



**RECOGNITION OF NEEDS AND CREATION OF PROFESSIONAL TRAINING IN THE AREA OF
PREPARATION AND MANAGEMENT OF INFRASTRUCTURE CONSTRUCTION PROJECTS
FINANCED BY THE EUROPEAN UNION**

No: PL/04/B/P/PP/174 417

**REPORT
Work Package III**

November 2005
(Draft Version)

1. INTRODUCTION

This report aims at disseminating the results of Work Package III (WPIII) of the Leonardo da Vinci project entitled: “Recognition of needs and creation of professional training in the area of preparation and management of infrastructure construction projects financed by the European Union”, n° PL/04/B/P/PP/-174 417, by the following project partners involved:

- WUT - Warsaw University of Technology (Poland)
- PBCP – Polish British Construction Partnership (Poland)
- SIDIR – Polish Association of Consulting Engineers and Experts (Poland)
- UMINHO – University of Minho (Portugal)
- VGTU – Vilnius Gediminas Technical University (Lithuania)
- PUV – Polytechnic University of Valencia (Spain)

The purpose of WP III is to describe the procedures in construction management in Poland, Portugal, Lithuania and Spain; this way, a common understanding of managerial and legal procedures in partners countries (Poland, Portugal, Lithuania and Spain) could be reached, facilitating operations of construction companies at the foreign markets. These results, among other work package results, will aid in the development of a series of future CPD (Continuing Professional Development) courses in management of infrastructure projects, as well as the creation of an internet platform.

The intent is to push forward another tool that may assist engineers and managers in solving common problems. Subsequently, know-how can be improved, enhancing the project’s performance and in turn diminishing reasons for claims and disputes that frequently arise in the construction industry due to lack of quality, cost overruns, delays, etc.

2. RESULTS

A double entrance table (or matrix) was developed in our previous meeting (Vilnius, July 2005). In rows, managerial procedures used in construction industry were summarised. In columns, the main stakeholders that take part in the infrastructure life cycle were displayed: promoter, consultant and contractor.

It was considered the infrastructure life cycle as a whole, with the five major phases commonly used: conceptual, design, pre-construction (or tendering), construction and handing over. The operational phase, though being a very important phase of the infrastructure life cycle, was not considered due to its many possibilities (for each country and for each type of

infrastructure). Each phase was divided in stages, and each stage in steps, thus the managerial procedures were detailed enough.

These steps, stages and phases are based on the experience of the partners; the infrastructure construction projects financed by the European Union are managed through public agencies. More common procedures (based on the PMBoK published by the Project Management Institute) were not considered because we think that they are better fit for private promoters. Besides, many project management books are very often biased to other industries that are not construction.

For infrastructure projects, the sequence Plan-Bid-Design-Bid-Build is used most of the time:

- a) The Public Agency plans the project.
- b) The Public Agency bids a contract for design: a Consulting Engineering & Architectural Company is chosen for the job.
- c) This Consulting Engineering & Architectural Company designs the project with the supervision of the Public Agency.
- d) The Public Agency bids a contract for construction: a Construction Company is chosen for the job.
- e) The Public Agency bids a contract for direction (or inspection) of the construction works: a Consulting Engineering & Architectural Company is chosen for the job. This company is not generally the same as in (b) and (c).
- f) The Construction Company builds the infrastructure with the supervision of the Consulting Engineering & Architectural Company.
- g) The Public Agency takes over.
- h) The Public Agency operates and maintains the built infrastructure.

Regarding the main participants or stakeholders, the names in capital letters are the ones proposed. The others are alternative names that could fit better in some countries or in some circumstances. Finally, the names in black letters are the organizations involved):

- CLIENT (Promoter - Owner – Developer - Employer; **Public Agency**).
- CONSULTANT (Engineer – Designer – Director, Inspector or Supervisor of Works - Project Manager; **Consulting Engineering & Architectural Company**).
- CONTRACTOR (**Construction Company**)

The consultant is the design team in the design phase, and the director, inspector or supervisor of works in the construction phase. Many times they would be different persons and even different consulting engineering companies because of the sequence of procurement (Plan-

Bid-Design-Bid-Build), and because it is almost impossible for a public agency to hire legally a project manager for all the process.

Finally, the most important legal regulations connected with preparation and management of international infrastructure projects, for each country and for the European Union globally, were considered. The legal regulations that affect each stakeholder for each one of the steps, were input in its corresponding cell of the matrix.

The normative considered was divided in five groups; for each norm, an acronym was selected. The groups are the following:

- a) Procedures for **tendering and contracting** (in **BLUE**).
- b) Procedures for **safety and health in construction** (in **RED**).
- c) Procedures for **environmental impact assessment** (in **GREEN**).
- d) Procedures for **civil engineering and building infrastructures** (in **BLACK**).
- e) Procedures of the **European Union** were used as general reference in tendering and contracting, and safety and health (in **ORANGE**):
 - EU018: Directive on the coordination of procedures for the award of public works contracts, public supply contracts and public service contracts (2004/18/EC).
 - EU391: Directive on the introduction of measures to encourage improvements in the safety and health of workers at work (1989/391 CEE).
 - EU383: Directive supplementing the measures to encourage improvements in the safety and health at work of workers with a fixed duration employment relationship or a temporary employment relationship (1991/383 CEE).
 - EU057: Directive on the implementation of minimum safety and health requirements at temporary or mobile construction sites (1992/57 CEE).
 - EU085: Directive on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding (1992/85 CEE).
 - EU033: Directive on the protection of young people at work (1994/33 CEE).

For each country, a double entrance table was filled in, according to the previous considerations. The four of them are displayed in the annexes. Right now only the spanish table has included the European Union Procedures in it.

Valencia, 14th of November, 2005

Eugenio Pellicer

ANNEX 1: POLISH PROCEDURES

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project
MAIN LEGAL REGULATIONS			

CODIFICATION	STAGES of the PROJECT
--------------	-----------------------

1		CONCEPTUAL PHASE
	1	Initiation of the project
	1	Analysis of needs
	2	Constraints identification
	3	Conception of the project

<p>ASPD, Chap. 1, art. 6 - general provisions; local spatial development plans;</p> <p>Chap. 3 - spatial planning in a province;</p> <p>GCL, Chap. 2 - land and property rights; Chap. 3 - concessions</p> <p>APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments</p> <p>POL, art. 99-117 - contests (spatial planning, urban planning, architecture);</p> <p>MA, art. 21-25 - location; art. 26-37 - land acquire,</p> <p>RCA, art. 2-11 - roads location; art. 12-23 - land acquire 24-33 - investment realization</p> <p>MA, art. 38-39 - National Roads Fund,</p> <p>RCA, attachments 1 and 2 - environmental reports;</p> <p>Resolution on the Protected Zone "Natura 2000".</p> <p>APN, art. 6 - forms of the protection of nature; art. 10 - limits of a national park; art. 15 - restrictions on activities in national parks; art. 17 - bans on activities in landscape parks; art. 23 - designation of a protected landscape zone; art. 24 - bans on activities in protected landscape zones; art. 28 - designation of the Zone "Natura 2000"; art. 33 - bans on activities in the Zone "Natura 2000"; art. 83 - removal of trees and bushes; arts. 84, 85 - fees for the removal of trees and bushes;</p> <p>APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments</p> <p>EPL, art. 40 - proceedings concerning the impact on the environment of the consequences of the country's spatial development plans and regional development strategies; art. 46 - proceedings concerning the impact on the environment of planned investments; art. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment; art. 71, 72, 73, 74, 75, 76 - environment protection in spatial development and during the execution of investments; art. 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282 - financial and legal means for environment protection; art. 284, 285, 287, 290, 291, 298 - fees for the use of the environment; art. 309, 313 - amount of penalties; art. 316, 317, 318, 319, 320, 321 - deferment, reduction and annulment of the increased fee for the use of the environment and of administrative penalties; art. 323 - liability in environment protection;</p> <p>AW, art. 17, 18, 19, 20, 21, 22, 24 - obligations of holders of waste;</p> <p>APAFL, art. 7, 10 - designation of agricult. and forest land for non-agricult./non-forest purposes;</p> <p>BL, Chap. 1, art. 7 - general provisions;</p>	<p>RCA, art. 24-33 - investment realization;</p> <p>APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments</p>	<p>POL, art. 99-117 - contests (spatial planning, urban planning, architecture);</p> <p>RCA, art.2-11 - roads location, 12-23 - land acquire 24-33 - investment realization;</p> <p>RCA, attachments 1 and 2 - environmental reports;</p> <p>APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments</p>
---	---	--

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project
MAIN LEGAL REGULATIONS			

CODIFICATION	STAGES of the PROJECT
---------------------	------------------------------

	4	Financial assessment
	5	Formulation of goals and scope of the project
	6	Analysis of alternatives

<p>ISA, art.2, 3, 4 - definitions, types of investment, eligible expenses;</p> <p>EPL, arts. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment; arts. 71, 72, 73, 74, 75, 76 - environment protection in spatial development and during the execution of investments; arts. 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282 - financial and legal means for environment protection; art. 284, 285, 287, 290, 291, 298 - fees for the use of the environment; arts. 309, 313 - amount of penalties; arts. 316, 317, 318, 319, 320, 321 - deferment, reduction and annulment of the increased fee for the use of the environment and of administrative penalties; art. 323 - liability in environment protection;</p> <p>AW, arts. 17, 18, 19, 20, 21, 22, 24 - obligations of holders of waste;</p>	<p>ISA, art.10 - contractor ;</p>	<p>ISA, art.2, 3, 4 - definitions, types of investment, eligible expenses;</p>
<p>EPL, art. 48 - proceedings concerning the impact on the environment of planned investments; art. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment; art. 71, 72, 73, 74, 75, 76 - environment protection in spatial development and during the execution of investments; art. 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282 - financial and legal means for environment protection; arts. 284, 285, 287, 290, 291, 298 - fees for the use of the environment; art. 309, 313 - amount of penalties; art. 316, 317, 318, 319, 320, 321 - deferment, reduction and annulment of the increased fee for the use of the environment and of administrative penalties; art. 323 - liability in environment protection;</p> <p>AW, art. 17, 18, 19, 20, 21, 22, 24 - obligations of holders of waste;</p>		
<p>EPL, art. 48 - proceedings concerning the impact on the environment of planned investments; art. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment; art. 71, 72, 73, 74, 75, 76 - environment protection in spatial development and during the execution of investments; art. 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282 - financial and legal means for environment protection; art. 284, 285, 287, 290, 291, 298 - fees for the use of the environment; art. 309, 313 - amount of penalties; art. 316, 317, 318, 319, 320, 321 - deferment, reduction and annulment of the increased fee for the use of the environment and of administrative penalties; art. 323 - liability in environment protection;</p> <p>AW, art. 17, 18, 19, 20, 21, 22, 24 - obligations of holders of waste;</p>		

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project

CODIFICATION	STAGES of the PROJECT
--------------	-----------------------

MAIN LEGAL REGULATIONS

2	7	Development of implementation plan
	8	Formal acceptance of the project by EU relevant authority
1	DESIGN PHASE	
	1	Organization of the tender for the contract: AEC - architecture / engineering / consulting (design team) or DESIGN-BUILT
	2	Running the tender for the contract by the client
	3	Choosing the relevant company

EPL, art. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment; art. 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282 - financial and legal means for environment protection; art. 284, 285, 287, 290, 291, 298 - fees for the use of the environment; art. 309, 313 - amount of penalties; art. 316, 317, 318, 319, 320, 321 - deferment, reduction and annulment of the increased fee for the use of the environment and of administrative penalties; art. 323 - liability in environment protection;		
AW, art. 17, 18, 19, 20, 21, 22, 24 - obligations of holders of waste;		
EPL, art. 49, 50, 51, 52, 54, 55, 56, 57, 58, 60 - scope of the report on the environmental impact of an investment;		
ASPD, Chap. 1, art. 5, 6, 7, 9 - general provisions; Chap. 2, art. 12, 13 - independent technical functions; Chap. 3, art. 20, 21 - rights and obligations of participants in the building process; Chap. 4, art. 34 - proceedings prior to the commencement of construction works; Chap. 5 - location of investment;	APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments	APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments
BL, construction design requirements; APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments		
POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;	POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;	POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;
MA, art. 40-53 - tender for construction and design for motorways	MA, art. 40-53 - tender for construction and design for motorways;	MA, art. 40-53 - tender for construction and design for motorways;
POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;	POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;	POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;
MA, art. 40-53 - tender for construction and design for motorways;	MA, art. 40-53 - tender for construction and design for motorways;	MA, art. 40-53 - tender for construction and design for motorways;

