

# Project Details

## Projects Involved at Cheil Engineering Co., Ltd

**Name of assignment or project:** Consultancy Services for Pre-F/S of Saudi Arabia–Bahrain King Hamad Causeway PPP Project

**Month and Year:** May 2021 ~ September 2021

**Location:** Establishment of new road-railroad complex route in parallel with the existing road section(King Fahd Causeway)

**Client:** Korea Overseas Infrastructure & Urban Development Corporation (KIND)

**Main project features:**

- Road
  - Total length(Single route) : 23.7km(Highway, 4-lane road(B:20.7m), Design speed:100km/h)
  - Road Bridge : 12,500m/5EA (Bridge1: 500m+Bridge2: 1,980m+Bridge3: 5,190m+Bridge4: 3,620m+Bridge5:910m)
- Railway
  - Total length : 78.5km (Connection line: 5.15km+Main line(Double track): 48.85km+Freight line(Single track): 24.5km, Design speed - Passenger: 220km/h, Freight:80~120km/h)
  - Railway Bridge : 38,500m/10EA (Long span bridge : 38,160m/5EA)
  - Tunnel : 18.7km/1EA(Single track)
  - Station : 1EA, Signal box : 1EA

**Positions held:** Assistant Railway Engineer

**Activities performed:** Support to survey and analysis of project plan and construction sector

- Railroad and road linearity, alignment planning survey and analysis, and suggestion of optimal alternatives.
  - Review for location & layout of the stations and siding track of main line
  - Collection and analysis of related transportation demand plans.
  - Reviewing the track capacity considering train operation and the design of system parts such as railway electricity, signal, telecommunication, etc.
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