



<p><b>WW</b> <b>- Consultores de Hidráulica e Obras Marítimas, S.A.</b></p> <p>Rotunda Nuno Rodrigues dos Santos, 1-B – 10º 2685-223 PORTELA LRS Tel.: (351) 21 441 28 77 Fax: (351) 21 441 28 78 E-mail: geral@wwsa.pt</p>	<p><b>Corporation Form</b> Joint-Stock Company</p> <p><b>Registered Capital</b> 50.000 Euros</p> <p><b>Board of Directors</b> C. Pires Cardoso, Electr. Eng. Hugo Leite, Civil Eng. Marlene Dias, Civil Eng. Daniel Esaguy, Electr. Eng.</p> <p><b>Directors</b> A. Sanches do Valle, Civil Eng. Marlene Dias, Civil Eng. Hugo Leite, Civil Eng.</p> <p><b>Permanent Personnel</b> Total: 20 Graduates: 13 Other Technicians: 6 Administrative Staff: 1</p> <p><b>Turnover (2014)</b> 1.433.200 Euros</p> <p><b>Main Associations</b> • APCC – Portuguese Association of Engineering and Management Consultants • PIANC - Permanent International Association of Navigation Congress</p> <p><b>Certifications</b> • NP4457:2007 - APCER</p>	 <p>WW - Consultores de Hidráulica e Obras Marítimas S.A.</p>
 <p><b>PORTUGUESE ASSOCIATION OF ENGINEERING AND MANAGEMENT CONSULTANTS</b></p> <p>Last update: 19-06-2015</p>	<p><b>General Description</b></p> <p>WW - Consultores de Hidráulica e Obras Marítimas, SA is a consulting company that develops its activity since 1981 in the area of Maritime Hydraulics, Coastal Engineering and Port Engineering, working in mainland Portugal, Azores Islands, Madeira Island, Angola, Algeria, Brazil, Cape Verde, Spain, Malta and Morocco. WW is an independent company that operates both in the public and in the private sectors having as Customers several public organizations, private developers, contractors and consultants. It has a permanent staff of highly skilled technicians and partners with consultants specialized in complementary activities to develop integrated projects.</p> <p><b>Main Expertise</b></p> <ul style="list-style-type: none"> <li>• Coastal engineering</li> <li>• Port engineering</li> <li>• Maritime and sea-river works</li> <li>• Maritime Hydraulics</li> <li>• Mathematical modelling</li> </ul> <p><b>Services</b></p> <ul style="list-style-type: none"> <li>• General consulting</li> <li>• Planning</li> <li>• Engineering studies and projects</li> <li>• Management and co-ordination of construction works</li> <li>• Inspection of construction works</li> <li>• Structure monitoring.</li> </ul> <p><b>Significant Last Works</b></p> <p><b>Commercial Harbours</b></p> <ul style="list-style-type: none"> <li>• Funchal Harbour master plan</li> <li>• Master plan, preliminary studies and detailed design of Caniçal Harbour</li> <li>• Study of the alternative locations of the new Container Terminal of Lisbon Harbour</li> <li>• Expansion of the Alcantara Container Terminal of Lisbon Harbour</li> <li>• Rehabilitation of dock nº 4 south quay of Leixões Harbour</li> <li>• Rehabilitation of the Unicargas Terminal of Luanda Harbour, Angola</li> </ul> <p><b>Recreational Harbours</b></p> <ul style="list-style-type: none"> <li>• Detailed Design of Vilamoura XXI Artificial Lakes Infrastructures</li> <li>• Integrated Plan for the Infrastructure Network in Support of Pleasure Crafts in the Tagus Estuary (PIRANET)</li> <li>• Detailed Design of Ferragudo Marina, Portimão</li> <li>• Detailed Design of the recreational dock of Madalena do Pico Harbour, Azores</li> <li>• Marina da Barra, Santa Cruz da Graciosa, Azores</li> </ul> <p><b>Fishing Harbours</b></p> <ul style="list-style-type: none"> <li>• Detailed design of the expansion of Vila Franca do Campo Fishing Harbour</li> <li>• Detailed Design of Improvement Works of Ribeira Quente Harbour, S. Miguel Island, Azores</li> </ul> <p><b>Cruise Terminals</b></p> <ul style="list-style-type: none"> <li>• Rehabilitation of the quay between S. Apolónia and Jardim do Tabaco, Lisbon Harbour</li> <li>• Detailed Design of New Passenger Terminal of Madalena Harbour, Azores</li> </ul> <p><b>International Experience</b></p> <p><b>Angola</b></p> <ul style="list-style-type: none"> <li>• Maritime Works of Marina Bay, Luanda, Angola</li> <li>• Construction of New Quay in Cabinda Harbour, Angola</li> </ul> <p><b>Cape Verde</b></p> <ul style="list-style-type: none"> <li>• New infrastructures of Porto Grande S. Vicente, Cape Verde</li> <li>• Detailed Design of Porto Novo Harbour Expansion</li> </ul> <p><b>Morocco</b></p> <ul style="list-style-type: none"> <li>• Detailed design of Tanger Harbour and Tetouan submarine outfalls, Morocco</li> <li>• Detailed design of the protection works of Safi's Jorf Amouni cliff, Morocco</li> <li>• Detailed design of the Duques of Alba oil terminal of Mohammedia Harbour, Morocco</li> <li>• Fishing Port of Tanger, Morocco</li> <li>• Port of Laayoune - Maritime Protection, Morocco</li> </ul> <p><b>Malta</b></p> <ul style="list-style-type: none"> <li>• Detailed design of Ta Barkat submarine outfall, Malta</li> </ul> <p><b>Panama</b></p> <ul style="list-style-type: none"> <li>• Dock Facilities and Fuel Offloading System, Mina de Cobre Panama Project, Panama</li> </ul> <p><b>Master Plan and Detailed Design of the New Cruise Terminal of Funchal Harbour, Madeira</b></p> <p><b>Detailed Design of Passenger Terminal of Horta Harbour</b></p> <p><b>Shipyards</b></p> <ul style="list-style-type: none"> <li>• Detailed Design of the new Shipyard of Casablanca Harbour, Morocco</li> <li>• Porto Amboim Paenal Shipyard, Detailed Design of Breakwater and Quays</li> </ul> <p><b>Coastal Protection</b></p> <ul style="list-style-type: none"> <li>• Maritime promenade between Forte da Giribita and Cruz Quebrada beach</li> <li>• Coastal and dune systems rehabilitation between Costa Nova and Mira</li> <li>• Hydrodynamic Improvement of Ria Formosa and Barreira Islands</li> </ul> <p><b>Submarine Outfalls</b></p> <ul style="list-style-type: none"> <li>• Detailed design of S. Jacinto submarine outfall</li> <li>• Detailed design of the submarine outfall of the sewage treatment station (ETAR) of Lagoa-Meco</li> </ul>	