

The Governance of Infrastructure

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Online Appendix

Generally, we refined the Common Procurement Vocabulary (CPV) code classification based on 'additional' CPV codes. In the case of having a more precise additional CPV code in comparison to the main CPV code, and if no contradicting additional CPV codes were used in the given contract, then the more precise additional CPV code was used for classification. For example, in the case of having 45000000 (Construction works) as the main CPV code, and only one additional CPV code, 45233100 (Construction work for highways, roads), being given, then the latter code was used in order to have a better sample.

The refined CPV codes defining the different types of infrastructure categories are enlisted below. In certain cases, the categorisation also depends on additional CPV codes. For example, if the main CPV is construction material but the additional CPV codes specify which type of construction they belong to, then the items are categorised based on these additional codes.

CPV Codes Used for Defining Different Infrastructure Sectors

Sector	CPV Codes Used
Road construction	<ul style="list-style-type: none">▪ Between 45233000 and 45234000: Construction, foundation and surface works for highways, roads▪ 45221111: Road bridge construction work▪ 44113000: Road-construction materials▪ 44113700: Road-repair materials▪ 44113900: Road-maintenance materials▪ 44113310: Coated road materials▪ 44811000: Road paint▪ 44113800: Road-surfacing materials▪ All material related CPV (beyond 44000000) if the additional CPV code is related to road construction (beyond 45000000)▪ Between 34920000 and 34930000: Road equipment▪ 50232000: Maintenance services of public-lighting installations and

	<p>traffic lights</p> <ul style="list-style-type: none"> ▪ 50232100: Street-lighting maintenance services ▪ 50232110: Commissioning of public lighting installations ▪ 50232200: Traffic-signal maintenance services ▪ Between 71311210 and 71311220: Architectural works related to road construction ▪ Any architectural works (beyond 71000000) if additional CPV code is related to road construction (between 45233000 and 45234000)
Railway construction	<ul style="list-style-type: none"> ▪ Between 45234100 and 45234240: Construction work for railways and cable transport systems ▪ 45221112: Railway bridge construction work ▪ 45213321: Railway station construction work ▪ 45213320: Construction work for buildings relating to railway transport ▪ 45221242: Railway tunnel construction work <p>Equipment:</p> <ul style="list-style-type: none"> ▪ 34940000: Railway equipment ▪ 34941000: Rails and accessories ▪ 34942000: Signalling equipment ▪ 34943000: Train-monitoring system ▪ 34944000: Points heating system ▪ 34945000: Track-alignment machinery ▪ 34946000: Railway-track construction materials and supplies ▪ 50225000: Railway-track maintenance services ▪ 71311230: Railway engineering services ▪ Any architectural works (beyond 71000000) if additional CPV code is related to rail construction (between 45234100 and 45234240)
Airport construction	<ul style="list-style-type: none"> ▪ Between 45235000 and 45235320: Construction work for airfields, runways and manoeuvring surfaces ▪ 45213331: Airport buildings construction work ▪ 45213332: Airport control tower construction work <p>Equipment:</p> <ul style="list-style-type: none"> ▪ 34960000: Airport equipment ▪ 34961000: Baggage-handling system ▪ 34962000: Air-traffic control equipment ▪ 34963000: Instrument Landing System (ILS) ▪ 34964000: Doppler VHF Omni direction Range (DVOR) ▪ 34965000: Distance Measuring Equipment (DME) ▪ 34966000: Radio Direction Finder and Non Directional Beacon ▪ 34967000: Airport Communication System (COM) ▪ 34968000: Airport Surveillance System and Lighting System ▪ 34969000: Passenger boarding bridges and stairs for aircraft ▪ 34995000: Lighting for aircraft guidance and illumination ▪ 34997000: Control, safety or signalling equipment for airport ▪ 34997100: Flight recorders ▪ 34997200: Airport lighting ▪ 34997210: Runway lights ▪ 34999200: Aerial signal splitters <p>Engineering:</p> <ul style="list-style-type: none"> ▪ 71311240: Airport engineering services

