Dated 05/11/2025

Merseytravel

- and -

JACKSON (FIRE & SECURITY) LIMITED

Services Agreement for Maintenance and Testing of Fire Alarms, Nitrogen Foam System, Intruder Alarms and Gas Suppression Systems

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Mrs Louise Outram
Secretary
Merseytravel
No.1 Mann Island
Liverpool L3 1BP

Ref LAD/4092316

AN AGREEMENT made the 05/11/2025

BETWEEN

(1) **MERSEYTRAVEL** a body corporate established by statute whose principal place of business is at No.1 Mann Island Liverpool L3 1BP (**"Merseytravel"**); and

(2) **JACKSON (FIRE & SECURITY) LIMITED** (Co. No. 03893399) of St. David's House 6 Queens Lane, Bromfield Industrial Estate, Mold, Clwyd, CH7 1JR (the **"Contractor"**)

WHEREAS Merseytravel has requested the Supplier to perform the Maintenance and Services and the Supplier has agreed to perform the Maintenance Services (hereinafter defined) in accordance with this Agreement and on the terms herein contained.

IT IS HEREBY AGREED as follows-

1. **Definitions**

The definitions and rules of interpretation in this clause apply in this Agreement

Business Day	a day other than a Saturday or Sunday or public holiday in England
Charges	the maintenance fees detailed within Schedule 2
Commencement Date	shall be 10 November 2025
Confidential Information	all Confidential Information (however recorded or preserved) disclosed by a party or its employees officers representatives advisers or subcontractors involved in the provision or receipt of the Maintenance Services who need to know the Confidential Information in question (representatives) to the other party and that party's representatives in connection with this agreement which is either labelled as such or else which should reasonably be considered as confidential because of its nature and the manner of its disclosure.

Corrective Maintenance	means (a) making any necessary adjustments to the Maintained Equipment; and (b) replacing any parts or components required to restore the Maintained Equipment to Good Working Order
Critical Faults	those faults detailed within the specification as being deemed to be critical faults requiring an emergency response and Emergency Maintenance
Excluded Maintenance	any maintenance services required to restore any malfunctioning or failed maintained equipment to good working order where the malfunction or failure results from or is caused by any of the excluded causes
Excluded Causes	means (a) use of the maintained equipment with computer equipment or materials not supplied or approved by the manufacturer (b) (any maintenance alteration modification or adjustment performed by persons other than the Supplier or its employees or agents (c) the use of the maintained equipment in breach of any of the provisions of the agreement under which the maintained equipment was supplied (d) a failure or malfunction in the air conditioning or other environmental controls required for the normal operation of the maintained equipment or an error or omission in the correct use of that air conditioning or other environmental controls by Merseytravel or (e) the misuse of the maintained equipment
Emergency Maintenance	means (a) making any adjustments to the Maintained Equipment following a Critical Fault and

	(b) replacing any parts or components of the Maintained Equipment required to restore the Maintained Equipment to Good Working Order following a Critical Fault
Good Industry Practice	in relation to any undertaking and any circumstances the exercise of skill diligence prudence foresight and judgement and the making of any expenditure that would reasonably be expected from a skilled person engaged in the same type of undertaking under the same or similar circumstances
Good Working Order	the Maintained Equipment operates uninterrupted, trouble-free, and fit for its intended purpose in accordance with the manufacturer's specifications and any operating manuals provided by the manufacturer
Location	the Location of the Maintained Equipment at Merseytravel's premises as detailed in the Specification or any other Location as may be agreed by the parties in writing from time to time
Maintained Equipment	the equipment detailed in the Specification in Schedule 1 of the Agreement
Maintenance Services	Corrective Maintenance and Emergency Maintenance of the Maintained Equipment in accordance with the Specification attached in Schedule 1 and the Supplier tender attached in Schedule 2 of the Agreement
Normal Business Hours	9.00 am to 5.00 pm on a Business Day
Non-Critical Faults	those faults detailed within the Specification as being deemed to be minor problems requiring a standard response
Operating Manuals	all Operating Manuals specifications and other manufacturer documentation relating to the Maintained Equipment
Response Time	the applicable response times as set out in the Specification in Schedule 1 of the Agreement

Service Levels	the levels to which the Supplier must perform the Maintenance services as set out in the Specification in Schedule 1 of the Agreement
Standard Maintenance Fees	the fees payable by Merseytravel for the provision of the Maintenance Services as set out in Schedule 2 of the Agreement as these fees are varied from time to time in accordance with the terms of this agreement
Term	shall be from the date of commencement for a period of three (3) years with a potential extension of up to one (1) year at the absolute discretion of Merseytravel, subject to Clause 13 hereof

(a) Clause schedule and paragraph headings shall not affect the interpretation of this Agreement.

(b) A person includes a natural person corporate or unincorporated body (whether or not having separate legal personality).

(c) The schedules form part of this agreement and shall have effect as if set out in full in the body of this agreement. Any reference to this agreement includes the schedules.

(d) A reference to a company shall include any company corporation or other body corporate wherever and however incorporated or established.

(e) Unless the context otherwise requires words in the singular shall include the plural and in the plural shall include the singular.

(f) Unless the context otherwise requires a reference to one gender shall include a reference to the other genders.

(g) A reference to a statute or statutory provision is a reference to it as amended extended or re-enacted from time to time and shall include all subordinate legislation made from time to time under that statute or statutory provision.

(h) A reference to writing or written includes faxes but not e-mail.

(i) Any words following the terms including include in particular or any similar expression shall be construed as illustrative and shall not limit the sense of the words description definition phrase or term preceding those terms

2. **Maintenance Services**

(a) The Supplier shall be deemed to have examined the Location, the Maintained Equipment, and the requirements of this Agreement. No claim from the Supplier for additional payment shall be allowed on the grounds of misinterpretation of any matter relating to the Location, the Maintained Equipment, and the requirements of this Agreement on which the Supplier could reasonably have satisfied itself by a visit to the Location or such other means as may have been appropriate

(b) During the Term the Supplier shall provide Merseytravel with the Maintenance Services for the Maintained Equipment at the Location

(c) The Supplier shall attend at the Location during Normal Business Hours on an agreed date in line with this Agreement to perform Maintenance Services

(d) Upon Merseytravel informing the Supplier that the Maintained Equipment is malfunctioning or has failed or is otherwise not in Good Working Order the Supplier shall attend at the Location during Normal Business Hours within the relevant Response Time and perform Corrective Maintenance of the Maintained Equipment

(e) In performing the Maintenance Services the Supplier shall exercise reasonable skill and care and use all reasonable endeavours to restore any malfunctioning or failed Maintained Equipment to Good Working Order while in attendance at the Location Where this is not reasonably practicable or not reasonably practicable within Normal Business Hours (in the case of Corrective Maintenance) the Supplier shall either arrange for a further visit to the Location within Normal Business Hours to complete the repair or remove the Maintained Equipment or part of the Maintained Equipment for repair off-site

(f) The Supplier shall ensure its personnel shall while on site at the Location comply with Merseytravel's reasonable health and safety and security policies provided that these policies have been brought to the attention of its personnel

(g) The Supplier shall take reasonable care to ensure that in the provision of the Maintenance Service it does not interfere with the operations of Merseytravel its employees or any other contractor employed on the Location whether or not the Supplier is provided with sole access to the Location

3. **Service Levels**

(a) The Supplier shall perform the Maintenance Services in accordance with the Service Levels

(b) The Supplier shall provide Merseytravel with a report on a monthly basis and in a form to be agreed with Merseytravel setting out the Supplier's performance against the Service Levels in the immediately preceding month

(c) If the Supplier fails to perform the Maintenance Services in accordance with the Service Levels the Supplier shall without prejudice to Merseytravel's other rights and remedies arrange all additional resources at its own expense necessary to perform the Maintenance Services in accordance with the Service Levels as soon as possible

(d) Where the Supplier continues to fail to perform the Maintenance Services in accordance with the Service Levels Merseytravel shall be entitled to arrange for a suitably qualified engineer to carry out the Maintenance Services to the required Service Levels and the costs of which shall be borne by the Supplier

(e) Where the reports detailed in Clause 3(b) shows the Supplier has consistently over a 3 month period failed to perform within the Service Levels for Critical Faults Merseytravel shall be entitled at its discretion to either to terminate this Agreement in accordance with Clause 13(b) or to recover from the Supplier such proportion of the Standard Maintenance Fee as Merseytravel deems reasonable

4. **Not used**

5. **Replacements and Spare Parts**

(a) In performing the Maintenance Services the Supplier shall use all reasonable endeavours to restore the Maintained Equipment to good working order. In the event the Maintained Equipment is nor repairable, the Supplier may replace such equipment with spare parts at a price to be agreed in advance between Merseytravel and the Supplier

(b) Merseytravel reserves the right to procure spare parts from the Supplier or such other source as Merseytravel may deem appropriate. Such procurement from a source other than the Supplier shall not invalidate any rights of Merseytravel under this Agreement

(c) Any spare parts provided by the Suppler shall be either new or of substantially equal quality

(d) All spare parts and/or replacements provided by the Supplier to Merseytravel shall become part of the Maintained Equipment and the Supplier will assign to

Merseytravel with full title guarantee and free from all third-party rights all spare parts and/or replacements provided by the Supplier

(e) All parts and components removed from the maintained equipment by the supplier in the course of performing the Maintenance Services shall no longer constitute part of the Maintained Equipment and will be the property of the Supplier and Merseytravel will assign to the Supplier with full title guarantee and free from all third-party rights all parts and components removed from the Maintained Equipment by the Supplier in accordance with this clause 5

6. **Merseytravel Obligations**

Merseytravel shall:

(a) Ensure that the maintained equipment is installed and kept at the Location under suitable conditions as specified in the operating manuals and permit only trained and competent personnel to use it and follow any operating instructions as the Supplier may give from time to time;

(b) notify the Supplier promptly if the Maintained Equipment is discovered to be operating incorrectly;

(c) at all reasonable times permit full and free access to the Location and Maintained Equipment to the Supplier its employees contractors and agents and provide them with adequate and safe working space and any telecommunications facilities as are reasonably required to enable the Supplier to perform the Maintenance Services while at the Location;

(d) provide the Supplier with any information that is reasonably requested in the performance of the Maintenance Services;

(e) take any steps reasonably necessary to ensure the safety of the Supplier's personnel when attending the Location;

(f) not move the Maintained Equipment from the Location without the prior written approval of the Supplier (approval not to be unreasonably withheld or delayed);

(g) store any reserve equipment only in conditions approved by the Supplier and make this equipment available for periodic maintenance as with all other Maintained Equipment; and

(h) only use supplies or materials supplied or approved by the Supplier (approval not to be unreasonably withheld or delayed)

7. **Excluded Maintenance**

(a) The Supplier is not obliged to perform any Excluded Maintenance

(b) Where the Supplier is performing or has performed the Maintenance Services in circumstances where it is established that the Maintained Equipment was not in Good Working Order due to any of the Excluded Causes the Supplier

and Merseytravel may agree a separate fee to carry out such Excluded Maintenance

8. **Intellectual Property**

(a) The Supplier shall fully indemnify Merseytravel against all actions claims demands proceedings damages costs charges and expenses arising from or incurred by reason of any infringement or alleged infringement of patent design copyright or any other intellectual property right as a result of the provision of the Maintenance Service subject to the following:-

(i) Merseytravel must promptly notify the Supplier in writing of any alleged infringement of which it has notice;

(ii) Merseytravel must make no admissions without the Supplier's consent;

(iii) Merseytravel at the Supplier's request and expense shall allow the Supplier to conduct and/or settle all negotiations and litigation and shall give the Supplier all reasonable assistance. The costs incurred or recovered in such negotiations or litigation will be for the Supplier's account

(b) If at any time any allegation of infringement of patent design copyright or other intellectual property right is made in respect of any parts provided for or modifications made to the Maintained Equipment by the Supplier in providing the Maintenance Services or in the Supplier's reasonable opinion is likely to be made the Supplier may at its own expense modify or replace such parts or modifications without detracting from the overall performance of the Maintained Equipment the Supplier making good to Merseytravel any loss of use of the Maintained Equipment during modification or replacement so as to avoid the infringement The procedures detailed in Clause 8 shall then take effect as if Merseytravel had required a variation save that the Supplier shall not be entitled to request any increase to the Charges

9. **Charges**

(a) For the performance of the Maintenance Services Merseytravel shall pay to the Supplier the Standard Maintenance Fees

(b) The Standard Maintenance Fees and the shall be inclusive of all expenses and the supplier shall be responsible for all costs and expenses incurred in providing the Maintenance Services

(c) The Standard Maintenance Fees shall be due and payable in full to the Supplier on the following basis within 30 days of receipt of a valid invoice from the supplier submitting invoices at monthly intervals during the Term in respect of the provision of the Maintenance Services the first of which shall be submitted

one month in arrears following signature of this Agreement; such invoices shall be accompanied by details of the time spent by the Supplier in the provision of the Maintenance Services and the date of performance together with details of the tasks undertaken during that period

