



***prozinco***<sup>®</sup>  
*construção e manutenção, lda.*



**INTRODUCTION**  
**AUGUST 2023**

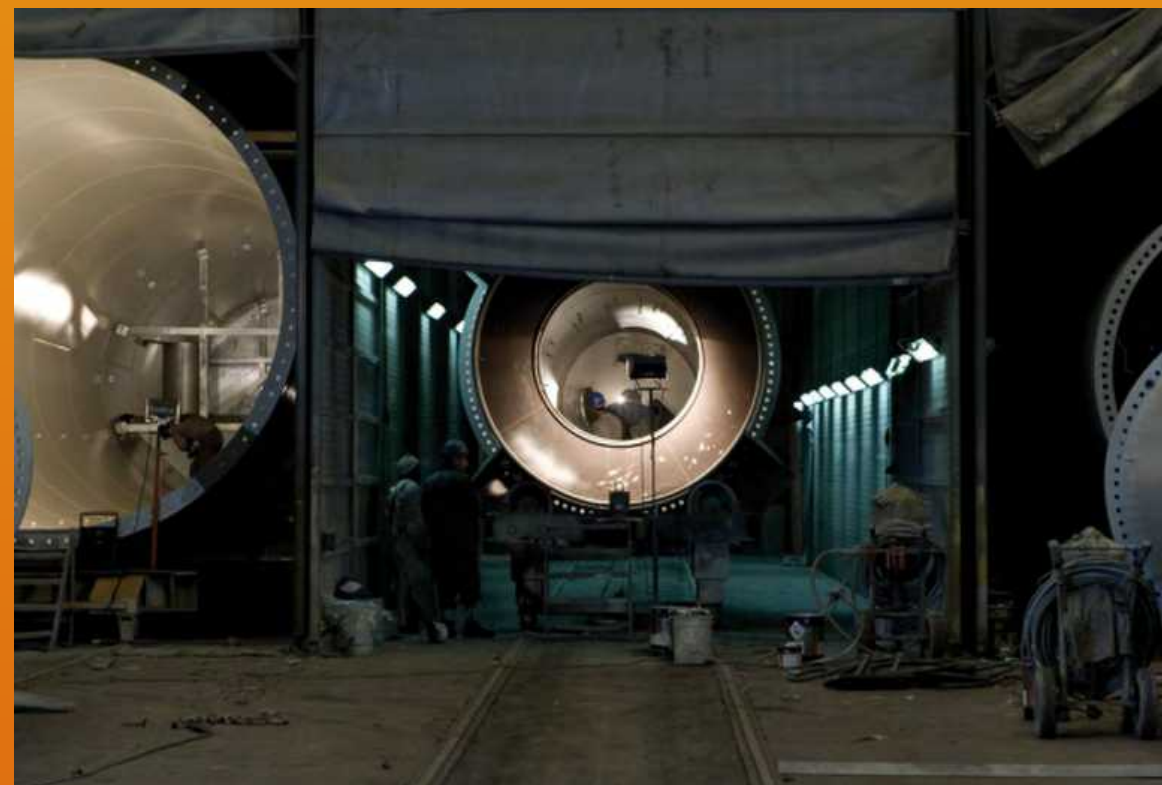


# MANUFACTURING AND ASSEMBLING OF STRUCTURES, PIPING AND RESERVOIRS





# ANTICORROSION PROTECTION





# CIVIL WORKS





# WIND TOWERS - SERVICE & MAINTENANCE





# BRANCHES

- The Santiago do Cacém branch





- Prozinco Moçambique, lda.



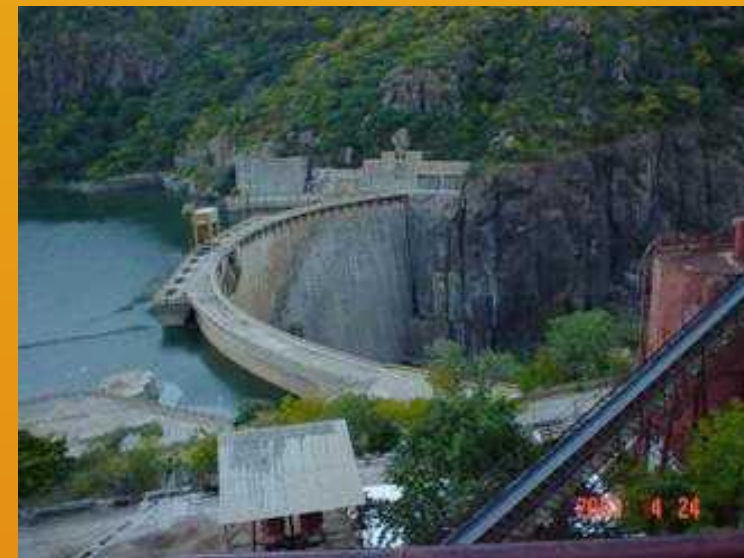


# INTERNATIONAL EXPERIENCE

- Prozinco is very experienced working abroad in Countries of 4 continents such as the following examples:



