



## PREMIUM CONSULTING ENGINEERS

**7-9 Castlereagh Street & 6-12 Copeland Street, Liverpool**

### **Mechanical and CFD Fee Proposal**

**Prepared for:**

Michael Bouchahine  
HCM Group Pty Ltd  
678 Parramatta Road, Croydon, NSW 2132

**Date:**

24 January 2024

**Prepared by:**

Felix Ye  
Premium Consulting Engineers  
ABN: 36 627 724 029  
Suite 802, 299 Sussex Street Sydney 2000

T: 0426 076 689 E: [felix@pcen.com.au](mailto:felix@pcen.com.au)

ATT: Michael Bouchahine  
HCM Group Pty Ltd  
678 Parramatta Road, Croydon, NSW 2132

1

Dear Michael,

**Re: 7-9 Castlereagh Street & 6-12 Copeland Street, Liverpool**

Thank you for giving us the opportunity to submit this fee proposal for our Mechanical Service, CFD Service for the above project.

Premium Consulting Engineers provides innovative and best practice engineering solutions with a strong focus on high quality, close collaboration, and exceptional customer service. Together with our clients, PCE delivers bespoke services and collaborates with project stakeholders from project start to completion, to ensure the best project outcome.

We have advanced expertise and extensive experience in residential/mixed use applications. We believe our following unique would best support your projects:

- High-/low-rise apartment engineering specialist. Have successfully delivered design of prestigious residential developments.
- Fully compliant to NSW Engineering Scheme: BDC C9 Mechanical Certifier, DBP Mechanical Design Practitioner
- Seamless collaborations with Developer, Architects and other consultants to streamline the design process
- Our tailored solutions are highly cost effective and achieve the best project outcome.

Please refer to the details on our proposed project stage, service scope, and the required key design basis information. We will endeavour to deliver quality, accurate and timely services.

Yours faithfully,

**Felix Ye**

Director, MEP

M: 0426 076 689

E: felix@pcen.com.au

## **1 INTRODUCTION**

We have prepared this submission in response to an invitation of Michael Bouchahine for the provision of our consulting services for 7-9 Castlereagh Street & 6-12 Copeland Street, Liverpool

## **2 GENERAL SCOPE OF WORKS**

### **2.1 Overview**

The general scope of our service comprises design development and construction documents stages. We have priced as per the information set provided as detailed in section 2.2 Information provided.

### **2.2 Information Provided**

We have prepared this submission by using following information:

- Email sent from Suba Kumar on January 24, 2024, with architecture drawings.
- The project is a residential develop and consists of:
  - 2 levels of Basement car park, approximately 192 car spots.
  - Ground level with a childcare.
  - Building A ground to level 10, with Residential Apartments, approximately 51 apartments.
  - Building B ground to level 10, with Residential Apartments, approximately 81 apartments.

Total approximately 132 apartments

### **2.3 Deliverables at each stage**

#### **Design Development**

- PDF spatial sketch as required
- DWG drawings as required
- 8 coordination meetings
- Liaising with relevant consultants
- Attend consultant project meetings, 2 off

#### **Construction Documentation**

- PDF spatial sketch as required
- Equipment specification
- Full set of drawings in PDF and AutoCAD 2D
- 8 coordination meetings
- D&BP Act class 2 building design declaration
- Attend consultant project meetings, 2 off

#### **Construction Phase Service**

- Review contractor's shop drawings
- Answer RFI and site related inquiries

### **2.3 Mechanical Service-Extent**

- Car park ventilation system.
- Garbage exhaust.
- Fire pump room ventilation.
- Stair pressurization and relief systems.
- Air conditioning system design to commercial tenancy, cold shell.
- Air conditioning system design to apartments.
- Toilet and laundry ventilation to apartments.
- Rangehood exhaust system to apartments.
- Outside air system design for noise affected apartments.
- Plant room ventilations, including storage rooms, main switch room, garbage rooms, etc.
- Other ventilation to AS 1668.2.
- Electrical services associated with mechanical plant and equipment.
- Coordinate with architect, electrical, hydraulic fire service and other relevant parties.
- D&BP Act class 2 building design declaration

### **2.4 Mechanical Service-Clarifications**

- Fire engineering;
- Assessment of compliance with environmental noise regulations;
- Preparation of Performance Solutions where Deemed to satisfy requirements of the BCA do not suit the project requirements;
- Refrigeration systems to cool rooms and freezers;
- Revit modelling and documentation.