(d) Whenever under this Agreement any sum of money shall be recoverable from or payable by the Supplier the same may be deducted from any sum then due or which at any time thereafter may become due to the Supplier under this Agreement or any other agreement with Merseytravel

(e) All Charges are exclusive of vat or any other applicable tax which shall be paid by Merseytravel at the rate and in the manner for the time being prescribed by law

10. **Supplier Warranties**

(a) The Supplier represents and warrants to Merseytravel that the Maintenance Services shall be performed:

(i) by an appropriate number of suitably qualified and experienced personnel;

(ii) using all reasonable skill and care and in accordance with Good Industry Practice; and

(iii) in accordance with all applicable laws and regulations in force from time to time

(b) All components and equipment supplied or used in the course of the provision of the Maintenance Services shall operate in accordance with their technical specifications

(c) The Supplier has the full capacity and authority and all necessary permissions licences and consents necessary to enter into and perform its obligations under this Agreement

11. **Liability**

(a) The Supplier shall indemnify and keep indemnified Merseytravel against injury (including death) to any persons or loss of or damage to any property which may arise out of the act default or negligence of the Supplier their employees or agents in consequence of the Supplier's obligations under this Agreement and against all claims demands proceedings damages costs charges and expenses whatsoever in respect thereof or in relation thereto

(b) Without thereby limiting its responsibilities under this clause 11 the Supplier shall insure with a reputable insurance company against all loss of and damage to property and injury to persons (including death) arising out of or in

consequence of its obligations under this Agreement and against all actions claims demands costs and expenses in respect thereof

(c) Except in respect of injury including death to a person due to negligence, for which no limit applies, the liability of the Contractor under this clause 11 shall not exceed £3,000,000

(d) Neither party excludes or limits liability to the other party for:

(i) fraud or fraudulent misrepresentation;

(ii) death or personal injury caused by negligence; or

(iii) breach of any obligations implied by section 12 of the Sale of Goods Act 1979 or section 2 of the Supply of Goods and Services Act 1982

(e) Neither party shall be liable to the other in relation to:

(i) any loss of profits, business revenue, or goodwill;

(ii) any special, indirect or consequential loss

12. **Confidentiality**

(a) The term Confidential Information does not include any information that:

(i) is or becomes generally available to the public (other than as a result of its disclosure by the receiving party or its representatives in breach of this clause);

(ii) was available to the receiving party on a non-confidential basis before disclosure by the disclosing party;

(iii) was is or becomes available to the receiving party on a non-confidential basis from a person who to the receiving party's knowledge is not bound by a confidentiality agreement with the disclosing party or otherwise prohibited from disclosing the information to the receiving party;

(iv) was known to the receiving party before the information was disclosed to it by the disclosing party;

(v) the parties agree in writing is not confidential or may be disclosed; or

(vi) is developed by or for the receiving party independently of the information disclosed by the disclosing part

(b) Each party shall keep the other party's Confidential Information confidential and shall not:

(i) use any Confidential Information except for the purpose of exercising or performing its rights and obligations under this Agreement ('Permitted Purpose'); or

(ii) disclose any Confidential Information in whole or in part to any third party except as expressly permitted by this clause

(c) A party may disclose the other party's Confidential Information to those of its representatives who need to know that Confidential Information for the Permitted Purpose provided that:

(i) it informs those representatives of the confidential nature of the Confidential Information before disclosure; and

(ii) at all times it is responsible for the representatives' compliance with the confidentiality obligations set out in this Clause 12

(d) A party may disclose Confidential Information to the extent required by law by any governmental or other regulatory authority or by a court or other authority of competent jurisdiction provided that to the extent it is legally permitted to do so it gives the other party as much notice of the disclosure as possible

(e) Each party reserves all rights in its Confidential Information no rights or obligations in respect of a party's confidential information other than those expressly stated in this Agreement are granted to the other party or are to be implied from this Agreement

(f) The provisions of this Clause 12 shall continue to apply after termination of this Agreement

13. **Term and Termination**

(a) This Agreement shall commence on the Commencement Date and unless terminated earlier in accordance this Clause 13, this Agreement shall continue for the Term. In addition and without prejudice to sub-clauses 13(b) 13(c) and 13(d) below Merseytravel shall be entitled to terminate this Agreement upon four weeks' notice in writing to the Supplier

(b) Merseytravel may terminate this Agreement if the Supplier commits a material breach of any term of this Agreement and if that breach is remediable fails to remedy that breach within a period of 14 days after being notified in writing to do so

(c) Merseytravel may terminate this Agreement forthwith on written notice if the Supplier shall become insolvent or bankrupt or make an arrangement with their creditors to go into liquidation whether compulsory or voluntary (except liquidation for the purpose of reconstruction)

(d) Merseytravel shall be entitled to terminate this Agreement forthwith on written notice and recover from the Supplier the amount of any loss resulting from such termination if the Supplier shall have offered or given or agreed to give to any person any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or having done or forborne to do any action in relation to the obtaining or execution of this Agreement or any other agreement with

Merseytravel or the showing or forbearing to show favour or person in relation to this Agreement or if the like acts shall have been done by any person employed by them or acting on their behalf (whether with or without the knowledge of the supplier) or if in relation to any agreement with Merseytravel the Supplier or any person employed by them or acting on their behalf shall have committed an offence under the Bribery Act 2010 or any statutory modification or re-enactment thereof for the time being in force or shall have given any fee or reward the receipt of which is an offence under section 117 of the local government act 1972 or any statutory modifications or re-enactments thereof for the time being in force

(e) Upon completion or termination of this Agreement the Supplier shall immediately deliver to Merseytravel all files (including computer files) documentation correspondence specifications paper reports and any property belonging to Merseytravel which may be in their possession or under their control

(f) On termination of this agreement for any reason, the Supplier shall promptly refund such portion of the Charges (as the case may be) as relates to the period after expiry or termination on a pro rata basis

(g) Termination of this Agreement shall not prejudice any rights or obligations of either party which shall have accrued or become due prior to the date of termination

(h) Notwithstanding anything contained elsewhere in this Agreement the provisions of Clauses 11 and 12 shall survive the expiry or termination of this Agreement howsoever caused and shall continue thereafter in full force and effect

14. **Force Majeure**

Neither party shall be in breach of this Agreement nor liable for delay in performing or failure to perform any of its obligations under this Agreement if that delay or failure results from events circumstances or causes beyond its reasonable control In these circumstances the affected party shall be entitled to a reasonable extension of the time for performing its obligations provided that if the period of delay or non-performance continues for 3 months the party not affected may terminate this agreement by giving 14 days written notice to the other party

15. **Assignment & Subcontracting**

(a) This Agreement is personal to the parties and neither party shall assign transfer mortgage charge subcontract declare a trust of or deal in any other manner with any of its rights and obligations under this Agreement without the prior written consent of the other party. Each party confirms it is acting on its own behalf and not for the benefit of any other person

(b) The Supplier shall not without the prior written consent of Merseytravel, which shall not be unreasonably withheld, subcontract the Maintenance Service or any part thereof or make any subcontract with any person or persons for the provision of any part of the Maintenance Service. Any such consent shall not relieve the Supplier from any of its obligations under this Agreement and any part of the Maintenance Services performed by such subcontractor shall be deemed to be performed by the Supplier

16. **Waiver**

No failure or delay by a party to exercise any right or remedy provided under this Agreement or by law shall constitute a waiver of that or any other right or remedy nor shall it preclude or restrict the further exercise of that or any other right or remedy No single or partial exercise of any right or remedy shall preclude or restrict the further exercise of that or any other right or remedy

17. **Notice**

Any notices to be served on either of the parties by the other shall be sent by first class post to the registered office of the other party and shall be deemed to have been received by the addressee within 72 hours of posting

18. **Entire Agreement**

This Agreement constitutes the entire agreement between the parties and supersedes all previous discussions correspondence negotiations arrangements understandings and agreements between them relating to its subject matter
Each party acknowledges that in entering into this Agreement it does not rely on and shall have no remedies in respect of any representation or warranty (whether made innocently or negligently) that is not set out in this Agreement
Each party agrees that its only liability in respect of those representations and warranties that are set out in this Agreement (whether made innocently or negligently) shall be for breach of contract

19. **Variation**

No variation of this Agreement shall be effective unless it is in writing and signed by the parties (or their authorised representatives)

20. **Severance**

If any court or competent authority finds that any provision of this Agreement (or part of any provision) is invalid illegal or unenforceable that provision or part-provision shall to the extent required be deemed to be deleted and the validity and enforceability of the other provisions of this Agreement shall not be affected
If any invalid unenforceable or illegal provision of this Agreement would be valid enforceable and legal if some part of it were deleted the parties shall negotiate in good faith to amend that provision so that as amended it is legal valid and enforceable and to the greatest extent possible achieves the parties' original commercial intention

21. **No Partnership or Agency**

Nothing in this Agreement is intended to or shall be deemed to establish any partnership or joint venture between any of the parties constitute any party the agent of another party nor authorise any party to make or enter into any commitments for or on behalf of any other party

22. **Third-Party Rights**

No person other than a party to this Agreement shall have any rights to enforce any term of this Agreement

23. **Governing Law and Jurisdiction**

This Agreement and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the law of England and Wales
The parties irrevocably agree that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with this Agreement or its subject matter or formation (including non-contractual disputes or claims)

IN WITNESS whereof the parties hereto have executed this Agreement

SIGNED for and on behalf of
MERSEYTRAVEL

..... Signed

Jon Mackenzie
..... Name

Authorised signatory

SIGNED for and on behalf of
JACKSON (FIRE & SECURITY) LIMITED

.....Signed

STEVE HAND.....Name

Director

Schedule 1

Specification

Specification.

MerseyTunnels Estate

Planned & Reactive Maintenance of Fire Alarm, Intruder Alarm and Gas Suppression Systems.
3 Year Term (Extendable to 4 Years)

September 2025 – September 2028(9)

Contents

1. Introduction

1.1 General

The Fire Alarm, Gas Suppression and Intruder alarms are linked with the Morley Fire alarm system and then transmitted over Merseytravels IP network and presented on Display Screens at the Primary Combined Control Centre (CCC) at Georges Dock Building and the fall back CCC at Kings Square.

It is planned that in the near future that all Bus Stations and Ferry Terminals that are the responsibility of Merseytravel will also be linked to the system over the IP network. Any additions will subject to a contract variation if installed.

1.2 Fire Alarm Description

The fire alarm systems throughout the Mersey Tunnels estate are a variety of sizes and complexities. The estate comprises 30 sites incorporating the Queensway Tunnel & Kingsway tunnels as well as associated plant room, control rooms & administration buildings. The buildings are listed below. The buildings are located in the approximate vicinity of the tunnels and are identified on the site layout drawing in the drawings section of this specification.

Number Location

1 King's Square – Albion Street - police control - Queensway Tunnel, Albion Steet, Birkenhead, Wirral, CH41 5HA

2 King's Square - Chester Street Building – Queensway Tunnel, Albion Steet, Birkenhead, Wirral, CH41 5HA

3 King's Square – Toll Inspector's Office – Queensway Tunnel, Albion Steet, Birkenhead, Wirral, CH41 5HA

4 King's Square - Pump room – Queensway Tunnel, Albion Steet, Birkenhead, Wirral, CH41 5HA

5 Sidney Street - Vent Station – Queensway Tunnel, Wirral, CH41 1BN

6 Morpeth Dock – Pump room – Queensway Tunnel, Shore Road, Wirral

7 Taylor Street – Vent Station – Queensway Tunnel, Wirral

8 Rendel Street - Pump room – Queensway Tunnel, Wirral

9 Rendel Street – Pylon Buildings – Queensway Tunnel, Wirral

10 Woodside – Vent Station – Queensway Tunnel, Pacific Road, Wirral, CH41 1LJ

11 Mid River - Pump Room – Queensway Tunnel

12 Georges Dock Building Vent Station - Control Room – Queensway Tunnel, Georges Dock Way, Liverpool, L3 1DD

13 New Quay Street – Vent Station - Pump room – Queensway Tunnel, Liverpool

14 New Quay Street – Vent Station – Queensway Tunnel, Liverpool

15 North John Street – Vent Station – Queensway Tunnel, Liverpool, L2 5QY

16 Old Haymarket - Pump room – Queensway Tunnel, Liverpool, L1 6EN

17 Old Haymarket - Pylon Buildings – Queensway Tunnel, Liverpool, L1 6EN

18 Limekiln Lane – Police Point – Kingsway Tunnel - Juvenal Street, Liverpool,L3 3BE

19 Limekiln Lane – Switchroom / Pump room – Kingsway Tunnel, Juvenal Street, Liverpool,L3 3BE

20 Liverpool Portal – Pump Room – Kingsway Tunnel
21 Victoria Vent - Kingsway Tunnel, Waterloo Road, Liverpool, L3 7HY
22 Mid River – Pump Room – Kingsway Tunnel
23 Promenade Vent – Kingsway Tunnel, Seacombe Promenade, Wirral, CH44 6PA
24 Wallasey Portal - Pump Room – Kingsway Tunnel
25 P&T Data Centre – Wallasey Works Unit – Kingsway Tunnel, Oakdale Road, CH44 7HU
26 Asset Management Offices - Wallasey Works Unit – Kingsway Tunnel, Oakdale Road, CH44 7HU
27 Gorsey Lane – Pump Room – Kingsway Tunnel, CH44 7HT
28 Hinson Street – Warehouse Storage Facility, Birkenhead, Wirral, CH41 5BX
29 Kingsway Inverts, Kingsway Tunnel
30 Queensway Inverts, Queensway Tunnel

1.3 Service Requirements - 3 Years extendable to 4 Years

The successful organisation shall be responsible for the inspection and testing of the fire alarm systems and gas suppression systems and intruder/bandit alarms at each site in accordance with the relevant British Standards and this specification. The contractor shall familiarise themselves with each of the sites and it is advised that a survey is undertaken of each site before providing a tender price, this shall be arranged with Merseytravel. The service agreement shall last for 3 years with an option for extending to 4 years.