Costa Rica, Greece, Spain  
and Italy



Mozambique – Cahora Bassa



Bahrein

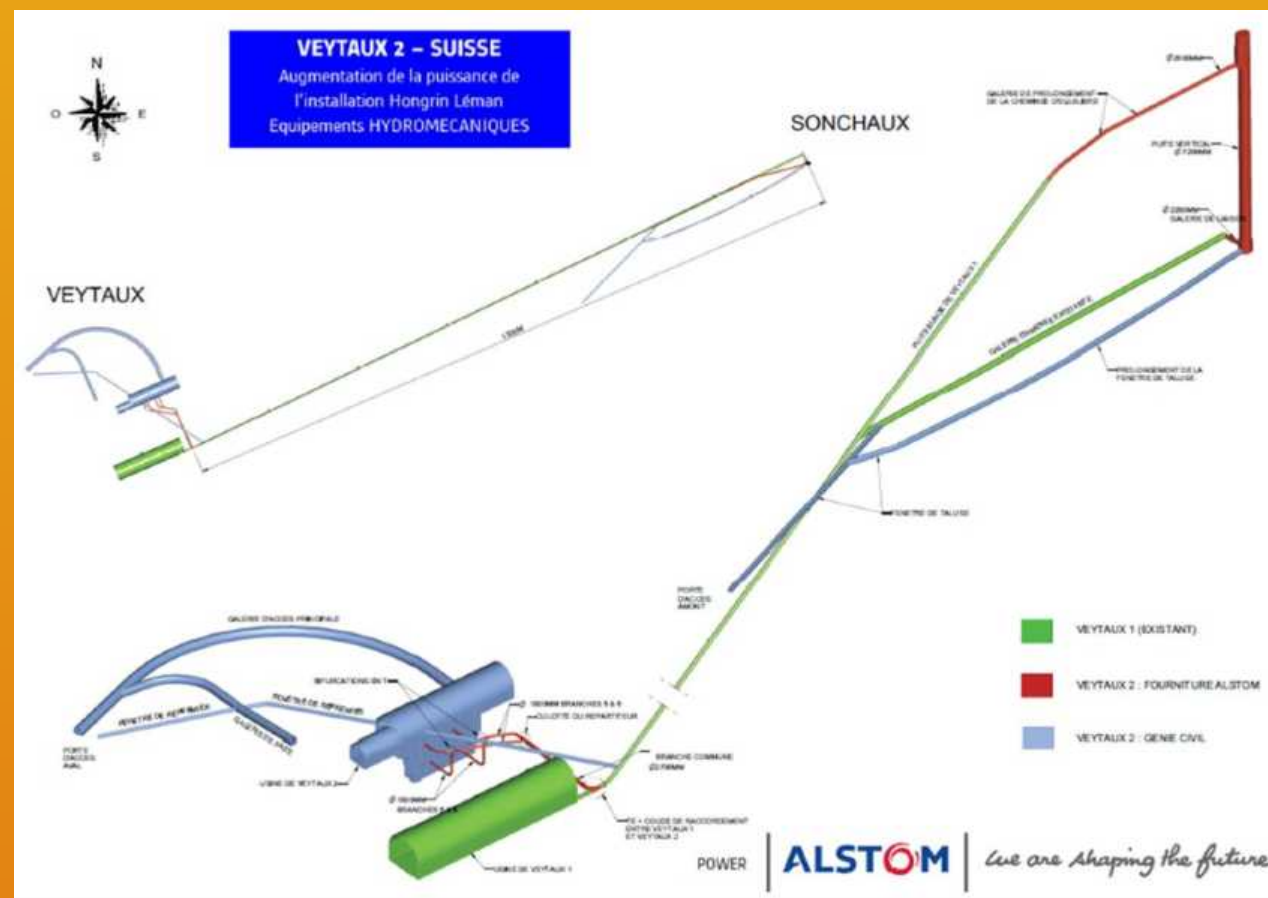


Austria



# SPECIAL PROJECTS

- **Projet Veytaux 2**
  - Vertical shaft 180 m deep and ø 7,2 m;
  - Access made by galeria with 2,5 m x 2,0 m e 550 m long;
  - Distance by road for replacement of the grit 11 km.





# HUMAN RESOURCES

- The Company possess at it's service a group of 280 people, with contract and between 250 and 300 people temporarily depending on the work's needs.
- The average number of people working is of around 450 distributed by the following activities:
  - Anticorrosion Protection:  
110 People
  - Metalomechanic:  
130 People
  - Civil Works:  
80 People
  - GPL bottles refurbishment :  
80 People
  - Technical Staff:  
20 Pessoas
  - Administrative Staff:  
30 Pessoas



- The Company has a very experienced technical team composed by engineers and other technicians with large amount of experience of the jobs they perform.
- The Company has it's own internal medicine services and HSE technicians
- The Company is certified since 1993 under the ISO 9001:2015 standard and possesses its own autonomous quality department.
- The Company is certified since 2012 under the OHSAS 18001:2077 standard and possesses its own autonomous HSE department
- The Company is certified since 2014 under the EN 1090-1:2009+A1:2011 standard and its able to fabricate and install metallic structures



# EQUIPMENTS

Prozinco owns fixed and mobile equipment that allow it to perform several different types of work on its facilities or on their clients among which:

- Benders (6m / 13mm)
- High definition bender CNC 320 TON profiles until 4 m
- Guillotine cutters for steel pieces with 3m and 6 m long and 13 mm thick
- Plasma units for 6 m steel plates. The Plasma heads have 260 A, CNC, last generation.
- Rolling bridges until 16 TON
- Several welding machines for MIG/MAG, electrode, etc.
- Bending machine for pipes and profiles until 10"



# EQUIPMENTS

Processing machine for cutting, open holes and threading, in three axes, capable of cutting 1000 mm wide beams equipped with the most recent technology and 0,01 % tolerance.





