



Capability Statement

Mozambique Marine Baseline Study

Client: ERM and SASOL



REQUIREMENTS

- The assembly of a regional environment description based on secondary information derived from the scientific literature and publications together with EIAs that have been conducted in the area.
- The collection of primary data, including satellite imagery, on the marine environment in the vicinity of the pipeline route and the FSO mooring area.
- The consolidation of the above with contributions on metocean characteristics, estuary and mangrove ecology and IUCN listed marine species that occur in the region into a coherent report.
- Design and manufacture equipment required to achieve the needs of the survey. Namely a unique BRUV and drop camera system.

WORK DONE

- Characterising of offshore gas fields
- Offshore and nearshore sediment, benthos and water column characterisation
- Beach sediment characterisation
- Baited Remote Underwater Survey (BRUV) of fish diversity and abundance



- Seagrass biodiversity surveys
- Coral biodiversity surveys
- Drop camera ground truthing for multispectral habitat mapping

OUTCOMES:

A detailed baseline report was produced that provided regional and site specific information on the proposed development area. Lwandle developed an in-depth understanding of the host environment north of Bazaruto National Park and broader insights into the wider regional environment. These results allow ERM to carry out the full EIA process. Informed habitat information also enables the client to design the most appropriate pipeline route and FSO mooring location.



“Detailed baseline description of the physical marine and intertidal habitats for a proposed pipeline and FSO development in central Mozambique ”