

**DIACLASE**  
- Consultores de Engenharia,  
Geologia e Ambiente, Lda

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**Corporation Form**  
Limited Liability Company

**Registered Capital**  
5.000 Euros

**Board of Directors**  
António Ambrósio, Civil Eng.  
Raul Duarte, Geologist

**Directors**  
António Ambrósio, Civil Eng.  
Raul Duarte, Geologist

**Permanent Personnel**  
Total: 2  
Graduates: 2

**Turnover (2011)**  
132.671 Euros

**Main Associations**  
• APPC - Portuguese  
Association of Engineering  
and Management  
Consultants



**General Description**

DIACLASE was founded in 2006 for the purpose of developing projects and studies in the main areas of Civil Engineering, Geology, Geotechnics and Environment. The main goal of Diaclose is to provide expertise and highly specialized services in the referred areas, for the national market (mainland, Madeira and Azores islands) and also for the international market.

**Main Expertise**

- **Civil Engineering**
  - Hydraulic structures (e.g. dams, levees, reservoirs, water channels)
  - Underground structures (e.g. caverns, tunnels, galleries, shafts)
  - Earth retaining structures
  - Slope stabilisation
  - Earthworks (e.g. roads, railways, waste fills)
  - Special foundations
  - Structures rehabilitation
- **Geology and Geotechnics**
  - Geological and geotechnical studies
  - Geotechnical risk analysis
- **Hydrogeology**
  - Studies of ground water resources
  - Ground water exploitation works - design and technical assistance
  - Study of wellhead protection areas
- **Environmental studies**
  - Environmental impact studies
  - Environmental rehabilitation

**Services**

- Projects
- Technical assistance to works
- Engineering and Geological Consulting services
- Project review
- Technical studies

**Significant Last Works**

- **Civil Engineering**
  - Dams: Vilaríça Weir - Baixo Sabor (Preliminary design), Monte Mercador (Preliminary design), Ribeiradio/Ermida - River diversion (Tender design), Reservoir R3 - Alvito/Pisão (Monitoring / Surveillance plan), Coriscada (Final design)
  - Tunnels: New Aguas Santas North Tunnel (Tender design); Pinhal Interior Concession (BAFO, Tender design), High-Speed Railway line Lisbon/Oporto - Soure/Mealhada (Feasibility study)
  - Earth retaining structures / Slope stabilization: Rehabilitation at Madeira Island (ER101 Quebradas, ER221 Seixal, ER204 Porto Novo) (Final design), Dam and access roads at Baixo Sabor (Technical Report), Ceira's train park facilities - Lousã (Final design), Cliff at S. Bernardino's beach (Final design), Cliffs at Peralta beach (Risk analysis/ Assessment)
  - IC9/Litoral Oeste Highways - EN1/Fátima (Earthworks final design)
  - Mine waste fills at Somincor (Preliminary study)
- **Geological and Geotechnical studies**
  - Fonte do Juncal tunnel (Madeira), Road ER319 - Cristelo/Baltar, Praia dos Moinhos development, Wastewater treatment plant - Qta. Visconde, Water reservoirs of Alecrim/Águas Mansas/ Campo Golfe/Sto. Serra/Portela/ Portela2 (Madeira)
- **Hydrogeology**
  - Underground water resources: Suldouro earth fill (Caldas S. Jorge), Mondego Subway (Lousã), Piezometric network at Madeira, Porto Novo/ Ribeiro Frio tunnel lengthening, Paul da Serra (water tunnels), CIRVER's hazardous waste fill
  - Tapada do Outeiro fill. Piezometers project
  - Wellhead protection areas for groundwater supply wells: Chamusca, Almada, Alenquer, Benavente, Lagoa Formosa, Carvalhal, Gavião, Coruche, Pego, Seixal, Alviela, Ota, Lezíria II/III, Valada, Carregado, Espadanal
- Supply wells design/Technical assistance: Tejo-Sado basin, Alcácer do Sal, Ribeira Brava (Madeira), Porto Novo (Madeira), Pinhal de Negreiros, Crato, Comporta, Alcanena
- **Environmental studies**
  - Works at Pisão/Beja & Pisão/Roxo, Ribeira Grande's geothermal well (Azores), Lisbon Metro (Red Line - Lumiar/Aeroporto)
  - Dams: Juncal (Madeira), Venda Nova III, Penedrão
  - Irrigation blocks: Vale Gaio, Cinco Reis/ Trindade, Beringel/Beja, Alvito/Pisão, Cuba/Vidigueira
  - Rehabilitation of Lagoa do Caldeirão - Corvo (Azores)

**International Experience**

- Angola (Luanda)
- Brasil (São Paulo)
- China (Macau)
- Ireland (Dublin)