## EQUIPMENTS

- Bending machine for steel plates until 3 m e 20 mm thickness
- Sandblasting tunnels using steel grit (20 x 5)
- Automatic sandblasting machines using steel grit
- Spray metalizing tunnel (20m x 5m)
- Diesel compressors until 21 m3 and 12 Bar
- Electrical Compressors until 21 m3 and 12 Bar
- Mobile cranes until 50 TON
- Fixed cranes (1 - 10 TON e 2 – 5 TON)



# EQUIPMENTS

- External/Internal sandblasting equipments able to use several different types of abrasive like steel grit, sand, glass, corindon, etc.
- Lifting equipment's such as elevating platforms (16 m electrical and Diesel), fork lifters, lifters, cranes, bulldozers, etc.
- Water-jetting machine UHP 3000 BAR
- Containers to be used as office, tool house, WC, etc
- Vehicles for personnel transport and 15 heavy trucks for materials and equipments
- Scaffolding material and certified workers to assembly, inspect and approve scaffoldings (Class 4 permit for jobs until 1.328.000,00 €)



# MAIN ACTIVITIES





# MAIN ACTIVITIES

## FABRICATION AND ASSEMBLY OF STEEL STRUCTURES, PIPING AND METALLIC EQUIPMENTS

The company has wide experience on this field and can do these type of works, among others:

- Fabrication and assembling piping of carbon steel and stainless steel
- Fabrication and assembling of metallic structures
- Fabrication and assembling of industrial reservoirs
- Assembling and lining-up of pumps, engines and reducers
- Fabrication and assembling of metallic equipments
- Fabrication and assembling of industrial transporters
- Industrial Maintenance
- Repair of metallic structures of bridges and viaducts including replacement of rivets or application of new rivets
- Fabrication and assembling of work platforms to access bridges and viaducts to perform maintenance



- Fabrication of carbon steel piping





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of water supply networks





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping





# METALOMECHANICS

- Fabrication and assembling of stainless steel piping





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping and civil works





# METALOMECHANICS

- Fabrication, anticorrosion protection and assembling of carbon steel piping and civil works





# METALOMECHANICS

- Fabrication and assembling of piping for steam electric power stations





# METALOMECHANICS

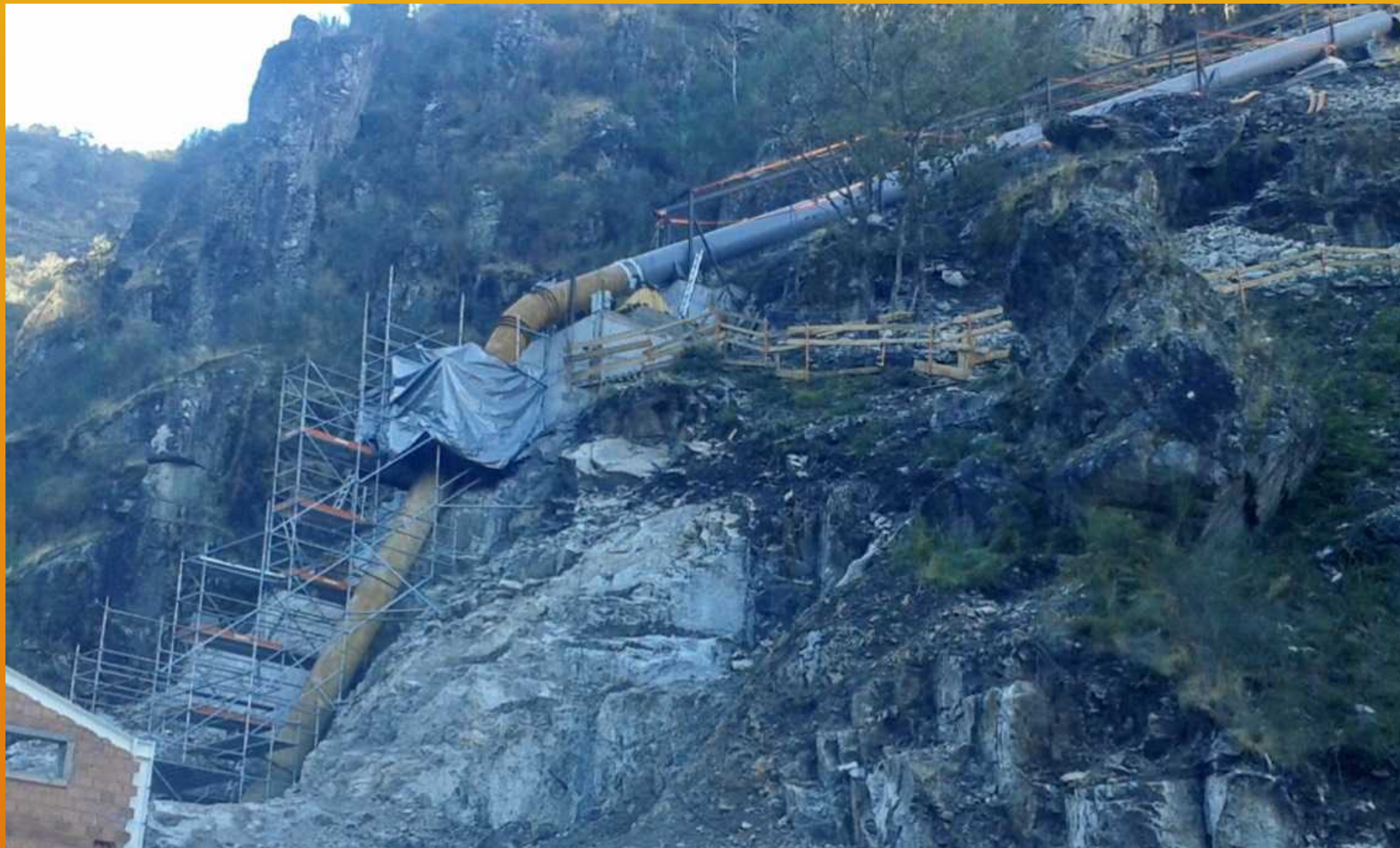
- Fabrication and assembling of forced carbon steel piping





# METALOMECHANICS

- Fabrication and assembling of forced carbon steel piping





# METALOMECHANICS

- Assembling and alignment of pumps and other equipments





# METALOMECHANICS

- Assembling and alignment of pumps and other equipments





# METALOMECHANICS

- Fabrication, anticorrosion protection and erection of river dam stop log for Macarretane - Mozambique at Limpopo River - Dimensions 14 m x 3,50 m





# METALOMECHANICS

- Fabrication and assembling of support structure for roof cover at Cimpor Matola - Mozambique





# METALOMECHANICS

- Fabrication and assembling of metallic structures and industrial equipments (Columns, filters, compressors, heat exchangers)





# METALOMECHANICS

- Fabrication and assembling of metallic structures for the Petrochemical Industry





# METALOMECHANICS

- Fabrication and assembling of metallic structures for the Petrochemical Industry





# METALOMECHANICS

- Fabrication and assembling of metallic structures for the Petrochemical Industry





# METALOMECHANICS

- Fabrication and assembling of metallic structures for Naval Industry





- Assembling of heavy equipments





- Assembling of heavy equipments





# METALOMECHANICS

- Pre-fabrication and assembly of piping for the Petrochemical Industry





- Metallic equipments fabrication





- Metallic equipments fabrication





# METALOMECHANICS

- Hydromechanical equipments fabrication, assembly and maintenance.





