

**Building the world, better**



**EPF**

**ENGINEERING PVT. LTD.**

# we are TPF Engineering Private Limited

We are TPF Engineering Pvt. Ltd., a civil engineering consultancy firm, specializing in infrastructure design and consultancy for over the last 55 years.

We provide sustainable infrastructure advisory services to our clients and aim to be the best engineering consultant in the market and be recognized by our clients as the same.

TPF Engineering Pvt. Ltd. is a subsidiary of TPF S.A., a Belgian multi-national organization having over 4000 collaborators operating in over 44 countries around the world.

Headquartered at Navi Mumbai, India

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Specialized in the fields of roads & highways, bridges, buildings, water and environment

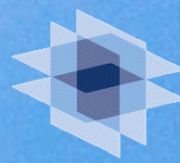
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450+ employees

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Delivering quality services to clients for 55+ years

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TPF

Certified under ISO  
9001:2015

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Member of TPF group

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Engaged in 15+ states

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Present in over 44 countries  
around the world

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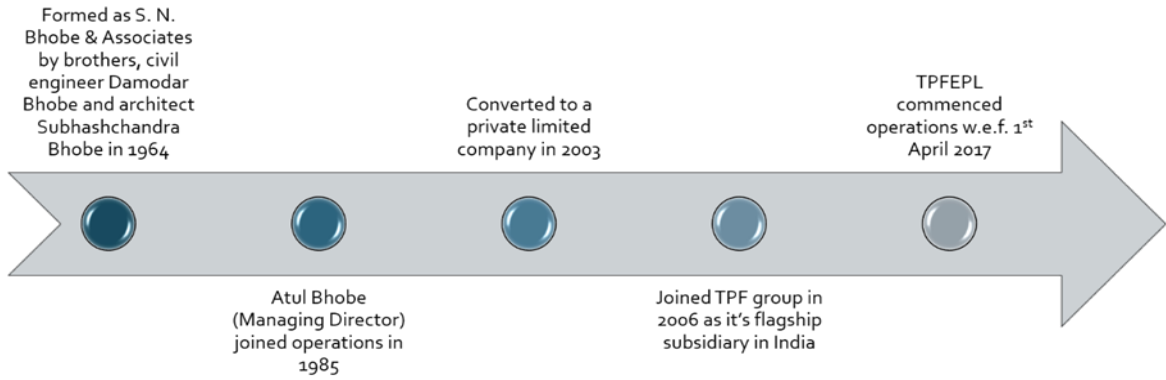
Completed more than 400  
projects

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TPF SA recognized at #48 by  
ENR rankings in 2019 under  
'Top 225 international Design  
Firms' category

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# Our history



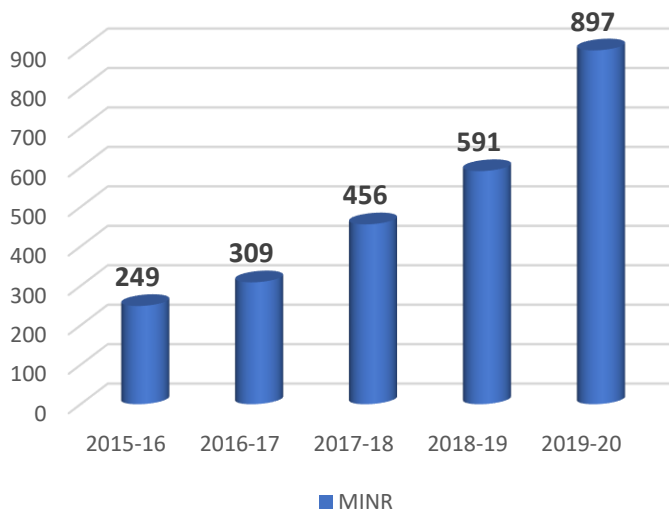
## Company Details

Corporate Identification No. : U74999MH2015FTC269228      PAN : AAFCT5080K  
Udyog Aadhar No. : MH33E0158100      GST : 27AAFCT5080K1ZZ

**OUR MISSION is to...**  
Be the best in Engineering Consultancy

**OUR VISION is to...**  
Be recognized by our customers as their best consultant

## Annual Turnover



# Some of our esteemed clients...



Building the world, better

# Association with TPF Group

TPF S.A. was formed in 1991 and today, is one of the fastest growing engineering, architecture, and management consultancies in Europe. The group is **headquartered at Brussels, Belgium** and through sub-holding companies in Spain and Portugal, **is established in 44 countries and active in 60, with more than 4000 collaborators** delivering engineering solutions to our clients. In 2019, the group achieved a turnover of 253 Million Euros. In 2019, the group was ranked #48 by ENR as one of the top 225 international design firms.

