



<p><b>COBA</b> - Consultores de Engenharia e Ambiente, S.A.</p> <p>Av. 5 de Outubro, 323 1649-011 LISBOA Tel.: (351) 21 012 50 00 Fax: (351) 21 797 03 48 E-mail: cobra-pt@cobagroup.com Web site: www.cobagroup.com</p>	<p><b>Corporation Form</b> Joint-Stock Company</p> <p><b>Registered Capital</b> 5.000.000 Euros</p> <p><b>Board of Directors</b> Fernando Prioste, President (CEO) Luís Campos Gusmão, Vice-President Luís Silva Carvalho, Member (CFO) Alexandre Portugal, Member</p> <p><b>Directors</b> António Pereira da Silva (Chief Operations Officer). Eng. José Cravidão, Eng. Virgílio Rebelo, Eng. Cristina Costa, Eng. Vicente Rodrigues, Eng. José Honrado, Eng.</p> <p><b>Turnover (2016)</b> 32.558.302 Euros —Group</p> <p><b>Certifications</b></p> <ul style="list-style-type: none"> <li>NP EN ISO 9001:2015</li> <li>Quality Assurance in Construction (LNEC)</li> </ul> <p><b>Permanent Personnel</b></p> <table border="1"> <thead> <tr> <th></th> <th>PT</th> <th>Group</th> </tr> </thead> <tbody> <tr> <td>Total:</td> <td>175</td> <td>354</td> </tr> <tr> <td>Graduates:</td> <td>121</td> <td>212</td> </tr> <tr> <td>Other Technicians:</td> <td>30</td> <td>79</td> </tr> <tr> <td>Administ. Staff:</td> <td>24</td> <td>63</td> </tr> </tbody> </table>		PT	Group	Total:	175	354	Graduates:	121	212	Other Technicians:	30	79	Administ. Staff:	24	63	
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<p><b>Delegations / Associated companies</b></p> <p><i>International companies:</i></p> <ul style="list-style-type: none"> <li><b>COBAngola, Consultores de Engenharia, Lda.</b> Rua Marechal Brós Tito Nº 35/37, Edifício Escom. 14º Andar, B; Luanda Tel.: (244) 225 300 073 / Fax: (244)225 300 074 E-mail: cobra-ao@cobagroup.com</li> <li><b>COBA Algérie, Ingénieurs Conseils</b> 09, Rue des Frères Hocine, El Biar 16606 Algiers Tel/Fax: (213) 21 922 802 E-mail: cobra-dz@cobagroup.com</li> <li><b>COBA – Consultores para Obras, Barragens e Planeamento Ltda</b> Rua Buenos Aires 68, 2º Centro. Rio de Janeiro RJ - CEP 20.070-022 Tel. (55 21) 3553 67 30 Tel. (55 21) 8366 00 06 Email: geral@cobra.com.br</li> </ul> <p><i>Branch offices:</i></p> <ul style="list-style-type: none"> <li><b>COBA Colombia</b> Carrera 14, Nº. 93B-29, Of. 407 Bogotá, D.C. Colombia Tel.: (57) 1 635 5355 / 1 635 0744 E-mail: c.gomes@cobagroup.com</li> <li><b>COBA Mozambique</b> Centro de Escritórios. Pestana Rovuma Hotel. Rua da Sé, 114, Piso 4, Sala 433, Maputo Tel/Fax: (+258) 21328813 / 21016165 E-mail: cobra.mz@cobagroup.com</li> <li><b>COBA Peru</b> Calle Mártir Olaya, Nº129, Of.705, Miraflores, Lima Tel.: (0051) 279 5095 E-mail: w.rodriguez@cobagroup.com</li> </ul> <p><b>Main Associations</b></p> <ul style="list-style-type: none"> <li>CIGB (Int. Commission On Large Dams)</li> <li>IAEG (Int. Assoc. Engin. Geology)</li> <li>AIPCR (Assoc. Int. Perm. Congr. Estrada)</li> <li>ISRM (Int. Soc. Rock Mechanics)</li> <li>ICOLD (Int. Commission on Large Dams)</li> <li>ASCE (American Soc. Civil Eng.)</li> <li>AEPSA (Port. Assoc. for Environmental Sector)</li> <li>ADFER (Portuguese Assoc. for Railway Transport Development)</li> <li>APPC – Port. Assoc. Eng. Manag. Consultants</li> <li>AIP (Portuguese Industrial Assoc.)</li> <li>APRH (Water Resources Portuguese Assoc.)