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFLL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>
--

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project
MAIN LEGAL REGULATIONS			

CODIFICATION	STAGES of the PROJECT
--------------	-----------------------

	4	Signing the contract with the relevant company
2		Organization of the design team
	1	Appointment of the design team manager
	2	Scope definition
	3	Activity planning
	4	Resource planning (for the design team)
	5	Cost estimating
3	6	Schedule development (for design)
	7	Setting the hierarchic structure of the design project
	8	Setting the co-operation structure of the design project
		Development of design
	1	Surveying
	2	Basic information: urban planning, geology, hidrology, etc.
	3	Environmental analysis
	4	Calculations
	5	Drafting
	6	Technical specifications
	7	Scheduling and resource planning (for construction)
	8	Quality management plan
	9	Health and safety plan
	10	Budgeting
	11	Draft documents - editing, printing and binding
4		Control of design
	1	Control of resources
	2	Control of quality (ISO 9000)
	3	Control of time
	4	Control of costs
	5	Control of changes
5		Approval of the relevant documents by the local authority

POL, art. 94, 139-151 - agreements;	POL, art. 94, 139-151 - agreements;	POL, art. 94, 139-151 - agreements;
MA, art. 61-63 - agreements for motorway construction and operation		
OQMBIE, chap. 2, Methods and basics of making estimation cost, chap.3, Methods and basics of calculating planned building works costs', chap. 4, Methods and basics of calculating planned project costs'		
POL, art. 36 - TOR;		POL, art. 36 - TOR;
BL, Chapter 4	BL, Chapter 4	BL, Chapter 4

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project

CODIFICATION	STAGES of the PROJECT
--------------	-----------------------

MAIN LEGAL REGULATIONS			
------------------------	--	--	--

6	Closing – out and handing over (of design documents)	1	Inspection by client
		2	Implementation of changes due to inspection by client
		3	Final documents - editing, printing and binding
		4	Approval by client
		5	Formal handing over of the design project
		6	Taking over of the design project by the client
		7	Economic close-out of the contract (final payment and release of retainage or warranty)
3	PRE-CONSTRUCTION PHASE		
1	Organisation of the tender for engineer (consulting engineering company)		
1	Running the tender for engineer (consulting engineering company) by the client		
2	Choosing the engineer (consulting engineering company)		
3	Signing the contract with the consulting engineering company		

	<p>POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;</p> <p>MA, art. 40-53 - tender for construction and design for motorways;</p> <p>ALMR, art. 1,4,5,7,10,16, 17, 85-86 - Vol. I: concerns the legal state of the acquisition of the real property;</p> <p>GCL, Chap. I, II, III, IV, V, VI, art. 1-4, 7, 7a, 7d, 11, 15, 20-22, 27-28, 31-32 - concerns general provisions related to the execution of geodesic and cartographic works, principles for the registry of land and buildings, administrative bodies, inventories and registries of the networks of utilities, principles for the delimitation of areas;</p> <p>ARPM, Vol. II: Chap. 3,4,7,8; Vol. III: Chap. 1,4,5; Vol. IV: Chap.1; Dział V: Chap. 3,4 - concerns the principles for managing real property owned by the State Treasury and territorial self-government units, selling of real property and awarding the right of perpetual usufruct, provisions of awarding, restricting and revoking various rights to real property, principles for the evaluation of real property;</p> <p>AAPUORP, art. 1 - concerns the principles for the acquisition by perpetual usufructuaries of the ownership of real property;</p>	<p>POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;</p> <p>MA, art. 40-53 - tender for construction and design for motorways;</p> <p>GCL, Chap. I, II, III, IV, V, art. 1-4, 11, 13, 19, 27 - concerns general provisions related to the execution of geodesic and cartographic works, principles for the registry of land and buildings, administrative bodies, inventories and registries of the networks of utilities;</p>	<p>POL, art. 2-6 - areas covered by the act; art. 7-10 - procurement rules; art. 11-13 - public tender notice; art. 14-21 - duties of the client; art. 22-28 - duties of the tenderer; art. 29-38 - preparation of the tender and TOR; art. 39-81 - methods of procurement; art. 82-95 - choosing of the best offer; art. 96-98 - tender documents; art. 118-121 - concessions; art. 161-171 - control of procurement; art. 179-198 - legal protection; art. 199-203 - legal responsibilities;</p> <p>MA, art. 40-53 - Tender for construction and design for motorways;</p> <p>GCL, Chap. I, II, IV, V, VI, art. 1-4, 7, 7a, 7d, 11, 15, 20-22, 27-28, 31-32 - concerns general provisions related to the execution of geodesic and cartographic works, principles for the registry of land and buildings, administrative bodies, inventories and registries of the networks of utilities, principles for the delimitation of areas;</p>
--	--	--	---

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFLL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>
--

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project
MAIN LEGAL REGULATIONS			

CODIFICATION	STAGES of the PROJECT
---------------------	------------------------------

2	1 2 3 4	Organisation of the tender for contractor (construction company) (if the DESIGN-BUILT contract was NOT chosen in point 2.1)
		Choosing the tender method for contractor
		Running the tender for contractor
		Signing the contract with the construction company
4	CONSTRUCTION PHASE	
	1	Organization of the construction works
		1 Appointment of the construction team manager
		2 Appointment of the other key persons of the construction team
		3 Planning the cost
		4 Creation of the schedule for the construction works
		5 Task division between contractors
		6 Choosing the suppliers and subcontractors
		7 Contracting the goods and services
8 Setting the health and safety plan		
9 Setting the quality management plan		
2	Preparation of the construction site	
	1 Surveying	
	2 Jobsite access	
	3 Grading	
	4 Jobsite space allocation	
	5 Temporary facilities	
	6 Jobsite security (temporary fencing, security personnel, signade and barricades, etc.)	
7 Other		
3	Development of relevant construction works	

POL, art. 118-121 - concessions;	POL, art. 118-121 - concessions;	POL, art. 118-121 - concessions;
BL, Chap. 3, art. 25, 26, 27 - rights and obligations of participants in the building process; Chap. 4, art. 28, 29, 30, 31, 32, 33, 36a, 37, 39, 39a - proceedings prior to the commencement of construction works; Chap. 5, art. 41, 42, 43, 44, 46, 47, 56, 57, 59c - construction of buildings and putting them into use;	BL, Chap. 2, art. 12, 12b, 13, 14 - independent technical functions in construction; Chap. 3, art. 21a, 22, 23 - rights and obligations of participants in the building process; Roz. 4, art. 36a - proceedings prior to the commencement of construction works; Roz. 5, art. 41, 43, 45, 46 - construction of buildings and putting them into use; GMW Sect. 2, Chap. 1 - geotechnical works on mining land; Chap. 3, Art. 57 - building law on building mining industrial plant APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments	BL, Chap. 2, art. 10, 12, 12b, 13, 14 - independent technical functions in construction; Chap. 3, art. 26 - rights and obligations of participants in the building process; Chap. 4, 36a - proceedings prior to the commencement of construction works; Chap. 5, art. 41 - proceedings preceding the commencement of construction works; APHM, Chap. 3, Art. 25-37 - proceedings related to works involving historic buildings and monuments
OHHBW, chap. 2, conditions of preparing and leading building works, chap. 3, implemetetions of buiding site, chap. 4, social and hygenic conditions. Besides Ordinance traets about condition of different kintes of building works according to its safe and healthy		GCL, Chap. 7: concerns professional qualifications to carry out independent functions in the field of geodesy and cartography;

<p>Main Acts of Polish Parliament concerning investment process in construction:</p> <p>AAPUORP - Act on the Acquisition by Perpetual Usufructuaries of the Ownership of Real Property (of 26.07.2001);</p> <p>APAFL - Act on the Protection of Agricultural and Forest Lands (of 3.02.1995);</p> <p>ALMR - Act on Land and Mortgage Registers and on Mortgage (of 6.07.1982);</p> <p>APN - Act on the Protection of Nature;</p> <p>APHM - Act on Preservation of Historic Monuments (of 23.07.2003);</p> <p>ARPM - Act on Real Property Management (of 21.08.1997);</p> <p>ASPD - Act on Spatial Planning and Development (of 27.03.2003);</p> <p>AW - Act on Waste (of 27.04.2001);</p> <p>BL - Act - Building Law (of 7.07.1994) (changed 25.09.2005)</p> <p>EPL - Environment Protection Law (of 27.04.2001);</p> <p>GCL - Act - Geodesic and Cartographic Law (of 17.05.1989);</p> <p>GMW - Geotechnical and Mining Law (of 04.02.1994);</p> <p>ISA - Investment Support Act (of 20.03.2001);</p> <p>MA - Motorway Act (of 27.10.1994);</p> <p>OHHBW - Ordinance on healthy and hygiene during building works</p> <p>OQMBIE - Ordinance on qualifying methods and basics in investor's estimation</p> <p>PG - Payments Guarantee (of 09.07.2003);</p> <p>POL - Public Order Law (of 29.01.2004);</p>

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
Legal regulations relevant to the role of P/C/E	BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;	Act on engineering licenses and professional bodies - regulates rights and duties of architects, engineers and urban planners, of 15.12.2000, BL, Chap. 1, art. 4 - general provisions; Chap. 2, art. 17, 18, 19, 27 - independent technical functions in construction;
CONTRACT	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project	Contractual relationship between Partners in the project
MAIN LEGAL REGULATIONS			

CODIFICATION	STAGES of the PROJECT
---------------------	------------------------------

4	1 2 3 4 5 6 7 8	Control of construction works
		Control of resources
		Control of deliveries and suppliers
		Control of quality (iso 9000)
		Control of health and safety
		Control of environmental issues
		Control of time
		Control of costs / budget
5	1 2 3 4 5 6 7 8 9 10	HANDING OVER AND START-UP PHASE
		Closing – out and handing over
		Contractor notifies the termination of construction works
		Consultant inspects the infrastructure
		Consultant compiles a list of remaining works (or repairs) to be done
		Contractor completes the remaining works or makes the repairs
		Engineer issues certificate of substantial completion
		Formal handing over of the infrastructure
		Taking over of the infrastructure by the client
		Economic close-out of the contract between client and contractor, or when apply – client represented by consultant (final payment and release of retainage or warranty)
Termination of direction works		
2	1 2	Start-up of the infrastructure operations

		APHM, Chap. 4, Art. 38-50 - conservator's control and supervision
	BL, Chap. 5, art. 60 - construction of buildings and putting them into use;	
	ALMR, art. 19-22, 24-29, 35, 65, 68, 79 - concerns the rules for maintaining, marking and securing land and mortgage registers, and encumbering them with mortgage debts, as well as obligations of the owner of real property;	
	PG, art. 1-6 - payments for construction works;	PG, art. 1-6 - payments for construction works, Contractual relationship finish between Client and Construction Company;
	AAPUORP, art. 1 - concerns the principles for the acquisition by perpetual usufructuaries of the ownership of real property;	PG, art. 1-6 - payments for construction works, Contractual relationship finish between Client and Consulting Engineering Company;