In addition to the requirements above, the maintenance organisation shall provide a 5 day training programme on every 2nd year of the agreement for the training of all Mersey Tunnels staff and engineers responsible for operating and monitoring the Fire Alarm system. Training shall be provided by a qualified representative of the system manufacturer.

2. Standards

The testing & maintenance of the systems must be in accordance with the following standards;

BS 5839-1:2017- Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises

BS5306 – 0:2020 - Fire protection installations and equipment on premises. Guide for the selection of installed systems and other fire equipment

BS EN – 15004-1: 2019 - Fixed firefighting systems - gas extinguishing systems. Design, installation and maintenance

BS 4737- 1988. Intruder Alarm Systems.

NCP 120 - NSI Code of Practice for Intruder Alarms

In addition to Fire alarm specific standards, the supplier must also comply with;

a) Latest relevant BS Standards, Codes of Practice and European Directives.

b) Health and Safety at Work Act.

c) Building Regulations.

d) Local Authority Fire Officer.

e) Electricity Supply Regulations.

f) MTR//04/12 Local Arrangements for Contractors working on MT premises

g) CIBSE Guides and Commissioning Codes.

h) IEE Wiring Regulations – 19th Edition BS7671: 2019, including all subsequent amendments.

i) Offices, Shops and Railway Premises Act. 1963

j) Factories Act. 1961

k) COSHH Regulations 1988.

l) The Electricity (Factories Act) Special Regulation 1980 and 1994.

m) Electricity at Work Regulations 1989.

n) Mersey Tunnels By-laws

o) Insurance Company Inspection Requirements.

p) FOC Rules.

3. Accreditations

The successful organisation must be accredited by the following organisations;

- BAFE (British Approvals for Fire Equipment)
- FIA (Fire Industry Association)
- NIS GOLD (National Security Inspectorate)

4. Fire Alarm Maintenance

4.1 Commentary

The system at each site shall be subject to inspection and servicing so that faults are identified, preventive measures can be taken to ensure the continued reliability of the system, false alarm problems are identified and suitably addressed, and the user is made aware of any changes to the building that affects the protection afforded by the system. Periodic inspection and servicing needs to be carried out by a competent person with specialist knowledge of fire detection and fire alarm systems, including knowledge of the causes of false alarms, sufficient information regarding the system, and adequate access to spares.

4.2 Periodic Inspection & test of the system

The inspections listed below should be carried out at each of the 30 sites. In the case of detectors (all types), tests should ensure that products of combustion are capable of passing unhindered from the protected area to the sensing chamber/elements of the detector and not simply test the ability of the detector to sample/verify the status of the atmosphere already in the sensing chamber. The requirements in this specification should be carried out by a competent fire engineer . The period between successive inspection and servicing visits should not exceed six months. If this is not implemented, it will be considered that the system is no longer compliant with BS 5839.

The following are applicable.

1) **The system logbook must be examined. It should be ensured that any faults recorded have received appropriate attention.**
2) **A visual inspection should be made to check whether structural or occupancy changes have affected the compliance of the system with the recommendations BS5839 Pt 1 for the siting of manual call points, automatic fire detectors and fire alarm devices. Particular care should be taken to verify whether:**

    a. **all manual call points remain unobstructed and conspicuous;**
    b. **any new exits have been created without the provision of an adjacent manual call point;**
    c. **any new or relocated partitions have been erected within 500 mm horizontally of any automatic fire detector**
    d. **any storage encroaches within 300 mm of ceilings,**
    e. **a clear space of 500 mm is maintained below each automatic fire detector, and that the ability of the detector to receive the stimulus that it has been designed to detect has not been impeded by other means;**
    f. **any changes to the use or occupancy of an area makes the existing types of automatic fire detector unsuitable for detection of fire or prone to unwanted alarms;**
    g. **any building alterations or extensions require additional fire detection and fire alarm equipment to be installed.**

3) The records of false alarms should be checked. The rate of false alarms during the previous 12 months should be recorded and any action taken should be in accordance with BS5839 Pt1 30.2.
4) The battery voltage should be measured with the mains on to check the steady state charge voltage and check it is within the manufacturer's recommendations.
5) Batteries and their connections should be examined and momentarily load tested with the mains disconnected (other than those within devices such as manual call points, detectors and fire alarm sounders of a radio-linked system), to ensure that they are in good serviceable condition and not likely to fail before the next service visit. Vented batteries should be examined to ensure that the specific gravity of each cell is correct.
6) The fire alarm functions of the Control & Indicating Equipment (CIE) should be checked by the operation of at least one detector or manual call point on each circuit. An entry should be made in the logbook indicating which initiating devices have been used for these tests.
7) The operation of the fire alarm devices should be checked.
8) All controls and visual indicators at CIE should be checked for correct operation.
9) All ancillary functions of the CIE should be tested.
10) All fault indicators and their circuits should be checked, where practicable, by simulation of fault conditions.
11) All printers should be tested to ensure that they operate correctly and that characters are legible.
12) It should be ensured that all printer consumables are sufficient in quantity or condition to ensure that the printer can be expected to operate until the time of the next service visit.
13) All further checks and tests recommended by the manufacturer of the CIE and other components of the system should be carried out.
14) On completion of the work, any outstanding defects should be reported to the premises management, the system logbook should be completed and an inspection and servicing certificate should be issued.

4.3 Periodic inspection and test of the system over a 12 month period

In addition to the work described in the previous section, the following work shall be carried out every year, commencing at the start of the contract and every 12 months thereafter.

1) The switch mechanism of every manual call point should be tested, either by removal of a frangible element, insertion of a test key or operation of the device as it would be operated in the event of fire.
2) All automatic fire detectors and remote detectors should be examined, as far as practicable, to ensure that they have not been damaged, painted, or otherwise adversely affected. Thereafter, every detector should be functionally tested. The tests used need prove only that the detectors are connected to the system, are operational and are capable of responding to the phenomena they are designed to detect. Where fitted, detector remote indicators should also be checked for correct operation.
3) Every heat detector should be functionally tested by means of a suitable heat source, unless operation of the detector in this manner would then necessitate

replacement of part or the entire sensing element (e.g. as in fusible link point detectors or non-integrating line detectors). Special test arrangements will be required for fusible link heat detectors. The heat source should not have the potential to ignite a fire; live flame should not be used, and special equipment might be necessary in explosive atmospheres.

4) Point smoke detectors should be functionally tested by a method that confirms that smoke can enter the detector chamber and produce a fire alarm signal (e.g. by use of apparatus that generates simulated smoke or suitable aerosols around the detector). It should be ensured that the material used does not cause damage to, or affect the subsequent performance of, the detector; the manufacturer's guidance on suitable materials should be followed.

5) Optical beam smoke detectors should be functionally tested by introducing signal attenuation between the transmitter and receiver, either by use of an optical filter (or any similar method of simulating obscuration by smoke), smoke or simulated smoke.

6) Aspirating fire detection and fire alarm systems should be functionally tested by a method that confirms that smoke can enter the detector chamber and produce a fire alarm signal. It should be ensured that the material used does not cause damage to or affect the subsequent performance of the detectors; the manufacturer's guidance on suitable materials should be followed. Furthermore, appropriate testing should be performed to verify that smoke is able to enter each sampling point (or collection of sampling points that are recommended by the manufacturer to cover the same area as a point smoke detector). This can be achieved by introducing smoke into each sampling point in turn and verifying a response at the detector. However, where access is restricted or other site conditions prevent this, other verification techniques should be employed such as:

   a. verifying transport time from furthest hole or a dedicated test point and comparing with previously recorded results to identify deviations;
   b. confirming that the flow monitoring is capable of detecting loss of a single sampling point (or collection of sampling points that are deemed to be acceptable for the risks involved);
   c. inspection of flow readings and comparing with previously recorded results to identify deviations which would indicate a loss of detection performance;
   d. Measurement of the pressure at each sampling point and comparing with previously recorded results to identify deviations which would indicate a loss of detection performance. The technique used is dependent on the particular features of the technology, the risk and details of the specific application. Such techniques may also be supported by visual inspection of sampling points where this is possible but it is essential to verify that adequate detection performance is maintained. Details of the techniques used should be recorded and agreed with all parties.

7) Carbon monoxide fire detectors should be functionally tested by a method that confirms that carbon monoxide can enter the detector chamber and produce a fire alarm signal (e.g. by use of apparatus that generates carbon monoxide or a gas that has a similar effect on the electro-chemical cell as carbon monoxide).WARNING.

Carbon monoxide is a highly toxic gas, and suitable precautions should be taken in its use.

8) Flame detectors should be functionally tested by a method that confirms that the detector will respond to a suitable frequency of radiation and produce a fire alarm signal. The guidance of the manufacturer on testing of detectors should be followed.

9) In fire detection systems that enable analogue values to be determined at the CIE, it should be confirmed that each analogue value is within the range specified by the manufacturer.

10) Multi-sensor detectors should be operated by a method that confirms that products of combustion in the vicinity of the detector can reach the sensors and that a fire signal can be produced as appropriate. The guidance of the manufacturer on the manner in which the detector can be functionally tested effectively should be followed.

11) All fire alarm devices should be checked for correct operation. It should be confirmed that visual fire alarm devices are not obstructed from view and that their lenses are clean.

12) All unmonitored, permanently illuminated filament lamp indicators at CIE should be replaced.

13) Radio signal strengths in radio-linked systems should be checked for adequacy, and the results recorded.

14) A visual inspection should be made to confirm that all readily accessible cable fixings are secure and undamaged.

15) The cause and effect programme should be confirmed as being correct by activating at least one cause and observing the operation of effects.

16) The standby power supply capacity should be checked to establish it remains suitable for continued service.

17) All further annual checks and tests recommended by the manufacturer of the CIE and other components of the system should be carried out.

18) On completion of the work, any outstanding defects should be reported to the premises management and a record of the inspection and test should be made on the servicing certificate.

4.4 Non – Routine attention

Special inspection on appointment of a new servicing organization

a) A special inspection shall be carried out when a new organisation takes responsibility for maintenance of the system and existing records, where available, should be studied, to obtain sufficient information to be documented for effective future servicing of the system.

b) Major areas of non-compliance with BS5839-1 should be documented and identified to the premises management. The classification of a non-compliance as major is subjective, but the following non-compliances should be regarded as major:

1) An inadequate number of call points to conform to BS5839-1;
2) Inadequate provision of fire detection to conform to BS5839-1 for the Category of system that the system was designed to meet;

3) Sound pressure levels that fail to conform to the recommendations of BS5839-1;
4) Standby power supplies that fail to conform to BS5839-1. The absence of any standby power supply should be highlighted to the premises management, as systems that incorporate no standby supply breach the Health and Safety (Safety Signs and Signals) Regulations 1996 [8];
5) Cabling with fire resistance that fails to conform to BS5839-1;
6) Monitoring of circuits that fail to conform to BS5839-1;
7) Standards of electrical safety such that the recommendations of BS5839-1 or BS7671 are not satisfied;
8) Exposure to, or experience of, false alarms, such as to preclude compliance with BS5839-1;
9) Changes in the use, layout and construction of the protected premises that may impact on the effectiveness of the system;
10) The absence of a zone plan or other suitable diagrammatic representation of the premises.

c) If no logbook suitable for enabling compliance with BS5839-1 exists, a suitable logbook should be provided by the servicing organisation.

