

Attached Table: Scope of implementation, certification Items and central authorities in charge of the relevant industries for public constructions

Public Construction Categories	Scope of Implementation	Certification Items	Competent Authorities and Central Industry Competent Authorities
<p>1. Roadway transportation related engineering: Including highways and street roads.</p>	<p>Highways are handled in accordance with Article 33-1 of the Highway Act. Street roads handled by central authorities, and the value of the project scale reaches “large procurement” as prescribed in the Government Procurement Act; those handled by local authorities, and the value of the project scale reaches “threshold for supervision” as prescribed in the Government Procurement Act:</p> <ol style="list-style-type: none"> 1. Aerial Survey. 2. Site Investigation. 3. Alignment Engineering. 4. Electrical and Mechanical Engineering. 5. Lighting Engineering 6. Roadway, Bridge, and Tunnel Engineering. 7. Hydraulic Analysis, Drainage Engineering. 8. Traffic Engineering. 	<p>Design, Supervision</p>	<p>Ministry of the Interior (Street Roads) Ministry of Transportation and Communications (Engineering other than Street Roads)</p>
<p>2. Rail transportation engineering: including railroads, high-speed-rails, mass rapid transit systems and light-rail transportation</p>	<p>The value of the project scale reaches “large procurement” as prescribed in the Government Procurement Act:</p> <ol style="list-style-type: none"> 1. Aerial Survey. 2. Site Investigation. 3. Alignment Engineering. 4. Electrical and Mechanical Engineering. 5. Lighting Engineering. 	<p>Design, Supervision</p>	<p>Ministry of Transportation and Communications</p>

systems.	<p>6.Track, Bridge, and Tunnel Engineering</p> <p>7. Hydraulic Analysis, Drainage Engineering.</p> <p>8.Traffic Engineering.</p>		
3. Airport engineering.	<p>The value of the project scale reaches “threshold for supervision” as prescribed in the Government Procurement Act:</p> <p>1.Aerial Survey.</p> <p>2.Site Investigation.</p> <p>3.Electrical and Mechanical Engineering.</p> <p>4.Lighting Engineering.</p> <p>5. Engineering Related to Pavements, Roadways, Bridges, Box Culverts, etc.</p> <p>6. Hydraulic Analysis, Drainage Engineering.</p> <p>7.Traffic Engineering.</p> <p>8. Communication and Navigation Systems Engineering.</p> <p>9.Pressurized Substation Engineering.</p>	Design, Supervision	Ministry of Transportation and Communications
4. Harbor engineering.	<p>Those handled by central authorities, and the value of the project scale reaches “large procurement” as prescribed in the Government Procurement Act; those handled by local authorities, and the value of the project scale reaches “threshold for supervision” as mentioned in the Government Procurement Act:</p> <p>1.Aerial Survey and Water Depth Measurement.</p> <p>2.Site Investigation.</p> <p>3.Electrical and Mechanical Engineering.</p> <p>4.Lighting Engineering.</p>	Design, Supervision	Ministry of Transportation and Communications (Engineering other than Fishing Harbor Engineering) Ministry of Agriculture (Fishing Harbor Engineering)

	<p>5.Engineering related to Roadways, Bridges Tunnels, Box Culverts, Drainages, etc.</p> <p>6.Engineering related to Breakwaters, Wharfs, Dredging, Land Filling, Foundations, Retaining Walls, Revetments, Slope Protection, etc.</p> <p>7.Traffic Engineering.</p> <p>8.Sewage Engineering.</p> <p>9.Fishing Harbor Engineering.</p>		
5. Reservoir and water storage engineering.	<p>1. Constructing barrages above or below ground that can store water to a height or depth of more than three meters, and whose water storage capacity is more than 20,000 cubic meters.</p> <p>2.Spillway Facilities.</p> <p>3.Water Intake and Conveyance Engineering.</p> <p>4.Water Tunnel.</p> <p>5.Safety Monitoring System.</p> <p>6.Detention Ponds and Artificial Lakes</p> <p>7.Other Ancillary Engineering.</p>	Design, Supervision	Ministry of Economic Affairs
6. Electricity facility engineering: including power generation, power transmission and power distribution engineering.	Under the provisions of Article 61 of the Electricity Act and Standards for Defining the Scope of Design and Installation Supervision for Electricity Facilities and Customer's Electricity Devices Engineering.	Design, Supervision	Ministry of Economic Affairs
7.Coast, river dredging and hydraulic engineering.	<p>1. Dikes</p> <p>2. Revetments.</p> <p>3. Offshore Breakwaters.</p> <p>4.Overflow Flood Spillway Engineering and Flood Diversion Channel</p>	Design, Supervision	Ministry of Economic Affairs

