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Department
for Environment
Food & Rural Affairs

COMMERCIAL IN CONFIDENCE

ADAS UK Ltd
Pendeford House
Pendeford Business Park
Wobaston Road
Wolverhampton
WV9 5AP

Our Ref: PS2158

Date: 04/03/2015

FTAO [REDACTED]

By Email to: [REDACTED]
[REDACTED]

Dear [REDACTED]

Award of contract for the supply of Services for PS2158 - Improving Risk Assessment and Re-Evaluating Thresholds for Dipterous Stemborers in Winter Wheat

Following your tender/proposal for the supply of the Services to the Department for Environment, Food and Rural Affairs (**Customer**), we are pleased to award this contract to you.

This letter (**Award Letter**) and its schedules set out the terms of the contract between the Customer and ADAS (**Contractor**) for the provision of the Services.

Unless the context otherwise requires, capitalised expressions used in this Award Letter have the same meanings as in the terms and conditions of contract attached to this Award Letter (**Conditions**).

If there is any conflict between this Award Letter and the Conditions, this Award Letter shall prevail. Please do not attach any Contractor terms and conditions to this Agreement as they will not be accepted by the Customer and may delay the process.

For the purposes of the Agreement, the Customer and the Contractor agree as follows:



Department
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Food & Rural Affairs

The Services shall be performed at ADAS UK Ltd, Pendeford House, Pendeford Business Park, Wobaston Road, Wolverhampton. WV9 5AP (*the Customer's premises*).

The charges for the Services shall be as set out in **Schedule 2**.

The specification of the Services to be supplied is as set out in **Schedule 1**.

The Term shall commence on **01/03/2015** and the Expiry Date shall be **31/08/2018** **unless extended or subject to early termination**.

The address for notices of the Parties are:

Customer

Health & Safety Executive (HSE),
Chemicals Regulation Directorate, Ground
Floor, Mallard House, Kings Pool, 3
Peasholme Green, YORK, YO1 7PX

Attention: [REDACTED]

Email: [REDACTED]

Contractor

ADAS UK Ltd
Pendeford House
Pendeford Business Park
Wobaston Road
Wolverhampton
WV9 5AP

Attention: [REDACTED]

Email: [REDACTED]

OR

Name: [REDACTED]

ADAS UK Ltd, ADAS Boxworth
Cambridge.
CB23 4NN

Email: [REDACTED]

The following persons are Key Personnel for the purposes of the Agreement:

Name

Title

[REDACTED]

[REDACTED]



Department
for Environment
Food & Rural Affairs

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

The Customer may require the Contractor to ensure that any person employed in the provision of the Services has undertaken a Disclosure and Barring Service check. The Contractor shall ensure that no person who discloses that he/she has a conviction that is relevant to the nature of the Services, relevant to the work of the Customer, or is of a type otherwise advised by the Customer (each such conviction a “**Relevant Conviction**”), or is found by the Contractor to have a Relevant Conviction (whether as a result of a police check, a Disclosure and Barring Service check or otherwise) is employed or engaged in the provision of any part of the Services.

Payment

All invoices should be sent, quoting a valid purchase order number (PO Number), to: SSCL, Lion House, Willowburn Trading Estate, Alnwick, Northumberland, NE66 2PF. Within [10] Working Days of receipt of your countersigned copy of this letter, we will send you a unique PO Number. You must be in receipt of a valid PO Number before submitting an invoice.

To avoid delay in payment it is important that the invoice is compliant and that it includes a valid PO Number, PO Number item number (if applicable) and the details (name and telephone number) of your customer contact (i.e. Contract Manager). Non-compliant invoices will be sent back to you, which may lead to a delay in payment. If you have a query regarding an outstanding payment please contact our Accounts Payable section either by email to ssd.enquiries@defra.gsi.gov.uk or by telephone **0845 603 7262** between 09:00-17:00 Monday to Friday.

Liaison

For general liaison your contact will continue to be [REDACTED]
[REDACTED]



Department
for Environment
Food & Rural Affairs

We thank you for your co-operation to date, and look forward to forging a successful working relationship resulting in a smooth and successful delivery of the Services. Please confirm your acceptance of the award of this contract by signing and returning the enclosed copy of this letter to [REDACTED] at the address below **within [7]** days from the date of this letter. No other form of acknowledgement will be accepted. Please remember to quote the reference number above in any future communications relating to this contract.

Yours faithfully,

[REDACTED]
Category Manager
Department for Environment, Food and Rural Affairs
Network Corporate Service
Area 4A Nobel House
17 Smith Square
London
SW1P 3JR

T: [REDACTED]

E-mail: [REDACTED]



Department
for Environment
Food & Rural Affairs

We accept the terms set out in this Award Letter and the Conditions.

SIGNED for and on behalf of ADAS

Signature: _____

Name (block capitals) _____

Position: _____

Date: _____



Department
for Environment
Food & Rural Affairs

www.gov.uk/defra

Contract for the Provision of Improving Risk Assessment and Re-Evaluating Thresholds for Dipterous Stem-borers in Winter Wheat [R&D]

PS2158

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This document/publication is also available on our website at:
www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/procurement@defra.gsi.gov.uk

SECTION 1

FORM OF CONTRACT

PARTIES:

- (1) THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS of Nobel House, 17 Smith Square, London, SW1P 3JR (the “[Authority]”);

AND

- (2) ADAS UK Ltd, Pendeford House, Pendeford Business Park, Wobaston Road, Wolverhampton. WV9 5AP (registered in England and Wales under number 4169467 (the “Contractor”)

(each a “Party” and together the “Parties”)

WHEREAS

- a) The Authority requires the Services set out in the attached Specification Schedule.
- b) Following a Single Tender Action process, the Authority has appointed the Contractor to provide the Services and the Contractor hereby agrees to provide those Services in accordance with these terms and conditions.
- c) The Authority enters into the Contract on the basis that it requires the Services for the Initial Contract Period. However, in entering into the Contract, both Parties acknowledge that circumstances may prevent the Authority from fulfilling the funding requirements of the Contract for the Initial Contract Period. In these circumstances, the Parties undertake to discuss the future scope of the Contract before the end of the relevant Project Year.

