

MASTER PLAN OF FLOOD CONTROL IN ATTICA DISTRICT REGIONS (BASIC ELEMENTS AND PROPOSALS FOR ACTUALISATION)

Country

GREECE

Location

City of Athens

Client

Ministry of
Environment,
Planning and
Public Works.
Hydraulic Works
Service

Financing

National Funds

Services of ENB

160,000 EUR

Project Duration

02/2003-02/2004

Associated Firms

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Project Description

The object of the Project was to establish the necessary elements and proposals for flood control design actualisation in the following 3 regions of Attica District (4,500,000 inhabitants approx, 120 Km main streams, 2,500 Km designed stormwater drainage networks, of which, 750 km constructed):

- 1st Region: Basin of the greater city of Athens, capital of Greece (area of 565 km² approx.)
- 2nd Region: East Attica (area of 703 km² approx.)
- 3rd Region: West Attica (area of 476 km² approx.)

For each region, scope of the project was to obtain:

- Clear and completed view of the existing situation and problems referring to flood control
- Proposals for new complimentary works and interventions required for satisfactory flood control
- Schedules and priorities for flood control studies and works according technical, economic, social, and environmental criteria

The Project comprises:

- Recording and evaluation of the existing flood control and storm water drainage studies, works and problems in the greater city of Athens, East and West Attica regions along with the existing infrastructure
- Proposals for new flood control studies and works for the project area:
 - 1st Region: 30 new studies (total cost of 11 M €) and 36 new works (total cost of 414 M €)
 - 2nd Region: 21 new studies (total cost of 6.7 M €) and 23 new works (total cost of 286 M €)
 - 3rd Region: 15 new studies (total cost of 3.5 M €) and 15 new works (total cost of 96 M €)
- Proposals for the improvement of the existing flood control system (monitoring and regulation of torrents and streams, storm water retaining structures, measurements and flow meters - total cost of 38 M €)
- Proposals for the management and maintenance strategy of the existing flood control system
- Proposals for the institutional strengthening of the client referring to personnel training, new equipment, data managing with new databases and G.I.S and implementation of a quality assurance system according to ISO: 9000 International Standards (total cost of 0.8 M €)
- Proposals to reduce storm water flows with institutional norms, rationalised basin management procedures and required infrastructure works.

Services

- Recording and evaluation of the existing flood control and storm water drainage infrastructure and studies. Evaluation of flood control problems and interfaces between existing works in the project area.
- Proposals for the hydraulic design criteria rationalisation, including update hydrology studies.
- Proposals for the installation of rain gauges and flow meters and for the management of the obtained measurements.
- Evaluation of the existing structure (human resources, equipment, data formatting system) of the client's organization.
- Proposals for new flood control and storm water drainage infrastructure required after Setting of technical, economic, social and environmental criteria to establish priorities.
- Proposals for institutional strengthening of the client's organization referring to equipment, personnel training, data management (database, G.I.S.) and implementation of a quality assurance system.