Over the years, the group has successively expanded in Europe, Asia, Africa and America through a series of acquisitions and today TPF is globally known for its activities in the following sectors:

- building,
- transport infrastructure,
- water, environment and energy

In addition to this, TPF has also developed six other related trades:

- implementation of turnkey projects,
- operation and maintenance of technical installations in the energy and water sectors
- development, implementation and investment in projects in the renewable energy sector, associated to the management of dedicated investment funds where appropriate,
- quality control of materials and construction works,
- equity participation in motorway concessions,
- property development.

# Global Presence

Asia	Africa	America	Europe
<ul style="list-style-type: none"><li>•Azerbaijan</li><li>•Bangladesh</li><li>•China</li><li>•East Timor</li><li>•Georgia</li><li>•India</li><li>•Philippines</li><li>•Saudi Arabia</li><li>•Turkey</li><li>•United Arab Emirates</li><li>•Vietnam</li></ul>	<ul style="list-style-type: none"><li>•Algeria</li><li>•Angola</li><li>•Cameroon</li><li>•Egypt</li><li>•Equatorial Guinea</li><li>•Ivory Coast</li><li>•Morocco</li><li>•Mozambique</li><li>•Senegal</li><li>•Tunisia</li></ul>	<ul style="list-style-type: none"><li>•Argentina</li><li>•Bolivia</li><li>•Brazil</li><li>•Chile</li><li>•Colombia</li><li>•Costa Rica</li><li>•Ecuador</li><li>•El Salvador</li><li>•Guatemala</li><li>•Honduras</li><li>•Mexico</li><li>•Nicaragua</li><li>•Panama</li><li>•Peru</li><li>•United States</li><li>•Venezuela</li></ul>	<ul style="list-style-type: none"><li>•Belgium</li><li>•France</li><li>•Grand Duchy of Luxembourg</li><li>•Greece</li><li>•Poland</li><li>•Portugal</li><li>•Romania</li><li>•Spain</li><li>•Ukraine</li></ul>



4000+ collaborators



Established in 44 countries



Active in 60 countries

## Centres of Expertise

TPF has 3 global offices that contribute towards pre-defined infrastructure advisory services by centralizing knowledge and data.



BUILDINGS  
France

TRANSPORT  
INFRASTRUCTURE

Spain



WATER-ENVIRONMENT-  
ENERGY  
Portugal



# Services Offered

TPFEPL believes in providing on-time and top-notch quality services to its clients and delivers end to end value engineered solutions from the time of project conceptualization to the operation and maintenance of the project.

<b>Idea generation and project conceptualization</b>	Bid preparation	
	Quantity Estimation	
	Tendering	
<b>Planning and feasibility studies</b>	Feasibility & Detailed Project Report	
	Town planning & urban management	Traffic studies
		Land acquisition proposals
		Structural conservation, restoration and development
<b>Detailed design consultancy</b>	Structural design and review	
	Geometric design	
	Detailed execution drawings	
<b>Execution and supervision through project management consultancy</b>	Independent Engineer	
	Authority's Engineer	
	Lender's Engineer	
	Quality and safety audit	
<b>Operation &amp; maintenance</b>	Bridge and road inventory management and analysis	
	Environmental Impact Assessment and health monitoring	
	Public Health and Waste Disposal Management	



