



## *DIVING TECHNOLOGIES LIMITED*

**COMMERCIAL • MOORING SYSTEMS • SURVEYS  
ENGINEERING • ENVIRONMENTAL • SALVAGE  
PROJECT MANAGEMENT • DEVELOPMENTS**

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## **COMPANY PROFILE**

### **DIVING TECHNOLOGIES LIMITED**

Diving Technologies Limited (Divetech), a Jamaican Registered firm, is a subsidiary of Royal Construction Ltd, Cayman Islands. Over the past 19 years the core business of Divetech has been inshore underwater construction works, repairs and maintenance and environmental reef rehabilitation including coral relocation. Our works have been completed to the highest international standards encompassing highly specialized underwater equipment and highly motivated and qualified professionals with international training, certifications and qualifications.

Diving Technologies Limited also adheres to the highest standards of safety in commercial diving and we are equipped with some of the most modern equipment available. As a result we have fulfilled our goal of achieving a competitive edge in the market by providing a service of the highest quality with a reputation for safe conduct.

While Diving Technologies specializes in numerous areas of underwater construction it has specific expertise in the relocation of coral reefs and marine vegetation. In 2003, Divetech completed the relocation of 60,000+ coral heads at Rackhams Cay, Port Royal, Jamaica, to facilitate the widening of the access channel to Kingston Harbour. The project was completed in 40 days and remains one of the largest coral relocation projects completed to date on a global scale. Divetech has performed the majority of the Coral Relocation Projects in Jamaica details of which are outlined below and in 2005, worked with Royal Construction Ltd on the construction of the Morritts Dock in Grand Cayman, the largest private dock on the Island.

Divetech is considered one of the premier Commercial Diving Companies in the Caribbean. Projects such as the Kingston Container Terminal KCT Port Expansion with specific relevance to the building of the Sub-Sea Pile Wall, anode installation, welding and cutting, sub-sea dredging, surveys, demolition and salvage of channel beacons, shows their expertise and versatility. Divetech was involved with the first Liquefied Natural Gas (LNG) Plant in Montego Bay, Jamaica where they were responsible for all Marine Works including the installation of a unique elevated sub-sea Seawater Intake System. Their projects history ranges from Power Plant Facilities, Petroleum Facilities, Kingston Wharves, Kingston Container Terminal KCT, Cruise Ship Piers, Industrial Pier Facilities, Alumina/Bauxite Facilities, Port Authorities and the National Environmental Protection Agency (NEPA). Their projects include dredging, revetments, sheet piling, tubular piling, concrete piling, pipelines, bridges, fiber optics, salvage, demolition, surveys, NDT testing, multi-year marine maintenance contracts and environmental solutions. Divetech was instrumental in bridging the gap between Industrial and Environmental interests in the Marine Field in Jamaica by introducing revolutionary technology, special techniques, unique equipment/tools and highly trained commercial divers never before utilized in the Environmental Field. Hence our company slogan: "Performance is our Strength".



## SEVERAL PROJECTS COMPLETED:

### POWER PLANTS

**Jamaica Energy Partners, Old Harbour, St. Catherine (Dr. Bird Power Barge I & II):**

Performed search/recovery/inspection for missing end of HDPE discharge pipe and concrete protection slabs, installation and maintenance of large off shore mooring buoys. Underwater intake pipe, salvage, repair, reconstruction and pressure testing of the off-shore bunkering facility. Piling rehabilitation, splash zone rehabilitation and cathodic protection rehabilitation which included high pressure water blasting. Full inspection surveys for power barge and underwater structures including NDT testing encompassing cathodes protection readings and ultrasonic thickness readings. Marine Maintenance Contract.

**Jamaica Energy Partners, Old Harbour, St. Catherine (Dr. Bird Power Barge I):**

Seawater HDPE discharge pipe salvage, repair, reinstallation and anchoring.

**Jamaica Energy Partners, Old Harbour, St. Catherine (Dr. Bird Power Barge I):**

Seachest inspection and replacement of sacrificial anodes.

**Jamaica Private Power, Rockfort Station, Kingston:**

Monthly marine maintenance including pipe pigging, cleaning, removal of debris from pit area and pipeline intake. Videography, inspections and surveys on an ongoing basis.

**Jamaica Private Power, Rockfort Station, Kingston:**

Emergency repairs to Seawater HDPE discharge pipeline.

**Jamaica Private Power, Rockfort Station, Kingston:**

Demolition of partial structural pit area for expansion including design, supply and installation of new HDPE intake pipeline and associated structures.