ANNEX 2: PORTUGUESE PROCEDURES

Decree-Law:	which has been altered by the following laws:	and revokes the following laws:	Description
DL 59/99 (2 Mar)	DL 159/2000 (27 Jun); DL 163/99 (14 Set); DL 245/2003 (7 Oct).		Law set on public contracts
DL 197/99 (8 Jun)	DL 1/2005 (4 Jan)	DL 55/95 (29 Mar)	Law set on public expenditures for location and aquisition of goods and services as well as for public contracting.
P 104/2001 (21 Fev)	P. 1075/2005 (19 Oct); P. 3/2002 (4 Jan); P. 1465/2002 (14 Nov).	P. 428/1995 (10 May)	Typcal tender programmes and typical tender specifications for lump sum contracts and bill of quantity contracts with design issued by the client and in pecentage public tender arrangements.
P 1101/2000 (20 Nov)	P 1104/2001 (17 Set); P 69/2003 (20 Jan).		Annex of the legal dispositions aplicable to design and construction works
DL 273/2003, (29 Oct)	regulated by P. 101/96(3Apr)	DL 155/95 (1 Jul)	General rules of planning, organizing and coordinating for promoting Safety, Higiene&Health on the construction site connected with the minimum prescriptions required for temporary/mobile construction sites
D 41821 (11 Aug 1958)			Work safety regulation for building construction
DL 46427 (10 Jul 1965)			Regulation regarding the temporary instalations for the construction workers employed
DL 441/91 (14 Nov)			General principles for the promotion of Health, Hygiene & Safety at work
DR 33/88 (12 Set)			Regulation on construction signalling and ocasional obstacles on public roads
P 1456□A/95 (11 Dec)			Minimum prescriptions on setting and using Health & Safety signalling at work
DL 141/95 (14 Jun)		DL 310/86 (23 Set)	Coordination of the Health & Safety signalling at work
P 987/93 (6 Oct)			Health & Safety minimum prescriptions for the work site
P 101/96 (3 Apr)			Health & Safety minimum prescriptions for temporart/mobile construction sites.
DL 76/2002 (26 Mar)			Regulation on noise emission into the environment by equipment for exterior use
Lei 11/87 (7 Apr)			Environmental foundation law
DL 186/90 (6 Jun)	DL 278/97 (8 Oct)		Standards regarding the appraisal of the effects on the environment by certain private and public projects.
DR 38/90 (27 Nov)			Evaluation of the environmental impact (AIA) of projects that confirm significante impacts on the environment
DL 69/2000 (3 May)			Law set for the Evaluation of the environmental impact of public and private projects susceptible of producing significante effects on the environment.
DL 38382 (7 Aug 1971)	Dec 38 888 (29 Ago 1952); DL 44258 (31 Mar 1962); DL 45027 (13 Mai 1963); DL 650/75 (18 Nov); DL 463/85 (4 Nov); DL 64/90 (21 Fev); DL 61/93 (3 Mar).		RGEU - General Regulations of Urban Buildings [new version soon: RGE]
DL 310/90 (1 Oct)			Setting up the LNEC Quality trade-mark
DL 380/1999 (22 Set)	DL 53/2000 (7 Abr)	DL 176-A/88 (18 May); DL 151/95 (24 Jun); DL 69/90 (2 Mar).	Law set on the territorial management tools

		SEC - Section; CAP - Chapter	CLIENT		CONSULTING ENGINEER COMPANY
		DL - Decree-Law; P - Law; DEC - Law; DR - Ruling Decree	PUBLIC AGENCY	CONTRACTOR	DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
		Green Shade: illustrates the entity involved	PROMOTER - OWNER - DEVELOPER - EMPLOYER	CONSTRUCTION COMPANY	ENGINEER / DESIGNER / CONSULTANT
1		CONCEPTUAL PHASE			
1		Initiation of the project	Roads: DL 182/2003 (DL 222/98): Plano Rodoviário Nacional; DL 380/1999: Law set on the territorial management tools		Roads: DL 182/2003 (DL 222/98): Plano Rodoviário Nacional; DL 380/1999: Law set on the territorial management tools
1	1	Analysis of needs	General urban law		General urban law
2	2	Constraints identification	Local authority urban law		Local authority urban law
3	3	Conception of the project	Design rules		Design rules
4	4	Financial assessment	Environmental impact law		Environmental impact law
5	5	Formulation of goals and scope of the project	Regulations on concurrence		Regulations on concurrence
6	6	Analysis of alternatives	Rules on project submission to EU		Rules on project submission to EU
7	7	Development of implementation plan			
8	8	Formal acceptance of the project by EU relevant authority			
2		DESIGN PHASE			
1		Organization of the tender for the contract: AEC - architecture / engineering / consulting (design team) or DESIGN-BUILT	DL 197/99: CAP III - Types and selection of tender [Art 78 to 86]; CAP V - Tender limited by pre-qualification and CAP VII - Tender by negotiation with publication requirements: Delivery, appraisal and selection of candidates phases [Art 115 to 126, Art 137 to 145]; CAP IX -Prior consultation [Art 158 - Appraisal of proposals; Art 160 - Final report and selection of contractor		DL 197/99: CAP III - Types and selection of tender [Art 78 to 86]; CAP V - Tender limited by pre-qualification and CAP VII - Tender by negotiation with publication requirements: Delivery, appraisal and selection of candidates phases [Art 115 to 126, Art 137 to 145]; CAP IX -Prior consultation [Art 158 - Appraisal of proposals; Art 160 - Final report and selection of contractor
1	1	Choosing the form of the contract			
2	2	Running the tender for the contract by the client			
3	3	Choosing the relevant company			
4	4	Signing the contract with the relevant company			
2		Organization of the design team	DL 197/99: CAP XIII - Special communitarian dispositions: Art 190 to 199; Art 191- Service supply and design works. Art 192 - Co-service contracts.		DL 197/99: CAP XIII - Special communitarian dispositions: Art 190 to 199; Art 191- Service supply and design works. Art 192 - Co-service contracts.
1	1	Appointment of the design team manager			
2	2	Scope definition			
3	3	Activity planning			
4	4	Resource planning (for the design team)			
5	5	Cost estimating			
6	6	Schedule development (for design)			
7	7	Setting the hierarchic structure of the design project			
8	8	Setting the co-operation structure of the design project			
3		Development of design			
1	1	Surveying	DL 38382: RGEU - General Regulations of Urban Buildings		DL 38382: RGEU - General Regulations of Urban Buildings
2	2	Basic information: urban planning, geology, hidrology, etc.	Local Urban Regulations		Local Urban Regulations

	SEC - Section; CAP - Chapter	CLIENT		CONSULTING ENGINEER COMPANY
	DL - Decree-Law; P - Law; DEC - Law; DR - Ruling Decree	PUBLIC AGENCY	CONTRACTOR	DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
	Green Shade: illustrates the entity involved	PROMOTER - OWNER - DEVELOPER - EMPLOYER	CONSTRUCTION COMPANY	ENGINEER / DESIGNER / CONSULTANT
3	Environmental analysis	DL 76/2002: Regulation on noise emission into the environment by equipment for exterior use; Law 11/87: Environmental foundation law; P1101/2000: Cap V Environment, natural resources, architectural and archaeological heritage: Art 5.1 to 5.7 and Sec III Noise Pollution: Art 11.7; DL 186/90 and DL 278/97: Standards regarding the appraisal of the effects on the environment by certain private and public projects; DR 38/90: Evaluation of the environmental impact (AIA) of projects that confirm significant impacts on the environment; DL 69/2000: Law set for the Environmental Impact Valuation of public and private projects susceptible of producing significant effects on the environment.		DL 76/2002: Regulation on noise emission into the environment by equipment for exterior use; Law 11/87: Environmental foundation law; P1101/2000: Cap V Environment, natural resources, architectural and archaeological heritage: Art 5.1 to 5.7 and Sec III Noise Pollution: Art 11.7; DL 186/90 and DL 278/97: Standards regarding the appraisal of the effects on the environment by certain private and public projects; DR 38/90: Evaluation of the environmental impact (AIA) of projects that confirm significant impacts on the environment; DL 69/2000: Law set for the Environmental Impact Valuation of public and private projects susceptible of producing significant effects on the environment.
4	Calculations	Specific design standards		Specific design standards
5	Drafting	EUROCODES		EUROCODES
6	Technical specifications	Material specifications		Material specifications
7	Scheduling and resource planning (for construction)			
8	Quality management plan	Codes of Practice		Codes of Practice
9	Health and safety plan	DL 273/2003: Art 5 - Health & Safety Planning at work; DL 441/91: General principles for the promotion of Safety, health and hygiene at work; Dec 41821: Work safety regulation for building construction; P 987/93: Health & Safety minimum prescriptions for the work site; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites; P 104/2001: SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works; P 1101/2000: CAP XI Construction - SEC I Safety: Art 11.1 and 11.2		DL 273/2003: Art 5 - Health & Safety Planning at work; DL 441/91: General principles for the promotion of Safety, health and hygiene at work; Dec 41821: Work safety regulation for building construction; P 987/93: Health & Safety minimum prescriptions for the work site; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites; P 104/2001: SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works; P 1101/2000: CAP XI Construction - SEC I Safety: Art 11.1 and 11.2
10	Budgeting			
11	Draft documents - editing, printing and binding			
4	Control of design			
1	Control of resources			
2	Control of quality (ISO 9000)	DL 310/90: LNEC Quality trade-mark; P1101/2000: CAP I - SEC VII Construction Quality: Art 1.16		DL 310/90: LNEC Quality trade-mark; P1101/2000: CAP I - SEC VII Construction Quality: Art 1.16
3	Control of time			
4	Control of costs			
5	Control of changes			
5	Approval of the relevant documents by the local authority			
6	Closing – out and handing over (of design documents)			
1	Inspection by client			
2	Implementation of changes due to inspection by client			
3	Final documents - editing, printing and binding			
4	Approval by client			
5	Formal handing over of the design project			
6	Taking over of the design project by the client			

		SEC - Section; CAP - Chapter	CLIENT		CONSULTING ENGINEER COMPANY
		DL - Decree-Law; P - Law; DEC - Law; DR - Ruling Decree	PUBLIC AGENCY	CONTRACTOR	DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
		Green Shade: illustrates the entity involved	PROMOTER - OWNER - DEVELOPER - EMPLOYER	CONSTRUCTION COMPANY	ENGINEER / DESIGNER / CONSULTANT
	7	Economic close-out of the contract between the contractor and the client or when apply - client represented by the consultant (final payment and release of retainage or warranty)			
3		PRE-CONSTRUCTION PHASE			
1		Organisation of the tender for engineer (consulting engineering company)	DL 197/99: Art 166 - Admission of candidates; Art 169 - Advertisement; Art 170 Jury; Art 173 - Project appraisal and ranking; Art 174 - Public session; Art 175 Candidate appraisal; Art 176 Report		DL 197/99: Art 166 - Admission of candidates; Art 169 - Advertisement; Art 170 Jury; Art 173 - Project appraisal and ranking; Art 174 - Public session; Art 175 Candidate appraisal; Art 176 Report
	1	Running the tender for engineer (consulting engineering company) by the client			
	2	Choosing the engineer (consulting engineering company)			
	3	Signing the contract with the consulting engineering company			
2		Organisation of the tender for contractor (construction company) (if the DESIGN-BUILT contract was NOT chosen in point 2.1)	DL 59/99: Title III - Contract Formulation [Art 47 - Type of tender; Art 48 - Selecting type of tender]. CAP I SEC II- Tender formalities and procedures; CAP II - Candidates; CAP III - Public tender [SEC I VI: Art 49 to 97 and SEC VI-XI]; CAP IV - Limited tender; CAP V - Tender by negotiation; CAP VI - Direct award; CAP VII - Dispositions regarding percentage contracts: Art 98 to Art 139.	DL 59/99: Title III - Contract Formulation [Art 47 - Type of tender; Art 48 - Selecting type of tender]. CAP I SEC II- Tender formalities and procedures; CAP II - Candidates; CAP III - Public tender [SEC I VI: Art 49 to 97 and SEC VI-XI]; CAP IV - Limited tender; CAP V - Tender by negotiation; CAP VI - Direct award; CAP VII - Dispositions regarding percentage contracts: Art 98 to Art 139.	DL 59/99: Title III - Contract Formulation [Art 47 - Type of tender; Art 48 - Selecting type of tender]. CAP I SEC II- Tender formalities and procedures; CAP II - Candidates; CAP III - Public tender [SEC I VI: Art 49 to 97 and SEC VI-XI]; CAP IV - Limited tender; CAP V - Tender by negotiation; CAP VI - Direct award; CAP VII - Dispositions regarding percentage contracts: Art 98 to Art 139.
	1	Choosing the tender method for contractor			
	2	Running the tender for contractor			
	3	Choosing the contractor			
	4	Signing the contract with the construction company			
4		CONSTRUCTION PHASE			
1		Organization of the construction works			
	1	Appointment of the construction team manager			
	2	Appointment of the other key persons of the construction team			
	3	Planning the cost			
	4	Creation of the schedule for the construction works		DL 59/99: Art 63 - Design components; Art 73 - Tender documents	DL 59/99: Art 63 - Design components; Art 73 - Tender documents
	5	Task division between contractors			
	6	Choosing the suppliers and subcontractors			
	7	Contracting the goods and services	DL 59/99: Artigo 5 - Mixed Contracts	DL 59/99: Artigo 5 - Mixed Contracts	DL 59/99: Artigo 5 - Mixed Contracts
	8	Setting the health and safety plan	Portaria 104/2001- SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works - 4.1.1- Contractor responsibilities; DL 273/2003: Art 11- Developing the Health & Safety plan for the construction works. Artigo 12 - Approval of the Health & Safety Plan for the construction works. Art 13 - Applying the Health & Safety Plan for the construction works. Art 14 - Safety Procedures Record; Art 15 - Prior notice regarding the construction site opening. Art 16 - Project file.	Portaria 104/2001- SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works - 4.1.1- Contractor responsibilities; DL 273/2003: Art 11- Developing the Health & Safety plan for the construction works. Artigo 12 - Approval of the Health & Safety Plan for the construction works. Art 13 - Applying the Health & Safety Plan for the construction works. Art 14 - Safety Procedures Record; Art 15 - Prior notice regarding the construction site opening. Art 16 - Project file.	Portaria 104/2001- SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works - 4.1.1- Contractor responsibilities; DL 273/2003: Art 11- Developing the Health & Safety plan for the construction works. Artigo 12 - Approval of the Health & Safety Plan for the construction works. Art 13 - Applying the Health & Safety Plan for the construction works. Art 14 - Safety Procedures Record; Art 15 - Prior notice regarding the construction site opening. Art 16 - Project file.