NOW IT IS HEREBY AGREED as follows:

1. TERMS OF CONTRACT

- 1.1 The Contractor shall provide the Authority with the Services in accordance with the “Contract” which comprises the following:

Section 1:	Form of Contract
Section 2:	General Conditions

Schedule 1:	Specification
Schedule 2:	Prices
Annex A:	Scope of Work
Annex B:	Pricing Proposal

- 1.2 Execution of the Contract is carried out in accordance with the 1999 EU Directive 99/93 (Community framework for electronic signatures) and the UK Electronic Communications Act 2000. The Contract is formed on the date on which both the Authority and the Contractor have communicated acceptance of its terms on the Authority’s electronic contract management system (‘Bravo’).
- 1.3 The Contract shall start on 01/03/2015 (the “Commencement Date”) and end on 31/08/2018 (the “End Date”) unless it is terminated early or extended in accordance with the Contract.

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A GENERAL PROVISIONS

A1 Definitions and Interpretation

Unless the context otherwise requires the following terms shall have the meanings given to them below:

“**Affected Party**” means the Party seeking to claim relief in respect of a Force Majeure Event.

“**Affiliate**” means in relation to a body corporate, any other entity which directly or indirectly Controls is Controlled by, or is under direct or indirect common Control with, that body corporate from time to time.

“**Approval**” and “**Approved**” means the prior written consent of The Authority.

“**Authorised Representative**” means the Authority representative named in the CCN as authorised to approve agreed Variations.

“**Authority Data**” means

- (a) the data, text, drawings, diagrams, images or sounds (together with any database made up of any of these) which are embodied in any electronic, magnetic, optical or tangible media, and which are:
 - (i) supplied to the Contractor by or on behalf of the Authority; or (ii) which the Contractor is required to generate, process, store or transmit pursuant to the Contract; or
- (b) any Personal Data for which the Authority is the Data Controller.

“**Authority Premises**” means any premises owned, occupied or controlled by the Authority or any other Crown Body which are made available for use by the Contractor or its Sub-Contractors for provision of the Services.

“**Authority Software**” means software which is owned by or licensed to the Authority (other than under or pursuant to the Contract) and which is or will be used by the Contractor for the purposes of providing the Services.

“Authority System” means the Authority’s computing environment (consisting of hardware, software and/or telecommunications networks or equipment) used by the Authority or the Contractor in connection with the Contract which is owned by or licensed to the Authority by a third party and which interfaces with the Contractor System or which is necessary for the Authority to receive the Services.

“Biological Materials” means any material (including, without limitation, plants, animals, microbes or viruses) of biological origin which contains genetic information capable of reproduction and/or material derived from the same that is collected or produced through the Contract.

“BPSS” means the HMG Baseline Personnel Security Standard for Government employees.

“Bravo” means the Authority’s electronic contract management system.

“CCN” means a change control notice in the form set out in Schedule 3.

“Commencement Date” means the date set out in paragraph 1.3 of the Form of Contract.

“Commercially Sensitive Information” means the information listed in Schedule 4:

- (a) which is provided by the Contractor to the Authority in confidence for the period set out in Schedule 4; and/or
- (b) that constitutes a trade secret.

“Confidential Information” means any information which has been designated as confidential by either Party in writing or that ought to be considered as confidential (however it is conveyed or on whatever media it is stored) including information the disclosure of which would, or would be likely to, prejudice the commercial interests of any person or trade secrets or Intellectual Property Rights of either Party and all personal data and sensitive personal data within the meaning of the DPA. Confidential Information shall not include information which:

- (a) was public knowledge at the time of disclosure otherwise than by breach of clause E4;
- (b) was in the possession of the receiving Party, without restriction as to its disclosure, before receiving it from the disclosing Party;
- (c) is received from a third party (who lawfully acquired it) without restriction as to its disclosure; or
- (d) is independently developed without access to the Confidential Information.

“Contract Period” means the period from the Commencement Date to:

- (a) the End Date; or
- (b) following an extension the end date of the extended period

or such earlier date of termination or partial termination of the Contract in accordance with the Law or the Contract.

“Contracting Authority” means any contracting authority (other than the Authority) as defined in regulation 3 of the Public Contracts Regulations 2006 (SI 2006/5).

“Contractor Software” means software which is proprietary to the Contractor, including software which is or will be used by the Contractor for the purposes of providing the Services and which is set out in Schedule 6.

“Contractor System” means the information and communications technology system used by the Contractor in performing the Services including the Software, the Contractor Equipment and related cabling (but excluding the Authority System).

“Control” means that a person possesses, directly or indirectly, the power to direct or cause the direction of the management and policies of the other person (whether through the ownership of voting shares, by contract or otherwise) and “Controls” and “Controlled” shall be interpreted accordingly.

“Conventions” means any and all of: i) the Convention on Biological Diversity and the International Treaty on Plant Genetic Resources for Food and Agriculture, including any Protocols and other additions or amendments from time to time; ii) any guidelines adopted by the parties to the same (including, without limitation, the Bonn Guidelines on Access to Genetic Resources and Fair and Equitable Sharing of the Benefits Arising out of their Utilization); and iii) any national legal or regulatory requirements made in pursuance of the provisions of the same in any territory.

“Crown” means the government of the United Kingdom (including the Northern Ireland Executive Committee and Northern Ireland Departments, the Scottish Executive and the National Assembly for Wales), including, but not limited to, government ministers, government departments, government offices and government agencies and “Crown Body” is an emanation of the foregoing.

“Default” means any breach of the obligations of the relevant Party (including abandonment of the Contract in breach of its terms, repudiatory breach or breach of a fundamental term) or any other default, act, omission, negligence or statement of the relevant Party or the Staff in connection with the subject-matter of the Contract and in respect of which such Party is liable to the other.

“DOTAS” means the Disclosure of Tax Avoidance Schemes rules which require a promotor of tax schemes to tell HMRC of any specified notifiable arrangements or proposals and to provide prescribed information on those arrangements or proposals within set time limits as contained in Part 7 of the Finance Act 2004 and in secondary legislation made under vires contained in Part 7 of the Finance Act 2004 and as extended to national insurance contributions by the National Insurance (Application of Part 7 of the Finance Act 2004) regulations 2012, SI 2012/1868 made under section 132A of the Social Security Administration Act 1992.