Arrangements for repair of faults or damage

1) The Contractor shall provide an emergency call out to deal with any fault or damage that occurs to the system such that, on a 24 h basis, a technician from the maintenance organisation must attend the premises within eight hours of a call from the user.
2) The name and telephone number of the maintenance emergency call out should be prominently displayed at the main CIE, and the records and documentation should be kept updated.

4.5 Battery Replacement

In the 3rd year of the contract all the batteries in the Fire Alarm Panels and Wireless Heat detectors shall be changed on a like for like basis.

4.6 Corruption of Operating Programme

If for any reason the Contractor corrupts or deletes the operating programme at any location, the Contactor at his own expense, shall reinstate the programme.

5. Very Early Smoke Detection Apparatus (Vesda) Detection Maintenance

5.1 Commentary

The system at each site shall be subject to periodic inspection and servicing so that faults are identified, preventive measures can be taken to ensure the continued reliability of the system, false alarm problems are identified and suitably addressed, and the user is made aware of any changes to the building that affects the protection afforded by the system. Periodic inspection and servicing needs to be carried out by a competent person with specialist knowledge of VESDA systems, including knowledge of the causes of false alarms, sufficient information regarding the system, and adequate access to spares.

5.2 Periodic Inspection & test of the system

The inspections listed below should be carried out at each of the 4 sites. In the case of detectors (all types), tests should ensure that products of combustion are capable of passing unhindered from the protected area to the sensing chamber/elements of the detector and not simply test the ability of the detector to sample/verify the status of the atmosphere already in the sensing chamber. The recommendations in this specification should be carried out by a competent person. The period between successive inspection and servicing visits should be as detailed below and in accordance with "VESDA Maintenance guide"

1) 6 Monthly; Check power supply: Inspect pipe network.
2) 12 Monthly: Perform system integrity smoke test.
3) 24 Monthly: Clean sampling points; Flush pipe network
4) 36 Monthly; Replace all filters.*
5) Every Visit; Check air flow (per pipe). Fill in log book.

*To be changed in 3rd year of contract.

5.3 The locations of the VESDA systems are:

1.	Georges Dock Building (GDB):	DATA Centre, Ground Floor.
2.	GDB First Floor:	Combined control room. First Floor
3.	Wallasey Plaza:	DATA Centre.
4.	Wallasey Plaza:	Asset Management office. First Floor

6. Linear Heat Detection Cable Maintenance

6.1 Commentary

The system at each site shall be subject to periodic inspection and servicing so that faults are identified, preventive measures can be taken to ensure the continued reliability of the system, false alarm problems are identified and suitably addressed, and the user is made aware of any changes to the building that affects the protection afforded by the system. Periodic inspection and servicing needs to be carried out by a competent person with specialist knowledge of liner heat detection cables systems, including knowledge of the causes of false alarms, sufficient information regarding the system, and adequate access to spares.

6.2 Inspection maintenance and testing

12 Monthly

1. Carry out visual inspection of control panels.
2. Record any faults present
3. Inspect system log book to ensure all faults noted have been rectified
4. Measure and record power supply voltage.
5. At end of each cable run on test loop is provided to enable a functional test of the cable to be undertaken by a suitable heat source .Once the cable has been activated the burnt portion is to be removed and the end re-made off.

2 Yearly

1. Carry out a visual inspection of the entire length of the heat detection cable for any damage.
2. Carry out a visual inspection of the entire length of the heat detection cable for obstructions.
3. Carry out a visual inspection of the entire length of the heat detection cable for security of all fixings
4. Ensure all connections, terminations and terminals are all secure

6.3 Type of equipment

Display module;	PATOL LDM-519-CCL (11 Total)
Cable:	PATOL LHDC (Approx. 12,045M Total)

6.4 Locations

KW Mid River;	4 x Displays.2 x 1050m and 2 x 1225M LHDC
QW Old Haymarket;	1 X Display; 1 x 845M LHDC
QW New Quay;	1 x Display; 1 X 500M LHDC
QW Rendel Street;	1 x Display; 1 x 510M LHDC
QW Kings Square;	1 x Display; 1 x 810M LHDC
QW Morpeth Dock;	3 x Display; 3 x 1610M LHDC

7. Gas Suppression System Maintenance

7.1 Commentary

Gaseous systems should be subject to a planned inspection by the maintenance organisation at least every six months, whilst it is also recommended that a weekly programme of visual inspection is carried out by the system user to ensure that the system is free of faults and that all pressure gauges, where applicable, indicate the correct pressure. The servicing and maintenance provisions for all systems state that the permissible loss should be not more than 5% of the extinguishant mass and, in the case of super-pressurized

systems, more than 10% loss in pressure, adjusted for temperature. This should also include an inspection of the pipework and nozzles to ensure that they are not obstructed, and remain in the designed position, and to ensure that all operating controls are properly set and that components have not been damaged. Room integrity, and thus gas retention/hold time should be revalidated annually.

7.2 Inspection, maintenance and testing

The inspection report with recommendations shall be filed with the owner. At least every 6 months, the container contents shall be checked as follows:

a) Liquefied gases: if a container shows a loss in extinguishant quantity of more than 5 % or a loss in pressure (adjusted for temperature) of more than 10 %, it shall be refilled or replaced.

b) Non-liquefied gases: for inert gas extinguishants, pressure is an indication of extinguishant quantity.

Unless otherwise specified by the authority, if an inert gas extinguishant container shows a loss in pressure (adjusted for temperature) of more than 5 %, it shall be refilled or replaced. Where container pressure gauges or weight-monitoring devices are used for this purpose, they shall be compared to a separate calibrated device at least annually.

All extinguishant removed from containers during service or maintenance procedures shall be collected and recycled, or disposed of in an environmentally sound manner, and in accordance with existing laws and regulations. Inert gas mixtures based on those gases normally found in the earth's atmosphere are exempted from this requirement.

The date of inspection and the name of the person performing the inspection shall be recorded on a tag attached to the container.

Container

Containers shall be subjected to periodical tests as required by the relevant national standard.

Hose

All system hoses shall be examined annually for damage. If visual examination shows any defect, the hose shall be replaced.

Enclosures

At least every 12 months it shall be determined whether boundary penetration or other changes to the protected enclosure have occurred that could affect leakage and extinguishant performance. If this cannot be visually determined, it shall be positively established by repeating the test for enclosure integrity in accordance with Annex E of BS EN – 15004-1.

Where the integrity test reveals increased leakage that would result in an inability to retain the extinguishant for the required period, remedial action shall be carried out.

Where it is established that changes to the volume of the enclosure or to the type of hazard within the enclosure, or both, have occurred, the system shall be redesigned to provide the original degree of protection.
It is recommended that the type of hazard within the enclosure and the volume it occupies, be regularly checked to ensure that the required concentration of extinguishant can be achieved and maintained.

Maintenance

The maintenance organisation shall review the installers requirements for inspection of the system along with any residual risks identified.

Service schedule

A service schedule shall be produced by the maintenance organisation which shall include requirements for periodic inspection and test for the complete installed system, including pressurized containers, as specified in the appropriate national standards. The schedule shall be carried out by the maintenance organisation who shall provide to the user a signed, dated report of the inspection, advising any rectification carried out or needed. During servicing, every care and precaution shall be taken to avoid release of extinguishant.

7.3 Battery Replacement

In the 3rd year of the contract all batteries in the control panels shall be changed on a like for like basis
The Gas suppression systems used in the Mersey Tunnels buildings are as follows;

QUEENSWAY TUNNEL

KINGS SQUARE

• Comms room	1 1230 NOVEC cylinder 17.8 litre

SIDNEY STREET VENTILATION STATION

• HV Room (SP)	4 CO^2 cylinders 76.8KG
• Transformer room	5 CO^2 cylinders 76.8KG

MORPETH DOCK

• Pump Room	1 1230 NOVEC cylinder 17.8 litre
• Sump	1 1230 NOVEC cylinder 17.8 litre

WOODSIDE VENTILATION STATION

• HV Room	5 CO^2 cylinders 76.8KG

TUNNEL .MID RIVER

- Pump Room — 1 1230 NOVEC cylinder 17.8 litre
- Sump — 1 1230 NOVEC cylinder 17.8 litre
- Comms Room — 1 1230 NOVEC cylinder 5 litre

GEORGES DOCK BUILDING

- Pump Room — 2 HFC 227ea cylinder 61.6KG
- HV Room. Sub-Basement — 3 CO^2 cylinders 67.5 litre
- HV Room Second Floor (SP) — 4 CO^2 cylinders 74.8KG
- Transformer Room. Exhaust Chamber — 4 CO^2 cylinders 67.5 litre
- DATA Centre — 2 1230 NOVEC cylinder 17.8 litre
  1 1230 NOVEC cylinder 5 litre

NORTH JOHN STREET VENTILATION STATIONHV Room (MT)
4 CO^2 cylinders 67.5 litre

- HV Room (SP) — 2 CO^2 cylinders 67.5 litre
- Transformer Room — 11 CO^2 cylinders 50KG

KINGSWAY TUNNEL

GORSEY LANE PUMP ROOM

- Pump Room — 3 Inergen cylinders 80 litre
- Gorsey Lane sump — 4 Inergen cylinders 80 litre

WALLASY PLAZA

- Diesel generator — 3 Inergen cylinders 80 litre
- DATA Centre
  - Data centre 1st floor — 1 1230 NOVEC cylinder 17.8
  - Data centre ground floor — 1 1230 NOVEC cylinder 17.8
  - Data centre under ground floor — 1 1230 NOVEC cylinder 5 litre

WALLASEY PORTAL PUMP ROOM

- Pump Room — 10 Inergen cylinders 80 litre
- Sump — 20 Inergen cylinders 80 litre

PROMENADE VENTILATION STATION

- HV Room (MT) — 3 Inergen cylinders 67 litre
- HV Room (SP) — 4 Inergen cylinders 80 litre
- Transformer TX 1 room — 1 Inergen cylinder 80 litre
- Transformer TX 2 room — 2 Inergen cylinders 67 litre
- Transformer TX 3 room — 2 Inergen cylinders 67 litre
- Transformer TX 4 room — 2 Inergen cylinders 67 litre
- Generator Room North — 4 Inergen cylinders 67 litre
- Generator Room South — 4 Inergen cylinders 80 litre
- Bulk fuel tank room — 1 Inergen cylinder 67 litre

MID RIVER PUMP ROOM

- Pump Room — 6 Inergen cylinders 80 litre

- Sump (Nitrogen Foam System) — 16 Argonite cylinders

VICTORIA VENTILATION STATION

- HV Room (MT) — 3 Inergen cylinders 67 litre
- HV Room (SP) — 4 Inergen cylinders 80 litre
- Transformer TX 1 room — 2 Inergen cylinders 67 litre
- Transformer TX 2 room — 2 Inergen cylinders 67 litre
- Transformer TX 3 room — 2 Inergen cylinders 80 litre
- Transformer TX 4 room — 2 Inergen cylinders 80 litre
- Generator Room north — 4 Inergen cylinders 67 litre
- Generator Room south — 4 Inergen cylinders 67 litre
- Bulk fuel tank room — 2 Inergen cylinders 67 litre

LIVERPOOL PORTAL PUMP ROOM

- Pump Room — 13 Inergen cylinders 80 litre
- Sump — 15 Inergen cylinders 80 litre

LKL

- Pump Room — 3 Inergen cylinders 80 litre
- Sump — 5 Inergen cylinders 80 litre
- Switch Room — 3 Inergen cylinders 80 litre

8. Nitrogen Foam Suppression System

8.1 Commentary

Gaseous systems should be subject to a planned inspection by the maintenance organisation at least every six months, whilst it is also recommended that a weekly programme of visual inspection is carried out by the system user to ensure that the system is free of faults and that all pressure gauges, where applicable, indicate the correct pressure, the weekly inspection will be carried out by Merseytravel staff. The servicing and maintenance provisions for all systems state that the permissible loss should be not more than 5% of the extinguishing mass and, in the case of super-pressurized systems, more than 10% loss in pressure, adjusted for temperature. This should also include an inspection of the pipework and nozzles to ensure that they are not obstructed, and remain in the designed position, and to ensure that all operating controls are properly set and that components have not been damaged.

8.2 Inspection, maintenance and testing

FPG (Fire Protection Group) FIRE DETECTION & FOAM SYSTEM

Mechanical Maintenance Storage Tanks & Pipework

6 Monthly and annual inspections to include the following:-

1. Physical damage.
2. Any cylinder exhibiting excessive or abnormal surface corrosion or damage is to be subjected to a detailed inspection in accordance with BS EN 1968.2002.Transportable gas cylinder periodic inspection and testing of seamless gas cylinders or BS EN 1803.2002 Transportable gas cylinder Visually inspect the gas cylinders, water tanks, foam tank for corrosion or periodic inspections and testing for welded carbon steel gas cylinders.
3. Annually take sample of foam agent and pass results to MT.
4. Visually inspect all distribution pipework, flexible hoses and discharge foam generator for corrosion or physical damage (note this will require access into the sump with confined spaces regulation's compliance.)
5. Security of fixings to be verified.
6. Once a year accumulated dirt in pipework and foam generator to be blown through with Nitrogen or compressed air to prove the system is unobstructed and clear.