# Sectors



**Bridges & Flyovers**



**Skywalks**



**Buildings**



**Roads & Highways**



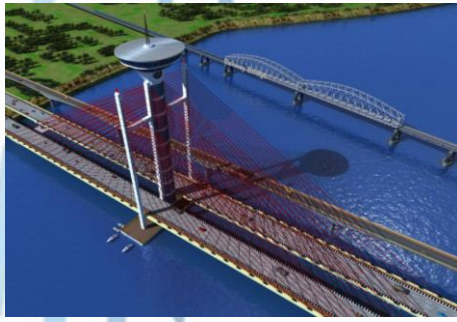
**Railways**



**Water, Environment  
& Energy**

# SIGNATURE PROJECTS

1



2



1. Zuari cable-stay bridge, Goa – India's third longest cable-stay bridge (on-going work)
2. Mobile Bridge Inspection Unit – used to conduct bridge inventory at Kerala
3. Mandovi cable-stay bridge, Goa – the third longest cable-stay bridge in India
4. M. G. Setu bridge, Patna – the third longest river bridge in India (on-going work)
5. Dholasadiya bridge over river Brahmaputra, Assam – India's longest bridge
6. Pawana basket handle bridge, Pune - First basket-handle bridge in India
7. Bandra (East) skywalk, Mumbai – the first skywalk in Mumbai
8. Network Survey Vehicle mounted with lasers used to detect road and pavement conditions for clients across the country.



3

4

5

6

7

8

# WATER - INDIA



**Sewage Treatment Plant, Airoli, Navi Mumbai**




**Sewage Treatment Plant, Indore**



**Sewage Treatment Plant, Nerul, Navi Mumbai**



**Sewage Treatment Plant, Vashi, Navi Mumbai**

- 
- River Engineering
  - Urban Water Systems
  - Irrigation Systems
  - Maritime & River Transport

# WATER - GLOBAL

# WATER - GLOBAL

- Water Resources Management
- Dams and Flood Prevention
- Dams and Hydropower
- River Engineering

River  
Engineering

- Water Supply:
  - Network Design
  - Network Modelling
  - Nonrevenue water control
  - Water Leakage Detection
  - Reservoir
  - Pumping Stations
- Treated Wastewater Reuse:
  - Network Design and modelling
  - Wastewater Treatment for Reuse
- Water Treatment Plants
- Wastewater Drainage:
  - Network Design
  - Network Modelling
  - Stormwater control
  - Pumping Stations
- Wastewater Treatment Plants
- Stormwater Drainage:
  - Network Design
  - Network Modelling
  - Pumping Stations

Urban  
Water  
Systems

- Canals
- Tunnels
- Reservoir
- Pumping Stations

Irrigation  
Systems

- River transportations channels
- Ports and harbours

Maritime &  
River  
Transports

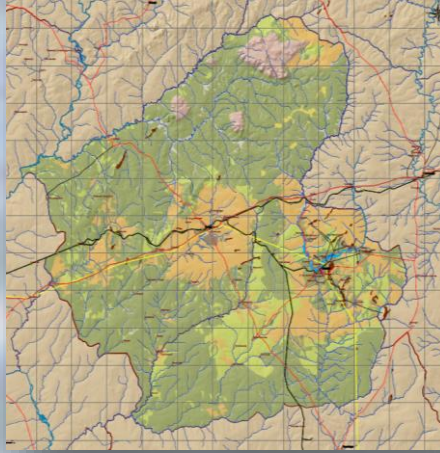
# River Engineering

## Angola

### Rural Land Use Plan

Communes of Jamba and Dongo,  
Municipality of Jamba,  
Huíla Province

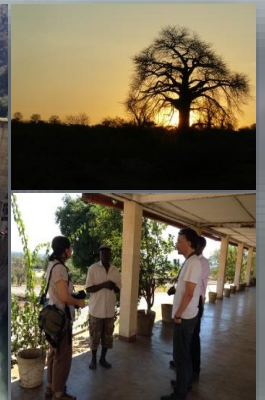
Area = 7429 sq. kms.  
Population = 160,970  
inhabitants



## Mozambique

### Land Use Planning for the Zambezi Valley

Land Use Planning and Socio-  
Environmental Studies  
Area = 147,900 sq. kms.



## Angola

### Chicapa and Luó Rivers Diversion

Preliminary & Detailed Design &  
Technical Assistance

Maximum Flow = 1700  
 $m^3/s$

Deviation length = 2700 m

Bottom Width = 20 m

Depth = 10 m



# River Engineering

Before

After

## Mozambique

### Rehabilitation of the Storm Water Drainage System in the Beira City

Rehabilitation and reinforcement of 17 km primary canals and of the main discharge control structure  
Construction of several flood control structures and one retention basin with the capacity of 170,000 m<sup>3</sup>

## Portugal

### Alto Tâmega Dam

Preliminary and Detailed Design and Technical Assistance

Basin Area = 1557 sq. kms.