“DPA” means the Data Protection Act 1998 and any subordinate legislation made under that Act from time to time together with any guidance and/or codes of practice issued by the Information Commissioner or relevant government department in relation to such legislation.

“EIR” means the Environmental Information Regulations 2004 (SI 2004/3391) and any guidance and/or codes of practice issued by the Information Commissioner or relevant government department in relation to such regulations.

“End Date” means the date the Contract ends set out in paragraph 1.2 of the Form of Contract.

“Equipment” means the Contractor’s equipment, consumables, plant, materials and such other items supplied and used by the Contractor in the delivery of the Services.

“FOIA” means the Freedom of Information Act 2000 and any subordinate legislation made under that Act from time to time together with any guidance and/or codes of practice issued by the Information Commissioner or relevant government department in relation to such legislation.

“Force Majeure Event” means any event outside the reasonable control of either Party affecting its performance of its obligations under the Contract arising from acts, events, omissions, happenings or non-happenings beyond its reasonable control and which are not attributable to any wilful act, neglect or failure to take reasonable preventative action by that Party, including acts of God, riots, war or armed conflict, acts of terrorism, acts of government, local government or regulatory bodies, for flood, storm or earthquake, or disaster but excluding any industrial dispute relating to the Contractor or the Staff or any other failure in the Contractor’s supply chain.

“Form of Contract” means Section 1 of the Contract signed by the Parties confirming their intention to enter into the Contract.

“General Anti-Abuse Rule” means:

- (a) the legislation in Part 5 of the Finance Act 2013; and
- (b) any future legislation introduced into parliament to counteract tax advantages arising from abusive arrangements to avoid national insurance contributions;

“Good Industry Practice” means standards, practices, methods and procedures conforming to the Law and the degree of skill and care, diligence, prudence and foresight which would reasonably and ordinarily be

expected from a skilled and experienced person or body engaged in a similar type of undertaking under the same or similar circumstances.

“Goods” means any goods supplied by the Contractor (or by a Sub-Contractor) under the Contract as specified in Schedule 1 including any modified or alternative goods.

“Halifax Abuse Principle” means the principle explained in the CJEU Case C-255/02 Halifax and others.

“HMRC” means HM Revenue & Customs.

“ICT Environment” means the Authority System and the Contractor System.

“Income” means any revenues received by the Contractor (including, without limitation, the sale or disposal of products or services, royalties, payments for licences or options and stage payments) irrespective of whether such payment is in money or other consideration, arising from the use or exploitation of the Results or any part of the Results.

“Information” has the meaning given under section 84 of the FOIA.

“Initial Contract Period” means the period from the Commencement Date to the End Date.

“Intellectual Property Rights” means patents, utility models, inventions, trademarks, service marks, logos, design rights (whether registrable or otherwise), applications for any of the foregoing, copyright, database rights, domain names, plant variety rights, Know-How, trade or business names, moral rights and other similar rights or obligations whether registrable or not in any country (including but not limited to the United Kingdom) and the right to sue for passing off.

“ITEPA” means the Income Tax (Earnings and Pensions) Act 2003.

“Key Biological Materials” means Biological Materials held by or on behalf of the Contractor that are agreed by the Contractor, the Authority and (if relevant) the appropriate independent scientific advisory body (in each case acting reasonably) to be of national or international importance.

“Key Personnel” mean those persons named in the Specification as key personnel.

“Know-How” means all information not in the public domain held in any form (including without limitation that comprised in or derived from drawings, data formulae, patterns, specifications, notes, samples, chemical compounds, biological materials, computer software, component lists, instructions, manuals, brochures, catalogues and process descriptions and scientific approaches and methods).

“Law” means law, statute, subordinate legislation within the meaning of section 21(1) of the Interpretation Act 1978, bye-law, enforceable right within the meaning of section 2 of the European Communities Act 1972, regulation, order, mandatory guidance or code of practice, judgment of a relevant court of law, or directives or requirements of any Regulatory Body with which the Contractor is bound to comply.

“Malicious Software” means any software program or code intended to destroy, interfere with, corrupt, or cause undesired effects on program files, data or other information, executable code or application software macros, whether or not its operation is immediate or delayed, and whether the malicious software is introduced wilfully, negligently or without knowledge of its existence.

“Material Breach” means a breach (including an anticipatory breach) that is serious in the widest sense of having a serious effect on the benefit which the Authority would otherwise derive from:

- (a) a substantial portion of the Contract; or
- (b) any of the obligations set out in clauses A6, B16, D1, E1, E2, E3, E4, E7, E8 or E11.

“Month” means calendar month.

“NICs” means National Insurance Contributions.

“Occasion of Tax Non-Compliance” means:

- (a) any tax return of the Contractor submitted to a Relevant Tax Authority on or after 1 October 2012 which is found on or after 1 April 2013 to be incorrect as a result of:
- i. a relevant Tax Authority successfully challenging the Contractor under the General Anti-Abuse Rule or the Halifax Abuse principle or under any tax rules or legislation that have an effect equivalent or similar to the General Anti-Abuse Rule or the Halifax Abuse Principle;
 - ii. the failure of an avoidance scheme which the Contractor was involved in, and which was, or should have been, notified to the Relevant Tax Authority under the DOTAS or any equivalent or similar regime; and/or
- (b) any tax return of the Contractor submitted to a Relevant Tax Authority on or after 1 October 2012 gives rise on or after 1 April 2013 to a criminal conviction in any jurisdiction for tax related offences which is not spent at the Commencement Date or to a civil penalty for fraud or evasion.

“Premises” means the location where the Services are to be supplied as set out in the Specification.

“Price” means the price (excluding any applicable VAT) payable to the Contractor by the Authority under the Contract, as set out in Schedule 2 for the full and proper performance by the Contractor of its obligations under the Contract.