		SEC - Section; CAP - Chapter	CLIENT		CONSULTING ENGINEER COMPANY
		DL - Decree-Law; P - Law; DEC - Law; DR - Ruling Decree	PUBLIC AGENCY	CONTRACTOR	DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
		Green Shade: illustrates the entity involved	PROMOTER - OWNER - DEVELOPER - EMPLOYER	CONSTRUCTION COMPANY	ENGINEER / DESIGNER / CONSULTANT
	9	Setting the quality management plan			
2	1	Preparation of the construction site Surveying		DL 59/99: Art 24 - Accessory or preliminary work	DL 59/99: Art 24 - Accessory or preliminary work
	2	Jobsite access		DL 273/2003: Art 17 - Promotor/Owner obligations; Art 19 - Safety coordinator obligations; Art 20 - Contractor obligations; Annex I - Management and organisation of the construction site to be included in the Health & Safety Plan at the design stage. Annex II: Composition of the Health & Safety plan for the construction works; DL 46427: Regulation regarding the temporary instalations for construction workers; P1101/2000: CAP XI Construction - SEC II Construction sites - Art 11.4 to 11.6 and SEC IV Public works - Art 11.8 - 11.17	DL 273/2003: Art 17 - Promotor/Owner obligations; Art 19 - Safety coordinator obligations; Art 20 - Contractor obligations; Annex I - Management and organisation of the construction site to be included in the Health & Safety Plan at the design stage. Annex II: Composition of the Health & Safety plan for the construction works; DL 46427: Regulation regarding the temporary instalations for construction workers; P1101/2000: CAP XI Construction - SEC II Construction sites - Art 11.4 to 11.6 and SEC IV Public works - Art 11.8 - 11.17
	3	Grading			
	4	Jobsite space allocation			
	5	Temporary facilities			
	6	Jobsite security (temporary fencing, security personnel, signade and barricades, etc.)		DR 33/88: Regulation on construction signalling and ocasional obstacles on public roads; P 1456 : A/95: Minimum prescriptions on setting and using Health & Safety signalling at work; DL 141/95: Coordination of the Health & Safety signalling at work; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites.	DR 33/88: Regulation on construction signalling and ocasional obstacles on public roads; P 1456 : A/95: Minimum prescriptions on setting and using Health & Safety signalling at work; DL 141/95: Coordination of the Health & Safety signalling at work; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites.
	7	Other			
3		Development of relevant construction works	DL 59/99: TITLE II - Types of contract jobs [CAP III - Common Dispositions of lump sum contracts and bill of quantity contracts: Art 26 - Performing surplus work; Art 27 - Settling new costs for surplus work; Art 28 - Work suppression; Art 29 - Unused work already carried out; Art 30 - Changes proposed by the contractor].	DL 59/99: TITLE II - Types of contract jobs [CAP III - Common Dispositions of lump sum contracts and bill of quantity contracts: Art 26 - Performing surplus work; Art 27 - Settling new costs for surplus work; Art 28 - Work suppression; Art 29 - Unused work already carried out; Art 30 - Changes proposed by the contractor].	DL 59/99: TITLE II - Types of contract jobs [CAP III - Common Dispositions of lump sum contracts and bill of quantity contracts: Art 26 - Performing surplus work; Art 27 - Settling new costs for surplus work; Art 28 - Work suppression; Art 29 - Unused work already carried out; Art 30 - Changes proposed by the contractor].
		Control of construction works			
	1	Control of resources			
	2	Control of deliveries and suppliers			
	3	Control of quality (iso 9000)	DL 310/90: LNEC Quality trade-mark; P1101/2000: CAP I - SEC VII Construction Quality: Art 1.16	DL 310/90: LNEC Quality trade-mark; P1101/2000: CAP I - SEC VII Construction Quality: Art 1.16	DL 310/90: LNEC Quality trade-mark; P1101/2000: CAP I - SEC VII Construction Quality: Art 1.16
	4	Control of health and safety		DL 273/2003: Art 5 - Health & Safety Planning at work; DL 441/91: General principles for the promotion of Safety, health and hygiene at work; Dec 41821: Work safety regulation for building construction; P 987/93: Health & Safety minimum prescriptions for the work site; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites; P 104/2001: SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works; P 1101/2000: CAP XI Construction - SEC I Safety: Art 11.1 and 11.2	DL 273/2003: Art 5 - Health & Safety Planning at work; DL 441/91: General principles for the promotion of Safety, health and hygiene at work; Dec 41821: Work safety regulation for building construction; P 987/93: Health & Safety minimum prescriptions for the work site; P 101/96: Health & Safety minimum prescriptions in work locations in temporary or mobile construction sites; P 104/2001: SEC I Clause 8.3 - Safety, health and hygiene at work and SEC II Clause 4.1.2- Planning construction works; P 1101/2000: CAP XI Construction - SEC I Safety: Art 11.1 and 11.2

		SEC - Section; CAP - Chapter	CLIENT		CONSULTING ENGINEER COMPANY
		DL - Decree-Law; P - Law; DEC - Law; DR - Ruling Decree	PUBLIC AGENCY	CONTRACTOR	DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
		Green Shade: illustrates the entity involved	PROMOTER - OWNER - DEVELOPER - EMPLOYER	CONSTRUCTION COMPANY	ENGINEER / DESIGNER / CONSULTANT
	5	Control of environmental issues		DL 76/2002: Regulation on noise emission into the environment by equipment for exterior use ; Law 11/87: Environmental foundation law; P1101/2000: Cap V Environment, natural resources, architectural and archaeological heritage: Art 5.1° to 5.7° and Sec III Noise Pollution: Art 11.7; DL 186/90 and DL 278/97: Standards regarding the appraisal of the effects on the environment by certain private and public projects; DR 38/90: Evaluation of the Environmental Impact (AIA) of projects that confirm significant impacts on the environment; DL 69/2000: Law set for the Environmental Impact Valuation of public and private projects susceptible of producing significant effects on the environment.	DL 76/2002: Regulation on noise emission into the environment by equipment for exterior use ; Law 11/87: Environmental foundation law; P1101/2000: Cap V Environment, natural resources, architectural and archaeological heritage: Art 5.1° to 5.7° and Sec III Noise Pollution: Art 11.7; DL 186/90 and DL 278/97: Standards regarding the appraisal of the effects on the environment by certain private and public projects; DR 38/90: Evaluation of the Environmental Impact (AIA) of projects that confirm significant impacts on the environment; DL 69/2000: Law set for the Environmental Impact Valuation of public and private projects susceptible of producing significant effects on the environment.
	6	Control of time			
	7	Control of costs / budget		DL 59/99: TITLE II - Types of contract jobs [CAP V: Art 45 - Cost control; Art 46 - Appraisal of cost control measures]	DL 59/99: TITLE II - Types of contract jobs [CAP V: Art 45 - Cost control; Art 46 - Appraisal of cost control measures]
	8	Control of changes		DL 59/99: Art 12 - Project variants; Art 30 - Changes proposed by the contractor; Art 45 - Cost control; Art 106 - Changes to the proposal, project or variant.	DL 59/99: Art 12 - Project variants; Art 30 - Changes proposed by the contractor; Art 45 - Cost control; Art 106 - Changes to the proposal, project or variant.
5		HANDING OVER AND START-UP PHASE			
1		Closing – out and handing over			
	1	Contractor notifies the termination of construction works			
	2	Consultant inspects the infrastructure			
	3	Consultant compiles a list of remaining works (or repairs) to be done			
	4	Contractor completes the remaining works or makes the repairs			
	5	Engineer issues certificate of substantial completion			
	6	Formal handing over of the infrastructure			
	7	Taking over of the infrastructure by the client			
	8	Economic close-out of the contract between contractor and client (final payment and release of retainage or warranty)			
	9	Termination of direction works			
	10	Economic close-out of the contract between client and consultant (final payment and release of retainage or warranty)			
2		Start-up of the infrastructure operations			

ANNEX 3: LITHUANIAN PROCEDURES

CC - Civil Code of the Republic of Lithuania,

LC - Law on Construction,

LPP - Law on Public Procurement,

LTP - Law on Territorial Planning,

LI - Law on Investments,

LR - Law on Roads,

LSH - Law on Safety and Healthy at Work

LEP - Law on Environmental Protection,

LPT - Law on Protected Territories,

LNE - Law on Nuclear Energy,

LAI - Law on the Assessment of an Impact of Planned Economic Activities on the Environment,

LCZ - Law on the Coastal Zone,

STR - Technical Construction Regulations:

STR 1 . 05 . 06 : 2005 Design of a construction works,

STR 1 . 08 . 02 : 2002 Construction operations,

STR 1 . 06 . 03 : 2002 Expert examination of a design documentation of a construction works and expert examination of a construction works,

STR 1 . 09 . 04 : 2002 Supervision of the implementation of a design documentation of a construction works,

STR 1 . 09 . 05 : 2002 Technical supervision of construction of a construction works,

STR 1.11.01:2002 Acceptance of construction works as fit for use

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

LC, art. 3 - The Right to be a Builder (Client) and its Implementation, art. 12 - Duties and Rights of the Builder (Client) Contractor

LC, art. 15 - The Right to be a Contractor. Duties and Rights of the Contractor

LC, art. 13, 14, 16 - The Right to be an Investigator, a Designer, their Duties and Rights, Duties and Rights of the Technical

1		CONCEPTUAL PHASE
	1	Initiation of the project
	1	Analysis of needs
	2	Constraints identification
	3	Conception of the project
	4	Financial assessment
	5	Formulation of goals and scope of the project
	6	Analysis of alternatives
	7	Development of implementation plan
	8	Formal acceptance of the project by EU relevant authority

<p>LPP, art. 52-54 - Design Contests; art. 96-98 - Simplified Design Contest</p> <p>LTP, art. 3 - Objectives of Territorial Planning (to form a policy of development of infrastructure systems); LI, art. 12 - State Investment Policy</p> <p>LTP, art. 7-12 - General Planning; LCZ, art. 7 - conditions of construction works in the coastal zone; LTP - individual protection regulations of protected territories; LNE, art. 29-34 - Special conditions for the design and construction of nuclear facilities</p> <p>LPP, art. 27 - Variants; LAI, art. 7-10 - Assessment of an Impact on the Environment; Supplement 1 - Planned economic activities that need to be selected for an impact on the environment (engineering works among them)</p>	<p>LEP, art. 17 - Construction, Reconstruction and Expansion of Economic Facilities</p>	<p>LPP, art. 52-54 - Design Contests; art. 96-98 - Simplified Design Contest</p> <p>LEP, art. 16 - Designing Economic Activities which are Likely to Have an Effect on the Environment; LR, art. 10-12 - Road Construction</p>
---	---	--