**Jamaica Public Service / Old Harbour Plant:**

Inspection and survey of seawater intake structures surrounding the seafloor and cathodic protection. Marine consultants on design of the debris/silt-barrier for the seawater-intakes. Dredging of seafloor at seawater intake pipe area.

**Jamaica Public Service / Rockfort Plant:**

Inspection and survey of seawater intake structures and surrounding seafloor. Dredging of seafloor at seawater intake pipe area.

### BAUXITE PLANTS

**Jamalco, (Kier CCC Ja.), Clarendon (Bauxite Company):**

Salvage operations, repairs and rehabilitation of Jamalco's Rocky Point Pier as a result of damage caused by Hurricane Ivan. Installation of cathodic protection system, inclusive of splash zone protection jackets.

**Jamalco, (Kier CCC Ja.), Clarendon (Bauxite Company):**

Detailed survey and mapping of seafloor debris and existing pile structures.

**Jamalco, Clarendon (Bauxite Company):**

Annual marine maintenance contract on caustic and oil pipelines including marine structures. Videography, inspections, surveys and NDT testing on an ongoing basis.



**Jamalco, Clarendon (Bauxite Company):**

Removal and installation of seafloor penetrating anchoring system on caustic and oil pipelines.

**Jamalco, Clarendon (Bauxite Company):**

Survey and salvage of mobile walkways and fender systems in berthing and approach areas

**Alumina Partners of Jamaica (ALPART) (Bauxite Company):**

Salvage Operations of Dredging Barge and survey of seafloor at pier facility. Repairs to finger pier including engineering, piling, dredging, surveys and underwater steel cutting.

**Alumina Partners of Jamaica (ALPART) (Bauxite Company):**

Engineering and supply of Dolosses forms for shoreline protection.

**Winalco, Port Esquivel(Bauxite Company):**

Dredging of Pier berthing.

**Winalco, Port Esquivel(Bauxite Company):**

Survey of damage to pier due to ship collision including repair to piles and underwater cathodic protection system.

**Winalco, Port Esquivel(Bauxite Company):**

Survey and NDT Testing to fuel oil pipeline from Port Esquivel to JPS facility in Old Harbour.

**Noranda Bauxite Partners(Bauxite Company):**

We lifted, transported, relocated and concreted corals of various sizes and species for dredging exercises and port expansion.

**Jamaica Bauxite Mining (Reynolds Pier):**

Survey, dismantling and salvage of large vessel anchoring system

## **GOVERNMENT AGENCIES**

**Dunn's River, Ochio Rios (U.D.C):**

Groyne, Geotextile Placement/Anchoring and installation/maintenance of turbidity barrier.

**Dunn's River, Ochio Rios (Tank-weld Limited/U.D.C):**

Installation of mooring/anchoring assemblies at Dunn's River Beach, Ochio Rios, St. Ann.

**Urban Development Corporation, (UDC):**

Exposing by jetting, then conducting a video survey and inspection of a sewage pipe.

Installation of two storm water pipes including anchoring them with manta ray anchors in Ocho Rios Harbour.

**Urban Development Corporation, (UDC):**

Demolition and removal of pipeline at Dunn's River Beach, Ochio Rios, St. Ann.

**Rackams, Port Royal (Jan De Nul / Port Authority of Jamaica):**

We lifted, transported, relocated, drill, pinned/epoxy glued and concreted corals of various sizes and species. In completing this contract, we established a new world record (140 tons) in coral relocation, the previous record being 14 tons. This project was completed within two (2) months.

**KCT, Kingston Container Terminal (Port Authority of Jamaica):**

Survey and permanent repairs to sheet pile bulkhead with welded splice plates due to bulkhead failure.



**Berth 11, Kingston Wharves (Port Authority of Jamaica):**

Repairing of concrete dock after impact from a vessel. This involved underwater welding and cutting, building rebar cages and formwork then pumping concrete after demolition of existing damaged structure and steeltubular piles using hydraulic chain saw, cut-off saw and hammers.

**Berth 3, Kingston Wharves (Port Authority of Jamaica):**

Emergency and permanent repairs of sheet pile bulkhead after impact from a vessel. This involved underwater welding and cutting, dredging and building of Geo-textile wall with the pumping of concrete. Extensive surveys performed on behalf of vessel and port insurance companies.

**Leading Lights, Kingston Harbour (Tank-weld Limited/Port Authority of Jamaica):**

Underwater demolition and removal of leading light pilings in Kingston Harbour. Structure was demolished using underwater hydraulic equipment including diamond chain saws that cut through concrete and steel.