“Prohibited Act” means:

- (a) to directly or indirectly offer, promise or give any person working for or engaged by the Authority a financial or other advantage to:
- i. induce that person to perform improperly a relevant function or activity; or
 - ii. reward that person for improper performance of a relevant function or activity;
- (b) to directly or indirectly request, agree to receive or accept any financial or other advantage as an inducement or a reward for improper performance of a relevant function or activity in connection with the Contract;
- (c) an offence:
- i. under the Bribery Act 2010 (or any legislation repealed or revoked by such Act);
 - ii. under legislation or common law concerning fraudulent acts; or
 - iii. the defrauding, attempting to defraud or conspiring to defraud the Authority;
- (d) any activity, practice or conduct which would constitute one of the offences listed under (c) above if such activity, practice or conduct has been carried out in the UK.

“Project Year” means each period of 12 months during the Contract Period beginning with the Commencement Date.

“Property” means the property, other than real property, issued or made available to the Contractor by the Authority in connection with the Contract.

“Purchase Order” means the document in which the Authority specifies the Services which are to be supplied by the Contractor under the Contract.

“Quality Standards” means the quality standards published by BSI British Standards, the National Standards Body of the United Kingdom, the International Organisation for Standardization or other reputable or equivalent body (and their successor bodies) that a skilled and experienced operator in the same type of industry or business sector as the Contractor would reasonably and ordinarily be expected to comply with, and as may be further detailed in Schedule 1.

“Receipt” means the physical or electronic arrival of the invoice at the address specified in clause A4.4 or at any other address given by the Authority to the Contractor for the submission of invoices from time to time.

“Regulatory Body” means a government department and regulatory, statutory and other entities, committees, ombudsmen and bodies which, whether under statute, rules, regulations, codes of practice or otherwise, are entitled to regulate, investigate, or influence the matters dealt with in the Contract or any other affairs of the Authority.

“Relevant Conviction” means a conviction that is relevant to the nature of the Services or as listed by the Authority and/or relevant to the work of the Authority.

“Relevant Requirements” means all applicable Law relating to bribery, corruption and fraud, including the Bribery Act 2010 and any guidance issued by the Secretary of State for Justice pursuant to section 9 of the Bribery Act 2010.

“Relevant Tax Authority” means HMRC or, if applicable, a tax authority in the jurisdiction in which the Contractor is established.

“Replacement Contractor” means any third party supplier appointed by the Authority to supply any goods and/or services which are substantially similar to any of the Services in substitution for any of the Services following the expiry, termination or partial termination of the Contract.

“Request for Information” means a request for information under the FOIA or the EIR.

“Results” means the Intellectual Property Rights in any guidance, specifications, instructions, toolkits, plans, data, drawings, databases, patents, patterns, models, designs or other material which is:

- a) prepared by or on behalf of the Contractor in relation to the performance of its obligations under the Contract; or
- b) the result of any work done by the Contractor, the Staff or any Sub-Contractor.

“Returning Employees” means those persons agreed by the Parties to be employed by the Contractor (and/or any Sub-Contractor) wholly or mainly in the supply of the Services immediately before the end of the Contract Period.

“Security Policy Framework” means the HMG Security Policy Framework (available from the Cabinet Office's Government Security Secretariat) as updated from time to time.

“Services” means the services set out in Schedule 1 (including any modified or alternative services and, if the context so requires, includes Goods).

“Specification” means the description of the Services to be supplied under the Contract as set out in Schedule 1 including, where appropriate, the Key Personnel, the Premises and the Quality Standards.

“SSCBA” means the Social Security Contributions and Benefits Act 1992.

“Staff” means all persons employed by the Contractor to perform its obligations under the Contract together with the Contractor's servants, agents, students, suppliers and Sub-Contractors used in the performance of its obligations under the Contract.

“Sub-Contractor” means a third party directly or indirectly contracted to the Contractor (irrespective of whether such person is an agent or company within the same group of companies as the Contractor) whose services and/or goods are used by the Contractor (either directly or indirectly) in connection with the provision of the Services, and “Sub-Contract” shall be construed accordingly.

“Tender” means the document submitted by the Contractor to the Authority in response to the Authority's invitation to suppliers for formal offers to supply the Services.

“Third Party IP Claim” has the meaning given to it in clause E8.7 (Intellectual Property Rights).

“Third Party Software” means software which is proprietary to any third party which is or will be used by the Contractor to provide the Services including the software and which is specified as such in Schedule 6.

“TUPE” means the Transfer of Undertakings (Protection of Employment) Regulations 2006.

“**TUPE Information**” means the information set out in clause B17.1.

“**Valid Invoice**” means an invoice containing the information set out in clause C2.5.

“**Variation**” means any variation to the Contract.

“**VAT**” means value added tax charged or regulated in accordance with the provisions of the Value Added Tax Act 1994.

“**Working Day**” means a day (other than a Saturday or Sunday) on which banks are open for general business in the City of London.

In the Contract, unless the context implies otherwise:

- (a) the singular includes the plural and vice versa;
- (b) words importing the masculine include the feminine and the neuter;
- (c) reference to a clause is a reference to the whole of that clause unless stated otherwise;
- (d) references to a person include an individual, company, body corporate, corporation, unincorporated association, firm, partnership or other legal entity or central Government body;
- (e) the words “other”, “in particular”, “for example”, “including” and similar words shall not limit the generality of the preceding words and shall be construed as if they were immediately followed by the words “without limitation”;
- (f) headings are included for ease of reference only and shall not affect the interpretation or construction of the Contract;
- (g) a reference to any Law includes a reference to that Law as amended, extended, consolidated or re-enacted from time to time;
- (h) references to the Contract are references to the Contract as amended from time to time; and
- (i) if there are no Co-funders, references to the Co-funders shall have no meaning or effect.

A2 The Authority’s Obligations

A2.1 Save as otherwise expressly provided, the obligations of the Authority under the Contract are obligations of the Authority in its capacity as a contracting counterparty and nothing in the Contract shall operate as an obligation upon, or in any other way fetter or constrain the Authority in any other capacity, and the exercise by the Authority of its duties and powers in any other capacity shall not lead to any liability (howsoever arising) on the part of the Authority to the Contractor.