Electrical Maintenance

6 Monthly

Control Equipment

Control equipment and associated panels to be examined and tested using the following methodology;

1. All external circuits will be isolated
2. All fire indication zones will be tested for corre3ct mode of operation.
3. All fault indicators to be tested for correct operation.
4. Detector line or loop voltage to be checked.
5. Check evacuate alarm sounder switches and mute switches for correct operation.
6. Check extinguishant release mechanism up to but not including to point of discharge.
7. Check all remote signalling is fully functioning (Supervisory Control and Data Acquisition SCADA to control room)

Power Supplies and Batteries

1. Test battery charger output with battery disconnected.
2. Load test all batteries.
3. Test battery voltage with charger connected.
4. Ensure all terminals are tight with a torque limiting screwdriver.
5. All component parts to be inspected and cleaned where necessary.

Field Operating Devices

1. All field equipment to be checked for physical damage.
2. All visual inspections will be made to ensure that any structural changes have not affected the requirements of the registrations regarding location of the triggering devices.

3. 100% of linear heat detection to be physically inspected for any damage.(Sump access required via ladders)
4. 100% of linear heat detection to be operationally tested using a specialist linear heat detection thermal oven. (Sump access required)
5. Visual checks of all linear heat detection fixings are secure and undamaged and free from obstructions. (Sump access required)
6. Check for correct operation electrical extinguishant release mechanism up to but not including the point of discharge.

Crowcon Gas Detection System Maintenance

6 Monthly

1. Verify and check termination of incoming cables from detection heads and mains supply.
2. Check electrical connections are tight (with torque limiting screw driver)
3. Check integrity of enclosure. (IP and EXd)
4. Inspect whole system for mechanical damage and wear.
5. Check all operational voltage, power supply and battery.
6. Check and adjust zero readings.
7. Check and adjust all alarm levels
8. Apply calibration gas to each detecting head and check readings and head outputs.
9. Test the operation of all switches, indicators and relays.
10. Test the operation of all accessories, sounders etc. supplied by Crowcon.
11. Test any smoke or heat detectors.
12. Ensure performances of all gas detectors are not affected by dirt or surrounding objects.
13. Check condition of all cables between components of the system
14. Ensure the system is fully operational after servicing.
15. Attach repair/overhaul identification label complete with signature and date.

Maintenance Report

Following each maintenance visit, the contractor must supply a comprehensive report shall be provided listing all results/ fault's and any recommendations for remedial actions, if any.

9. Intruder Alarm Maintenance

9.1 Commentary

The system at each site shall be subject to periodic inspection and servicing so that faults are identified, preventive measures can be taken to ensure the continued reliability of the system, false alarm problems are identified and suitably addressed, and the user is made aware of any changes to the building that affects the protection afforded by the system. Periodic inspection and servicing needs to be carried out by a competent person with specialist knowledge intruder alarm systems, including knowledge of the causes of false alarms, sufficient information regarding the system, and adequate access to spares.

9.2 Inspection, maintenance and testing

The inspection report with recommendations shall be filed with the contract administrator. At least every 6 months.

1. **Check the installation, location of all equipment and devises are to the relevant standard**
2. **Check the satisfactory operation of all detection devices including deliberately operating devices**
3. **Inspect all flexible connections.**
4. **Check mains and standby power supplies including correct charging rates.**
5. **Check control unit for correct operation.**
6. **Check remote signalling equipment to control room.**
7. **Test remote signalling to control room**
8. **Check alarm system is fully operational**
9. **Check interfaces to bandit alarms**
10. **Fill in maintenance report form**

The locations of the Intruder alarms are:

1. **Cash Room. Kings Square**
2. **Toll Inspectors office. Kings Square.**
3. **Void "D". Kings Square.**
4. **Cash Room. Wallasey.**
5. **Toll Inspectors Office. Wallasey.**
6. **Garage Workshop Asset Management Wallasey**
7. **Stores Asset Management Wallasey**
8. **Stores (ex. boiler house) Asset Management Wallasey**

9.3 Battery Replacement

In the 3rd year of the contract all batteries in the control panels shall be changed on a like for like basis.

10. Payments / Invoicing

During the set up period the Contractor shall provide an invoicing schedule for the Contract works. The invoicing schedule shall be based on the tendered rates and extend for the period of one year.

Contractor's invoices will be as per monthly, quarterly, six monthly schedules. Monthly schedules include Emergency call outs. Service and testing invoices must show the buildings to which the work relates and the sum associated with each separate building and each test system.

All additional works undertaken shall be invoiced to the Merseytravel based on schedules of rates submitted elsewhere in this specification and/or otherwise agreed by Merseytravel.

All completed testing / service records be submitted ahead of the monthly invoice. All records must be submitted with a reconciliation cover sheet stating the following

- Building names
- Date of service / tests
- Description of service / test carried out

Requests for payment shall be submitted by the Contractor to the client on a monthly basis and in accordance with the invoicing schedule (as above). Payment shall be made in accordance with Merseytravel standard terms and conditions. With each request for payment the Contractor must include a copy of the monthly report. The structure of the report will be agreed during the set-up period; it must provide status clarity and highlight any omissions.

11. Site Meetings

6 Monthly

The Contractor shall be represented at 6 monthly site meetings (represented by Service Manager or equivalent) when a review of the maintenance operations shall be undertaken in conjunction with the Merseytravel.

A written report shall be provided one week prior to this meeting to include the following information.

i. Engineering

1. Response times to faults
2. Activities completed
3. Number of faults (identify number of faults)
4. Number of call-outs
5. Completed Planned Preventative Maintenance / Servicing / Testing items
6. Outstanding Planned Preventative Maintenance / Servicing / Testing items
7. Asset schedule / property schedule review
8. Additional works response
9. Proposed works over next 3 months
10. Merseytravel liaison
11. Health and Safety issues
12. Client instructions / copy emails

ii. Annual

The contractor will be represented at annual performance review meeting by the Service Manager and Contracts Manager. The contractor must present completed annual reconciliation logs and device schedules for each building, to demonstrate 100% of devices in 100% of the buildings have been tested. The meeting will discuss the contractor performance over the last 12 months and contract management issues.

iii. Financial

Schedule of invoices for additional works (appendix to main report)

12. Access to Works

The first two weeks of the contract will be a set period. During this period the Contractor shall raise a query list / information required schedule for Merseytravel. During this two week period Asset Management (AM) staff will assist with site orientation to enable the Contractor to formulate his client operating procedures. It is the Contractor's Contract Manager's responsibility to brief, train, and inform the new operative(s) in familiarisation and orientation of the contract, site and his client operating procedures. New operatives must undergo a Merseytravel contractor induction prior commencing work on site.

The Client will provide reasonable access to enable the Contractor to survey and maintain the systems within each of the buildings in normal working hours.

Access to certain equipment is at very high level (such as ceiling voids, stairwells, ventilation station ceilings etc.) The successful contractor will assume responsibilities for the supply of all necessary access equipment.

Plant areas, voids and lift shafts. The Contractor shall allow for coordinating access (including access equipment) to all areas with fire alarm / emergency lighting equipment. This will involve the Contractor liaising directly with other servicing maintenance contractors employed by Merseytravel. The Contractor shall fully co-ordinate access to these locations

The Contractor and his employees shall comply with the following specific requirements:

a) The Contractor will not be given exclusive access to the sites but only as necessary to enable him to carry out the specified works. Any areas outside the sites shall remain strictly out of bounds, without prior consent.

b) Any keys which shall be loaned to the contractor shall be kept in the care of the supervisor, who shall be responsible for their safe keeping. Such keys shall be collected from the client's representative and returned on arrival and departure. It is the successful contractor's responsibility to ensure that keys are not left accessible to unauthorised persons, mislaid or lost. Lost keys will be chargeable at the rate of the necessary cost for re-suiting the relevant area / building(s).

c) The Contractor shall note that generally, the properties will be in use by both staff and travelling public at times and the Contractor shall provide and display appropriate warning notices where hazards are created in the course of carrying out the works.

13. Emergency Call Out

Additional to the servicing of the fire alarm /intruder alarms/gas suppression/foam systems, the successful contractor shall provide a full emergency call out service to the Tunnels properties.

The administration of and formal lines of communication regarding the call out service shall be subject to discussion and confirmation prior to the contractor possession of the site, however the service shall be undertaken on the rates submitted within the pricing documents.

The successful contractor will be required to provide a four hour response time and a two hour response time for emergencies if so requested by Merseytravel.

15 . Social Value

As a strategic body for Liverpool City Region, the Combined Authority has an opportunity and responsibility to deliver real benefits for our people and places. To achieve this, we are committed to maximising Social Value at the heart of everything we do.
Social Value considers the social, environmental and economic benefits a project or organisation can provide to the communities it operates in. To maximise our impact, Social Value commitments are considered within our procurement and commissioning activity alongside the more traditional economic measures.
During the life of the contract Merseytravel expects the Contractor to work with the LCR community. This activity could include making a donation(s), in kind contributions and/or demonstrable benefits specific to Liverpool City Region community projects.
Bidders may also provide additional social value benefits. Please see the attached social value matrix.

16. Drawings to be provided

FIRE ALARM

EFT0063 - 01 - Kings Square Albion St Fire Alarm System
EFT0063 - 02 - King's Square Chester Street Fire Alarm System
EFT0063 - 03 - Kings Square Toll Inspectors Fire Alarm System
EFT0063 - 04 - Kings Square Pump Room Fire Alarm System
EFT0063 - 05 - Sidney Street Fire Alarm System
EFT0063 - 06 - Morpeth Dock Fire Alarm System
EFT0063 - 07 - Taylor Street Fire Alarm System
EFT0063 - 08 - Rendell Street Pump Room Fire Alarm System
EFT0063 - 09 - Rendell Street Fire Alarm System
EFT0063 – 10.1 - Woodside Ventilation Base 1st Fire Alarm System
EFT0063 - 10.2 - Woodside Ventilation 2nd 3rd Fire Alarm System
EFT0063 - 11 - Queensway mid River Fire Alarm System
EFT0063 - 12 - George's Dock Building Fire Alarm System Sub- Basement
EFT0063 – 12.1 - George's Dock Building Fire Alarm System Basement
EFT0063 – 12.2 - George's Dock Building Fire Alarm System Ground

EFT0063 – 12.3 - George's Dock Building Fire Alarm System 1st Flr
EFT0063 – 12.4 - George's Dock Building Fire Alarm System 2nd Flr
EFT0063 – 12.5 - George's Dock Building Fire Alarm System 3rd Flr
EFT0063 – 12.6 - George's Dock Building Fire Alarm System 4th Flr
EFT0063 – 12.7 - George's Dock Building Fire Alarm System 5th Flr
EFT0063 - 13 - New Quay Street Pump Room Fire Alarm System
EFT0063 - 14 - New Quay Street Ventilation Fire Alarm System
EFT0063 - 15.1 - North John St Ventilation Base Grd Fire Alarm System
EFT0063 - 15.2 - North John St Ventilation 1st 2nd Fire Alarm System
EFT0063 - 16 - Old Haymarket Pump Room Fire Alarm System
EFT0063 - 17 - Old Haymarket Pylon Fire Alarm System
EFT0063 - 18 - Limekiln Lane Police Point Fire Alarm System
EFT0063 - 19 - Limekiln Lane LV Switch rooms Fire Alarm System
EFT0063 - 20 - Liverpool Portal Fire Alarm System
EFT0063 - 21 - Victoria vent station Fire Alarm System
EFT0063 - 22 - Kingsway mid River Fire Alarm System
EFT0063 - 23 - Promenade vent station Fire Alarm System
EFT0063 - 24 - Wallasey Portal Fire Alarm System
EFT0063 - 25 - P & T Data Centre Fire Alarm System
EFT0063 - 26 - P & T Building Fire Alarm System
EFT0063 - 27 - Asset Management Building Fire Alarm System
EFT0063 - 28 - Gorsey Lane Fire Alarm System
EFT0063 - 29 - Hinson Street Fire Alarm System
EFT0063 - 30 - Overall Site Plan of Fire Alarm Locations
EFT0063 – 31.1 – Kingsway Linear Heat Detecting Cable Schematic
EFT0063 – 31.2 – Queensway Linear Heat Detecting Cable Schematic
EFT0063 - 33 - Fire Alarm Legend
EFT0063 - 34 – Mersey tunnels Fire Alarm IP Schematic