# METALOMECHANICS

- Fabrication and assembling of metallic structures





# METALOMECHANICS

- Replacement and/or application of rivets on metallic structures





# MAIN ACTIVITIES

## ANTICORROSION PROTECTION FOR INDUSTRY AND CIVIL WORKS

The Company was born on this field of activity and develop it to the point of being one of the best of the business. PROZINCO can supply services of anticorrosion protection for all kinds of surfaces and using all kinds of products, among which:

- Anticorrosion protection of metallic structures in our facilities or on site (new or repair)
- Anticorrosion Protection of pipings in our facilities or on site (new or repair)
- Anticorrosion Protection of bridges and viaducts of steel or concrete (new or repair)
- Anticorrosion Protection of new or used industrial equipments.
- Anticorrosion Protection of posts and masts of high tension lines



## MAIN ACTIVITIES

- Anticorrosion Protection of eolian towers and maintenance of eolian towers on the production parks.
- Anticorrosion protection of Chemical Industry and Petrochemical Industry with certified personnel (Safety Passport)
- The company is actual contractor for anticorrosion Protection at Oporto Refinery since 2002 and the Civil Works contractor since 2009
- Anticorrosion Protection of Concrete Industry with certified personnel (Safety Passport)
- Anticorrosion Protection of river dams and electrical production facilities with certified personnel (Safety Passport)
- Anticorrosion Protection of ships, including the treatment of ballast tanks
- Anticorrosion Protection of inside and outside surfaces of reservoirs made of concrete or steel
- Application of epoxy resins and fiber glass on the bottom of reservoirs to avoid leakage
- Recovery of corroded or eroded steel by application of very hard resins like Belzona or Chesterton
- Application of special paints for water storage tanks



# ANTICORROSION PROTECTION

- Anticorrosion protection of forced piping





# ANTICORROSION PROTECTION

- Anticorrosion protection of concrete or steel bridges and viaducts





# ANTICORROSION PROTECTION

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- Anticorrosion protection of concrete or steel bridges and viaducts





# ANTICORROSION PROTECTION

- Anticorrosion protection of concrete or steel bridges and viaducts with special equipment to avoid debris projection





# ANTICORROSION PROTECTION

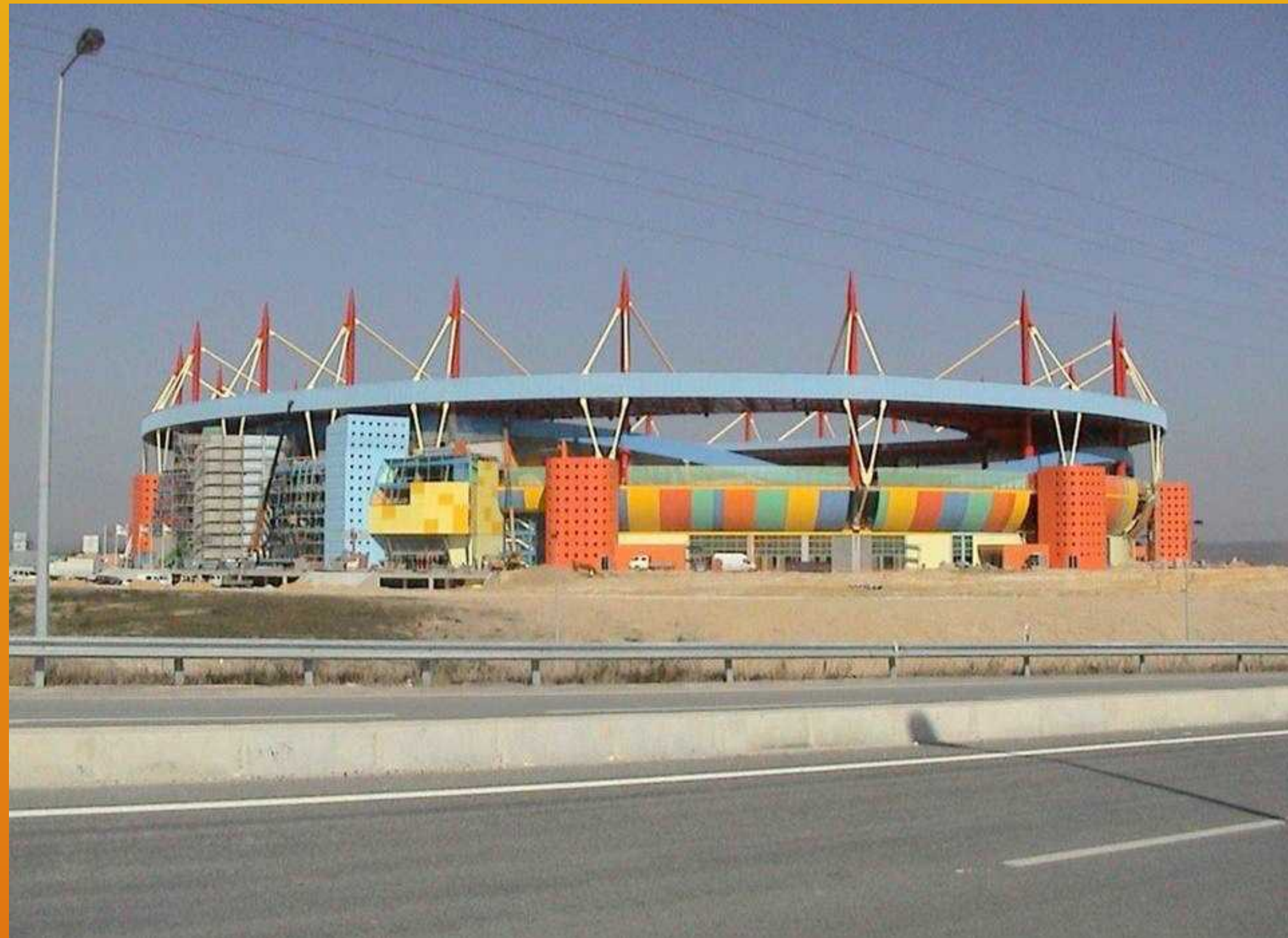
- Concrete repair including steel recovery or replacement