**Harbours Department, Concrete Dock, Kingston, Jamaica(Port Authority):**

Demolition and removal of concrete piles, beams and slabs.

**Anchor Salvage, Port Royal, Jamaica(Port Authority):**

Search and recovery of 15T anchor and 300 ft. of chain buried in seafloor. Delivered to wharf.

**Cruise Ship Pier, Ocho Rios, Jamaica(Port Authority):**

Search and recovery of large cruise ship docking fender. Delivered to pier.

**Cruise Ship Pier, Ocho Rios, Jamaica(Port Authority):**

Survey of seafloor depths as against Cruise Ship drafts including dredging exercises.

**KCT/Gordon Cay, Kingston, Jamaica(Jan De Nul / Port Authority of Jamaica):**

Salvage of 80 T crane with 100ft. of boom and 100 ft. tall "A" frame from underwater berthing; half buried in seafloor. Both items successfully rigged and lifted out intact without having to dismantle underwater.

**National Works Agency, FLATBRIDGE (NWA)**

Structural repairs to Flatbridge, Bog Walk Gorge, using FlexiTex-GeoTextiles as formwork and pumping over 85 m<sup>3</sup> of concrete into damaged bridge foundations.

**National Water Commission/Vinci Construction(NWC), Spanish Town, Jamaica:**

Underwater construction and welding of dam structure for new sewage treatment plant.

**National Water Commission(NWC), Ocho Rios, Jamaica:**

Removal and reattachment of corals. Seafloor substrate removal and leveling for outfall pipeline installation.

**National Resources Conservation Authority (NRCA/NEPA)Kingston Cays, Jamaica:**

Installation of Manta Ray Marine Anchors for use as moorings and also maintenance of these moorings at Lime Cay, Port Royal.

**Marine Police, Kingston, Jamaica:**

Providing marine search and rescue assistance, education, victim recovery islandwide and police-diver training and certification.

**Jamaica Defence Force (JDF) Port Royal, Jamaica:**

Coast Guard Vessel surveys and assisted maintenance. Recompression chamber survey, supplies and repair.

**Airports Authority, Kingston, Jamaica:**

Survey, dismantling, cleaning and reassembly of HDPE outfall pipeline and diffuser.



## **ENVIRONMENTAL ENTITIES**

### **Rackams, Port Royal (Jan De Nul / Port Authority of Jamaica):**

We lifted, transported, relocated, drill, pinned/epoxy glued and concreted corals of various sizes and species. In completing this contract, we established a new world record (140 tons) in coral relocation, the previous record being 14 tons. This project was completed within two (2) months.

### **Noranda Bauxite Partners (Bauxite Company):**

We lifted, transported, relocated and concreted corals to reef of various sizes and species for dredging exercises and port expansion.

### **Goldeneye Resort/Island Jamaica, Oracabessa, Jamaica:**

Project Management and Construction of Marine infrastructure. Rock revetment (30,000 T), sheet piling & tie back system, timber dock piling & assembly, concrete piling, dredging & construction of two bridges. Installation of new artificial reef using large precast modules.

### **Fiesta Hotel, Montego Bay, Jamaica:**

Underwater removal, transportation and reattachment of live corals to reef.

### **Secrets Hotel, Montego Bay, Jamaica:**

Underwater removal, transportation and reattachment of live corals to reef.

## **PETROLEUM ENTITIES**

### **New Fortress Energy, Jamaica:**

Installation of all marine works specifically the sea water intake heating system, cofferdam and underwater elevated pipeline for Jamaica's first LNG Terminal Plant in Montego Bay.

### **Petrojam, Jamaica:**

Inspection, surveys and repairs to petroleum pipelines underwater.

### **Petrojam, Jamaica:**

Offshore pipeline installation and anchoring for new oil supply service by ship at JPS Rockfort facility. Installation of new five point mooring system for oil supply vessels.

### **Petrojam, Jamaica:**

Removal and replacement of underwater flexible fuel line string and marker buoys including draining of oil in string and containment at JPS Rockfort offshore fuel depot.

### **Massy Gas, Flatbridge, Jamaica:**

Salvage of full Liquefied Propane Gas (LPG) tractor trailer that fell off the bridge and lodged against the bridge in association with the Office of Disaster Preparedness (ODP).

### **Grace Kennedy SOL Pier, Kingston, Jamaica:**

Survey, inspection and underwater casting of concrete to undermined sea wall foundations including underwater gabion basket installations for scour protection. Also, the salvage of large concrete revetment debris alongside the entire sea wall defence system.