A3 Contractor’s Status

A3.1 The Contractor shall be an independent contractor and nothing in the Contract shall create a contract of employment, a relationship of agency or partnership or a joint venture between the Parties and accordingly neither Party shall be authorised to act in the name of, or on behalf of, or otherwise bind the other Party save as expressly permitted by the terms of the Contract.

A3.2 The Contractor shall not (and shall ensure that any other person engaged in relation to the Contract shall not) say or do anything that might lead any other person to believe that the Contractor is acting as the agent or employee of the Authority.

A4 Notices and Communications

A4.1 Subject to clause A4.3, where the Contract states that a notice or communication between the Parties must be “written” or “in writing” it is not valid unless it is made by letter (sent by hand, first class post, recorded delivery or special delivery) or by email or by communication via Bravo.

A4.2 If it is not returned as undelivered a notice served:

- (a) in a letter is deemed to have been received 2 Working Days after the day it was sent; and
- (b) in an email is deemed to have been received 4 hours after the time it was sent provided it was sent on a Working Day

or when the other Party acknowledges receipt, whichever is the earlier.

A4.3 Notices pursuant to clauses G3 (Force Majeure), I2 (Dispute Resolution) or to terminate the Contract or any part of the Services are valid only if served in a letter by hand, recorded delivery or special delivery.

A4.4 Notices shall be sent to the addresses set out below or at such other address as the relevant Party may give notice to the other Party for the purpose of service of notices under the Contract:

- (a) For the Authority:

Contact Name: [REDACTED]

Address: Health & Safety Executive (HSE), Chemicals Regulation Directorate, Ground Floor, Mallard House, Kings Pool, 3 Peasholme Green, YORK, YO1 7PX; and

Email: [REDACTED]

- (b) For the ADAS:

Contact Name: [REDACTED]

Address: ADAS UK Ltd, Pendeford House, Pendeford Business Park, Wobaston Road, Wolverhampton, WV9 5AP

Email [REDACTED]

OR

Contact Name: [REDACTED]

Address: ADAS UK Ltd ADAS Boxworth Cambridge. CB23 4NN; and

Email: [REDACTED]

A5 Mistakes in Information

A5.1 The Contractor is responsible for the accuracy of all drawings, documentation and information supplied to the Authority by the Contractor in connection with the Services and shall pay the Authority any extra costs occasioned by any discrepancies, errors or omissions therein.

A6 Conflicts of Interest

A6.1 The Contractor shall take appropriate steps to ensure that neither the Contractor nor any Staff is placed in a position where, in the reasonable opinion of the Authority, there is or may be an actual conflict, or a potential conflict, between the pecuniary or personal interests of the Contractor and the duties owed to the Authority under the provisions of the Contract. The Contractor will notify the Authority without delay giving full particulars of any such conflict of interest which may arise.

A6.2 The Authority may terminate the Contract immediately by notice and/or take or require the Contractor to take such other steps it deems necessary if, in the Authority's reasonable opinion, there is or may be an actual conflict, or a potential conflict, between the pecuniary or personal interests of the Contractor and the duties owed to the Authority under the provisions of the

Contract. The actions of the Authority pursuant to this clause 6 shall not prejudice or affect any right of action or remedy which shall have accrued or shall thereafter accrue to the Authority.

B. THE SERVICES

B1 Specification

B1.1 In consideration of the Contractor supplying the Services the Contractor shall be paid the Price.

B2 Samples

B2.1 If requested by the Authority, the Contractor shall provide the Authority with samples of Goods for evaluation and Approval, at the Contractor's cost and expense.

B2.2 The Contractor shall ensure that the Goods are fully compatible with any equipment, to the extent specified in the Specification.

B2.3 The Contractor acknowledges that the Authority relies on the skill and judgment of the Contractor in the supply of the Goods and the performance of the Contractor's obligations under the Contract.

B3 Delivery

B3.1 Unless otherwise stated in the Specification, where the Goods are delivered by the Contractor, the point of delivery shall be when the Goods are removed from the transporting vehicle at the Premises. If the Goods are collected by the Authority, the point of delivery shall be when the Goods are loaded on the Authority's vehicle.

B3.2 Except where otherwise provided in the Contract, delivery shall include the unloading, stacking or installation of the Goods by the Staff or the Contractor's suppliers or carriers at such place as the Authority or duly authorised person shall reasonably direct.

B3.3 Any access to the Premises and any labour and equipment that may be provided by the Authority in connection with delivery shall be provided without acceptance by the Authority of any liability whatsoever to the extent permitted by law.

B3.4 Where access to the Premises is necessary in connection with delivery or installation of the Goods, the Contractor and its Sub-Contractors shall at all times comply with the security requirements of the Authority.

B3.5 The Authority shall be under no obligation to accept or pay for any Goods supplied earlier than the date for delivery stated in the Specification.

B3.6 The Authority is under no obligation to accept or pay for any Goods delivered in excess of the quantity ordered. If the Authority elects not to accept such over-delivered Goods it shall give notice to the Contractor to remove them within 5 Working Days and to refund to the Authority any expenses incurred by it as a result of such over-delivery (including but not limited to the costs of moving and storing the Goods), failing which the Authority may dispose of such Goods and charge the Contractor for the costs of such disposal. The risk in any over-delivered Goods shall remain with the Contractor unless they are accepted by the Authority.

B3.7 Unless expressly agreed to the contrary, the Authority shall not accept delivery by instalments. If, however, the Authority does specify or agree to delivery by instalments, delivery of any instalment later than the date specified or agreed for its delivery shall, without prejudice to any other rights or remedies of the Authority, entitle the Authority to terminate the whole of any unfulfilled part of the Contract without further liability to the Authority.

B3.8 The Authority may inspect and examine the manner in which the Contractor supplies the Services at the Premises during normal business hours on reasonable notice. The Contractor shall provide free of charge all such facilities as the Authority may reasonably require for such inspection and examination. In this clause B3, Services include planning or preliminary work in connection with the supply of the Services.

- B3.9 If reasonably requested to do so by the Authority, the Contractor shall co-ordinate its activities in supplying the Services with those of the Authority and other contractors engaged by the Authority.
- B3.10 Subject to Approval timely supply of the Services is of the essence of the Contract, including in relation to commencing the supply of the Services within the time agreed or on a specified date. If the Contractor fails to deliver the Services within the time promised or specified in the Specification, the Authority is released from any obligation to accept and pay for the Services and may terminate the Contract, in either case without prejudice to any other rights and remedies of the Authority.

