

THE GRENFELL TOWER INQUIRY

EXHIBIT DPB/13

This is the Exhibit marked “DPB/13”
referred to in the witness statement
of David Paul Bradbury



TRUSTED TO PERFORM 

J S Wright & Co Ltd

The Atlas Building
16 Portland Street
Aston
Birmingham
B6 5R

Quotation number

PSBUK1343/12/Controls

Handled by

Hugh Mahoney

Tel.nr. 

Mobile 

Date: 23rd January 2015

For the attention of: **Mr. David Bradbury**

Re: **Grenfell Tower
Lobby Smoke Ventilation System
Controls Only**

Further to our recent conversations and correspondence please find attached copy of my quotation for the supply delivery and commissioning of the controls package for the refurbished smoke control system at the above project.

The smoke extract fans will also be utilised to provide the environmental lobby extract and the Fan Starter Control Panel will incorporate inverter drives to both the duty and standby fans (i.e. two inverter drives). These fans will be provide 5.0m³/s for smoke extract and be inverter driven to provide 3.60m³/s for environmental ventilation.

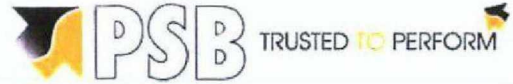
The Controls package is based upon the smoke and environmental supply fans being mounted within the rooftop plant room and the fan starter panel will also incorporate controls for the bypass damper arrangement.

PSB UK Ltd will also provide, in electronic format:

- Typical floor arrangement
- Full system schematic
- Control wiring diagrams and cause and effect chart
- O&M Instructions

In addition PSB UK Ltd will provide technical support for the design and the system throughout the duration of your project and will attend meetings with the approving authority as deemed necessary.

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PSB UK Ltd will also be responsible for commissioning on completion of the installation and receipt of certification by your electrical contractor, and this will include the following:

- Static checks before energising system
- Checking the system operates in accordance with the cause and effect chart
- Taking airflow velocity readings across open lobby doors
- Production of test records/certificates for the system
- Production of a certificate of conformity
- 1 day for Client training

Please note that the order for this project should be in two parts, one for the supply only. The price quoted is fixed for 30 days and is for completion within 6 months of receipt of order. The tender, at this stage, has been prepared in accordance with PSB-UK's standard Terms and Conditions of sale a summary of which is attached and a full copy of which can be viewed on our website at www.psbuk.com

I trust that the above information and our attached proposal will be of interests to you and I look forward to being of further assistance to you on this project.

If you have any questions in connection with the attached proposals, please do not hesitate to contact the undersigned. We hope we will have the opportunity to talk to you soon.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'H. Mahoney'.

Hugh Mahoney
Commercial Manager

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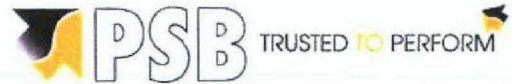
Pos	Nr	Description	Total price
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Price 1 Supply only of Controls

Scope: Supply, Delivery only of control components for the lobby smoke control system. Offloading, distribution and installation by others

- | | | |
|----|----|--|
| A. | 1 | Supply and delivery only of PSB Master Smoke Control system panel located in the service riser within the lobby on the Walkway level. |
| B. | 1 | Supply and delivery only of PSB Fan Smoke Control starter panel located in roof top plant room local to main extract fan set. Panel to be complete with inverter speed control of both smoke extract fans. The panel will also incorporate a DOL starter for the environmental supply fan |
| C. | 1 | PSB Mimic override panel in ground floor complete with HMI Screen and mounted in separate protective steel enclosure. |
| D. | 23 | Supply and delivery only PSB two zone interface modules, mounted on every floor level (these are connected to local override switches, smoke detector, and provide power to the motorised damper/AOV ventilators/stairwell ventilators etc.). Power and control cabling will be by PSB from master smoke control panel. The control modules will be located in local the electrical service riser within the ventilated lobbies. |
| E. | 2 | Supply and delivery only PSB single zone control panel for standalone AOV ventilators. |
| F. | 5 | Supply and delivery only PSB booster battery packs local to control module on every fifth floor |
| G. | 23 | Supply and delivery only PSB key operated Fire override switches |
| H. | 23 | Supply and delivery only PSB smoke detectors |
| I. | 23 | Supply and delivery only PSB room thermostats |
| J. | 1 | Carriage to site during normal working hours. Based on a maximum of two deliveries |

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Pos	Nr	Description	Total price
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Price 1 Supply only of Controls

Scope: Supply, Delivery only of control components for the lobby smoke control system. Offloading, distribution and installation by others (Cont)

- | | | |
|----|---|--|
| J. | 1 | Detailed System Design
The engineering design work will consist of the following <ul style="list-style-type: none">• Technical support• Attendance of design meetings• Technical submission• Cause & Effect chart• Design of control system software (where applicable)• Control schematic & cabling selection• Typical floor System Layout Plan Drawings |
|----|---|--|

Total Price

£47270.00 nett

Forty seven thousand two hundred and seventy pounds nett.