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

2	1	DESIGN PHASE				
			Organization of the tender for the contract: AEC - architecture / engineering / consulting (design team) or DESIGN-BUILT			
		1	Choosing the form of the contract	LC, art. 12.2 art. - The builder (client) shall have the right to select a way of organising the design, to select the type of organising the construction		
		2	Running the tender for the contract by the client	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure	
		3	Choosing the relevant company	LC, art. 12.2.3 - The builder (client) shall have the right at his own discretion or by tendering procedure to select designers; LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders	LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders	
	4	Signing the contract with the relevant company	CC, art. 6.644-6.645 - contract of independent work, art. 6.706 - Content of contract of independent work formed on the basis of a public tender, art. 6.700-6.704 - contract of independent work for fulfilment of projecting and survey work; LPP, art. 15 - Contract	CC, art. 6.644-6.645 - contract of independent work, art. 6.706 - Content of contract of independent work formed on the basis of a public tender, art. 6.700-6.704 - contract of independent work for fulfilment of projecting and survey work; LPP, art. 15 - Contract		

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
---------------------	--

2	1	Organization of the design team	LC, art. 10 - Main Areas of Technical Construction Activities (direction by heads); STR 1.05.06:2005, ch. V.3 - Design of a construction works: designers of the design documentation of a construction works, headship by a head of design of a construction works	LC, art. 10 - Main Areas of Technical Construction Activities (direction by heads); art. 21 - Architectural Decisions of a Design Documentation of a Construction Works. Architect of a Construction Works: the head of design of a construction works; STR 1.05.06:2005, ch. V.3 - Design of a construction works: designers of the design documentation of a construction works, headship by a head of design of a construction works, Supplement 1- Rights and duties of a head of design			
		2			Scope definition	STR 1.05.06:2005, ch. V.2 - Design of a construction works: steps of designing the construction works	STR 1.05.06:2005, ch. V.2 - Design of a construction works: steps of designing the construction works
		3			Activity planning		
		4			Resource planning (for the design team)		
		5			Cost estimating	STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project, art. 37 - estimating the calculating cost, art. 38 - economic part of a project	STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project, art. 37 - estimating the calculating cost, art. 38 - economic part of a project
		6			Schedule development (for design)		
		7			Setting the hierarchic structure of the design project		
		8			Setting the co-operation structure of the design project		
	3	1	Development of design	LC, art. 20 - A Design documentation of a construction works. Design Terms; STR 1.05.06:2005, ch. V.2 - Design of a construction works: steps of designing the construction works	LC, art. 20 - A Design documentation of a construction works. Design Terms; STR 1.05.06:2005, ch. V.2 - Design of a construction works: steps of designing the construction works		
			1	Surveying	LC, art. 12.2 - Duties and Rights of the Builder (Client): organise construction investigation, art. 19 - Construction Investigations	LC, art. 13 - The Right to be an Investigator. Rights and Duties of the Investigator, art. 19 - Construction Investigations	

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
---------------------	--

2	Basic information: urban planning, geology, hidrology, etc.	LC, art. 20 - A Design documentation of a construction works. Design Terms; LTP, art. 13-26 - special and detailed territorial planning	LC, art. 13 - The Right to be an Investigator. Rights and Duties of the Investigator; LTP, art. 13-26 - special and detailed territorial planning
3	Environmental analysis	LC, art. 20 - A Design documentation of a construction works. Design Terms	LC, art. 6 - Protection of the Environment, Landscape, of Interests of the Third Parties, art. 13 - Rights and Duties of the Investigator
4	Calculations		STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project, art. 37 - estimating the calculating cost, art. 38 - economic part of a project
5	Drafting		LC, art. 5 - Essential Architectural Requirements for a Construction Works, art. 14 - Duties of the Designer, art. 20 - A Design documentation of a construction works, art. 21 - Architectural Decisions of a Design Documentation of a Construction Works; STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project
6	Technical specifications		STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project
7	Scheduling and resource planning (for construction)		STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project
8	Quality management plan		STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project
9	Health and safety plan		LC, art. 4 - Essential Requirements for a Construction Works; STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project
10	Budgeting		STR 1 . 05 . 06 : 2005, ch. VI - Design of a construction works: composition of a project , art. 38 - economic part of a project
11	Draft documents - editing, printing and binding		

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

4	Control of design	LC, art. 12.1.3 - Duties of the Builder (Client): organise expert examination of a design documentation of a construction works, art. 27 - State Supervision of Construction; STR 1 . 06 . 03 : 2002, ch. IV, ch. VI - Expert examination of a design documentation of a construction works and expert examination of a construction works: mandatory expert examination of a design documentation, composition of expert examination ekspertizés sudétis	LC, art. 29 - Expert Examination of a Design Documentation of a Construction Works, art. 27 - State Supervision of Construction; STR 1 . 06 . 03 : 2002, ch. IV, ch. VI - Expert examination of a design documentation of a construction works and expert examination of a construction works: mandatory expert examination of a design documentation, composition of expert examination ekspertizés sudétis
1	Control of resources		
2	Control of quality (ISO 9000)		
3	Control of time		
4	Control of costs		
5	Control of changes		
5	Approval of the relevant documents by the local authority		
6	Closing – out and handing over (of design documents)	STR 1.05.06:2005, ch. VII - Design of a construction works: signing the project, handover of the project to the builder, changing the project	STR 1.05.06:2005, ch. VII - Design of a construction works: signing the project, handover of the project to the builder, changing the project
1	Inspection by client	CC, art. 6.662 - Acceptance of work fulfilled ; LC, art. 12 - Duties and Rights of the Builder (Client)	CC, art. 6.662 - Acceptance of work fulfilled ; LC, art. 14 - Duties and Rights of the Designer
2	Implementation of changes due to inspection by client	CC, art. 6.662 - Acceptance of work fulfilled ; LC, art. 12 - Duties and Rights of the Builder (Client)	
3	Final documents - editing, printing and binding		
4	Approval by client	CC, art. 6.662 - Acceptance of work fulfilled ; STR 1.05.06:2005, ch. VIII - Design of a construction works: Procedure for approval of a project	CC, art. 6.662 - Acceptance of work fulfilled ; STR 1.05.06:2005, ch. VIII - Design of a construction works: Procedure for approval of a project

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

5	Formal handing over of the design project
6	Taking over of the design project by the client
7	Economic close-out of the contract (final payment and release of retainage or warranty)

<p>CC, art. 6.662 - Acceptance of work fulfilled; LC, art. 12 - Duties and Rights of the Builder (Client); STR 1.05.06:2005, ch. VII - Design of a construction works: handover of the project to the builder</p> <p>CC, art. 6.662 - Acceptance of work fulfilled; LC, art. 12 - Duties and Rights of the Builder (Client); STR 1.05.06:2005, ch. VII - Design of a construction works: handover of the project to the builder</p> <p>CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, art. 6.704 - Duties of the customer</p>

<p>CC, art. 6.662 - Acceptance of work fulfilled; STR 1.05.06:2005, ch. VII - Design of a construction works: handover of the project to the builder</p> <p>CC, art. 6.662 - Acceptance of work fulfilled; STR 1.05.06:2005, ch. VII - Design of a construction works: handover of the project to the builder</p> <p>CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, art. 6.697 - Guarantee of the quality of work; LC, art. 36 - Warranty Period of a Construction Period. Obligations of the Designer, Contractor of a Construction Works and Technical Supervisor of Construction of a Construction Works during a Warranty Period, art. 38 - Compulsory Insurance of Civil Liability of the Designer of a Construction Works</p>
--

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

3		PRE-CONSTRUCTION PHASE
	1	Organisation of the tender for engineer (consulting engineering company)
	1	Running the tender for engineer (consulting engineering company) by the client
	2	Choosing the engineer (consulting engineering company)
	3	Signing the contract with the consulting engineering company
2	Organisation of the tender for contractor (construction company) (if the DESIGN-BUILT contract was NOT chosen in point 2.1)	

	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure
	LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders	LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders
	LPP, art. 15 - Contract	LPP, art. 15 - Contract
	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure	LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

1	Choosing the tender method for constructor
2	Running the tender for contractor
3	Choosing the contractor
4	Signing the contract with the construction company

LC, art. 12.2 art. - The builder (client) shall have the right to select a way of organising the design, to select the type of organising the construction; STR 1.08.02:2002, ch. IV - Construction Operations: types of construction works

LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure

LC, art. 12.2.3 - The builder (client) shall have the right at his own discretion or by tendering procedure to select; LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders

CC, art. 6.644-6.645 - contract of independent work, art. 6.681-6.699 - a contract of construction independent work, art. 6.706 - Content of contract of independent work formed on the basis of a public tender; LPP, art. 15 - Contract

LPP, art. 18-35 - Procedure, art. 37-38 art. - Open Procedure, art. 39-43 art. - Restricted Procedures, art. 44-51 art. - Negotiated Procedure; art. 64-77 - Simplified Procurement Procedures, art. 78-81 - Simplified Open Procedure, art. 82-88 - Simplified Restricted Procedure, art. 89-95 - Simplified Negotiated Procedure

LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders

CC, art. 6.644-6.645 - contract of independent work, art. 6.681-6.699 - a contract of construction independent work, art. 6.706 - Content of contract of independent work formed on the basis of a public tender; LPP, art. 15 - Contract

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

4	1	CONSTRUCTION PHASE	
		Organization of the construction works	
		1	Appointment of the construction team manager
		2	Appointment of the other key persons of the construction team
		3	Planning the cost
		4	Creation of the schedule for the construction works
		5	Task division between contractors
		7	Contracting the goods and services

STR 1.08.02:2002, ch. IX - Construction operations: headship for construction works	LC, art. 15.5 - Duties of the Contractor; STR 1.08.02:2002, ch. IX - Construction operations: headship for construction works, ch. XII-XV - heads of construction works, their rights and duties
STR 1.08.02:2002, ch. IX - Construction operations: headship for construction works	STR 1.08.02:2002, ch. IX - Construction operations: headship for construction works, ch. XII-XV - heads of construction works, their rights and duties
CC, art. 6.684 - estimates	CC, art. 6.684 - estimates
CC, art. 6.652 - Time-limits for the fulfilment of work	CC, art. 6.652 - Time-limits for the fulfilment of work
	CC, art. 6.650 - General independent work contractor and subcontractor
LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders	CC, art. 6.650 - General independent work contractor and subcontractor; LPP, art. 28-32 art. - requirements for candidates, art. 33-35 - Evaluation and Comparison of Tenders
CC, art. 6.647-6.648 - Fulfilment of work from the materials and by the means of the independent work contractor, Fulfilment of work from the materials of the customer, 6.686 art. - Provision of construction with materials and equipment	CC, art. 6.647-6.648 - Fulfilment of work from the materials and by the means of the independent work contractor, Fulfilment of work from the materials of the customer, 6.686 art. - Provision of construction with materials and equipment

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
---------------------	--

2	8	Setting the health and safety plan
	9	Setting the quality management plan
	Preparation of the construction site	
	1	Surveying
	2	Jobsite access
	3	Grading
	4	Jobsite space allocation
5	Temporary facilities	
6	Jobsite security (temporary fencing, security personnel, signade and barricades, etc.)	
7	Other	
3	Development of relevant construction works	

		<p>CC, art. 6.692 - protection of environment and ensuring safety of work; LC, art. 15.5.5 - Duties of the Contractor: ensure conditions on the construction plot and at a construction works under construction</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p> <p>LC, art. 19 art. - Construction Investigations, art. 6 - Protection of the Environment, Landscape and other Types of Properties</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p> <p>CC, art. 6.692 - protection of environment and ensuring safety of work; LC, art. 15.5.5 - Duties aof the Contractor: ensure conditions on the construction plot and at a construction works under construction</p> <p>STR 1.08.02:2002, ch. VII - Construction operations: steps of construction works</p>
--	--	---