</li> <li>PPA (Portuguese Partnership for Water)</li> </ul> <p> <b>PORTUGUESE ASSOCIATION OF ENGINEERING AND MANAGEMENT CONSULTANTS</b></p> <p>Last update: 01-07-2017</p>	<p><b>General Description</b></p> <p>With 55 years, COBA is a multinational and multidisciplinary group of Engineering and Environmental Consultants. The Group provide engineering consultancy services ranging from basic and planning studies, technical, environmental and economic feasibility studies, design and construction design as well as project management and works supervision, to operation follow-up and behaviour monitoring.</p> <p>The Group has offices/subsidiaries in three continents and experience in more than forty-five countries and encompasses several companies in accordance with functional specializations or geographical areas. During its existence, the Group has participated, together with major impacts on the improvement of peoples' life conditions in the several countries where it worked.</p> <p><b>Main Expertise</b></p> <ul style="list-style-type: none"> <li><b>Hydraulic undertakings</b> Concrete and embankment dams. Weirs and reservoirs. Pumping systems. Hydraulic structures.</li> <li><b>Electrical power generation and transmission</b> Hydroelectric power plants. Cooling water systems of thermo-electric power plants. Small hydro power plants. Substations. High voltage networks.</li> <li><b>Transportation infrastructures</b> Roads and highways. Railways. Freight and passenger stations. Subways. Airports. Bridges and other engineering structures.</li> <li><b>Agricult. and rural development</b> Irrigation and drainage systems. Rural paths. Production systems.</li> <li><b>Water supply and sewerage</b> Water storage, treatment, transport and distribution. Water and waste water treatment. Pumping stations.</li> <li><b>Environment</b> EIA of engineering works. Environmental management and auditing. Pollution, water and air control, noise abatement. Landscaping.</li> <li><b>Geotechnical structures</b> Tunnels and underground cavities. Natural and excavation slopes. Special foundations. Piers. Embankment works.</li> <li><b>Cartography and land register</b> Geographic Information Systems. Digital cartography. Thematic cartography. Land acquisition.</li> </ul> <p><b>Services</b></p> <ul style="list-style-type: none"> <li>Planning and feasibility studies</li> <li>Environ. Impact Assessment</li> <li>Design and technical assistance to works</li> <li>Project management and construction supervision</li> <li>Technical assistance and advisory services</li> </ul> <p><b>Significant Last Works</b></p> <ul style="list-style-type: none"> <li><b>Water resources planning and management:</b> multimunicipal water supply and sanitation of Centre of Portugal.</li> <li><b>Dams:</b> Odelouca, Ribeira das Cortes, Minutos, Álamos, Sabugal.</li> <li><b>Hydro-electric developments:</b> Baixo Sabor, Foz Tua, Salamonde II, Pedrógão, Alvito, Fridão, Ribeiradio-Ermida, Alqueva II.</li> <li><b>Water supply and sewerage:</b> Alentejo Litoral Sul system, water supply to the town of Covilhã and water supply and sanitation of Alto Zêzere and Côa system.</li> <li><b>Hydro-agricultural projects:</b> Alqueva (Ervidel); Baleizão-Quinto hydraulic circuit, Calhões-Moura water transfer and irrigation blocks).