KINGSWAY TUNNEL NO FOAM SYSTEM

FPG22048-A02-01-Mid river plant room layout.
FPG22048-A02-02-Mid river sump layout
FPG22048-A02-03-System section view layout.
FPG22048-A02-04-Gas detection panel layout
FPG22048-A02-06-Nitogen foam system Mechanical P&ID
FPG22048-A02-08-N2 foam suppression nitrogen gas pipe isometric
FPG22048-A02-09-N2 N2 foam suppression foam pipe isometric
FPG22048-A02-101-Electrical schematic, input relay logic.& mimic display.
FPG22048-A02-103- Electrical schematic SCADA switching detail.
FPG22048-A02-104- Electrical schematic extinguishing status indication switching connect detail.
FPG22048-A02-105- Electrical schematic electrical schematic. DC supply & aux relay control.
FPG22048-A02-106- Electrical schematic DC-DC convertor

17.Equipment Schedule

Item No	Component	Qty
	FIRE ALARM EQUIPMENT	
	Fire Alarm control panel. Morley DXc Range. 1 loop ,.(Morley IAS714-001-111	28
	Fire Alarm control panel. Morley DXc Range. 4 loop ,.(Morley IAS714-001-241	4
	Rs232 Card.Morley IAS795-122	23
	Network Card. Morley IAS 795-099	5
	Visualise Cube. Morley IAS 5.6.02-NPS 12255	23
	Smoke Detector. Apollo. XP95 Range.	521
	Smoke Detector Wireless. Apollo. XP95 Range AD-2000	40
	Batteries for wireless detector. Duracell AA 1.5vPro-Cell range	240
	Detector Base. Apollo XP65 Range.AD2005	284
	Sounder/ Beacon Base .Apollo. XP95 Range. AD 2038	310
	Heat Detector. Apollo XP95 Range.AD-2002	61
	Heat Detector Wireless. Apollo XP95 Range	0
	Manual Call Point. Apollo.XP95 range.AD-2012	196
	Manual Call Point Wireless. Apollo XP95 Range	2
	Interface Input/output Unit.X95 Range.	184
	Beam Detector. Loop Powered XP95 Range	1
	Data Acquisition & Control Module.Adam-6000	10
	Relay Interface Unit.	n/a
	Open Area Sounder/Beacon	146
	Open Area Sounder/Beacon Wireless	6
	Fire Smart Cube	n/a
	FP200 cable	41,000M
	Batteries.12V .7A (Yuasa 12v7) 17AH x 10	102
	VISUALEYEZ Alarm Management System. Morley IAS by Honeywell	8
	PC to run VISUALEYEZ	8
	Monitor to Display VISUALEYEZ	8
	LINEAR HEAT DETECTION	
	Display Panel. PATOL LDM-519-DDL(700-451)	11
	EOL Unit.PATOL	11
	Cable. PATOL LHDC (700-070)	12,045M
	GAS EQUIPMENT	
	Control Panel. Sigma XT (Kentec EXT 1000)	17
	Control Panel. Kentec EXT 1000	n/a
	Battery. 12v 7A. (Yuasa 12v7)	34
	(Also Refer to main document)	

	INTRUDER ALARM	
	Control Panel. Galaxy Dimension. (Honeywell GD 96)	11
	Keypad. Galaxy Dimension	6
	Galaxy Dimension. Rio	3
	D/Tech PIR	11
	Roller Shutter Contact	4
	Door Contact	3
	GSM dialler	1
	Battery.12v 7Ahr.	11
	FOAM SYSTEM	
	Control panel - FPG	1
	Control panel – Crowcon Vortex Rack	1
	Pipework , Tanks & Foam Generators-FPG	n/a
	Gas Cylinders.Argonite.Ginge Kerr	16
	VESDA SYSTEM	
	VESDA .VLC RO (CCC in Georges Dock)	1
	VESDA.xtralis VLF(GDB Data Centre)	1
	VESDA. Laser Scanner(AM Office)	1
	VESDA. Xtralis.VLF-250(Wallasey. Data Centre)	1
	Batteries-As specified for individual model.	4

Schedule 2

Supplier Tender and Fees

Planned & Reactive Maintenance of Fire Alarm, Intruder Alarm and Gas Suppression Systems.
3 Year Term (Extendable to 4 Years)

Tender Questions

Question Number	Question	Weighting (%)
1.1	Please explain the experience you, or your subcontractors have in working with; a) Morley FA systems (or similar open protocol systems) connected by IP network. b) Gas suppression systems. c) Nitrogen foam systems, d) Intruder alarms.	15

Answer:

a) Morley FA Systems - Jackson Fire (open protocol, IP networked)

All our engineers are fully BAFE SP203 and NSI Gold accredited, with over 20 years' experience installing, commissioning, and maintaining Morley fire alarm panels and other open protocol IP networked systems.

Our Branch Director has 8 years' direct experience managing and maintaining Merseytravel's Morley systems, ensuring full compliance and reliability across their estate.

Our engineers are also skilled in networked cause-and-effect programming, fault finding, and integration with third-party systems, giving Merseytravel confidence in both day-to-day maintenance and system upgrades.

b) Gas Suppression - Jackson Fire

Jackson Fire & Security engineers are fully trained and accredited to service a wide range of gas suppression systems. On the Merseytravel estate this includes Inergen systems (80L & 67L cylinders), CO_2 systems, HFC/FM200, Novec 1230, and Argonite.

We have provided planned maintenance and 24/7 emergency call-out support on these systems for the past 8 years, helping to ensure system reliability, business continuity, and full compliance with safety standards.

c) Nitrogen foam systems - Crowcon Detection Ltd

For nitrogen foam suppression, we work with Crowcon Detection Ltd, a global specialist in fire and gas detection and suppression systems.

Crowcon manufactured the nitrogen foam system installed at the Merseytravel estate and have provided support on this system for the past 8 years. Their engineers have extensive experience in the delivery, commissioning, and maintenance of both foam and inert gas-based systems.

This direct manufacturer involvement gives Merseytravel the assurance of expert support, reliable performance, and full compliance in high-risk environments where nitrogen foam systems are deployed.

d) Intruder Alarm Systems - Jackson Fire

Jackson Fire & Security has been working with intruder alarm systems for over 30 years, carrying out installation, commissioning, and ongoing maintenance for many different types of clients. We hold NACOSS Gold accreditation, which means our work is regularly checked to make sure it meets the highest security standards. Our engineers are also fully trained to link intruder alarms with other building security and monitoring systems.

1.2	Please explain what you believe are the key risks associated with the works and how you propose to mitigate these risks to ensure that Merseytravel has a high confidence that the maintenance will be delivered within the costs you have submitted.	10

Answer:

Key Risks and Mitigations

1. Access to Mid-River Systems

- Risk: Getting to mid-river sites can be difficult and could cause delays or extra cost.
- Mitigation: We will plan access carefully during mobilisation and agree times with Merseytravel's Asset Management team in advance. This avoids wasted visits, keeps labour efficient, and prevents unplanned costs.

2. Confined Space Work

- Risk: Working in confined spaces is higher risk and could slow the job down or increase costs if not managed properly.
- Mitigation: All our engineers are trained and certified for confined space entry. We prepare method statements and permits before attending site so work is carried out safely and on time, avoiding delays or extra labour charges.

3. Handling Heavy Gas Cylinders

- Risk: Moving cylinders can create safety risks, delays, or the need for extra staff.
- Mitigation: We use lifting aids and follow safe manual handling procedures. This keeps staff safe, avoids injury-related downtime, and removes the need for costly additional manpower.

4. Emergency Call-Outs

- Risk: Not meeting response times could lead to penalties or reputational damage.
- Mitigation: We run a 24/7 helpdesk supported by local engineers on rota. Our resource model means we can meet two- and four-hour response times at fixed rates, protecting both service delivery and cost certainty.

5. Supply Chain and Spare Parts

- Risk: Delays in sourcing parts or cylinders could extend downtime and add costs.
- Mitigation: We hold common spares locally and have priority agreements with key suppliers. This reduces lead times, avoids prolonged outages, and keeps work within the agreed budget.

6. Staffing and Competency

- Risk: Engineer absence or turnover could affect service delivery and add costs if external support is needed.
- Mitigation: We operate with a multi-skilled team of accredited engineers who are cross-trained across fire, suppression, and security systems. This ensures continuity of service and avoids the need for expensive subcontract cover.

Cost Control Assurance

To give Merseytravel confidence that maintenance will be delivered within the agreed costs, we will:

- Use a compliance tracker and internal audit programme to avoid repeat visits and rework.
- Operate fixed rates for callouts and scheduled maintenance, giving full cost transparency.
- Apply lessons learned from our current partnership with Merseytravel, where we have consistently delivered within agreed budgets.
- Provide regular spend vs. plan reports so any variance is identified early and corrected.

Our KPI maintenance figures have consistently achieved 80-90% every month over the last 8 years on the Merseytravel estate. We will maintain this performance level throughout the life of this contract by applying the same proven processes, controls, and resources. This provides Merseytravel with assurance that maintenance will be delivered reliably, safely, and within the agreed costs.

1.3	Please detail your proposed maintenance team organisation structure to demonstrate how you will be able to provide the necessary front line and technical office back–up support to successfully carry out maintenance of the wide variety of fire alarm , fire suppression and intruder alarm equipment that is used in the Merseytravel estate.	10

Answer:

Proposed Maintenance Team Organisation

1. Local Frontline Team

We have engineers based at three local offices, ensuring full coverage of the Merseytravel estate:

- **Wirral Office** – Branch Director (Lee Fowler) and 2 accredited engineers
- **Liverpool Office** – Branch Director (Gary Brumby) and 2 accredited engineers
- **Mold Office** – Branch Director (Richard Buckley), Operations team and 13 accredited engineers

All engineers are multi-skilled in fire alarms, suppression systems, intruder alarms, and access control. Each vehicle is fully stocked with tools and spares, supported by local stores, enabling faults to be resolved on the first visit.

Our 24/7/365 rota ensures Merseytravel's two- and four-hour emergency response times are always achieved without the need for additional call-out costs.

2. Technical Office Support
Our Wirral office acts as the main contract hub for:

- Logging and dispatching calls
- Providing first-line technical support to engineers and Merseytravel staff
- Managing inspection records, certificates, and compliance reports

Specialist engineers (e.g. for VESDA, nitrogen foam suppression) are available when advanced expertise is required. Our head office team of 10 staff provide additional operations and admin support, ensuring continuity and escalation cover.

3. Management and Communication

- Branch Directors oversee daily work, ensure legal compliance, and are escalation contacts for Merseytravel.
- We hold regular site meetings and annual reviews to monitor service, fix issues quickly, and keep improving.

4. Resilience and Cost Control

- If engineers are unavailable, we use cross-cover between offices to keep service continuous.
- Centralised spare parts reduce downtime and cut down on return visits.
- Clear escalation routes give Merseytravel one point of contact and confidence that both technical and contractual issues will be resolved quickly.
- This set-up avoids wasted visits, speeds up response, and ensures all work is delivered within the agreed contract costs.

Outcome
This organisation structure has already supported KPI achievement of 80-90% across the Merseytravel estate over the last 8 years. By combining a strong local presence with technical

back-up and cross-office resilience, we guarantee a fast, reliable response to all sites, full compliance with standards, and consistent delivery within agreed contract costs.		
1.4	Please detail what you believe are the key health and safety risks are associated with the works and how you propose to mitigate these risks. In addition please outline your overall approach to the management of Health & Safety for the works from inception to completion.	10

Answer:

Key Health & Safety Risks and Mitigations

Merseytravel's estate includes challenging environments such as ventilation shafts, service tunnels, and mid-river access points at Kingsway and Queensway. All work will follow Merseytravel's contractor rules, with engineers booking in and out via the Combined Control Room.

The main risks and controls are:

- Working at Height – managed with fall-arrest equipment, edge protection, and trained staff, following the Work at Height Regulations.
- Confined Spaces – only carried out by confined-space trained engineers, using gas monitors, rescue plans, and permit-to-work systems.
- Pressurised Gas Cylinders (Suppression Systems) – handled with lifting aids, trained engineers, and in line with manufacturer and HSE guidance.
- Manual Handling – reduced by using mechanical aids, team lifts, and site-specific risk assessments.
- Working in Public Areas – managed by barriers, signage, segregation of work zones, and planning work to minimise passenger disruption.

We also prepare for emergencies with trained first-aiders, rescue plans for confined spaces, and clear communication with Merseytravel's control room.

Our Overall Approach to Health & Safety

- Before works start (Inception & Planning) – We produce a site-specific Health & Safety Plan and detailed risk assessments and method statements (RAMS), agreed in advance with Merseytravel.
- During delivery – All jobs use permit-to-work systems, toolbox talks, and are supervised by competent supervisors. Our engineers hold regular safety training refreshers (e.g. confined space, asbestos awareness, working at height).
- Monitoring – Branch Directors and our Quality & Compliance Manager check standards through audits, inspections, and site visits.