	<ul style="list-style-type: none"> ▪ 72212120: Flight control software development services ▪ 72212121: Air traffic control software development services ▪ 72212130: Aviation ground support and test software development services ▪ 72212131: Aviation ground support software development services ▪ 72212132: Aviation test software development services
Water transport	<ul style="list-style-type: none"> ▪ Between 45240000 and 45248500: Construction work for water projects <p>Equipment:</p> <ul style="list-style-type: none"> ▪ 34930000: Marine equipment ▪ 34931000: Harbour equipment ▪ 34932000: Radar sets ▪ 34933000: Navigation equipment ▪ 34934000: Propeller blades ▪ 34994000: Lighting for ship guidance and illumination ▪ 34994100: Lighting for river guidance and illumination ▪ 34998000: Control, safety or signalling equipment for port installations <p>Repair:</p> <ul style="list-style-type: none"> ▪ 50240000: Repair, maintenance and associated services related to marine and other equipment ▪ 50241000: Repair and maintenance services of ships ▪ 50242000: Conversion services of ships ▪ 50243000: Demolition services of ships ▪ 50244000: Reconditioning services of ships or boats ▪ 50245000: Upgrading services of ships ▪ 50246000: Harbour equipment maintenance services <p>Architectural/engineering:</p> <ul style="list-style-type: none"> • 71631460: Dam-inspection services
Power plant	<ul style="list-style-type: none"> ▪ Between 45251000 and 45251250: Construction works for power plants and heating plants ▪ 65410000: Operation of a power plant
Water and sewage systems	<ul style="list-style-type: none"> ▪ 45232150: Works related to water-distribution pipelines ▪ 45232153: Construction work for water towers ▪ 45232154: Construction work of elevated tanks for drinking water ▪ 44161200: Water mains ▪ 44162500: Drinking-water piping ▪ 45232150: Works related to water-distribution pipelines ▪ 45232151: Water-main refurbishment construction work ▪ 45232400: Sewer construction work ▪ 45232410: Sewerage work ▪ 45232411: Foul-water piping construction work ▪ 45232424: Sewage outfall construction work ▪ 45232430: Water-treatment work ▪ 45232431: Wastewater pumping station ▪ 45232440: Construction work for sewage pipes ▪ 45232450: Drainage construction works ▪ 45232451: Drainage and surface works ▪ 45232452: Drainage works

	<ul style="list-style-type: none"> ▪ 45232453: Drains construction work ▪ 45232454: Rain-water basin construction work ▪ 45232100: Ancillary works for water pipelines ▪ 45232120: Irrigation works ▪ 45232121: Irrigation piping construction work ▪ 45232130: Storm-water piping construction work <p>Equipment:</p> <ul style="list-style-type: none"> ▪ 44130000: Sewer mains ▪ 44131000: Sewage chambers ▪ 44132000: Culvert elements ▪ 44133000: Ductile-iron end caps ▪ 44134000: Bends ▪ 44163130: Sewer pipes ▪ 34144520: Sewage tankers ▪ 42122220: Sewage pumps ▪ 42996000: Machinery for the treatment of sewage ▪ 42996110: Macerators for the treatment of sewage ▪ 42996200: Sewage presses ▪ 42996300: Scrapers ▪ 42996400: Mixer units ▪ 42996500: Sewage screens ▪ 42996600: Oxygenation equipment ▪ 42996700: Precipitators ▪ 42996800: Sedimentation beds ▪ 42996900: Sludge-processing equipment <p>Services:</p> <ul style="list-style-type: none"> ▪ 90470000: Sewer cleaning services ▪ 90480000: Sewerage management services ▪ 90490000: Sewer survey and sewage treatment consultancy services ▪ 90491000: Sewer survey services
Sewage processing	<ul style="list-style-type: none"> ▪ 45252000: Construction works for sewage treatment plants, purification plants and refuse incineration plants ▪ 45252100: Sewage-treatment plant construction work ▪ 45252110: Mobile plant construction work ▪ 45252120: Water-treatment plant construction work ▪ 45252121: Sedimentation installations ▪ 45252122: Sewage digesters ▪ 45252123: Screening installations ▪ 45252124: Dredging and pumping works ▪ 45252125: Rock-dumping work ▪ 45252126: Drinking-water treatment plant construction work ▪ 45252127: Wastewater treatment plant construction work ▪ 45252130: Sewage plant equipment ▪ 45252140: Sludge-dewatering plant construction work ▪ 45252210: Water purification plant construction work ▪ 45253310: Water-distillation plants construction work ▪ 45232420: Sewage work ▪ 45232421: Sewage treatment works ▪ 45232422: Sludge-treatment works ▪ 45232423: Sewage pumping stations construction work

Equipment:

- 39350000: Sewerage works equipment

Services:

- 90400000: Sewage services
- 90410000: Sewage removal services
- 90420000: Sewage treatment services
- 90430000: Sewage disposal services
- 90440000: Treatment services of cesspools
- 90450000: Treatment services of septic tanks
- 90460000: Cesspool or septic tank emptying services
- 90470000: Sewer cleaning services
- 90480000: Sewerage management services
- 90481000: Operation of a sewage plant
- 90490000: Sewer survey and sewage treatment consultancy services
- 90491000: Sewer survey services
- 90492000: Sewage treatment consultancy services