## **2.5 CFD Service-Extent**

- Review of all drawings relevant to the car park design.
- Creation of a three-dimensional model for the car park suitable for the CFD simulations.
- CFD ventilation simulations to assess the performance of the proposed design. This will provide a basis on which to compare subsequent designs.
- CFD ventilation simulations for up to three design changes. This includes altering natural ventilation openings, supply/exhaust flow rates, re-locating jet fans, etc.
- Preparation of a Technical Report detailing the results and recommendations.

## **2.6 CFD Service-Clarifications**

- We have allowed 3 off model simulation/modification, if additional simulations are required (for example, in the event of still unacceptable CO levels) then these will be
- discussed with the client and will be subject to a variation.
- We have not allowed fire engineering solution for jet fan which might affect sprinkler performance, this will need to be addressed by fire engineer on the job.

## **2.7 CFD Service-Deliverables**

- PDF spatial sketch as required
- Car park CFD ventilation report
- NSW regulated design and submission
- 1 meeting

### 3 PCE Capabilities

#### 3.1 Expertise

We specialise in providing tailored engineering solutions with a strong focus on high quality, close collaboration, and exceptional customer service.

All our consultants are qualified and knowledgeable professionals. We have extensive experience in Mechanical and CFD Performance solution.

#### 3.2 Qualification

Our team of engineers are highly experienced and fully qualified. Our qualifications relating to this project include:

- MIEAust, M.AIRAH, CPEng, NER, RPEQ
- BDC C9 Mechanical Certifier, DBP Mechanical Design Practitioner



#### 3.3 Project Experience

We have enormous experience in this area. Some of our previous works are:

- 38 Cudgegong Road, Rouse Hill (Zhinar Architects, 295 Apartments, \$200m)
- 'Crownview', 373 Crown Street, Wollongong (mixed-used twin tower, 149 apartments)
- 'Regent', 58-68 Regent Street, Kogarah (PBD Architects, 12-storey, 96 high-end apartments, \$80m)
- 'Grand Auburn', 5-7 Northumberland Road, Auburn (Zhinar Architects, mixed-used, 116 apartment, \$110m)
- 23-27 Schofields Road, Schofields (Binah Construction, 137 Apartments, \$100m)
- 27-33 Ascot Street, Canley Heights (Zhinar Architects, 74 Apartments, \$60m)
- 31 Warriewood Road, Warriewood (DKO Architects, 5-storey 104 apartments, \$90m)
- 35-39 Jenkins Road, Carlingford (Blue Sox Developments, 60 Apartments, \$45m)
- 'The Pearson', 2-6 Pearson Ave, Gordon (Wolski Coppin Architecture, boutique apartment)
- 'The Mitchell', 11-15 Mitchell Avenue, Jannali (PBD Architects, 31 featured apartments)

#### 3.4 Project Resources

Our key personnel proposed for this project are as follows:

Director/Mechanical Engineer - Felix Ye (ME CPEng NER RPEQ DBP)

We confirm that we will not engage any sub-consultants.

### 4 INSURANCE DETAILS

We currently hold the following insurances to as required by authorities

Insurance type	Insurer	Amount
Professional indemnity	Allianz	\$10,000,000
Public Liability	CGU	\$20,000,000

Copies of insurance certificate are available upon request.

### 5 CONDITIONS OF ENGAGEMENT

We confirm that this will be a direct commission from your firm.

You may accept the offer by completing the Signature of Acceptance form at the end of this document, but if you do not, your continued instructions to us will constitute your acceptance of the offer.

## 6 FEE

### 6.1 Fee Proposal Details

We are pleased to outline below our lump sum fees for the provision of services to be undertaken in accordance with the aforementioned scope of service.