  Communication & Reporting – We actively encourage reporting of near-misses and incidents to maintain a culture of openness and improvement. On the Merseytravel

estate, our record shows zero reportable accidents or incidents over the last 8 years. This demonstrates the effectiveness of our safety management approach. We will continue to provide Merseytravel with regular H&S updates, giving full transparency and assurance that safety standards are being maintained.

- Communication – Near-miss and incident reporting is encouraged, with regular updates shared with Merseytravel for full transparency.

- Continuous improvement – Lessons learned from incidents, audits, and reviews are built into future work. Safety performance is reviewed regularly at contract meetings.

Accreditations and Assurance

- We are certified by SafeContractor and Constructionline, demonstrating our compliance with industry best practice.

- This structured approach ensures risks are identified early, controlled effectively, and continuously monitored. It also reduces the chance of accidents, downtime, or unexpected costs, giving Merseytravel confidence that works will be delivered safely, compliantly, and within budget.

A copy of our full Health & Safety Policy is available on request.

JACKSON
FOR FIRE & SECURITY SOLUTIONS

POLICY – HEALTH & SAFETY POLICY

FOR JACKSON FIRE & SECURITY UK LIMITED

HEALTH & SAFETY POLICY STATEMENT

We are satisfied that establishing and enforcing appropriate measures to control and monitor Health and Safety procedures is a vital part of running the business as an efficient and successful operation. To this end we will ensure that the Health and Safety at Work Act 1974 and any pursuant legal requirements imposed on the organisation are complied with in addition we will:

- Provide adequate control of the health & safety risks arising from our work activities;
- Consult with our employees on matters affecting their health & safety;
- Provide & maintain safe plant and equipment;
- Provide information, instruction, and supervision for employees;
- Ensure all employees are competent to do their tasks and to provide them with adequate training;
- Prevent accidents and cases of work-related ill health;
- Maintain safe and healthy working conditions;
- Review and revise this policy as necessary at regular intervals.

In order that the organisation can achieve these objectives, it is important that all Employees, Branches and Subcontractors recognise their legal duty, whilst at work, to take reasonable care for the health and safety of themselves and of other persons. Employees should also co-operate fully with the organisation, or anyone else concerned, to ensure that their obligations towards Health and Safety are complied with.

This Health and Safety Policy Statement, organisation and arrangements will be displayed on the organisation notice board, an electronic copy of which will be held on the organisations server and cloud-based portal.

Additional copies are available on request.

Signed:

Position: Managing Director

Dated: 06/01/2025

1.5	Please detail your arrangements for quality and how you will ensure all test and inspection results and any remedial works are fully documented, including updating wring diagrams, zone diagrams etc.	5

Answer:

Quality Management

We work under a Quality Management System accredited to ISO 9001, which covers every part of our service. To make sure our work is accurate and consistent:

- All engineers are fully trained to BAFE/FIA standards and use calibrated equipment.
- Engineers complete electronic service sheets on site, which are uploaded straight to our compliance system.

- Test results are checked and approved by our Wirral office before they are issued to Merseytravel.

- Regular internal audits and six-monthly contract reviews make sure standards stay high and improvements are made where needed.

Recording Tests and Remedial Works

- Every test and inspection result is logged against the site and asset in our compliance system, creating a full history.

- Any remedial works are recorded on engineers' PDAs with photographs and signed off by the Merseytravel site contact.

- Where possible, engineers complete remedials during the same visit so there is less downtime, fewer repeat visits and therefore extra costs are avoided. Vehicles are stocked with common spare parts to support this.

- If extra work is needed, it is priced against the agreed schedule of rates by our office team and sent to Merseytravel for approval, giving full cost transparency.

Updating Records and Diagrams

- Once works are completed, we update all as-fitted information including wiring diagrams, zone charts, device schedules, and certification.

- Updates are stored in our Uptick compliance system, giving a secure, auditable record.

- Merseytravel will also have access to our customer portal, which provides real-time

- visibility of service reports, remedial actions, asset histories, and compliance status.

- Revised documents are sent to Merseytravel electronically, and in hard copy if required, so estate records always stay up to date.

Assurance for Merseytravel

This approach means:

- 100% of devices are tested and results recorded.

- All remedial works are properly logged, authorised, and costed.

- Records and diagrams are always kept current, supporting compliance and smooth future maintenance.

- A clear audit trail is available at all times, giving Merseytravel full confidence in both safety and value for money.

1.6	Please talk us through your interaction with trade certifying bodies and how these relationships will give Merseytravel the confidence that Maintenance will be carried out to the highest standards. A) BAFE B) FIA	10

	C) NIS Gold	

Answer:

A) BAFE

- All Jackson Fire & Security engineers are accredited under the BAFE SP203-1 scheme, which is the UKAS-audited standard for fire alarm competence.
- This scheme requires independent audits every year of our design, installation, commissioning, and maintenance activities.
- Our engineers are trained to BS 5839-1 and complete refresher training every three years, backed up by annual internal audits.
- For Merseytravel, this means every fire alarm and suppression system is maintained by engineers whose skills are independently checked and certified, giving full confidence in compliance and safety.

B) FIA

- We are an approved member of the Fire Industry Association (FIA).
- This membership gives our staff access to accredited training in fire alarms, extinguishers, emergency lighting, and suppression systems.
- It also ensures our engineers stay up to date with new regulations, standards, and technologies, which we apply directly to Merseytravel's estate.
- Our membership shows that we are active in raising industry standards, meaning Merseytravel benefits from best practice across the sector.

C) NSI Gold

- Jackson Fire & Security hold NSI Gold accreditation for both fire and security systems. This covers intruder alarms, CCTV, access control, fire alarms, and extinguishers.
- NSI Gold combines ISO 9001 quality management with strict technical standards and includes annual external audits to check both our office systems and site work.
- Our accreditation covers the full lifecycle: design, installation, commissioning, and servicing.
- Our most recent NSI audit confirmed compliance with no major non-conformities, proving that our processes and service delivery consistently meet the highest standards.

Summary

Together, our relationships with BAFE, FIA, and NSI Gold give Merseytravel independent, third-party assurance that:

- All engineers are trained and competent.
- Work is audited every year by external bodies.
- We apply the latest standards and best practice in fire, suppression, and security.
- Maintenance is delivered safely, reliably, and in full compliance with statutory requirements.

This means Merseytravel can be confident that its systems are maintained to the highest industry standards, with a supplier committed to quality, safety, and continual improvement.

1.7	Social Value: Please detail how you will deliver social value requirements as stated in paragraph 16 of the specification during the life of the contract. Please note your social value response must be relevant to delivery within the Liverpool City Region.	10

Answer:

Social Value Delivery in the Liverpool City Region

We understand how important social value is and will make sure this contract delivers benefits for local people, communities, and the environment across the Liverpool City Region (LCR). Our plan supports the Combined Authority's priorities by creating jobs, improving skills, supporting community groups, and helping the move towards Net Zero.

1. Supporting Local Jobs and Skills

- Using Local Suppliers – We will buy goods and services from businesses in the Liverpool City Region wherever possible, so more money stays in the local economy.
- Local Recruitment – We will look to fill roles linked to this contract with people from the LCR, helping local people into work.
- Training and Apprenticeships – We will offer apprenticeships, work placements, and training for local residents, working with local colleges and training providers.

2. Supporting Communities

At Jackson Fire & Security, we are committed to giving back to the Liverpool City Region by supporting local causes, community groups and business networks. We proudly sponsor Merseyside Blood Bikes, helping to keep their vital volunteer service running, and our Liverpool Branch Director, Gary, recently took part in the Anfield Abseil to raise funds for Woodlands Hospice. We also sponsor Higher Bebington Juniors FC, supporting grassroots sport in the area, and regularly engage with the local business community through events organised by the Chamber of Commerce, Shout Network and Hashtag Events.

Building on this, under this contract we will:

- Continue supporting local charities and community groups through fundraising, volunteering and in-kind help.
- Look for new ways to support youth projects and grassroots sports across the LCR.
- Work with schools and colleges to inspire young people about careers in engineering, technology, and business.

3. Protecting the Environment

- Reducing Travel Emissions – We will use low-emission vehicles, plan efficient travel routes, and use digital tools to cut down on unnecessary journeys.
- Sustainable Working – All of our work will follow our environmental policies, including recycling and cutting waste.
- Community Green Projects – We will support local projects such as tree planting and wildlife schemes to improve green spaces in the region.

4. Tracking and Reporting

We will keep clear records and provide Merseytravel with regular updates on what we deliver. This will include:

- Local jobs supported
- Apprenticeships, placements, and training opportunities offered
- Spending kept within the LCR supply chain
- Volunteering hours given to local groups
- Environmental improvements such as lower carbon emissions and more recycling

Fire Alarm Maintenance Contract 2025/28
(Including Intruder Alarms, Gas & Foam Systems)

Pricing Schedule

PRICE FOR MAINTENANCE AND TESTING OF FIRE ALARMS, NITROGEN FOAM SYSTEM, INTRUDER ALARMS, GAS SUPPRESSION SYSTEMS

All of this section to be completed, incomplete or conditional offers will result in the tender being disqualified. The format and presentation of tables in this section must not to be changed. Please complete and return by the tender return date. This section shall be read in conjunction with all documents in the specification.

Failure to return the completed Schedules and Declarations listed below will result in the quotation being disqualified.

Normal Working Hours (08.00 – 17.00) Monday – Friday Excluding bank holidays. Hourly rate for the site operative.	£50.00
Outside Normal Working Hours Monday to Friday (17.00 – 08.00) Hourly rate for the site operative.	£75.00
Saturday Hourly rate for the site operative.	£75.00
Sunday & Bank Holidays Hourly rate for the site operative.	£75.00
Material on Cost Contractor percentage addition on material cost	25%

For all extra over specific repair tasks, the AM Helpdesk will send a separate Merseytravel order to the Contractor. Invoices for works which do not have a valid Merseytravel order number will not be paid.

Carrying out fire alarm isolations - Per Isolation This will include isolating, devices, multiple devices, zones, etc. To enable dusty activities to commence, such building work. The isolation will include, isolation, noting the details of the isolation in the Fire Log Book, removing the isolation when requested and noting the removal in the Fire Log Book	£120.00
Carrying out fire alarm isolations, out of hours – Per Isolation Details as above	£120.00
Carrying out intruder alarm isolations - Per Isolation This will include isolating, devices, multiple devices, zones, etc. isolation when requested and noting the removal in the Intruder Log Book	£120.00
Carrying out intruder alarm isolations, out of hours – Per Isolation Details as above	£160.00
Carrying out gas suppression isolations - Per Isolation This will include isolating, devices, multiple devices, zones, etc. will include, isolation, noting the details of the isolation in the Gas suppression Log Book, removing the isolation when requested and noting the removal in the gas suppression Log Book	£160.00
Carrying out gas suppression isolations, out of hours – Per Isolation Details as above	£160.00
Standard Installation of Paxton Door Access Control This will include a Paxton PROXIMITY Reader - P50 and all associated equipment necessary as stated within the schedule below	£1,250.00

Component (Fire Alarm)	Cost £
Supply and fit of Morley FA control Panel.1 Loop.(IAS714-001-111)	£990.00
Supply and fit of Morley FA Control Panel.4 Loop.(IAS714-0001-241)	£1,850.00
Supply and fit of Visualise cube.(IASS 6.02-NPS12255)	£1,400.00
Supply and fit of Smoke Detector (Apollo XP95 range)	£165.00
Supply and fit of Smoke detector, Wireless.(Apollo X95 range AD2000)	£240.00
Supply and fit of Battery for Wireless detector.(Duracell AA 1.5V)	£105.50
Supply and fit of Detector Base (Apollo XP95 range, AD2005).	£111.00
Supply and fit of Sounder/beacon base (Apollo XP95 range.AD2038)	£255.00
Supply and fit of Heat Detector.(Apollo XP95 range.AD2002)	£165.00
Supply and fit of Manual Call Point (Apollo XP95 range.AD2012)).	£155.00
Supply and fit of Manual Call Point. Wireless. (Apollo XP95 range)	£220.00
Supply and fit of Interface input/output unt. (Apollo XP95 range)	£185.00
Supply and fit Beam Detector.(Apollo XP95 range. Loop powered)	£1,300.00
Supply and fit of Data/Control Module.(Adam-6000).	£250.00
Supply and fit of Open Area Sounder/Beacon. (Apollo XP95 range)	£250.00