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

CODIFICATION	DESCRIPTION	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
4	Control of construction works	CC, art. 6.689 - Right of the customer to control and supervise construction work; LC, art. 12.1.5 - Duties of the Builder (Client): organise and carry out technical supervision of the construction, art. 27 - State Supervision of Construction, art. 31 art. - Supervision of the Implementation of a Design documentation of a construction works; STR 1 . 09 . 04 : 2002 Supervision of the implementation of a design documentation of a construction works, STR 1 . 09 . 05 : 2002 Technical supervision of construction of a construction works; STR 1 . 08 . 02 : 2002 Construction operations: supervision of construction works		CC, art. 6.690 art. - Participation of the projecting institutions; LC, str. 14 - Duties and Rights of the Designer: by builder's (client's) order and under the contract carry out supervision of the implementation of a design documentation of a construction works; art. 16 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works, art. 27 art. - State Supervision of Construction, art. 30 - Technical Supervision of Construction, art. 31 - Supervision of the Implementation of a Design documentation of a construction works ; STR 1 . 09 . 04 : 2002 Supervision of the implementation of a design documentation of a construction works, STR 1 . 09 . 05 : 2002 Technical supervision of construction of a construction works; STR 1 . 08 . 02 : 2002 Construction operations: supervision of construction works
1	Control of resources	CC, art. 6.689 - Right of the customer to control and supervise construction work		LC, art. 16.2, 16.3 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works
2	Control of deliveries and suppliers		LC, art. 18 art. - Rights and Duties of Suppliers of Construction Products	
3	Control of quality (iso 9000)			LC, art. 16.2, 16.3 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works
4	Control of health and safety		LC, art. 4 - Essential Requirements for a Construction Works	LC, art. 4 - Essential Requirements for a Construction Works, art. 16.2, 16.3 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works
5	Control of environmental issues		LC, art. 6 - Protection of the Environment, Landscape and other Types of Properties	LC, art. 6 - Protection of the Environment, Landscape and other Types of Properties

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	
--------------	--

5	1	6	Control of time
		7	Control of costs / budget
		8	Control of changes
		HANDING OVER AND START-UP PHASE	
		1	Closing – out and handing over Contractor notifies the termination of construction works
		2	Consultant inspects the infrastructure
		3	Consultant compiles a list of remaining works (or repairs) to be done
		4	Contractor completes the remaining works or makes the repairs
		5	Engineer issues certificate of substantial completion

CC, art. 6.652 - Time-limits for the fulfilment of work, art. 6.689 - Right of the customer to control and supervise construction work	CC, art. 6.652 - Time-limits for the fulfilment of work	
	CC, art. 6.662 - Acceptance of work fulfilled, art. 6.694 - Handing over and acceptance of work	
		LC, art. 16 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works, 17 art. - sart. 17 - Duties and Rights of the Manager of Design of a Construction Works and the Manager of construction of a construction works
LC, art. 17 - Duties and Rights of the Manager of Design of a Construction Works and the Manager of construction of a construction works		LC, art. 16.3 - The demand of the technical supervisor of construction of a construction works to correct any violations
		LC, art. 16.3 - The demand of the technical supervisor of construction of a construction works to correct any violations
CC, art. 6.699 - Elimination of defects	CC, art. 6.699 - Elimination of defects; LC, art. 16.3 - Requirements of the technical supervisor of construction of a construction works to correct any violations; art. 16.4 - if the contractor fails to meet the requirements	

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E

CODIFICATION	

6	Formal handing over of the infrastructure	CC, art. 6.662 - Acceptance of work fulfilled, art. 6.694 - Handing over and acceptance of work; LC, art. 24 - Accepting a Construction Works as Fit for Use; LEP, art. 18 - Commissioning of Newly-built, Reconstructed and Expanded Economic Facilities	CC, art. 6.662 - Acceptance of work fulfilled, art. 6.694 - Handing over and acceptance of work; LC, art. 15 - Duties and Rights of the Contractor: participate in acceptance of a construction works as fit for use; LEP, art. 18 - Commissioning of Newly-built, Reconstructed and Expanded Economic Facilities	LC, art. 14 - Duties and Rights of the Designer: participate in acceptance of a construction works as fit for use, art. 16 - Duties and Rights of the Technical Supervisor of Construction of a Construction Works: jointly with the contractor prepare documents for accepting the construction works as fit for use and participate during the acceptance of the construction works as fit for use
7	Taking over of the infrastructure by the client	CC, art. 6.662 - Acceptance of work fulfilled, art. 6.694 - Handing over and acceptance of work	CC, art. 6.662 - Acceptance of work fulfilled, art. 6.694 - Handing over and acceptance of work; LC, art. 15 - Duties and Rights of the Contractor: participate in acceptance of a construction works as fit for use	
8	Economic close-out of the contract between client and contractor, or when apply – client represented by consultant (final payment and release of retainage or warranty)	CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, art. 6.664-6.667 - Guarantee of the quality of work; art. 6.687 - Payment for work	CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, art. 6.664-6.667 - Guarantee of the quality of work; art. 6.687 - Payment for work, art. 6.697 - Guarantee of the quality of work, art. 6.703-6.704 - Liability of the independent work contractor and Duties of the customer; LC, art. 36 - Warranty Period of a Construction Period: Obligations of the Contractor, art. 39 - Compulsory Insurance of Civil Liability of the Contractor	
9	Termination of direction works			
10	Economic close-out of the contract between client and consultant (final payment and release of retainage or warranty)	CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, 6.704 - Duties of the customer		CC, art. 6.653-6.656 - Price of work, Procedure for payment of work, art. 6.697 art. - Guarantee of the quality of work; LC, art. 36 - Warranty Period of a Construction Period: Obligations of the Designer and Technical Supervisor of Construction of a Construction Works during a Warranty Period

CODIFICATION	
--------------	--

2	Start-up of the infrastructure operations
---	--

DENOMINATION USED IN THESE PROCEDURES	CLIENT	CONTRACTOR	ENGINEER / DESIGNER / CONSULTANT
OTHER DENOMINATIONS	PROMOTER - OWNER - DEVELOPER - EMPLOYER		DIRECTOR (INSPECTOR OR SUPERVISOR) OF WOKS - CONSULTANT - PROJECT MANAGER
ORGANIZATION	PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEER COMPANY
CODIFICATION	P	C	E
	LC, art. 6 - Protection of the Environment, Landscape, of Interests of the Third Parties, art. 40 - Duties of the Users; LEP, art. 19 - Operation of Economic Facilities; STR 1.11.01:2002 Acceptance of construction works as fit for use	STR 1.11.01:2002 Acceptance of construction works as fit for use	LC, art. 41 and 42 - technical supervision of the construction and supervision of use; STR 1.11.01:2002 Acceptance of construction works as fit for use

ANNEX 4: SPANISH PROCEDURES

The **normative** considered have been divided in several **groups**:

- a) **Procedures for tendering and contracting** (in **BLUE**):
LAP: Contract Law for Public Agencies (2/2000)
RAP: Regulation of the Contract Law for Public Agencies (1098/2001)
- b) **Procedures for safety and health in construction** (a general Law, applicable to every industry, a Regulation that develops it, and a specific Regulation for the construction industry, in **RED**):
LPR: Occupational Risks Prevention Law (31/1995)
RPR: Regulation of the Occupational Risks Prevention Law (39/1997)
DMS: Regulation of Occupational Risks Prevention in Construction Works (1627/1997)
- c) **Procedures for environmental impact assessment** (the Law and Regulation of the Central Administration in **GREEN**, regional governments' laws and regulations are not considered):
LIA: Environmental Impact Assessment Law (1302/1986 & 6/2001)
RIA: Regulation of the Environmental Impact Assessment Law (1131/1988)
- d) **Procedures for civil engineering and building infrastructures** (several laws and regulations in **BLACK**):
LCR: Roads Law (25/1988)
LAG: Water Management Law (1/2001)
LCS: Seashore Law (22/1988)
LPT: Harbours Law (62/1997)
LTT: Transportation Law (16/1987)
LFC: Railways Law (39/2003)
LOE: Building Law (38/1999)
- e) **Procedures of the European Union** (used as general reference in tendering and contracting and safety and health, in **ORANGE**):
EU018: Directive on the coordination of procedures for the award of public works contracts, public supply contracts and public service contracts (2004/18/EC)
EU391: Directive on the introduction of measures to encourage improvements in the safety and health of workers at work (1989/391 CEE)
EU383: Directive supplementing the measures to encourage improvements in the safety and health at work of workers with a fixed- duration employment relationship or a temporary
EU057: Directive on the implementation of minimum safety and health requirements at temporary or mobile construction sites (1992/57 CEE)
EU085: Directive on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are
EU033: Directive on the protection of young people at work (1994/33 CEE)

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

1			CONCEPTUAL PHASE
1	1		Initiation of the project
		1	Analysis of needs
		2	Constraints identification
		3	Conception of the project
		4	Financial assessment
		5	Formulation of goals and scope of the project
		6	Analysis of alternatives
		7	Development of implementation plan
		8	Formal acceptance of the project by EU relevant authority

LCR, art.5_Roads planning; LAG, art.40-46_Water management planning; LPT, art.18_Harbour system planning; LTT, art.15-16_Transportation planning; LFC, art.5.1_Railways planning		
LAP, art.227_Feasibility analysis; LCR, art.13_Financing; LCS, art.82-83_Financing		
RAP, art.121-123_Preliminary design project and basic design project; LCS, art.42.1_Coastal engineering basic design project; LFC, art.5.2-5.6_Railways preliminary design project		
RAP, art.121-123_Preliminary design project and basic design project; LCS, art.42.1_Coastal engineering basic design project; LFC, art.5.2-5.6_Railways preliminary design project		
RAP, art.122_Basic design project; LIA, art.1_Environmental impact assessment; RIA, art.5-6_Environmental impact assessment; LFC, art.7.1,2&3_Urban planning and railway infrastructures		
LIA, art.6_Environmental impact assessment affecting several countries; RIA, art.23-24_Environmental impact assessment with transboundary effects		

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2			DESIGN PHASE
2	1		Organization of the tender for the contract: DESIGN (CEA company) or DESIGN-BUILT (construction company)
		1	Choosing the form of the contract

<p>LAP, art.13_Contrat purpose; LAP, art.14_Contract price; RAP, art.197_Prices; LAP, art.15-16_Conditions for contracting; RAP, art.9-14_Conditions for contracting; LAP, art.202_Reasons for contracting; LAP, art.67-69_Preparatory actions for contracting; RAP, art.73_Preparatory actions for contracting; LAP, art.48-52_Administrative and technical specifications; RAP, art.66-70_Administrative and technical specifications; LAP, art.70-72_Documentation procedures; LAP, art.73-75, 207-208_Contract procedures;</p> <p>LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Competitive dialogue and negotiated procedures; RAP, art.91-93_Competitive dialogue and negotiated procedures; LAP, art.76-77_Proceedings; LAP, art.198_Contract duration, RAP, art.91-92_Contract duration; LAP, art.201_Invoice as contract; LAP, art.208-210_Contract procedures; LAP, art.197_Conditions for participation; RAP, art.19_Conditions for participation; EU018, art.1_Definitions related to public contracts; EU018, art.23_Technical specifications; EU018, art.28-31_Contract procedures</p>	<p>LAP, art. 120_Public works contract; LAP, art. 125_Design-build; LAP, art. 122_Design project</p>	<p>LAP, art. 196_Consulting services contract; LAP, art. 122_Design project; LOE, art.4_Design project for buildings</p>
---	--	--

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2	1	2	Running the tender for the contract by the client
		3	Choosing the relevant company
		4	Signing the contract with the relevant company

<p>LAP, art. 79-80_Receipts of tenders; RAP, art.80-85_Receipts of tenders; LAP, art.35_Provisional warranty; LAP, art. 41-46_Warranties; RAP, art.55-64_Warranties; EU018, art.35-36_Publication of notices; EU018, art.38_Time limits for receipts; EU018, art.40_Invitation to submit tenders</p>		<p>LAP, art. 79-80_Receipts of tenders; RAP, art.80-85_Receipts of tenders; LAP, art.35_Provisional warranty; LAP, art. 41-46_Warranties; RAP, art.55-64_Warranties; EU018, art.38_Time limits for receipts; EU018, art.40_Invitation to submit tenders</p>
<p>LAP, art.78, RAP, art.74-78_Publicity; LAP, art.81_Contracting board, RAP art.79_Contracting board; LAP, art.82-84_Awarding for lowest price; RAP art.85-87_Awarding for lowest price; LAP, art.85-90_Awarding for multiple criteria; RAP, art.88-90_Awarding for multiple criteria; LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Competitive dialogue and negotiated procedures, RAP, art.91-93_Competitive dialogue and negotiated procedures; EU018, art.28-31_Contract procedures; EU018, art.41_Informing tenderes; EU018, art.42_Communication; EU018, art.43_Reports; EU018, art.44_Verification of suitability of participants; EU018, art.45-50_Criteria for qualitative selection; EU018, art.53_Contract award criteria; EU018, art.55_Abnormally low tenders</p>		
<p>LAP, art.93_Notification of contract award; LAP, art.53-58_Signing the contract; LAP, art.36,37,41-47_Final warranty, RAP, art.55-65_Warranties; LAP, art.94-102_Performance and modification of contracts</p>		<p>LAP, art.53-58_Signing the contract; LAP, art.36-47_Final warranty; RAP, art.55-65_Final warranty; LAP, art.211-212_Performance and modification of contracts; RAP, art.198-202_Performance and modification of contracts</p>

