

# Work Package Scope

## Cost Planning Service Provider Framework

### P106 – LTC Operation and Maintenance Lifecycle Cost Estimates

#### 1 Introduction & Background

The Commercial Services Division (CSD), within the Commercial and Procurement Directorate support the delivery directorates to achieve good business outcomes by developing cost, time and supplier intelligence required for effective decision making.

The Cost Planning team provide cost plans to Major Projects (MP) and the Operations Directorate (OPs), to support investment decision making and associated scheme delivery.

The Cost Planning Framework provides CSD, the additional service capacity to deliver Cost Plans and other cost planning services.

This document describes the work package scope for the service required from the Cost Planning Service Provider Framework.

#### 2 Scope

Operation and Maintenance lifecycle cost estimates are to be produced for the Lower Thames Crossing *do-minimum* and *do-something* scenarios for the proposed reference design to be provided by the Lower Thames Crossing project.

Range estimates shall be produced in real terms for a 60-year assessment period, providing estimated costs by financial year for routine operation and maintenance and asset renewals.

The scope of works is to include the following activities.

##### ***Estimate Initiation and Data Collection***

- Estimate Inception Meeting with LTC Operations to confirm estimate scope, purpose, output requirements, required reference documents, timescales and communications. Complete Estimate Scoping Document.
- Data Collection of Design Release reference documents
- Meetings to define Asset Management and Operational Management planning assumptions with LTC Operations
- Development of the O&M Estimate Work Breakdown Structure
- Production of quantities for the *do-minimum* scenario

### ***Roads Packages***

- Production of bottom-up quantities for do-something scenario of Design Release 3.0 and aligning with capex estimate quantification - Highways, Structures and ITS for each of the following scheme segments:
  - LTC-M25 Junction and M25 Mainline Corridor (adjust for M25 DBFO impacts)
  - Ockendon Link
  - LTC-A13 Junction
  - Chadwell St Mary's Link
  - Tilbury Viaduct
  - Gravesend Link
  - LTC-A2 Junction
  - A2/M2 Corridor
- Price Roads Package Operation and Maintenance using validated rates for each segment
- Produce confirmed list of assumed renewal frequencies for highways, structures and ITS assets (for 60-year assessment period)
- Price Periodic lifecycle renewals for highways and surface ITS assets and surface Structures for each surface segment:
- Carry out initial draft estimate review with LTC Operations
- Supplement / adjust price for any specific requirements in consultation with LTC Operations Team

### ***Crossing Package***

- Production of bottom-up quantities for reference design for all crossing package civils and MEICA asset in consultation with LTC Operations. The scope is to cover following asset groups:
  - Approach Ramp Structures
  - Pavements
  - Fabric and Finishes
  - Road Restraint & Roadside Furniture
  - Air Monitoring
  - HVAC & Ventilation
  - Hydraulics & Drainage
  - High / Low Electrical Distribution & Control
  - Power Supply
  - Lighting
  - Electronic Signage

- Fire Detection & Suppression
- Monitoring & Control Systems
- Surveillance & Detection
- Comms
- Public Address & Telephones
- Facilities Management
- Other as required
- Develop a schedule of routine operation and maintenance interventions and annual frequencies for each asset
- Develop a schedule of asset lifecycle renewal frequencies for each asset
- Review the schedules of interventions and frequencies with LTC Operations
- Develop an assumed operation and maintenance organisation staffing and review with LTC Operations
- Price Routine Operation and Maintenance activities
- Price periodic asset lifecycle renewals
- Collect energy load calculation for the tunnel assets from LTC Technical Partner and review and price
- Carry out an initial draft estimate review with LTC Operations
- Supplement / adjust price for any specific requirements over and above estimated requirements in consultation with LTC Operations Team

### ***Risk / Opportunity Assessment***

- Develop an O&M risk / opportunity register with LTC Operations
- Price the risk / opportunity impacts vs. draft base estimate
- Incorporate risk / opportunity allowances in estimate

### ***Estimate Reviews and Reporting***

- Produce a comprehensive Basis of Estimate report
- Carry out CSD standard Estimate Review meetings (Peer, Project Team, Estimating Manager, Head of Cost Planning)
- Incorporate review comments and actions
- Estimate approvals
- Follow-up information / clarifications for LTC Economics, Finance and Sponsorship teams

### 3 Timescale

The task covers the period from 1<sup>st</sup> June 2020 to 31<sup>st</sup> August 2020.

### 4 Additional information

n/a

### 5 Contact Information

Role	Location	Phone
Project Sponsor: Redacted per Freedom of Information Act 2000, S40(2)	The Cube, Birmingham	Redacted per Freedom of Information Act 2000, S40(2)
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Framework Manager: Redacted per Freedom of Information Act 2000, S40(2)	Lateral, Leeds	
Procurement Officer: Redacted per Freedom of Information Act 2000, S40(2)	Lateral, Leeds	