B4 Risk and Ownership

- B4.1 Subject to clauses B3.5 and B3.6, risk in the Goods shall, without prejudice to any other rights or remedies of the Authority (including the Authority's rights and remedies under clause F1 (Failure to meet Requirements)), pass to the Authority at the time of delivery.
- B4.2 Ownership in the Goods shall, without prejudice to any other rights or remedies of the Authority (including the Authority's rights and remedies under clause F1), pass to the Authority at the time of delivery (or payment, if earlier).

B5 Non-Delivery

- B5.1 On dispatch of any consignment of the Goods the Contractor shall send the Authority an advice note specifying the means of transport, the place and date of dispatch, the number of packages and their weight and volume.
- B5.2 If the Authority has been informed in writing of the despatch of the Goods and, having been placed in transit, the Goods are not delivered to the Authority on the due date for delivery, the Authority shall, within 10 Working Days of the notified date of delivery, give notice to the Contractor that the Goods have not been delivered and may request the Contractor to deliver substitute Goods free of charge within the timescales specified by the Authority or terminate the Contract in accordance with clause B3.10.

B6 Labelling and Packaging

- B6.1 The Contractor shall ensure that the Goods are labelled and packaged in accordance with the Contract.
- B6.2 The Contractor shall comply with the Packaging & Packaging Waste Directive (94/62/EC), implemented in the UK by the Packaging (Essential Requirements) Regulations 2003. The container in which the Goods are held shall be labelled with the Contractor's name, the net, gross and tare weights, and contain a description of its contents. All containers of hazardous Goods (and all documents relating thereto) shall bear prominent and adequate warnings.
- B6.3 The Contractor is responsible for the removal and disposal of all packaging materials from the Premises within the period specified by the Authority and at no cost to the Authority.
- B6.4 If no period for collection and disposal is specified by the Authority, the Contractor shall collect the packaging from the Premises no later than 10 Working Days from the date of delivery of the Goods. The Authority shall be entitled to dispose of any packaging materials which have not been collected by the Contractor within those 10 Working Days or such other period specified by the Authority for collection. The Contractor shall be responsible for the payment of any costs incurred by the Authority in connection with its collection and disposal of that packaging material.
- B6.5 The Contractor shall:
- (a) use packaging capable of easy recovery for further use or recycling. Packaging materials shall be easily separable by hand into recyclable parts consisting of one material (e.g. cardboard, paper, plastic, textile);
 - (b) reuse the packaging and, where reuse is not practicable, recycle the materials in the manufacture of crates, pallets, boxes, cartons, cushioning and other forms of packaging, where these fulfil other packaging specifications;

- (c) make maximum use of materials taken from renewable sources, if recycled materials are not suitable or not readily available;
- (d) if using wooden pallets or timber derived products for the packaging and supply of Goods, comply with the UK timber procurement policy and the provisions in clause D5;
- (e) review packaging specifications periodically to ensure that no unnecessary limitations on the use of recycled materials exist; and
- (f) if requested to do so, provide the Authority with a description of the product packaging and evidence to satisfy the Authority that it is reusing, recycling and reviewing its use of packaging. The evidence should provide proof of compliance with BS EN 13430 on recyclability or BS EN 13429 on reusability, or equivalent.

B7 Training

- B7.1 If included in the Specification, the Price includes the cost of instruction of the Authority's personnel in the use and maintenance of the Goods and such instruction shall be in accordance with the requirements detailed in the Specification.

B8 Provision and Removal of Equipment

- B8.1 The Contractor shall provide all the Equipment and resource necessary for the supply of the Services.
- B8.2 The Contractor shall not deliver any Equipment to nor begin any work on the Premises without obtaining Approval.
- B8.3 All Equipment brought onto the Premises shall be at the Contractor's own risk and the Authority shall have no liability for any loss of or damage to any Equipment unless the Contractor is able to demonstrate that such loss or damage was caused or contributed to by the Authority's Default. The Contractor shall provide for the haulage or carriage thereof to the Premises and the removal of Equipment when no longer required at its sole cost.
- B8.4 Unless otherwise agreed, Equipment brought onto the Premises will remain the property of the Contractor.
- B8.5 If the cost of any Equipment is reimbursed to the Contractor such Equipment shall be the property of the Authority and shall on request be delivered to the Authority as directed by the Authority. The Contractor will keep a full and accurate inventory of such Equipment and will deliver that inventory to the Authority on request and on completion of the Services.
- B8.6 The Contractor shall maintain all Equipment in a safe, serviceable and clean condition.
- B8.7 The Contractor shall, at the Authority's written request, at its own expense and as soon as reasonably practicable:
- (a) remove immediately from the Premises Equipment which is, in the Authority's opinion, hazardous, noxious or not supplied in accordance with the Contract; and
 - (b) replace such item with a suitable substitute item of Equipment.
- B8.8 Within 20 Working Days of the End Date, the Contractor shall remove the Equipment together with any other materials used by the Contractor to supply the Services and shall leave the Premises in a clean, safe and tidy condition. The Contractor shall make good any damage to those Premises and any fixtures and fitting in the Premises which is caused by the Contractor or Staff.

B9 Goods Delivery

- B9.1 The Contractor shall perform its obligations under the Contract:

- (a) with appropriately experienced, qualified and trained personnel with all due skill, care and diligence;
- (b) in accordance with Good Industry Practice; and
- (c) in compliance with all applicable Laws.

B9.2 The Contractor shall ensure the Goods:

- (a) conform in all respects with the Specification and, where applicable, with any sample approved by the Authority;
- (b) operate in accordance with the relevant technical specifications and correspond with the requirements of the Specification;
- (c) conform in all respects with all applicable Laws; and
- (d) are free from defects in design, materials and workmanship and are fit and sufficient for all the purposes for which such goods are ordinarily used and for any particular purpose made known to the Contractor by the Authority.