# ANTICORROSION PROTECTION

- Anticorrosion protection of inside and outside surfaces of buildings





# ANTICORROSION PROTECTION

- Anticorrosion protection and maintenance of aeolian towers





# ANTICORROSION PROTECTION

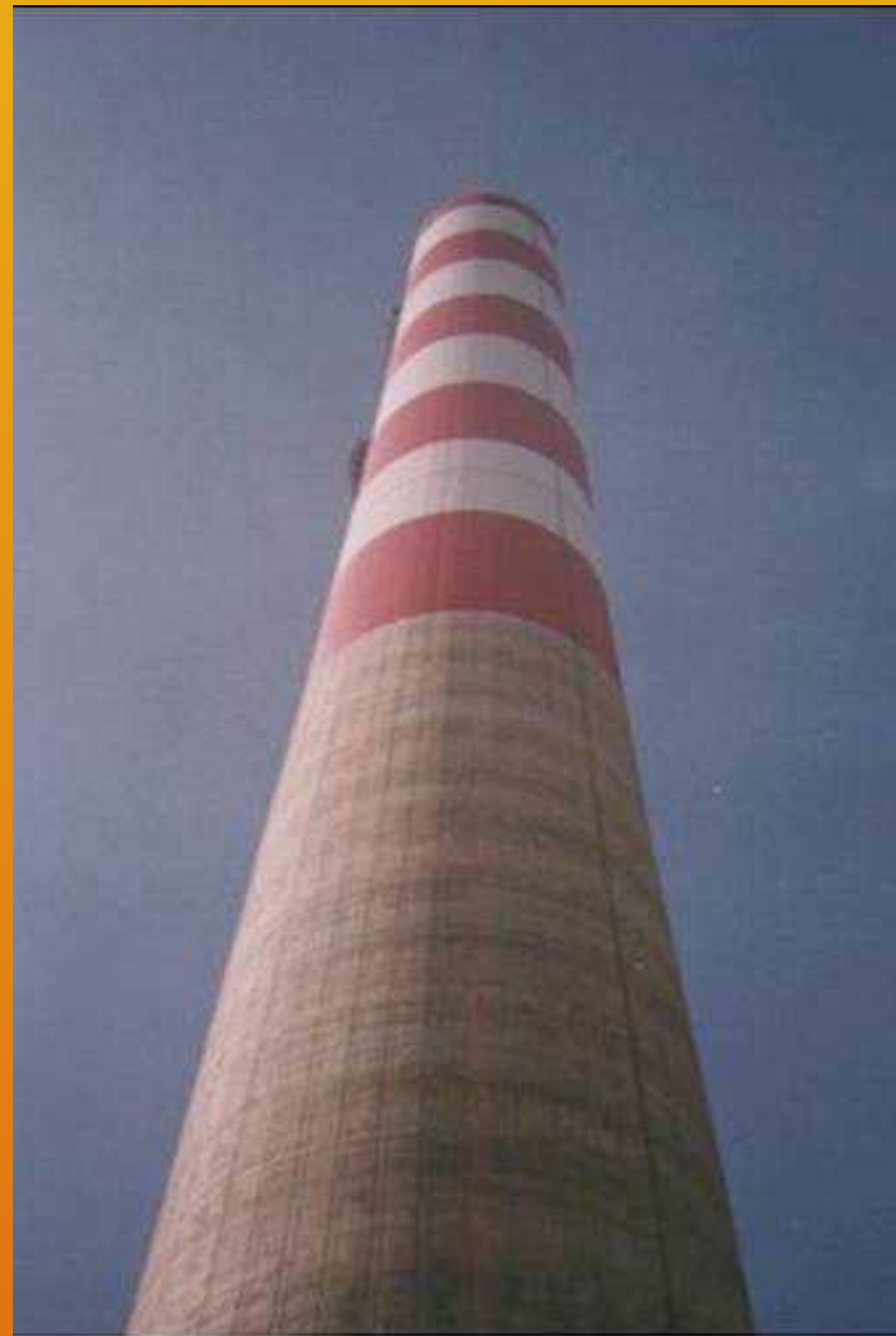
- Anticorrosion protection of posts and masts of electrical power lines





# ANTICORROSION PROTECTION

- Anticorrosion protection of facilities and equipment of the Chemical and Petrochemical Industry





# ANTICORROSION PROTECTION

- Anticorrosion protection of metallic structures, piping and equipment





# ANTICORROSION PROTECTION

- Anticorrosion protection of facilities and equipment of the Chemical and Petrochemical Industry





