

# Geo Marine Solutions Pvt Ltd

## COMPANY PROFILE:

Geo Marine Solutions Pvt. Ltd. is established by the former scientists of Geological Survey of India (GSI) and National Institute of Oceanography (NIO)- the top-notch earth and ocean science research institutions in India. Over the past few years, the company has risen in stature as the trusted name in earth and ocean science projects and is now in pole position in mineral exploration, marine surveys, oceanography, water resources, renewable energy and geotechnical projects.

Internationally, we have won major projects in Qatar and worked along with Gulf Labs, Doha for marine projects of QPMC, Doha, Al Ruwais Port Authority, Doha Port Authority etc. We have carried out preliminary exploration in Oman for Limestone resources. Other major clients include Euro Consult Mott McDonald and FCGANZDEC, New Zealand, with whom we worked as a team member for Sustainable Coastal Protection and Management Investment Programme (SCPMIP) an ADB funded projects in the states of Karnataka and Maharashtra.

Geo Marine Solutions has the unique strength of being the sole private sector enterprise in India having the expertise and experience to take up geological exploration and resource evaluation for mineral resources in Ocean.

Our company along with Gulf Labs, Doha and COWI, Doha were awarded the first offshore mineral resource evaluation project in Qatar by Qatar Primary Material Company, (QPMC) for construction grade offshore Sand Resource Exploration. This was the pilot project by the Government of Qatar attempting to utilize the marine sand resources as aggregate for construction and other developmental works. The study was conducted over a 30 sq Km area in the western offshore of Qatar and proved the availability of ample sand resources suitable for infrastructural use.

We were also the member of the consortium which won the Global Tender for Sustainable Coastal Protection and Management Investment Programme-Karnataka (SCPMIP-K) with FCG, New Zealand being the lead partner. This was a high value ADB funded project for studying the vulnerable zones of coastal erosion in Karnataka coast and to design and implement sustainable protection measures suited to the specific hydrodynamic conditions at each site. The project implementation has achieved remarkable positive results in the shoreline at Maravanthe, Ullal, Murudeshwar and Someshwara coast of Karnataka, and helped in beach accretion at these sites. The solutions implemented were structural interventions as well as a hybrid solutions combining both structural and non-structural methods.

In the field of Geo spatial information, we have successfully completed projects for Central Marine Fisheries Research Institute (CMFRI), India for resource mapping of distribution and abundance of Fin fishes and Shell fishes off Indian Coast. This was the first of its kind project by CMFRI to use geo spatial analysis to understand the seasonal abundance and distribution of the fishery resources in Indian waters.

In the domain of Mineral Exploration, Geo Marine Solutions successfully completed a major mineral exploration project, G2 Level Exploration for Limestone in Devagudi block, Kadapa District of Andhra Pradesh, and proved a resource of 1200 Million Metric Tonnes of High-grade Limestone with average grade of 46 % CaO. The exploration was undertaken for the Department of Mines and Geology, Govt of Andhra Pradesh and the block is being auctioned for development. Another major mineral exploration project was for Kudremukh iron Ore company through MECON, Ranchi, for Iron Ore exploration in Devadari Hillock, Bellary District, Karnataka. The client is in advanced stage of commencement of iron ore mining at Devdari block.

We have also carried out several water resources related projects. We have successfully completed more than ten projects in India for Reservoir Storage Analysis and Resource Evaluation of Sediments in the Reservoirs, with the objective of utilizing the reservoir sediments for developmental works. Seven reservoirs in Kerala and Three reservoirs in Karnataka were studied during the last couple of years.

In the year 2021, the Ministry of Earth Sciences, Govt. of India through NIOT (National Institute of Ocean Technology) has entrusted us the project work of Quality Control, Quality Assurance and Data Processing for the shallow water bathymetry and topographic surveys being undertaken in the entire Eastern Coast of India between backshore and inner shelf regions, spanning about 2500 Km along eastern India's shoreline covering Bengal, Odisha, Andhra Pradesh and Tamilnadu coast. This is aimed at preparing the database for coastal inundation studies, coastal zone development along the east coast of India.