	<p>Engineering.</p> <p>5.Floodgates and Hydraulic Machinery.</p> <p>6. Riverbed Works.</p> <p>7.Water Pumping Engineering.</p> <p>8. Drainage Engineering.</p> <p>9. Maintenance Dredging Engineering.</p> <p>10.Irrigation Engineering.</p> <p>11.Groundwater Engineering</p> <p>12.Flood Warning and Forecasting System Engineering.</p> <p>13. River Usage Behavior Engineering Projects (bridges, towers, water pipelines, sewer lines, oil pipes, gas pipes, etc.) that conform to those mentioned in the Water Act and the Regulations on River Management.</p>		
8.Tap-water engineering.	Under the provisions of Article 6-1 of Enforcement Rules for Water Supply Act to practice.	Under the provisions of Paragraph 1 Article 56 of the Water Supply Act to practice.	Ministry of Economic Affairs
9.Common duct engineering.	<p>1. Main Ducts.</p> <p>2. Branch Pipes.</p> <p>3. Cable Box.</p> <p>4. C.C. Box.</p> <p>5. Monitoring Systems.</p> <p>6.Other Ancillary Engineering.</p>	Design, Supervision	Ministry of the Interior
10.Sewer engineering: Including rain sewer and sewerage sewer.	<p>The value of the project scale reaches “threshold for supervision” as prescribed in the Government Procurement Act:</p> <p>1. System Planning.</p>	Design, Supervision	Ministry of the Interior

	<p>2.Pipe Engineering.</p> <p>3.Pumping Station and Interceptor Station.</p> <p>4.Wastewater Treatment Plant.</p>		
11. Incinerator engineering.	<p>1.The daily treatment amount is at least 300 tons or more:</p> <p>(1)Civil Engineering.</p> <p>(2)Electrical and Mechanical Engineering.</p> <p>(3)Automatic Monitoring System.</p> <p>(4)Emergency Response Device.</p> <p>2.If the daily treatment amount is less than 300 tons: besides those regulations otherwise stipulated by county (city) governments, it is customized by the engineering authority in charge according to the engineering properties and the actual needs.</p>	Design, Supervision	Ministry of Environment
12. Garbage landfill engineering.	<p>1.Electrical, Mechanical and Pre-treatment Equipment.</p> <p>2.Storage Structural Engineering.</p> <p>3.Blockage Structural Engineering.</p> <p>4.Catchment, Drainage Facilities Engineering.</p> <p>5.Disaster Prevention Facilities Engineering.</p> <p>6. Groundwater Monitoring.</p>	Design, Supervision	Ministry of Environment
13.New township development engineering.	<p>1.Site Preparation.</p> <p>2.Traffic and Pedestrian Walkways Engineering.</p> <p>3.Electrical and Mechanical Engineering.</p> <p>4.Level Measurement.</p>	Design, Supervision	Ministry of the Interior
14. Industrial zone development	<p>1.Roadways.</p> <p>2.Drainage.</p> <p>3.Site Preparation.</p>	Design, Supervision	Ministry of Economic Affairs

<p>engineering.</p>	<p>4.Bridge. 5.Water Pipeline. 6.Wastewater and Sewage Pipelines. 7.Environmental Protection Facilities. 8.Seawalls (Including Revetments and Slope Protection) 9.Sand Pumping and Land Reclamation 10.Ground Improvement. 11.Industrial Port Engineering. Buildings and soil and water conservation are handled according to laws and regulations, such as the Building Act and the Soil and Water Conservation Act.</p>		
<p>15. Soil and water conservation, treatment and maintenance engineering.</p>	<p>The treatment, management and usage of each subparagraph of Paragraph 1, Article 8 of the Soil and Water Conservation Act, and whose scale of the treatment and maintenance of the soil and water conservation conform the provisions of Article 4 of the enforcement Rules of Soil and Water Conservation Act.</p>	<p>Under the provisions of Article 6 and 6-1 of the Soil and Water Conservation Act to practice.</p>	<p>Ministry of Agriculture</p>
<p>16. Transportation cable car engineering: including the usage of cables to suspend and push a closed carriage forward, so that it travels on a fixed route; a transportation</p>	<p>1.Site Investigation. 2.Alignment Engineering. 3.Slope and Foundation Engineering. 4.Cable Car Station Engineering. 5.Pillar and Pillar Foundation Engineering. 6.Cable Car System Equipment (including the vehicle body, and mechanical, control, and</p>	<p>Design, Supervision</p>	<p>Ministry of Transportation and Communications</p>

<p>facility used for passenger transport to fixed locations and their vicinity; however, not including the cable cars stipulated in Subparagraph 3, Article 2 of the Regulations on Establishment and Inspection Management for Mechanical Amusement Facilities.</p>	<p>electrical equipment of the cable car system) Matters such as buildings, environmental impact assessments, and soil and water conservation, otherwise stipulated in other regulations, should be handled according to those regulations.</p>		
<p>17. Farmland water conservancy facilities engineering.</p>	<p>The value of the project scale reaches the “certain scale” be announced by the Competent Authority in Paragraph 2, Article 7 of the Irrigation Act.</p>	<p>Under the provisions of Paragraph 1, Article 7 of the Irrigation Act to practice.</p>	<p>Ministry of Agriculture</p>