Supply and fit of Open Area Sounder/Beacon. Wireless (Apollo XP95 range)	£270.00
Supply and fit of battery for FA panel.(Yuasa 12v7)	£145.00
Supply and fit of FA link cable (FP200) Per Meter	£5.00 per meter
Component(Linear Heat Detection)	
Supply and fit of LHD cable Display panel(PATOL LDM-519-DDL(700-451)	£650.00
Supply and fit of LHD cable EOL Unit (PATOL)	£220.00
Supply and fit of LHD cable (PATOL LHDC 700-070) *per meter*	£35.00
Component(Gas Suppression)	*
Supply and fit of Control Panel.(Kentecext1000/Sigma XT)	£650.00
Supply and fit of Battery for Control Panel. .(Yuasa 12v7)	£145.00
Supply and fit of INERGEN gas cylinders 80L *	£2,681.00
Supply and fit of INERGEN gas cylinders 67L *	£2,496.20
Supply and fit of CO2 gas cylinders .74.8/76.8kG *	£5,199.00
Supply and fit of HFC 227EA gas cylinders 61.6L *	£3,010.00
Supply and fit of NOVEC gas cylinders 17.8L *	£1,876.00
Supply and fit of NOVEC gas cylinders 5L *	£1,820.00
Supply and fit of ARAGONITE gas cylinder *	£2,114.00
(*) Percentage uplift for installing gas cylinders between 21-00 and 06-00hrs.Monday to Friday.	25%
Component(Intruder Alarm)	
Supply and fit Control Panel.(Honeywell GD 96)	£600.00
Supply and fit Keypad.(Honeywell Galaxy Dimension).	£240.00
Supply and fit of Control Panel.(Honeywell GD Rio)	£240.00

Supply and fit of PIR Detector	£175.00
Supply and fit of Roller Shutter door contact	£175.00
Supply and fit of door contact	£175.00

Supply and fit of Battery to suit control panel(12v 7AH)	£145.00

Number	Location	Cost £
1	King's Square – Albion Street - police control	£260.00
2	King's Square - Chester Street	£260.00
3	King's Square – Toll Inspector's Office	£260.00
4	King's Square - pump room	£260.00
5	Sidney Street Vent station	£260.00
6	Morpeth Dock Pump room	£260.00
7	Taylor Street Vent station	£260.00
8	Rendel Street - pump room	£260.00
9	Rendel Street - pylon	£260.00
10	Woodside - ventilation station	£260.00
11	Queensway - Midriver Pump room	£260.00
12	Georges Dock Building	£1,400.00
13	New Quay Street - pump room	£260.00
14	New Quay Street - ventilation station	£260.00
15	North John Street - ventilation station	£400.00
16	Old Haymarket - pump room	£260.00
17	Old Haymarket - pylon	£260.00
18	Limekiln Lane – Police Point	£260.00
19	Limekiln Lane – Switchroom / Pump room	£260.00
20	Liverpool Portal Pump room	£260.00
21	Victoria Vent station	£600.00
22	Mid River - Kingsway	£260.00
23	Promenade Vent station	£600.00
24	Wallasey Portal pump room	£260.00
25	P&T Data Centre	£260.00
26	P&T and Elevated Control	£400.00
27	Asset Management Buildings	£400.00
28	Gorsey Lane Pump room	£260.00
29	Hinson Street Store	£260.00
30	Kingsway Inverts	£260.00
31	Queensway Inverts	£260.00
32	Miscellaneous areas not covered above	£600.00
	TOTAL COST YEAR 1	**£10,560.00**

Number	Location	Cost £
1	King's Square – Albion Street - police control	£260.00
2	King's Square - Chester Street	£260.00
3	King's Square – Toll Inspector's Office	£260.00
4	King's Square - pump room	£260.00
5	Sidney Street Vent station	£260.00
6	Morpeth Dock Pump room	£260.00
7	Taylor Street Vent station	£260.00
8	Rendel Street - pump room	£260.00
9	Rendel Street - pylon	£260.00
10	Woodside - ventilation station	£260.00
11	Queensway - Midriver Pump room	£260.00
12	Georges Dock Building	£1,400.00
13	New Quay Street - pump room	£260.00
14	New Quay Street - ventilation station	£260.00
15	North John Street - ventilation station	£400.00
16	Old Haymarket - pump room	£260.00
17	Old Haymarket - pylon	£260.00
18	Limekiln Lane – Police Point	£260.00
19	Limekiln Lane – Switchroom / Pump room	£260.00
20	Liverpool Portal Pump room	£260.00
21	Victoria Vent station	£600.00
22	Mid River - Kingsway	£260.00
23	Promenade Vent station	£600.00
24	Wallasey Portal pump room	£260.00
25	P&T Data Centre	£260.00
26	P&T and Elevated Control	£400.00
27	Asset Management Buildings	£400.00
28	Gorsey Lane Pump room	£260.00
29	Hinson Street Store	£260.00
30	Kingsway Inverts	£260.00
31	Queensway Inverts	£260.00
32	Miscellaneous areas not covered above	£600.00
	TOTAL COST YEAR 2	**£10,560.00**

Number	Location	Cost £
1	King's Square – Albion Street - police control	£260.00
2	King's Square - Chester Street	£260.00
3	King's Square – Toll Inspector's Office	£260.00
4	King's Square - pump room	£260.00
5	Sidney Street Vent station	£260.00
6	Morpeth Dock Pump room	£260.00
7	Taylor Street Vent station	£260.00
8	Rendel Street - pump room	£260.00
9	Rendel Street - pylon	£260.00
10	Woodside - ventilation station	£260.00
11	Queensway - Midriver Pump room	£260.00
12	Georges Dock Building	£1,400.00
13	New Quay Street - pump room	£260.00
14	New Quay Street - ventilation station	£260.00
15	North John Street - ventilation station	£400.00
16	Old Haymarket - pump room	£260.00
17	Old Haymarket - pylon	£260.00
18	Limekiln Lane – Police Point	£260.00
19	Limekiln Lane – Switchroom / Pump room	£260.00
20	Liverpool Portal Pump room	£260.00
21	Victoria Vent station	£600.00
22	Mid River - Kingsway	£260.00
23	Promenade Vent station	£600.00
24	Wallasey Portal pump room	£260.00
25	P&T Data Centre	£260.00
26	P&T and Elevated Control	£400.00
27	Asset Management Buildings	£400.00
28	Gorsey Lane Pump room	£260.00
29	Hinson Street Store	£260.00
30	Kingsway Inverts	£260.00
31	Queensway Inverts	£260.00
32	Miscellaneous areas not covered above	£600.00
	TOTAL COST YEAR 3	**£10,560.00**

Number	Location	Cost £
1	Kingsway Midriver pump room.	£6,000
	Electrical , mechanical , gas systems, sump access etc.	
	Quarterly	
	TOTAL COST YEAR 1	£6,000

Number	Location	Cost £
1	Kingsway Midriver pump room.	£6,000
	Electrical , mechanical , gas systems, sump access etc.	
	Quarterly	
	TOTAL COST YEAR 2	£6,000

Number	Location	Cost £
1	Kingsway Midriver pump room.	£6,000
	Electrical , mechanical , gas systems, sump access etc.	
	Quarterly	
	TOTAL COST YEAR 3	£6,000

Number	Location	Cost £
	QUEENSWAY TUNNEL	
1	King's Square – (Comms Room)	£300.00
2	Sidney Street VS. (3 Systems)	£600.00
3	Woodside VS.(HV Room)	£300.00
4	Mid River (3 Systems)	£900.00
5	Georges Dock Building (6 systems)	£1,800.00
6	North John Street VS. (3 systems)	£900.00
	KINGSWAY TUNNEL	
1	Gorsey Lane Pump Room	£400.00
2	Wallasey Plaza (2 systems)	£600.00
3	Wallasey Portal Pump	£600.00
4	Promenade VS. (9 Systems)	£2,700.00
5	Mid River Pump Room (2 systems)	£600.00
6	Victoria VS. (9 Systems)	£2,700.00
7	Liverpool Portal Pump Room (2 systems)	£600.00
8	Lime Kiln Lane. (3 Systems)	£900.00
	TOTAL COST YEAR 1	£13,900.00

Number	Location	Cost £
	QUEENSWAY TUNNEL	
1	King's Square – (Comms Room)	£300.00
2	Sidney Street VS. (3 Systems)	£600.00
3	Woodside VS.(HV Room)	£300.00
4	Mid River (3 Systems)	£900.00
5	Georges Dock Building (6 systems)	£1,800.00
6	North John Street VS. (3 systems)	£900.00
	KINGSWAY TUNNEL	
1	Gorsey Lane Pump Room	£400.00
2	Wallasey Plaza (2 systems)	£600.00
3	Wallasey Portal Pump	£600.00
4	Promenade VS. (9 Systems)	£2,700.00
5	Mid River Pump Room (2 systems)	£600.00
6	Victoria VS. (9 Systems)	£2,700.00
7	Liverpool Portal Pump Room (2 systems)	£600.00
8	Lime Kiln Lane. (3 Systems)	£900.00
	TOTAL COST YEAR 2	£13,900.00

Number	Location	Cost £
	QUEENSWAY TUNNEL	
1	King's Square – (Comms Room)	£300.00
2	Sidney Street VS. (3 Systems)	£600.00
3	Woodside VS.(HV Room)	£300.00
4	Mid River (3 Systems)	£900.00
5	Georgos Dock Building (6 systems)	£1,800.00
6	North John Street VS. (3 systems)	£900.00
	KINGSWAY TUNNEL	
1	Gorsey Lane Pump Room	£400.00
2	Wallasey Plaza (2 systems)	£600.00
3	Wallasey Portal Pump	£600.00
4	Promenade VS. (9 Systems)	£2,700.00
5	Mid River Pump Room (2 systems)	£600.00
6	Victoria VS. (9 Systems)	£2,700.00
7	Liverpool Portal Pump Room (2 systems)	£600.00
8	Lime Kiln Lane. (3 Systems)	£900.00
	TOTAL COST YEAR 3	£13,900.00

Number	Location	Cost £
1	Kings Square .Cash Room	£140.00
2	Kings Square. Toll Inspectors Office	£140.00
3	Kings Square. Void D	£140.00
4	Wallasey. Cash Room	£140.00
5	Wallasey. Toll Inspectors Office	£140.00
6	Wallasey AM .Garage Workshop	£140.00
7	Wallasey AM .Stores	£140.00
8	Wallasey AM .Stores (ex Boiler House)	£140.00
9	Hinson Street Stores. Birkenhead.	£140.00
	TOTAL COST YEAR 1	£900.00
Number	**Location**	**Cost £**
1	Kings Square .Cash Room	£140.00
2	Kings Square. Toll Inspectors Office	£140.00
3	Kings Square. Void D	£140.00
4	Wallasey. Cash Room	£140.00
5	Wallasey. Toll Inspectors Office	£140.00
6	Wallasey AM .Garage Workshop	£140.00
7	Wallasey AM .Stores	£140.00
8	Wallasey AM .Stores (ex Boiler House)	£140.00
9	Hinson Street Stores. Birkenhead	£140.00
	TOTAL COST YEAR 2	£900.00
Number	**Location**	**Cost £**
1	Kings Square .Cash Room	£140.00
2	Kings Square. Toll Inspectors Office	£140.00
3	Kings Square. Void D	£140.00
4	Wallasey. Cash Room	£140.00
5	Wallasey. Toll Inspectors Office	£140.00
6	Wallasey AM .Garage Workshop	£140.00
7	Wallasey AM .Stores	£140.00
8	Wallasey AM .Stores (ex Boiler House)	£140.00
9	Hinson Street Stores. Birkenhead	£140.00
10	Replace batteries in all control panels	£405.00
	TOTAL COST YEAR 3	£1,305.00

Number	Location	Cost £
1	Carry out duties of Principal Contractor as required in the CDM Regulations 2015	£800.00
	TOTAL COST YEAR 1	£800.00

Number	Location	Cost £
1	Carry out duties of Principal Contractor as required in the CDM Regulations 2015	£800.00
	TOTAL COST YEAR 2	£800.00

Number	Location	Cost £
1	Carry out duties of Principal Contractor as required in the CDM Regulations 2015	£800.00
	TOTAL COST YEAR 3	£800.00

5 day training programme on every 2nd year of the agreement for the training of all Mersey Tunnels staff and engineers responsible for operating and monitoring the Fire Alarm system. Training shall be provided by a qualified representative of the system manufacturer.	**£2,400.00**

FORM OF TENDER				
Total cost Fire alarm Maintenance	£31,680.00			
Total cost Nitrogen Maintenance	£6,000.00			
Total Intruder alarm Maintenance	£3,105.00			
Total cost Gas Suppression Maintenance	£41,700.00			
Total cost CDM Duties	£2,400.00			
Total cost for Training	£2,400.00			
TOTAL TENDER PRICE	£87,285.00			

(In words) Eighty seven thousand two hundred and eighty five pounds

Percentage variation for inflation (if applicable)

Year 2	£87,285.00	*%
Year 3	£87,285.00	*%
Year 4	£87,285.00	*% (only if contract is extended to 4 years)

Signed ~~L.M.Fowler~~ STEVE HAND .....

On Behalf Jackson Fire & Security Ltd

Date 21st August 2025 13-11-25