Price 2 Commissioning and certification of the Control System

Scope: Provide a two man commissioning team.

- | | | |
|----|---|---|
| K. | 1 | Testing, commissioning and setting to work the complete corridor smoke control systems including a separate day to instruct the client. |
| L. | 1 | Provision of commissioning documentation including a certificate of compliance for the complete system. |

Total Price for commissioning

£10500.00 nett

Ten thousand five hundred and seventy pounds nett.

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Not included in scope of supply

- Value Added Tax
- CFD Modelling
- Main contractors discount
- Builders work such as cutting and making good openings roof up stands etc.
- Activities not mentioned in this quotation.
- Activities outside normal working hours.
- General Smoke/Fire detection system.
- AOV ventilation system shown on schematic drawings serving lower levels
- Interface wiring between fire alarm system and our controls
- Primary power supplies into our master control panel
- Containment for power and control wiring
- Site costs.
- Offloading and distribution
- Crane or any horizontal/vertical transport or lifting equipment.
- Maintenance or service.
- Stand-by facilities.
- Spares.

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Terms & Conditions

General Terms & Conditions

Final terms and conditions are to be agreed. These proposals are based on standard PSB-UK Ltd Terms and Conditions of sale (available on request, and on our web site).

The sum of 20% of the contract value will be charged on completion of detailed design work as detailed under equipment overview above.

Payment of all approved applications will be due within a maximum period of 28 days, overdue payments will be subject to interest charges equivalent to 5% above the bank rate ruling at the time of invoice.

System warranty will be 12 months from practical completion or 15 months from installation, whichever is the sooner, and from first handover in phased installations.

Validity

This quotation is valid for acceptance up to 30 days from the date of this tender, unless withdrawn in writing and is not transferable to a third party.

This quotation is valid for completion of supply and installation work within 6 months of order placement.

Delivery

Engineering and drawings, including the calculations of the electrical wiring will be available within 4 weeks of your firm order enabling us to proceed.

The supply, installation and commissioning of the equipment and system will be determined in conjunction with yourselves or other interested party to fit, wherever possible, into the build programme.

Drawings

It is a condition of this tender that full details of the building, in so far as that which affects the work undertaken by PSB-UK Ltd, are provided in AutoCAD Electronic format.

No information contained within this tender should be used for construction purposes. PSB-UK Ltd will provide construction issue drawings on receipt of an order. To save time, the detailed design/drawing work can proceed on the receipt of a letter of intent, but the drawings will only be released once an official order is received.

Validation of the System

Cold smoke generation will be used at the time of commissioning to prove the air and smoke paths within the car park.

Property Rights

The contents of this tender are exclusive to and remain the property of PSB-UK Ltd and must not be copied or divulged to any other party without the express permission of PSB-UK Ltd.

Tender Proposals

Please note that information contained in these proposals, such as fan and sensor quantities, are subject to confirmation at detail design stage and cannot be used for construction purposes.

Electrical Power Supply

It is assumed that a 110V electrical power supply will be provided free of charge for installation and commissioning work. It is also assumed that an essential power supply of adequate capacity will be provided to the PSB control panel.

Working Hours

The tender is based on two attendances on site for installation. Only normal working hours are allowed for in this tender, these hours being Monday to Friday, 8.00am to 4.30pm. Working outside these hours can be arranged at extra cost if required.

Removal of Rubbish

Allowance is made for ensuring that all rubbish created by PSB will be deposited into skips. However, it is assumed that suitable skips and removal of the rubbish will be provided free of charge.

Containment & Cabling Clarification

Please note that the cabling included within these proposals specifically excludes containment unless stated otherwise. Where containment is included, or is provided by others, it is based upon all fan cables being laid within cable trays. Should cables trays be inverted additional costs will be incurred due to the additional labour required, and we reserve the right to adjust our price accordingly.

Similarly our quotation includes for the running of cables via the most practical and shortest routes. Should the installed cable trays take diverse routes to the locations of the respective equipment then additional costs will be incurred due to the additional parts and labour required, and we reserve the right to adjust our price accordingly. Please note that we do NOT include for "clipping" cables directly to the soffit or walls.