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2	2	1	Organization of the design team Appointment of the design team manager
		2	Scope definition
2	2	3	Activity planning
		4	Resource planning (for the design team)
		5	Cost estimating
		6	Schedule development (for design)
		7	Setting the hierarchic structure of the design project
		8	Setting the co-operation structure of the design project

<p>DMS, art.2.1.d)_Appointment of design team manager; DMS, art.3.1_Appointment of coordinator for safety and health; LOE, art.9_Promoter; EU057, art.3.1_Appointment of coordinator for safety and health</p>		<p>LAP, art.19_Technical team; DMS, art.2.1.d)_Appointment of design team manager; DMS, art.3.1_Appointment of coordinator for safety and health matters; LOE, art.10_Designer; EU057, art.3.1_Appointment of coordinator for safety and health</p> <p>LAP, art.124_Design project contents; RAP, art.124-133_Design project contents; LIA, art.2_Environmental impact assessment contents; RIA, art.7-12_Environmental impact assessment contents; LCR, art.7_Roads design project; LCR, art.8.3_Contents of a roads design project; LCS, art.42.4_Economic studies for coastal engineering projects; LCS, art.43-44_Coastal engineering design project; LTT, art.152_Railways design project; LFC, art.6_Railways basic design project and design project; LOE, art.4_Buildings design project</p>
--	--	--

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2	3	Development of design
		1 Surveying
		2 Basic information: urban planning, geology, hidrology, etc.
		3 Environmental analysis
		4 Calculations
		5 Drafting
		6 Technical specifications
		7 Scheduling and resource planning (for construction)
		8 Quality management plan
		9 Health and safety plan
		10 Budgeting
11 Draft documents - editing, printing and binding		
2	4	Control of design
		1 Control of resources
		2 Control of quality (ISO 9000)
		3 Control of time
		4 Control of costs
		5 Control of changes

		LAP, art.127_Technical specifications; LOE, art.3_Technical specifications for buildings
		RAP, art.145_Testing of materials and work units
DMS, art.4_Obligatory nature of the study of safety and health; DMS, art.5.1&6.1_ Elaboration of a study of safety and health		DMS, art.4_Obligatory nature of the study of safety and health; DMS; art.5.1&6.1_Elaboration of a study of safety and health; DMS, art.5.2&6.2_ Elaboration and contents of a study of safety and health
RAP, art.198_Work schedule RAP, art.199-201_Budgeting RAP, art.202_New prices		RAP, art.198_Work schedule RAP, art.199-201_Budgeting RAP, art.202_New prices

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2	5	Approval of the relevant documents by authorities affected
2	6	Closing – out and handing over (of design documents)
	1	Inspection by client
	2	Implementation of changes due to inspection by client
	3	Final documents - editing, printing and binding

<p>LIA, art.3-4_Procedure for environmental impact assessment; RIA, art.13-22_Procedure for environmental impact assessment; LCR, art.6_Report on compliance of roads design projects; LCR, art.9_Procedure for environmental impact assessment; LCR, art.10.1_Compilance of regional governments and local agencies; LCR, art.10.2_Initial approval; LCR, art.10.4_Public exposition of design project; LCR, art.11_Expropriations; LAG, art.100-102,106&108bis_Requirement for landfill activities; LAG, art.129_Procedure for environmental impact assessment; LPT, art.19_Construction works in public domain (harbours); LPT, art.20.2&21.1_Procedure for environmental impact assessment; LPT, art.21.2_Requirements for dredging works; LCS, art.42.3&45_Public exposition of design project; LCS,art.51-52&55_Licences for activities in seashore domain; LCS, art.63_Requirements for dredging; LFC, art.7.3_Expropriations; LFC, art.7.4&5_Licences for activities in railways domain; LOE, art.5_Licences for activities in building</p>		
<p>LAP, art.128_Inspection of design project; RAP, art.135-137_Inspection of design project</p>		
		<p>LAP, art.217-219_Making up for deficiencies and responsibilities; RAP, art.203_Handling over of design documents</p> <p>RAP, art.203_Handling over of design documents</p>

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

2	6	4	Approval by client
		5	Formal handing over of the design project
		6	Taking over of the design project by the client
		7	Economic close-out of the contract (final payment and release of retainage or warranty)

<p>RAP, art.134_Approval of design project; LCR, art.8.1_Approval of roads design project; LAG, art.130_Approval of hydraulic works design project; LPT, art.20.1,21.1&22.1_Approval of harbour design project; LCS, art.45.2&3_Approval of coastal engineering design project; LTT, art.152_Approval of railways design project; LFC, art.6.2,8.4,&9.2_Approval of railways design project</p> <p>LAP, art.110_Formal receiving of design project; RAP, art.204_Formal receiving of design project; LAP, art.213_Contract fulfilment</p> <p>LAP, art.110.4_Economic close-out of the contract; LAP, art.109_End of contract; LAP, art.129_Geometric verification of design project</p>		<p>LAP, art.110_Formal receiving of design project; RAP, art.204_Formal receiving of design project; LAP, art.213_Contract fulfilment</p> <p>LAP, art.110.4_Economic close-out of the contract; LAP, art.109_End of contract; LAP, art.129_Geometric verification of design project</p>
---	--	---

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

3			PRE-CONSTRUCTION PHASE
3	1		Organisation of the tender for consultant (CEA company)
		1	Running the tender for consultant by the client

<p>LAP, art.13_Contrat purpose; LAP, art.14_Contract price; RAP, art.197_Prices; LAP, art.15-16_Conditions for contracting; RAP, art.9-14_Conditions for contracting; LAP, art.202_Reasons for contracting; LAP, art.67-69_Preparatory actions for contracting; RAP, art.73_Preparatory actions for contracting; LAP, art.48-52_Administrative and technical specifications; RAP, art.66-70_Administrative and technical specifications; LAP, art.70-72_Documentation procedures; LAP, art.73-75, 207-208_Contract procedures; LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Compertitive dialogue and negotiated procedures; RAP, art.91-93_Compertitive dialogue and negotiated procedures; LAP, art.76-77_Proceedings;</p> <p>LAP, art.198_Contract duration, RAP, art.91-92_Contract duration; LAP, art.201_Invoice as contract; LAP, art.208-210_Contract procedures; LAP, art.197_Conditions for participation; RAP, art.19_Conditions for participation; LAP, art.79-80_Receipts of tenders; RAP, art.80-85_Receipts of tenders;</p> <p>LAP, art.35_Provisional warranty; LAP, art.41-46_Warranties; RAP, art.55-64_Warranties;</p> <p>EU018, art.1_Definitions related to public contracts; EU018, art.23_Technical specifications; EU018, art.28-31_Contract procedures; EU018, art.35-36_Publication of notices; EU018, art.38_Time limits for receipts; EU018, art.40_Invitation to submit tenders</p>		<p>LAP, art.196_Consulting services contract; LAP, art.122_Design project; LAP, art.79-80_Receipts of tenders; RAP, art.80-85_Receipts of tenders; LAP, art.35_Provisional warranty; LAP, art.41-46_Warranties; RAP, art.55-64_Warranties; LOE, art.4_Design project for buildings; EU018, art.38_Time limits for receipts; EU018, art.40_Invitation to submit tenders</p>
--	--	--

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

3	1	2	Choosing the consultant
		3	Signing the contract with the consultant

<p>LAP, art.78, RAP, art.74-78_Publicity; LAP, art.81_Contracting board, RAP art.79_Contracting board; LAP, art.82-84_Awarding for lowest price; RAP art.85-87_Awarding for lowest price; LAP, art.85-90_Awarding for multiple criteria; RAP, art.88-90_Awarding for multiple criteria; LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Competitive dialogue and negotiated procedures, RAP, art.91-93_Competitive dialogue and negotiated procedures; DMS, art.2.1.g)_Appointment of consultant; DMS, art.3.2_Appointment of coordinator for safety and health; EU018, art.28-31_Contract procedures; EU018, art.41_Informing tenderes; EU018, art.42_Communication; EU018, art.43_Reports; EU018, art.44_Verification of suitability of participants; EU018, art.45-50_Criteria for qualitative selection; EU018, art.53_Contract award criteria; EU018, art.55_Abnormally low tenders; EU057, art.3.1)_Appointment of coordinator for safety and health</p>		<p>DMS, art.2.1.g)_Appointment of consultant; DMS; art.3.2_Appointment of coordinator for safety and health; EU057, art.3.1)_Appointment of coordinator for safety and health</p>
<p>LAP, art.93_Notification of contract award; LAP, art.53-58_Signing the contract; LAP, art.36,37,41-47_Final warranty, RAP, art.55-65_Warranties; LAP, art.94-102_Performance and modification of contracts</p>		<p>LAP, art.53-58_Signing the contract; LAP, art.36-47_Final warranty; RAP, art.55-65_Final warranty; LAP, art.211-212_Performance and modification of contracts; RAP, art.198-202_Performance and modification of contracts</p>

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

3	2		Organisation of the tender for contractor (construction company) (if the DESIGN-BUILT contract was NOT chosen in point 2.1)
		1	Choosing the tender method for contractor

<p>LAP, art.13_Contrat purpose; LAP, art.14_Contract price; RAP, art.197_Prices; LAP, art.15-16_Conditions for contracting; RAP, art.9-14_Conditions for contracting; LAP, art.202_Reasons for contracting; LAP, art.67-69_Preparatory actions for contracting; RAP, art.73_Preparatory actions for contracting; LAP, art.48-52_Administrative and technical specifications; RAP, art.66-70_Administrative and technical specifications; LAP, art.70-72_Documentation procedures; LAP, art.73-75, 207-208_Contract procedures;</p> <p>LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Compertitive dialogue and negotiated procedures; RAP, art.91-93_Compertitive dialogue and negotiated procedures; LAP, art.76-77_Proceedings; LAP, art.198_Contract duration, RAP, art.91-92_Contract duration; LAP, art.201_Invoice as contract; LAP, art.208-210_Contract procedures; LAP, art.197_Conditions for participation; RAP, art.19_Conditions for participation; EU018, art.1_Definitions related to public contracts; EU018, art.23_Technical specifications; EU018, art.28-31_Contract procedures</p>	<p>LAP, art.120_Public works contract; LAP, art.25-33_Classification of companies; RAP, art.25-36_Classification of companies; LAP, art.135_Publicity</p>	
---	---	--