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# ANTICORROSION PROTECTION

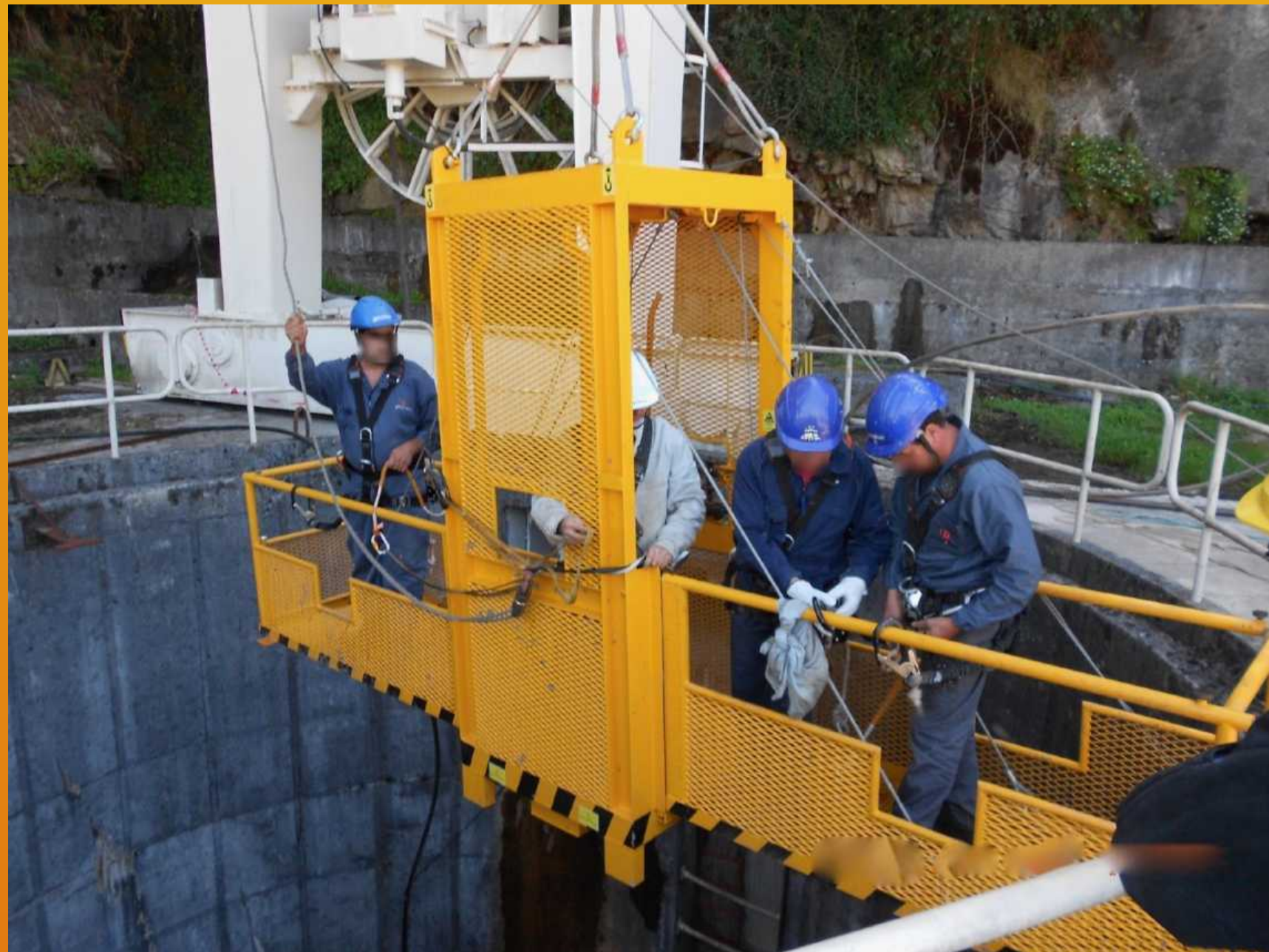
- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