## **TELECOMMUNICATION ENTITIES**

### **Cable and Wireless Jamaica Limited, Jamaica:**

Under-water survey, inspection, repairs and relocation of Fiber Optic cable and laying of new ones to Cable and Wireless landing locations islandwide. Yearly inspection surveys on landing locations islandwide.

### **Maritech International(FLOW), Jamaica:**

Fiber Optic cable landings with split pipe protection installation.

## **PRIVATE ENTITIES**

### **VINCI - EMCC Construction, KCT, Kingston, Jamaica:**

Survey and inspections of existing Quay Wall at Kingston Container Terminal and all new piling works.. Demolition and salvage of channel marker beacons to facilitate dredging exercises to widen and deepen the channel. Dredging, surveys, probes and installation of the new sub-sea wall including all repairs and the installation of sacrificial anodes.

### **Sodraco – Jan De Nul, KCT, Kingston, Jamaica:**

Survey and inspection of three dredging vessels. Installation and removal of dredging sweep boom to vessels. Salvage, survey and repair operations to damaged vessel stranded in channel entrance.

### **Jan De Nul, Hull Cleaning, Kingston, Jamaica:**

Inspection and manual hull cleaning of the dredger “Leonardo de Vinci” and the Hopper Barge “Christoforo Colombo” prior to their departure from Jamaica.

### **Appleton Estate, St. Elizabeth, Jamaica:**

Dredging and cleaning of screen/pump area and the removal of large debris.

### **Caribbean Cement Company, Kingston, Jamaica:**

Survey of structural damage to coal pier after ship collision.

### **Caribbean Cement Company, Kingston, Jamaica:**

Installation/welding of underwater sacrificial anodes on entire coal pier structure.

### **Caribbean Cement Company/Jamaica Gypsum, Kingston, Jamaica:**

Timber pile survey, demolition and removal from berthing using underwater chain saw.

### **Caribbean Cement Company/Jamaica Gypsum, Kingston, Jamaica:**

Steel pile survey, demolition and removal from berthing using underwater saws and gas cutting.

### **Half Moon Golf, Tennis and Beach Club, Montego Bay, Jamaica:**

Construction of Dolphin Lagoon: Installation/maintenance of a Turbidity Barrier, excavation and spoil removal prior to supply and installation of Geo Fabric. Placement of armour stone on the fabric whilst dredging of the Lagoon including beach grading. The project was completed after the installation of a underwater fence, utilizing manta ray ground anchors.

### **Goldeneye Resort/Island Jamaica, Oracabessa, Jamaica:**

Project Management and Construction of Marine infrastructure. Rock revetment(30,000 T), sheet piling & tie back system, timber dock piling & assembly, concrete piling, dredging & construction of two bridges. Installation of new artificial reef using large precast modules.



**Morrits Grand Tortuga(Cayman Islands):**

Survey, sand excavation of seafloor, drilling of hard substrate and concrete anchoring of specialty anchor rods for concrete pile casements of new dock facility.

**Fiesta Hotel, Montego Bay, Jamaica:**

Removal and reattachment of live corals.

**Secrets Hotel, Montego Bay, Jamaica:**

Removal and reattachment of live corals.

**Newport Mills Limited (Nutramix) Kingston, Jamaica:**

Survey, inspection and repairs to Nutramix loading pier at Myers wharf.

**Tank-Weld, Kingston, Jamaica:**

Survey of sunken barge.

**Tank-Weld, Rio Bueno, Jamaica:**

Cleaning of tubular steel piles and splash zone protection jackets supplied and installed.

**Perez Shipping Company, Jamaica:**

Hull inspections and ship survey for several vessels.

Cleaning of Seachest and Coolers on Vessel named "Zim Venezuela".

**Ofer (Ships Holding) Limited (Company based in Israel), Jamaica:**

Hull inspections and ship survey of several vessels.

**Royal Ocean & Shipping, Jamaica:**

Hull inspections and ship survey for several vessels.

**SCAMP International(Company based in Gibraltar), Jamaica**

Hull inspections and ship survey for several vessels.

**London Offshore Consultants(Company based Worldwide), Jamaica**

Hull inspections and pier surveys due to ship collisions.





## **COMPANY DETAILS**

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*DIVETECH* is committed to a high standard of performance to meet the expectations of our local and international clients within a framework of trust, quality, responsibility and reliability, which has been acquired throughout our history.