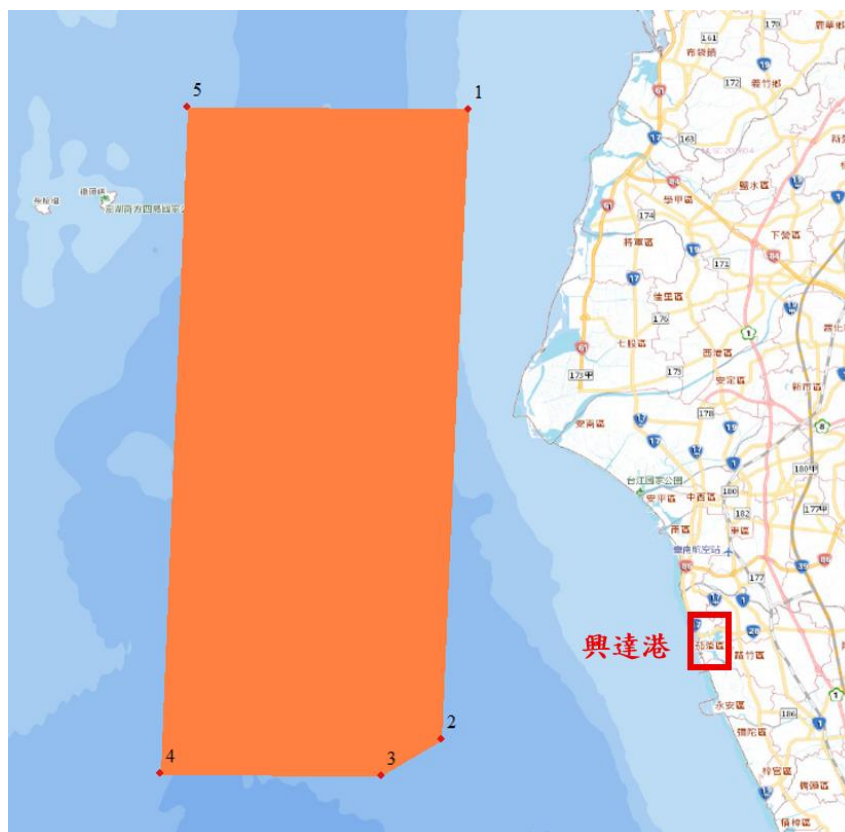


Figure 1. Schematic Diagram of the Testing Area

Table 1. Corner Coordinates of the Testing Area

No.	X Coordinate (TWD97)	Y Coordinate (TWD97)	Longitude (WGS84,DMS)	Latitude (WGS84,DMS)
1	146465.234	2581867.889	119° 59' 15.1358" E	23° 20' 10.0980" N
2	143619.588	2520826.941	119° 57' 50.1898" E	22° 47' 05.3030" N
3	138183.524	2517367.605	119° 54' 40.5135" E	22° 45' 11.5857" N
4	118320.005	2517668.767	119° 43' 04.2731" E	22° 45' 16.2074" N
5	121330.751	2582244.610	119° 44' 30.3288" E	23° 20' 15.9288" N

II. Vessel Information

1. Vessel Information

The testing plan will use Ocean Surveyor No. 8, while Ocean Surveyor No. 9 will serve as the backup vessel. Their specifications are shown in Table 2 and Table 3.

Table 2. Specifications of Ocean Surveyor No. 8

Vessel Information	
	
Vessel Name	Ocean Surveyor No.8
Home Port	Kaoshiung Port
Gross Tonnage	326
LOA	36.00 m
Width	7.40 m
Call sign	BR5137
MMSI	416013942

Table 3. Specifications of Ocean Surveyor No. 9

Vessel Information	
	
Vessel Name	Ocean Surveyor No.9
Home Port	An Ping Port
Gross Tonnage	14.17
LOA	13.25m
Width	2.98m
Call sign	BR4920
MMSI	416009799

III. List of Testing Instruments

1. List of Testing Instruments

The testing instruments for this project are provided by International Ocean Co. The list of testing instruments is shown in Table 4, and the specifications are presented in Table 5 and Table 6.

Table 4. List of Testing Instruments

No.	Instrument Category	Instrument Name	Vessel Used
1	Underwater Vehicle	GAVIA	OS8.OS9

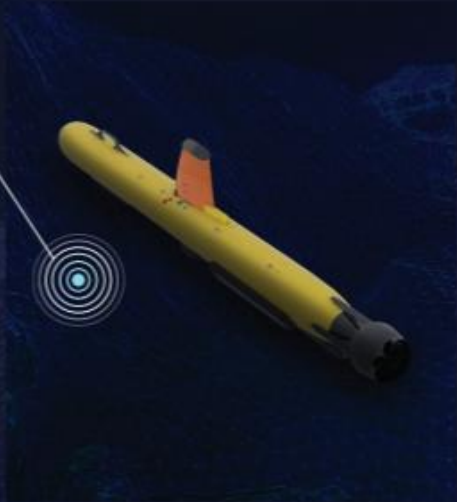
Table 5. Specifications of GAVIA Underwater Vehicle

Autonomous Survey Services

High-Resolution Geophysical (HRG) Surveys

AUTONOMOUS SURVEY PLATFORMS

AUV MODEL	Teledyne Gavia
DEPTH	1,000 Meters
BATTERY	2 x 1.6kW LI For Operations Up to 18 Hours
NAVIGATION	IXblue Phins C5 Teledyne Pathfinder DVL / ADCP Sonardyne AvTrack 6 USBL
SIDE SCAN	EdgeTech 2205 600 / 1600kHz
MAG	Marine Magnetics Magnetometer





COMMERCIAL APPLICATIONS

- Site Clearance and Verification Surveys
- Pre-lay and Post-lay Construction Surveys
- Pipeline and Submerged Cable Inspection Surveys
- Structural and Asset Inspection
- Dredging and Trenching Support
- Magnetic Anomalies and Unexploded Munitions Detection
- Benthic Habitat Surveys
- Archaeological Surveys
- Mineral Surveys
- Search and Recovery
- Hazard Surveys
- Optical Documentation

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IV. Schematic Diagram of Testing Operations

The operational schematic of Ocean Surveyor No. 8, Ocean Surveyor No. 9, the surface vehicle, and the underwater vehicle are shown below.

In principle, the operating depth of the underwater vehicle is maintained at least 25 meters above the seabed. For example, when the water depth is 60 meters, the maximum operating depth is approximately 35 meters; when the water depth is 100 meters, the maximum operating depth is approximately 75 meters.



V. Route Planning

The vessel will depart from Xingda Port and proceed northwest to the designated operation area. Upon completion of the operation, the vessel will return to Xingda Port. The operation area is shown in Figure 1.

VI. Contact Information

Position	Company	Name	Mobile Phone
Survey Package Manager	IOVTEC Co., Ltd.	張祐銓	+886 953-310-315
Project Manager	IOVTEC Co., Ltd.	周千又	+886 989-701-969