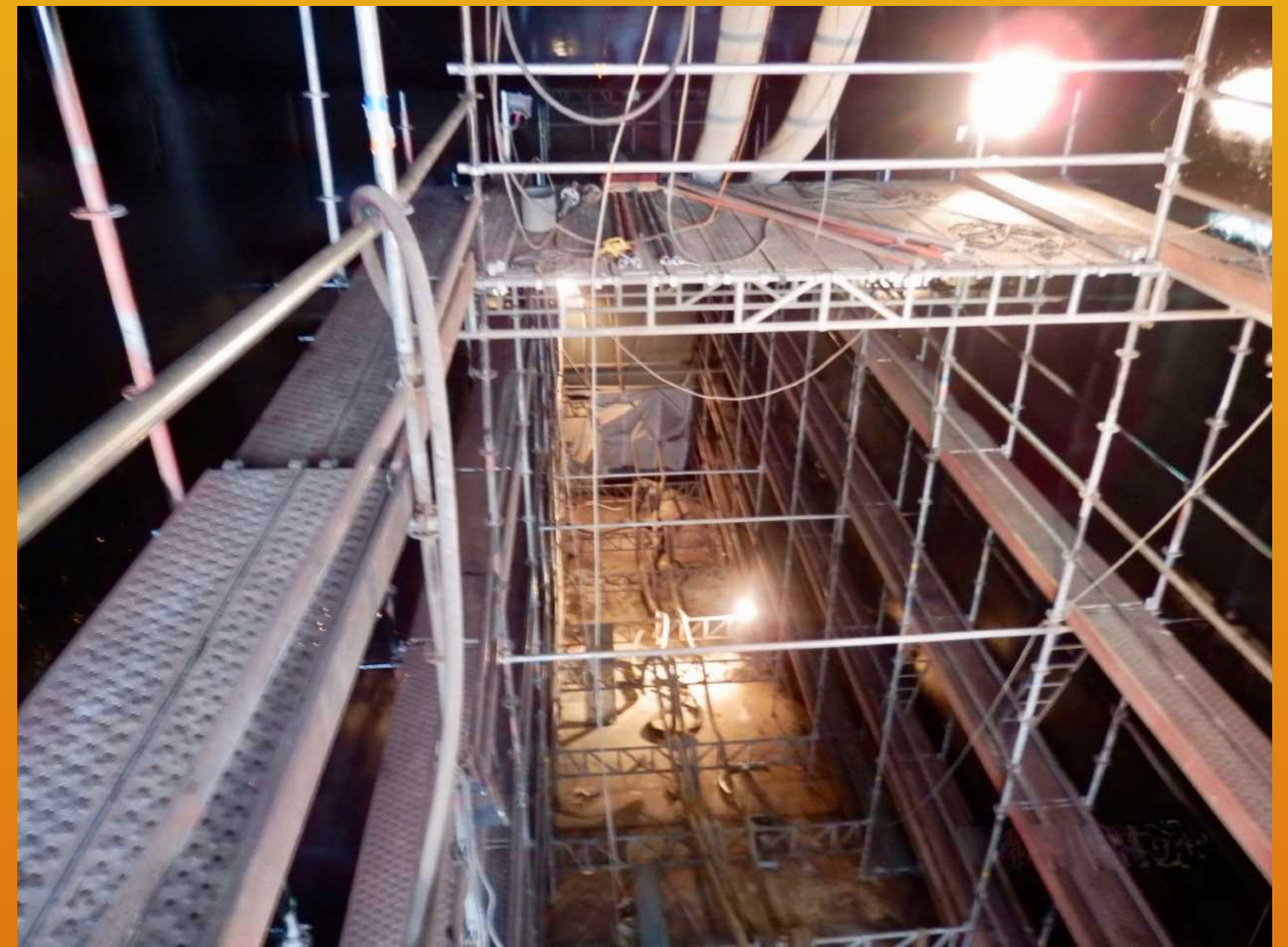
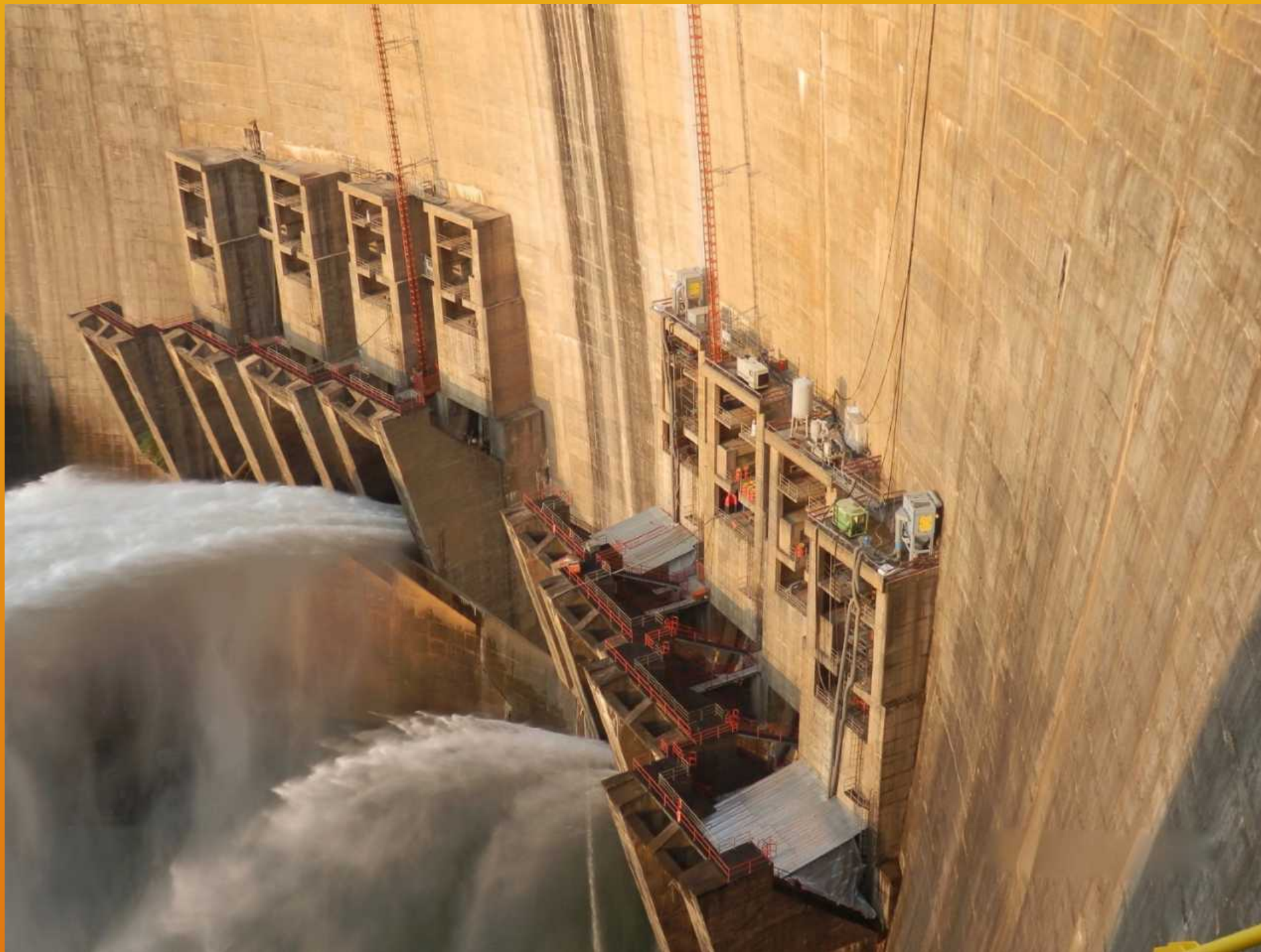
- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment - Cahora Bassa





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment - Macarretane River Dam





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Hydromechanical facilities and equipment





# ANTICORROSION PROTECTION

- Recovery of internal surfaces of Drink Water Reservoirs





# ANTICORROSION PROTECTION

- Recovery of corroded or eroded steel by application of very hard resins like Belzona or Chesterton