SERVICES	Design Development	Construction Documentation	Construction Phase Service	Total
<b>Mechanical Service</b>	\$ 14,000.00	\$ 14,000.00	\$ 14,000.00	\$ 42,000.00
<b>CFD Service</b>	\$ 4,500.00	\$ 4,500.00	\$ -	\$ 9,000.00
<b>TOTAL (exclude GST)</b>	\$ 18,500.00	\$ 18,500.00	\$ 14,000.00	\$ 51,000.00
<b>Goods &amp; Services Tax(GST) 10%</b>				\$ 5,100.00
<b>TOTAL (include GST)</b>				\$ 56,100.00

### 6.2 Hourly Rates

Any additional work required beyond the scope defined will be charged at hourly rates. The following rates (GST exclusive) are current to project completion.

Project co-ordinator	-	\$320 per hour
Engineer	-	\$280 per hour
Administration	-	\$150 per hour
Site Visit/Meeting(extra)	-	\$450 per 3 hour section inclusive travelling

### 6.3 Claiming of Fees

Payment is due within 14 days of the date of invoice.

Our fee will be invoiced at the beginning of each design stage.

## 7 SIGNATURE AND APPROVAL

**Re: 7-9 Castlereagh Street & 6-12 Copeland Street, Liverpool**

Client  
 Company:

Full Name:

Signature:

Engineer  
 Premium Consulting Engineers  
  
 Felix Ye  
 Director/Mechanical Engineer  
 NSW Fair Trading C9 Certifier  
 NSW Fair Trading Professional Engineer  
**M.E CPEng NER RPEQ**  
 M: 0426 076 689



Date:

30 January 2024

## TERMS AND CONDITIONS

- 1 The Consultant shall provide to the Client the consulting services described in the accompanying letter together with such other services as may be agreed from time to time (the "Services").
- 2 The Consultant shall provide the Services with such skill, care and diligence as is generally exercised by competent members of the consulting profession performing services of a similar nature, at the time the Services are provided.
- 3 The Services will be performed at either or both the site of the project (the "Site") or at other places reasonably required by the Client. Where the locations of the Consultant's work are not under the Consultant's control (including the Site), the Client must provide reasonable access to allow the Consultant to fulfil its obligations (including to provide the Services).
- 4 The Client shall, at its own cost, as soon as practicable make available to the Consultant all information, documents and other particulars relating to the Client's requirement for the project as is necessary for the Consultant to carry out the services as expressly set out in this Agreement (the "Requirements"). The Consultant is entitled to rely on such information, documents and other particulars as are provided by the Client pursuant to or in connection with this Agreement.
- 5 The Client shall pay to the Consultant:
  - a) the Fee and the Reimbursable Expenses as set out in the accompanying letter together with such other amounts in respect of other services agreed to be provided;
  - b) reasonable adjustments to the Fee and the Reimbursable Expenses to reflect the additional costs, expenses, liabilities, losses or other amounts incurred or suffered by the Consultant in the performance of the Services and arising out of or in connection with any event or matter beyond the Consultant's control; and
  - c) to the extent that amounts payable under this Agreement are not expressed to be GST inclusive, an additional amount for the GST incurred by the Consultant in relation to the supply of the Services ("GST").
- 6 The Consultant may claim payment in accordance with the times set out in the accompanying letter or, if no time is set out, monthly in arrears. The Client must pay to the Consultant, without set-off or deduction:
  - a) the amount payable under this Agreement for the Services provided during the relevant period, within 15 days of the Consultant's invoice;
  - b) the GST payable under this Agreement for the Services provided during the relevant period, within 15 days of receiving a valid tax invoice.
- 7 If the Client does not pay the Consultant in accordance with this Agreement then, without prejudice to any other rights or remedies the Consultant may have, interest will be payable from the date of invoice until payment at a rate per annum equal to the Unsecured Personal Overdraft Rate as most recently published by Westpac, plus 1% per annum.
- 8 To the maximum extent permitted by law:
  - a) subject to paragraphs (b), (c) and (d) below, the Consultant's liability to the Client arising out of or in connection with this Agreement (including the performance or non-performance of the Services), whether under the law of contract, in tort, in equity, under statute or otherwise, shall be limited in aggregate to the amount specified in the accompanying letter or \$300,000, if no amount is stated in the letter.
  - b) the Consultant is not liable to the Client in respect of any indirect, consequential or special losses (including loss of profit, loss of business opportunity and payment of liquidated sums or damages under any other agreement);
  - c) the Consultant shall be deemed to have been discharged from all liability in respect of the Services whether under contract, in tort, in equity, under statute or otherwise, at the expiration of the period specified in the accompanying letter, or if no date is specified, on the expiration of 3 years from the completion of the Services;
  - d) if, and to the extent that, any of this clause is void as a result of section 68 of the Trade Practices Act 1974 (Cth), then the Consultant's liability for a breach of a condition or warranty is limited to:
    - (i) the supplying of the relevant Services again; or
    - (ii) the payment of the cost of having the Services supplied again.
- 9 Subject to the Client complying with its obligations under the Agreement, the Consultant grants to the Client a non-exclusive, royalty-free and irrevocable licence to use (and allow others to use) any intellectual property (including all drawings, reports, specifications, bills of quantity, calculations and other documents, including "works" as defined in the Copyright Act 1968 (Cth) created or produced by the Consultant) arising out of provision of the Services ("IP Rights") for the purposes of completing the Project. As between the Client and the Consultant, the ownership of the IP Rights vests in the Consultant.
- 10 Neither the client nor the Consultant shall disclose to third parties or use for any purpose (other than providing or benefiting from the Services) any information provided by the other unless:
  - a) required by law;
  - b) the information is already generally known to the public; or
  - c) the other consents to the disclosure.