</li> <li><b>Road and airway infrastructures:</b> Transmontana, Baixo Tejo and Douro Litoral Motorways; Pavement rehabilitation/upgrading section A12/A6/A3/Alcácer do Sal; Lisboa, Porto, Beja and João Paulo II Airports.</li> </ul> <p><b>Railways and subways:</b> North Railway Line between Lisboa and</p> <p><b>International Experience</b></p> <p><b>Angola:</b> HE Developments: Chikapa II. Luachimo, Caculo-Cabaça, Laúca, Cambambe II, Matala, Lomaum, Gove, Jamba-la-Mina, Jamba-la-Oma, Chiumbe-Dala; Luanda Sanitation, Water Supply and Sanitation of Malange, Kuito, Ondjiva, Huambo, N'Dalatando, Dundo, Saurimo and Menongue; WS Towns Calandula, Luena, Bocoio, Caconda, Caála and Luanda (rehabilitation and Kikuxi WTP); Wako Kungo, Bom Jesus, Calenga, Chibia and Lwena Irrigation Projects; Angola Irrigation Master Plan; National Water Plan of Angola; Huambo-Benguela (Caála/Ganda), Cuvelai-Cassinga-Cuvango and bridges of EEN225 – Section Chimbongue/Xaaua; EIA gas storage park and urban requalification of G. Dimitrov residential area; medium and high voltage lines and public lighting of Fucauma, Cassinguidi, Luxilo, Andrada, Maludi, Lucapa and Calonda towns.</p> <p><b>Algeria:</b> Dams: Fontaine des Gazelles, Ighil Emda, Kouliat Ben Aida, Bounachi, Zaouia, Charchar, Béni Slimane, Seklafa, Dermoun; Mostaganem-Arzew-Oran Water Conveyance System; Master Plan for Use of Waste Water Treatment Plants (Lagoons); New Boughzoul-M'Sila Railway Line; Algiers Outside Ring Motorway (4ème Rocade); Doubling of RN01 between Chiffa and Berrouaghia; Oran es-Senia Airport.</p> <p><b>Brazil:</b> Piauí Water Resources Management, Flood Control in the Maurié River, Umári, Figueiredo, Aracoíaba, Iraí, Candeia and Jaburú dams; Rio de Janeiro TransBrasil – BRT (Bus Rapid Transit), TransBrasil Project – BRT (Bus Rapid Transit).</p> <p><b>Cape Verde:</b> Poilão dam</p> <p><b>Colombia:</b> Irrigation and drainage rain water systems of Magará Soil, Barranquillita-Bajirá, Firavitoba and Amplonita.</p> <p><b>Georgia:</b> Motorway E60 - Samtredia / Grigoleti</p> <p><b>Equatorial Guinea:</b> Water supply to the town of Bata</p> <p><b>Guinea Bissau:</b> Saltinho dam</p> <p><b>Morocco:</b> Drinking Water Supply to the Khouribga, Meknès and Agadir Cities, Azilal Floating Intake; Ait Messaoud WTP; Gharb Irrigation Project.</p> <p><b>Mozambique:</b> Sena Railway Line; Water Supply to Tete and Moatize, Greater Maputo; Moatize Expansion Project and HE Mphanda Nkuwa Environmental Studies; Moamba-Major Dam; Xai-Xai Irrigation Project; Construction Supervision Combuneme-Mapai and Mapai-Chicalacuala roads.</p> <p><b>Pakistan:</b> Warsak Hydropower Plant</p> <p><b>Peru:</b> New Cusco Expressway, Rarucano and Manrañon HPP; Hydroelectric Seven Rivers Study in southern Peru (Apurimac, Madre de Dios, Puros, Grande, Chili, Tambo e Titicaca);</p> <p><b>Qatar:</b> New Orbital Highway and Truck Route. Truck Route Dukhan Highway to Al Khor Link Road</p> <p><b>Senegal/Guinea-Conakry:</b> Sambangalou and Kaleta hydro power projects</p> <p><b>Senegal:</b> Patte d'Oie (Dakar)—Diamniadio Motorway and NR N1 – Section Khungheul/Tambacounda.</p> <p><b>Republic of the Congo:</b> Okoyo/Lekety/ Road/Gabon Border; Ollombo Airport.</p> <p><b>Tanzania:</b> Mtwara International Airport.</p>																