THE UNIVERSITY OF SYDNEY

LIFE CYCLE COST EVALUATION [1.2] Submittal Form

Project Name	

Measure

Ensure a Whole of Life/Life Cycle Cost (LCC) analysis is used to select between HVAC options (if applicable) and determine the true cost implications of different facade designs. Mechanical plant analysis should be conducted on a 25 year time-frame, and facade designs should be analysed on a 50 year time-frame. This analysis should take into account plant/ materials choice, construction costs, ongoing operations and maintenance costs.

Financial input data used for analysis, e.g. electricity, gas, inflation and discount rates must be obtained from the CIS Engineering & Sustainability Team.

Points Available **3** **Points Claimed** Select

Pre-contract Design Stage Signoff

Project Team Representative		Campus Infrastructure Services Sustainability Representative	
Signature		Signature	
Name (print)		Name (print)	
Date		Date	

As-built Stage Sign-off - to be completed at Practical Completion of Project

☐ By ticking this box the project team confirms the Pre-contract design stage meets the requirements of the measure and details are provided in this form

Project Team As-built Representative		Campus Infrastructure Services Sustainability Representative	
Signature		Signature	
Name (print)		Name (print)	
Date		Date	

1.0 Mechanical HVAC Equipment

The project team is to adopt total Lifecycle Costing assessment which estimates:
Total Operating costs
Total Maintenance costs
Total Interest costs; and
Project's initial costs; AND
Compare a minimum of three (3 off) different HVAC plant options to make an informed decision on the system type.

1.1 Inputs

Confirm the following inputs that have been applied to LCC assessment:

Discount Rate Applied		Maintenance & Operating Inflation Rate	
Electricity Inflation Rate		Electricity Costs	
Fuel Inflation Rate		Gas Costs	

Confirm the major plant to be installed in the building and why or why not this plant has been assessed under Life Cycle Cost Assessment:

1.1 Chiller Plant

Complete the following summary table for the Chiller Plant:

Plant Life (Years)

Cost Component	**Option 1**	**Option 2**	**Option 3**
Maintenance Costs			
Interest Costs			
Plant Capital Cost			
Installation Cost			
Total Operating Cost			
Total			

Provide summary of the above results and preferred project option:

1.2 Cooling Towers

Complete the following summary table for the Cooling Towers:

Plant Life (Years)

Cost Component	Option 1	Option 2	Option 3
Maintenance Costs			
Interest Costs			
Plant Capital Cost			
Installation Cost			
Total Operating Cost			
Total			

Provide summary of the above results and preferred project option:

1.3 Air Handling Units

Complete the following summary table for the Air Handling Units:

Plant Life (Years)

Cost Component	Option 1	Option 2	Option 3
Maintenance Costs			
Interest Costs			
Plant Capital Cost			
Installation Cost			
Total Operating Cost			
Total			

Provide summary of the above results and preferred project option:

1.4 Reference Documents

Provide the following documents as part of the Pre-Contract signoff:

- ◯ Life Cycle Costing Spreadsheet for Chillers
- ◯ Life Cycle Costing Spreadsheet for Cooling Towers
- ◯ Life Cycle Costing Spreadsheet for Air Handling Units

Please list any other reference documents used in the above assessment (as required)	

2.0 As-built Documentation

If there have been any deviations in the AS-INSTALLED HVAC Plant details then please list below and provide reason(s) why:

2.1 Reference Documents

Provide the following documents as part of the As-built signoff:

- ◯ Life Cycle Costing Spreadsheet for Chillers
- ◯ Life Cycle Costing Spreadsheet for Cooling Towers
- ◯ Life Cycle Costing Spreadsheet for Air Handling Units

Please list any other reference documents used in the above assessment (as required)	

3.0 Facade Materials

Provide description for the main Facade Systems evaluated for the project:

3.1 Main Facade Glazing Systems

Complete the following table used to evaluate the preferred main facade glazing system:

Facade Life (Years)	
Shading Devices Assessed	

Cost Component	**Option 1**	**Option 2**	**Option 3**
Maintenance Costs			
Interest Costs			
Facade Capital Cost			
Installation Cost			
Total			

Provide summary of the above results and preferred project option:

3.2 Cladding Systems

Complete the following table used to evaluate the preferred cladding systems:

Facade Life (Years)

Cost Component	Option 1	Option 2	Option 3
Maintenance Costs			
Interest Costs			
Facade Capital Cost			
Installation Cost			
Total			

Provide summary of the above results and preferred project option:

3.3 Reference Documents

Provide the following documents as part of the Pre-Contract signoff:

- ◯ Supplier costing information

Please list any other reference documents used in the above assessment (as required)

4.0 As-built Documentation

If there have been any deviations in the AS-INSTALLED Facade details then please list below and provide reason(s) why:

4.1 Reference Documents

Provide the following documents as part of the As-built signoff:

- [ ] Subcontractor costing advice

Please list any other reference documents used in the above assessment (as required)	