B10 Service Delivery

B10.1 The Contractor shall at all times comply with the Quality Standards and, where applicable, shall maintain accreditation with the relevant Quality Standards authorisation body. To the extent that the standard of the Service has not been specified in the Contract, the Contractor shall agree the relevant standard of the Services with the Authority prior to the supply of the Services and, in any event, the Contractor shall perform its obligations under the Contract in accordance with the Law and Good Industry Practice.

B10.2 The Contractor shall ensure that all Staff supplying the Services do so with all due skill, care and diligence and shall possess such qualifications, skills and experience as are necessary for the proper supply of the Services. The Contractor shall ensure that those Staff are properly managed and supervised.

B10.3 If the Specification includes installation of equipment the Contractor shall notify the Authority in writing when it has completed installation. Following receipt of such notice, the Authority shall inspect the installation and shall, by giving notice to the Contractor:

- (a) accept the installation; or
- (b) reject the installation and inform the Contractor why, in the Authority's reasonable opinion, the installation does not satisfy the Specification.

B10.4 If the Authority rejects the installation pursuant to clause B10.3(b), the Contractor shall immediately rectify or remedy any defects and if, in the Authority's reasonable opinion, the installation does not, within 2 Working Days or such other period agreed by the Parties, satisfy the Specification, the Authority may terminate the Contract with immediate effect by notice.

B10.5 The installation shall be complete when the Contractor receives a notice issued by the Authority in accordance with clause B10.3(a). Notwithstanding acceptance of any installation in accordance with clause B10.3(a), the Contractor shall remain solely responsible for ensuring that the Services and the installation conform to the Specification. No rights of estoppel or waiver shall arise as a result of the acceptance by the Authority of the installation.

B10.6 During the Contract Period, the Contractor shall:

- (a) at all times have all licences, approvals and consents necessary to enable the Contractor and Staff to carry out the installation;
- (b) provide all tools and equipment (or procure the provision of all tools and equipment) necessary for completion of the installation; and

- (c) not, in delivering the Services, in any manner endanger the safety or convenience of the public.

B11 Key Personnel

- B11.1 The Contractor acknowledges that the Key Personnel are essential to the proper provision of the Services.
- B11.2 The Key Personnel shall not be released from supplying the Services without the agreement of the Authority, except by reason of long-term sickness, maternity leave, paternity leave or termination of employment or other similar extenuating circumstances.
- B11.3 Any replacements to the Key Personnel shall be subject to Approval. Such replacements shall be of at least equal status, experience and skills to the Key Personnel being replaced and be suitable for the responsibilities of that person in relation to the Services.
- B11.4 The Authority shall not unreasonably withhold its agreement under clauses B11.2 or B11.3. Such agreement shall be conditional on appropriate arrangements being made by the Contractor to minimise any adverse effect on the Services which could be caused by a change in Key Personnel.
- B11.5 The Authority may, by notice to the Contractor, ask it to remove any Staff whose presence is, in the Authority's reasonable opinion, undesirable. The Contractor shall comply with any such request immediately.

B12 Contractor's Staff

- B12.1 The Authority may, by notice to the Contractor, refuse to admit onto, or withdraw permission to remain on, the Authority's Premises:
 - (a) any member of the Staff; or
 - (b) any person employed or engaged by any member of the Staffwhose admission or continued presence would, in the Authority's reasonable opinion, be undesirable.
- B12.2 At the Authority's written request, the Contractor shall provide a list of the names and addresses of all persons who may require admission in to the Authority's Premises, specifying the capacities in which they are concerned with the Contract and giving such other particulars as the Authority may reasonably request.
- B12.3 The decision of the Authority as to whether any person is to be refused access to the Authority's Premises and as to whether the Contractor has failed to comply with clause B12.2 shall be final.
- B12.4 The Contractor shall ensure that all Staff who have access to the Authority's Premises, the Authority System or the Authority Data have been cleared in accordance with the BPSS.

B13 Inspection of Premises

- B13.1 Save as the Authority may otherwise direct, the Contractor is deemed to have inspected the Premises before submitting its Tender and to have complete due diligence in relation to all matters connected with the performance of its obligations under the Contract.

B14 Licence to Occupy Premises

- B14.1 Any land or Premises made available from time to time to the Contractor by the Authority in connection with the Contract shall be on a non-exclusive licence basis free of charge and shall be used by the Contractor solely for the purpose of performing its obligations under the Contract. The Contractor shall have the use of such land or Premises as licensee and shall vacate the same on termination of the Contract.
- B14.2 The Contractor shall limit access to the land or Premises to such Staff as is necessary for it to perform its obligations under the Contract and the Contractor shall co-operate (and ensure that its

Staff co-operate) with such other persons working concurrently on such land or Premises as the Authority may reasonably request.

- B14.3 Should the Contractor require modifications to the Authority's Premises, such modifications shall be subject to Approval and shall be carried out by the Authority at the Contractor's expense. The Authority shall undertake approved modification work without undue delay.
- B14.4 The Contractor shall (and shall ensure that any Staff on the Authority's Premises shall) observe and comply with such rules, regulations and requirements (including those relating to security arrangements) as may be in force from time to time for the conduct of personnel when on the Authority's Premises as determined by the Authority.
- B14.5 The Contract does not create a tenancy of any nature whatsoever in favour of the Contractor or its Staff and no such tenancy has or shall come into being and, notwithstanding any rights granted pursuant to the Contract, the Authority retains the right at any time to use the Premises owned or occupied by it in any manner it sees fit.

B15 Property

- B15.1 All Property is and shall remain the property of the Authority and the Contractor irrevocably licenses the Authority and its agents to enter any Premises of the Contractor during normal business hours on reasonable notice to recover any such Property. The Contractor shall not in any circumstances have a lien or any other interest on the Property and the Contractor shall at all times possess the Property as fiduciary agent and bailee of the Authority. The Contractor shall take all reasonable steps to ensure that the title of the Authority to the Property and the exclusion of any such lien or other interest are brought to the notice of all Sub-Contractors and other appropriate persons and shall, at the Authority's request, store the Property separately and ensure that it is clearly identifiable as belonging to the Authority.
- B15.2 The Property shall be deemed to be in good condition when received by or on behalf of the Contractor unless the Contractor notifies the Authority otherwise within 5 Working Days of receipt.
- B15.3 The Contractor shall maintain the Property in good order and condition (excluding fair wear and tear), and shall use the Property solely in connection with the Contract and for no other purpose without Approval.
- B15.4 The Contractor shall ensure the security of all the Property whilst in its possession, either on the Premises or elsewhere during the supply of the Services, in accordance with the Authority's reasonable security requirements as required from time to time.
- B15.5 The Contractor shall be liable for all loss of or damage to the Property, unless such loss or damage was caused by the Authority's negligence. The Contractor shall inform the Authority immediately of becoming aware of any defects appearing in, or losses or damage occurring to, the Property.