Reservoir Capacity = 131.7 hm<sup>3</sup>

Dam Type = double curvature arch

Dam dimensions:

1. Maximum height = 104.5 m
2. Crest length = 332 m

## Spain

### Ibiur Dam Water Supply and Flow Regulation of Oria River

Management and Works Supervision

Basin Area = 11.99 sq. kms.

Reservoir Capacity = 7.53 hm<sup>3</sup>

Dam Type = concrete gravity

Dam total volume = 176,049 m<sup>3</sup>

Dam dimensions:

1. Maximum height = 63 m
2. Crest length = 232 m

# Urban Water Systems – Water Supply/Treatment

## Portugal

### Enxoé Subsystem Detailed Design

Studies and Design – Preliminary and Detailed Design and Technical Assistance

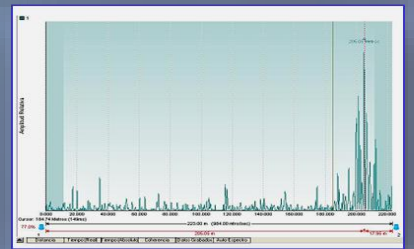


## Saudi Arabia

### Water leaks detection (Riyadh)

Water Leak detection and DMA verification

Population Served > 1,000,000 inhabitants, Water Network Extension Surveyed > 3000 km



## Spain

### Water Supply Master Plans

Master Plans

Population Served in 6 Municipalities in Madrid Region = 250,000 inhabitants, Hydraulic models Extension = 345 km



## Portugal

### Enxoé Subsystem Water Treatment Plant

Preliminary and Detailed Designs

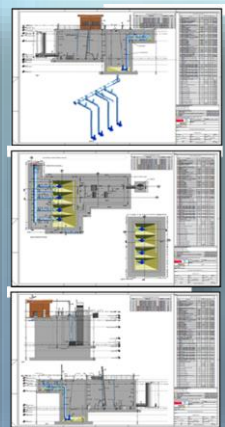
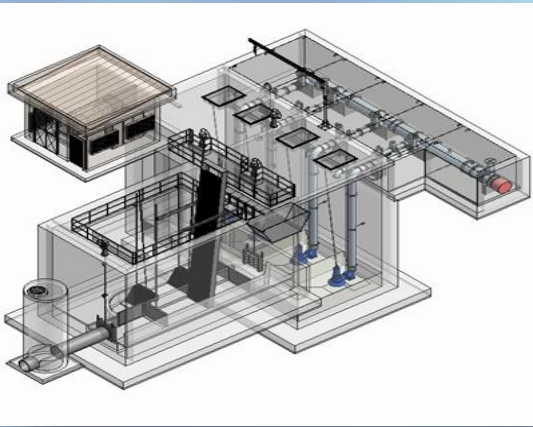
Population Served = 70,600 inhabitants

Maximum Flow = 813 m<sup>3</sup>/h





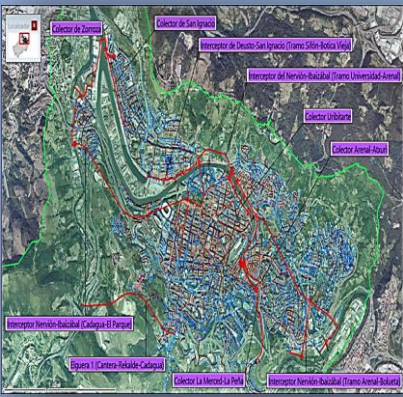
# Urban Water Systems – Waste Water Treatment/Network



## Brazil

### Camaragibe Sewage System

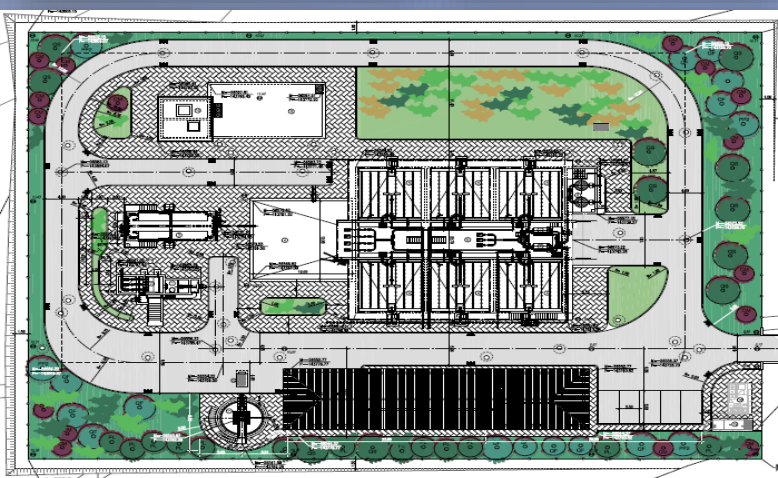
Basic and Detailed Design  
 Population Served = 382,492 inhabitants  
 Area = 42 sq.kms.  
 Project Flow = 1046 L/s  
 Collector Network Extension = 380 km