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION

		2	Running the tender for contractor
3	2	3	Choosing the contractor
		4	Signing the contract with the construction company

<p>LAP, art. 79-80_Receipts of tenders; RAP, art.80-85_Receipts of tenders; LAP, art.35_Provisional warranty; LAP, art. 41-46_Warranties; RAP, art.55-64_Warranties; EU018, art.35-36_Publication of notices; EU018, art.38_Time limits for receipts; EU018, art.40_Invitation to submit tenders</p>	<p>LAP, art.53-58_Signing the contract; LAP, art.36-47_Final warranty; RAP, art.55-65_Final warranty; LAP, art.211-212_Performance and modification of contracts; RAP, art.198-202_Performance and modification of contracts</p>
<p>LAP, art.78, RAP, art.74-78_Publicity; LAP, art.81_Contracting board, RAP art.79_Contracting board; LAP, art.82-84_Awarding for lowest price; RAP art.85-87_Awarding for lowest price; LAP, art.85-90_Awarding for multiple criteria; RAP, art.88-90_Awarding for multiple criteria; LAP, art.91_Restricted procedure; RAP, art.91-92_Restricted procedure; LAP, art.92_Competitive dialogue and negotiated procedures, RAP, art.91-93_Competitive dialogue and negotiated procedures; EU018, art.28-31_Contract procedures; EU018, art.41_Informing tenderes; EU018, art.42_Communication; EU018, art.43_Reports; EU018, art.44_Verification of suitability of participants; EU018, art.45-50_Criteria for qualitative selection; EU018, art.53_Contract award criteria; EU018, art.55_Abnormally low tenders</p>	<p>LAP, art.53-58_Signing the contract; LAP, art.36-47_Final warranty; RAP, art.55-65_Final warranty; LAP, art.211-212_Performance and modification of contracts; RAP, art.198-202_Performance and modification of contracts</p>
<p>LAP, art.93_Notification of contract award; LAP, art.53-58_Signing the contract; LAP, art.36,37,41-47_Final warranty, RAP, art.55-65_Warranties; LAP, art.94-102_Performance and modification of contracts</p>	<p>LAP, art.53-58_Signing the contract; LAP, art.36-47_Final warranty; RAP, art.55-65_Final warranty; LAP, art.211-212_Performance and modification of contracts; RAP, art.198-202_Performance and modification of contracts</p>

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

4			CONSTRUCTION PHASE
4	1		Organization of the construction works
		1	Appointment of the construction team manager
		2	Appointment of the other key persons of the construction team
		3	Planning the cost
		4	Creation of the schedule for the construction works
4	1	5	Task division between contractors
		6	Choosing the suppliers and subcontractors
		7	Contracting the goods and services
		8	Setting the health and safety plan
		9	Setting the quality management plan
4	2		Preparation of the construction site
		1	Surveying
		2	Jobsite access
		3	Grading
		4	Jobsite space allocation
		5	Temporary facilities

LOE, art.9_Promoter	LAP, art.19_Technical team	LOE, art.12-13_Director or inspector of works
	LAP, art.19_Technical team; LOE, art.11_Contractor	
	RAP, art.144_Work schedule	
	LAP, art. 115-116_Subcontracting; EU018, art.25_Subcontracting	
	DMS, art.7.1_Setting the health and safety plan; EU057, art.3.2_ Setting the health and safety plan	DMS, art.7.2_ Approval of the health and safety plan; EU057, art.3.2_ Setting the health and safety plan
	RAP, art.145_Testing of materials and work units	
LAP, art.142_Checking of geometric verification of design project; RAP, art.139-141_Checking of geometric verification of design project	LAP, art.142_Checking of geometric verification of design project; RAP, art.139-141_Checking of geometric verification of design project	LAP, art.142_Checking of geometric verification of design project; RAP, art.139-141_Checking of geometric verification of design project

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

4	2	6	Jobsite security (temporary fencing, security personnel, signage and barricades, etc.)
---	---	---	--

	<p>LPR, art.14.2_Workers' safety and health assurance; LPR, art.14.3_Applying normative of labor risks prevention; LPR, art.16_Planning preventive action according to risks assessment; LPR, art.18_Adopting the necessary measures to inform workers; LPR, art.19_Training of workers; LPR, art.21_Information for workers; LPR, art.24_Coordination of prevention activities with other contractors; LPR, art.26_Protection of pregnant workers; LPR, art. 27_Protection of young workers;</p> <p>DMS, art.10_Application of general principles during construction; DMS, art.11.1.c)_ Application of normative in labor risk prevention; DMS, art.11.1.d)_ Information for workers of measures to be taken; DMS, art.12.1_Obligations of independent workers; DMS, art.15_Information for workers of measures to be taken; DMS, art.16_Participation of workers; RPR, art.2.1_Implementation of a plan for risk prevention that includes organizational structure, functions, practices and procedures; RPR, art.3.2_Discussion with workers about procedures for risks assessment; RPR, art.5.1_Identification of dangerous elements and workers exposed; RPR, art.8_Planning preventive activities according to risks assessment;</p>	DMS, art. 11.1 c)_Application of normative in prevention of labor risks
--	---	---

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

4	2	6	
		6	
		7	Other
4	3		Development of relevant construction works

	<p>EU057, art.9.a)_Applying health and safety measures in construction; EU057, art.11.1_Information for workers; EU391, art.5.1_Ensurance of safety and health; EU391, art.6.1&6.2_Measures for ensurance of safety and health; EU391, art.6.3_ Evaluation of labor risks; EU391, art.7.1_Designation of one or more workers to carry out activities related to protection and prevention of occupational risks; EU391, art.8.1_Measures for first aid, fire-fighting and evacuation of workers; EU391, art.8.3.a)_Information for workers exposed to risks; EU391, art.9.1.a)_ Risks assessment at work; EU391, art.9.1.b)_Protective measures to be taken and equipment to be used; EU391, art.10_ Information for workers; EU391, art.11.1_Discussion with workers on questions relating to safety and health; EU391, art.12_Training of workers;</p> <p>EU391, art.15_ Protection of particularly sensitive risk groups; EU383, art 3.1_Information for workers; EU383, art.4_Training of workers; EU383, art.5_Medical surveillance of workers; EU033, art.6.1_ Measures to protect the safety and health of young people; EU033, art.6.2_Assessment of hazards of young people at work; EU033, art.6.3_Information for young people of risks prevention</p> <p>LOE, art.15_Suppliers</p>	
	<p>LAP, art.143_Construction works; RAP, art.142_Incidences and permissions; LPR, art. 15_Application of preventive actions in health and safety; DMS, art.11.1.a)_Application of preventive actions in health and safety</p>	<p>LAP, art.143_Construction works; RAP, art.142_Incidences and permissions</p>

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER - EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

4	4	Control of construction works
	1	Control of resources
	2	Control of deliveries and suppliers
	3	Control of quality (iso 9000)
4	4	Control of health and safety
	4	
	5	Control of environmental issues
	6	Control of time

	RAP, art.145_Testing of materials and work units; LOE, art.14_Quality control laboratories	RAP, art.145_Testing of materials and work units; LOE, art.14_Quality control laboratories
	LPR, art.17_Checking of teams work and means of protection; LPR, art.20_Analyzing possible emergency situations and adopting the necessary measures; LPR, art.22_Workers periodic health monitoring; LPR, art. 23_Document obligations of safety and health; DMS, art.11.1.b)_Safety and health plan; DMS, art.11.1.e)_Coordinator for safety and health; DMS, art.11.2_Checking the preventive measures fixed by the safety and health plan;	DMS, art.11.2_Checking the preventive measures fixed by the safety and health plan; DMS, art.13_Book of incidences; DMS, art.14_Suspension of construction works; RPR, art.6.1_Checking of risks assessment; RPR, art.29.1_Obligatory audits
	EU057, art.9.1.b)_Coordinator for safety and health matters, EU391, art.9.1.c)_Keeping a list of occupational accidents; EU391, art.9.1.d)_Report all occupational accidents suffered by workers	
	LIA, art.7_Inspection; RIA, art.25-27_Inspection; LIA, art.9-10_Suspension of activities and compensations; RIA, art.28-29_Suspension of activities and compensations	LIA, art.7_Inspection; RIA, art.25-27_Inspection
	RAP, art.144_Work schedule	RAP, art.144_Work schedule

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION	
---------------------	--

5	1	7	Control of costs / budget
		8	Control of changes
HANDING OVER AND START-UP PHASE			
Closing – out and handing over			
		1	Contractor notifies the termination of construction works
		2	Consultant inspects the infrastructure
		3	Consultant compiles a list of remaining works (or repairs) to be done
		4	Contractor completes the remaining works or makes the repairs
		5	Consultant issues certificate of substantial completion

	LAP, art.145_Certificates for payments and payments in advance; RAP art.150-152_Certificates for payment; RAP, art.155-156_Payments in advance; RAP, art.147_Measurements; RAP, art.148_Assessment for payment; RAP, art.149_Audience of contractor; RAP, art.153_Prices and expenses	LAP, art.145_Certificates for payments and payments in advance; RAP art.150-152_Certificates for payment; RAP, art.155-156_Payments in advance; RAP, art.147_Measurements; RAP, art.148_Assessment for payment; RAP, art.149_Audience of contractor; RAP, art.153_Prices and expenses
	LAP, art.146_Contract modifications; RAP, art.158-162_Contract modifications; LAP, art.143_Construction works; RAP, art.142_Incidences and permissions; RAP, art.143_Temporary occupation; LAP, art.144_Dire necessity; RAP, art.146_Dire necessity; RAP, art.170-171_Construction works suspension; RAP, art.172_Legal ruling of contract	LAP, art.146_Contract modifications; RAP, art.158-162_Contract modifications; LAP, art.143_Construction works; RAP, art.142_Incidences and permissions; RAP, art.143_Temporary occupation; LAP, art.144_Dire necessity; RAP, art.146_Dire necessity; RAP, art.170-171_Construction works suspension; RAP, art.172_Legal ruling of contract
	RAP, art.163.1_Notification of termination of construction works	RAP, art.163.2_Approval report RAP, art.163.2_Approval report
	LAP, art. 147.2_Construction works final condition	
RAP, art.163.2_Approval report; RAP, art.164.1_Formal statement of handing over; LOE, art.6_Certificate of substantial completion in buildings	RAP, art.164.1_Formal statement of handing over; LOE, art.6_Certificate of substantial completion in buildings	RAP, art.164.1_Formal statement of handing over; LOE, art.6_Certificate of substantial completion in buildings

CLIENT	CONTRACTOR	CONSULTANT
PROMOTER - OWNER - DEVELOPER EMPLOYER		ENGINEER / DESIGNER / DIRECTOR (INSPECTOR OR SUPERVISOR) OF WORKS - PROJECT MANAGER
PUBLIC AGENCY	CONSTRUCTION COMPANY	CONSULTING ENGINEERING & ARCHITECTURAL (CEA) COMPANY
P	C	E

CODIFICATION

5	1	6	Formal handing over of the infrastructure
		7	Taking over of the infrastructure by the client
		8	Economic close-out of the contract between client and contractor, or when apply – client represented by consultant (final payment and release of retainage or warranty)
		9	Termination of direction (inspection or supervision) of works
		10	Economic close-out of the contract between client and consultant (final payment and release of retainage or warranty)
5	2		Start-up of the infrastructure operations

LAP, art.147_Handing over of construction works and warranties; RAP, art.164.2_Formal statement of handing over; RAP, art.165_Handing over of partial works; LOE, art.6_Handing over of buildings; LOE, art.17-18_Civil liability	LAP, art.147_Handing over of construction works and warranties; LAP art.148_Contractor responsibility; RAP, art.164.2_Formal statement of handing over; RAP, art.165_Handing over of partial works; RAP, art.167_Duties during warranty time; LOE, art.6_Handing over of buildings; LOE, art.17-18_Civil liability; LOE, art.19_Warranties due to construction defects	LAP, art.147_Handing over of construction works and warranties; RAP, art.164.2_Formal statement of handing over; RAP, art.165_Handing over of partial works; LOE, art.6_Handing over of buildings; LOE, art.17-18_Civil liability
RAP, art.173_Taking over and registration of the infrastruttura by the client; LOE, art.7_Infrastructure (building) documentation; LOE, art.20_Building registration requirements		LOE, art.7_Infrastructure (building) documentation
RAP, art.166_Final measurement of the construction works and final certificate for payment; RAP, art.169_Economic close-out of the contract; LAP, art.149-151_End of contract	RAP, art.166_Final measurement of the construction works and final certificate for payment; RAP, art.169_Economic close-out of the contract; LAP, art.149-151_End of contract	RAP, art.166_Final measurement of the construction works and final certificate for payment; RAP, art.169_Economic close-out of the contract
LAP, art.110_Handing over of consulting services; RAP, art.204_Handing over of consulting services; LAP, art.110-113, 214-215_Contract fulfilment; RAP, art.135-137_Contract fulfilment		LAP, art.110_Handing over of consulting services; RAP, art.204_Handing over of consulting services; LAP, art.110-113,214-215_Contract fulfilment; RAP, art.135-137_Contract fulfilment
LAP, art.110.4_Economic close-out of consulting services contract; LAP, art.109_End of contract		LAP, art.110.4_Economic close-out of consulting services contract; LAP, art.109_End of contract