All documentation and materials containing confidential information provided by one party to the other shall be returned upon request.
- 11 Any dispute or difference ("Dispute") between the Client and the Consultant may be notified by a party to the other party and the parties shall:
  - a) firstly meet to negotiate, in good faith, resolution of the Dispute; and



- b) secondly, if negotiation fails to achieve a resolution of the Dispute within 5 working days of the notification of the Dispute, attend mediation, administered in accordance with procedures as set out by the Institute of Arbitrators and Mediators Australia, provided that this provision shall not prevent the Consultant from instituting legal action at any time to recover moneys owing by the Client to the Consultant.
- 12 The Client may, without prejudice to any other rights or remedies it may have, by written notice served on the Consultant terminate its obligations under this Agreement:
- a) if the Consultant is in breach of the terms of the Agreement and the breach has not been remedied within 28 days of a written notice served by the Client on the Consultant specifying the breach and requiring the breach to be remedied; or
  - b) upon the Client giving the Consultant 60 days' written notice of its intention to do so; or
  - c) if the Consultant informs the Client that it is insolvent, becomes bankrupt, or becomes subject to any official management, receivership, liquidation, provisional liquidation, voluntary administration, winding up or external administration ("Insolvency Event").
- The Consultant may, without prejudice to any other rights or remedies it may have, by notice in writing served on the Client suspend its obligations under this Agreement:
- 13 The Consultant may, without prejudice to any other rights or remedies it may have, by notice in writing served on the Client suspend its obligations under this Agreement:
- a) immediately by written notice if the Client has failed to pay in accordance with this Agreement; or
  - b) if the Client is in breach of any of the other terms of the Agreement and the breach has not been remedied within 10 working days (or longer as the Consultant may allow) of a written notice served by the Consultant on the Client specifying the breach and requiring the breach to
- 14 The Consultant may, without prejudice to any other rights or remedies it may have, terminate its obligations under this Agreement:
- a) if the breach referred to in clause 13(a) has not been remedied within 5 days of a written notice served by the Consultant on the Client specifying the breach and requiring the breach to be remedied; or
  - b) if the Client is in breach of any of the other terms of the Agreement and the breach has not been remedied within 28 days of a written notice served by the Consultant on the Client specifying the breach and requiring the breach to be remedied; or
  - c) upon the Consultant giving the Client 60 days' written notice of its intention to do so; or
  - d) if an Insolvency Event occurs in relation to the Client.
- 15 If the Consultant considers it appropriate to do so, it may, with the Client's prior approval, which shall not be unreasonably withheld or delayed, engage other consultants to assist the Consultant in specialist areas. The other consultant shall be engaged at the Client's risk, cost and expense,
- 16 Neither party may assign, transfer or sublet any obligations under this Agreement without the written consent of the other. Unless stated in writing to the contrary, no assignment, transfer or subletting shall release the assignor from any obligation under this agreement.
- 17 In the interpretation of this Agreement, no rule of construction applies to the disadvantage of one party on the basis that it put forward this Agreement or any part of it.