## Spain

### 3D Live Mathematical Model for sanitation and storm water networks. Bilbao

Hydraulic Model  
 Population Served = 850,000 inhabitants  
 Sanitation and storm water networks  
 Extension = 560 km  
 Software ICM Live (Innovize)



## Portugal

### Herdade da Comporta Wastewater Treatment Plant - ADT2

Preliminary, Basic and Detailed Design  
 Population Served = 7500 inhabitants  
 Flow rate = 2580 m<sup>3</sup>/day



## Spain

### Novelda and Monforte del Cid WWTP - Alicante

Technical Assistance and Supervision of WWTP, with Pretreatment, Primary Decanter, Biological Reactor, Secondary Decanter, Tertiary Treatment; Sludge line-gravity thickener, flotation thickener, Anaerobic Digester and Centrifuge Decanter  
 Population served = 88500 inhabitants  
 Flow rate = 9000 m<sup>3</sup>/day

# Irrigation Systems

## Brazil

### Pontal Irrigation Program

Supervision

Equipped Area = 7717 ha

Pumping Station Flow, = 7.80 m<sup>3</sup>/s



## Mexico

### Michoacán (Lázaro Cárdenas) Irrigation Project

Studies and Design

Equipped Area = 12,000 ha



## Portugal

### Irrigation Schemes

Rehabilitation = 45,900 ha

New Schemes = 22,100 ha

EDIA = 59,400 ha

TOTAL = 127,400 ha



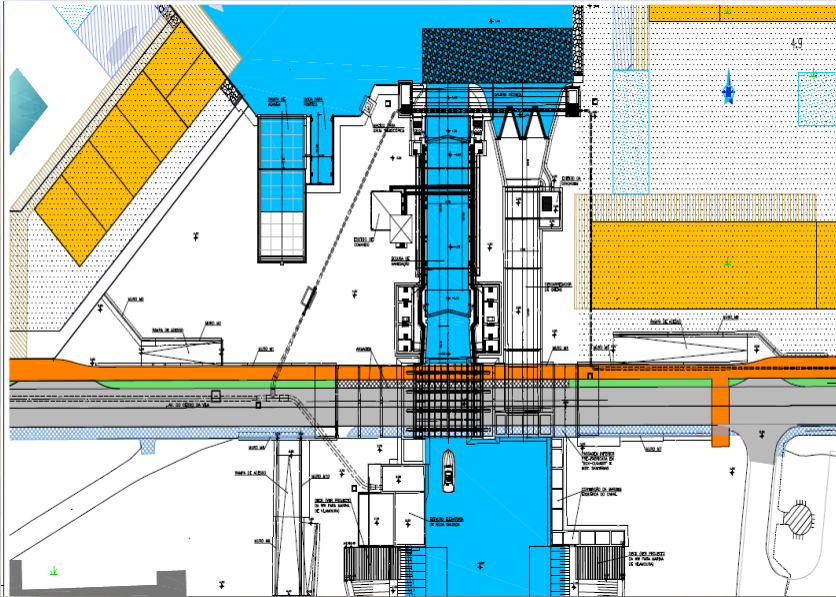
## Spain

### Upgrade Works in the Irrigable Land of the Bajo Guadalquivir

Technical Assistance



# Maritime & River Transport



## Portugal

### Navigation Lock for Cidade Lacustre de Vilamoura XXI

Navigation lock, class III, is 27 m long by 9.7 m wide and operates with a maximum hydraulic difference of 5 m. The dimensioning was made for class C boats (lengths between 10 and 12 m).



## Brazil

### Navigability Studies of the Rivers Capibaribe and Beberibe

Detailed Design

Total Volume to Be Dredged =  
859,214 m<sup>3</sup>

Equipped Area = 3070 sq. m.

Daily Users = 1728



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