# ANTICORROSION PROTECTION

- Anticorrosion Protection of Ships including ballast tanks





# MAIN ACTIVITIES

## CIVIL WORKS

The Company has a Civil Works Department capable of perform projects for Industry and Home/Services buildings. Among others there are:

- Erection of new buildings and reinforced concrete structures
- Refurbishment of existing buildings
- Erection of retention basins
- Erection of foundations for columns or other equipments
- Opening and closing of ditches for underground infrastructures
- Concrete recovery including rebar replacement or treatment



# CIVIL WORKS

- Erection of concrete foundations and concrete buildings





# CIVIL WORKS

- Erection of foundations for columns or other equipments





# CIVIL WORKS

- Erection of retention basins





# CIVIL WORKS

- Concrete repair





# CIVIL WORKS

- Erection of buildings





# CIVIL WORKS

- Erection of buildings





# CIVIL WORKS

- Erection of buildings





# CIVIL WORKS

- Erection of buildings





# MAIN ACTIVITIES

## WIND TOWERS SERVICE AND MAINTENANCE

The Company has a specialised Sub-Department under Anticorrosion Protection Department to service, paint and repair Wind Towers namely:

- Anticorrosion protection of Wind Towers in paint shop
- Anticorrosion protection repair and touch-up of Wind Towers on site
- Steel and bolts repairs on site
- Glass fibre repair on site



# WIND TOWERS SERVICE AND MAINTENANCE

- Anticorrosion protection of Wind Towers in paint shop - 1468 complete towers since 1996





# WIND TOWERS SERVICE AND MAINTENANCE

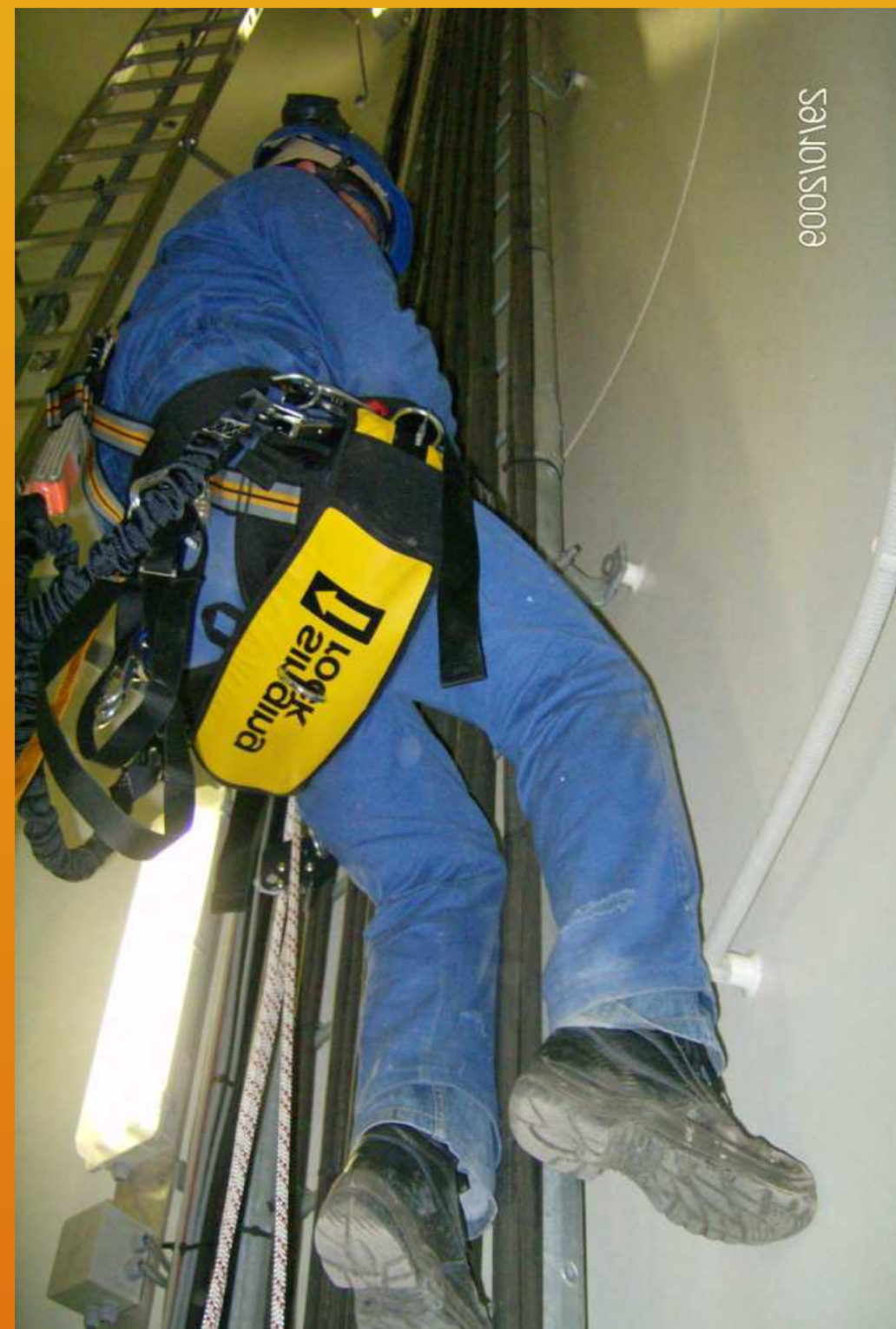
- Touch-up and cleaning of Wind Towers on site - 524 towers since 2006





# WIND TOWERS SERVICE AND MAINTENANCE

- Field repair and anticorrosion protection Repairs on site - 639 towers since 2008





# WIND TOWERS SERVICE AND MAINTENANCE

- Cleaning & Repair Works in Fiber Glass- Rotor Blades - 45 Towers since 2015





# WIND TOWERS SERVICE AND MAINTENANCE

- Assembly of internal components - 1700 towers since 2001

