



Cable Route Pre-lay Survey Project Mindanao Visayas Interconnection Project (MVIP)



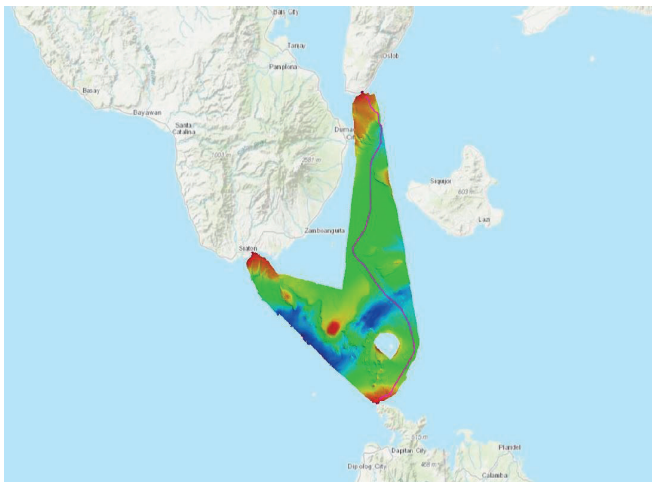
Project Details

Location: Bohol Sea, Philippines
Water Depth: 13 - 636 meters
Date: Summer 2019
Client: Nexans Norway Philippines Branch



Scope Of Work

iSURVEY Pte Ltd was contracted by Nexans Norway Philippines Branch A/S to provide the M/V SC Sirapat with the required ROV and survey resources to plan and conduct a cable route pre lay survey at Bohol Sea, Philippines. The survey was to cover two routes for the installation of high voltage direct current cables that are planned to interlink the islands of Mindanao and Cebu, and form part of the MVIP project.



Mindanao Visayas Interconnection Project (MVIP)

iSURVEY, as the main contractor to NEXANS, had full responsibility for the performance of the following:

- Planning & Preparation for the complete works
- Obtaining all Government Survey Permission & authorisations necessary for the survey works
- Provision of the DP2 vessel SC Sirapat with integrated XLR ROV system and required sensors
- Data Acquisition, processing, reporting and delivery of the Final Report, to schedule

The systems provided comprised of the following:

- Surface & Subsea positioning
- Precision INS position of the ROV with DVL
- Dual Head MBES data
- 600kHz Side Scan Sonar
- Sub Bottom Profiler
- Video along the route
- Cable detection at crossings



SC Sirapat with XLR ROV Spread

A complete suite of iSURVEY iNAV®, iROV® & iMAP® systems provided navigation and precise positioning of the ROV along the route at all depths. The data from the MBES and Edgetech 600kHz Sonar and Sub Bottom systems were continuously acquired along the route, with onboard data processing and geophysical interpretation being performed in pace with data acquisition, such that the route selection process, including route development where needed, could be advanced in synchronisation with the progress of the data acquisition. Preliminary results of the geophysical survey were processed, interpreted and presented onboard, within a 24 hour period from acquisition. All survey data acquisition works were completed within the planned survey schedule period.



ROV XLR-07 fitted with INS, MBES, SSS, SBP, Cable Tracker & Video

The surveyed water depths along the routes ranged between 5m at the landfalls to a maximum of 636m below LAT at the deepest part. The survey requirements called for the 600 kHz Side Scan Sonar resolution to be 0.2m or better, and the SBP to delineate the top 4-5 metres of the seabed sediment. The MBES was operated at High Frequency with a minimum of 400 beams per ping and minimum cell size of DTM of 0.1m with 3 valid pings per cell at high frequency, whilst obtaining 100% coverage of the corridor in a single pass over each route. The Video camera acquired a constant video feed along the route in the nadir of the sonar.

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