B16 Biological Materials

- B16.1 The Contractor shall ensure that any Biological Materials collected by or on behalf of the Contractor in the course of performance of the Services are:
- (a) collected and used in accordance with the Conventions, where relevant;
 - (b) made available to the Authority (or such other person as the Authority may specify) whenever and wherever and in whatever format the Authority may reasonably require for any purpose (including, without limitation, handover on termination of the Services); and
 - (c) stored for whatever period is reasonably required by the Authority (or, in the absence of any such requirement, an appropriate period in all the circumstances taking into account the nature of the relevant Biological Materials) following termination of the Contract.
- B16.2 The Contractor recognises and acknowledges for the purposes of clause B16.1 (c) that Key Biological Materials in its possession are likely to require long term maintenance and shall put in place appropriate procedures for ensuring that relevant samples are selected for this purpose where applicable.

B16.3 The Contractor shall identify any requirements of the Conventions (including, without limitation, benefit-sharing requirements arising from use of Biological Materials) which may apply in connection with the Services. The Contractor shall comply with any such requirements and inform the Authority of the same. This clause B16.3 shall be without prejudice to the generality of clause B10.1.

B16.4 Failure to comply with any obligation in clause B16 shall amount to a Material Breach for the purpose of clause H2 (Termination on Default). For the avoidance of doubt, where no Biological Materials are, or are to be, collected by or on behalf of the Contractor in the course of performance of the Contract all references to Biological Materials in this clause B16 or elsewhere in the Contract shall have no effect.

B17 Offers of Employment

B17.1 Except in respect of any transfer of Staff under TUPE, for the Contract Period and for 12 Months thereafter the Contractor shall not employ or offer employment to any of the Authority's staff who have been associated with the Services and/or the Contract without Approval.

B18 Employment Provisions

B18.1 Not later than 12 Months prior to the end of the Contract Period, the Contractor shall fully and accurately disclose to the Authority all information that the Authority may reasonably request in relation to the Staff including the following:

- (a) the total number of Staff whose employment/engagement shall terminate at the end of the Contract Period, save for any operation of Law;
- (b) the age, gender, salary or other remuneration, future pay settlements and redundancy and pensions entitlement of the Staff referred to in clause B18.1(a);
- (c) the terms and conditions of employment/engagement of the Staff referred to in clause B18.1(a), their job titles and qualifications;
- (d) details of any current disciplinary or grievance proceedings ongoing or circumstances likely to give rise to such proceedings and details of any claims current or threatened; and
- (e) details of all collective agreements with a brief summary of the current state of negotiations with any such bodies and with details of any current industrial disputes and claims for recognition by any trade union.

B18.2 At intervals determined by the Authority (which shall not be more frequent than once every 30 days) the Contractor shall give the Authority updated TUPE Information.

B18.3 Each time the Contractor supplies TUPE Information to the Authority it shall warrant its completeness and accuracy and the Authority may assign the benefit of this warranty to any Replacement Contractor.

B18.4 The Authority may use TUPE Information it receives from the Contractor for the purposes of TUPE and/or any retendering process in order to ensure an effective handover of all work in progress at the end of the Contract Period. The Contractor shall provide the Replacement Contractor with such assistance as it shall reasonably request.

B18.5 If TUPE applies to the transfer of the Services on termination of the Contract, the Contractor shall indemnify and keep indemnified the Authority and the Crown (both for themselves and any Replacement Contractor) against all actions, suits, claims, demands, losses, charges, damages, costs and expenses and other liabilities which the Authority or the Crown or any Replacement Contractor may suffer or incur as a result of or in connection with:

- (a) the provision of TUPE Information;
- (b) any claim or demand by any Returning Employee (whether in contract, tort, under statute, pursuant to EU Law or otherwise) in each case arising directly or indirectly from any act,

fault or omission of the Contractor or any Sub-Contractor in respect of any Returning Employee on or before the end of the Contract Period;

- (c) any failure by the Contractor or any Sub-Contractor to comply with its obligations under regulations 13 or 14 of TUPE or any award of compensation under regulation 15 of TUPE save where such failure arises from the failure of the Authority or a Replacement Contractor to comply with its duties under regulation 13 of TUPE;
- (d) any claim (including any individual employee entitlement under or consequent on such a claim) by any trade union or other body or person representing any Returning Employees arising from or connected with any failure by the Contractor or any Sub-Contractor to comply with any legal obligation to such trade union, body or person; and
- (e) any claim by any person who is transferred by the Contractor to the Authority and/or a Replacement Contractor whose name is not included in the list of Returning Employees.

B18.6 If the Contractor becomes aware that TUPE Information it provided has become inaccurate or misleading, it shall notify the Authority and provide the Authority with up to date TUPE Information.

B18.7 This clause B18 applies during the Contract Period and indefinitely thereafter.

B18.8 The Contractor undertakes to the Authority that, during the 12 Months prior to the end of the Contract Period the Contractor shall not (and shall procure that any Sub-Contractor shall not) without Approval (such Approval not to be unreasonably withheld or delayed):

- (a) amend or vary (or purport to amend or vary) the terms and conditions of employment or engagement (including, for the avoidance of doubt, pay) of any Staff (other than where such amendment or variation has previously been agreed between the Contractor and the Staff in the normal course of business and where any such amendment or variation is not in any way related to the transfer of the Services);
- (b) terminate or give notice to terminate the employment or engagement of any Staff (other than in circumstances in which the termination is for reasons of misconduct or lack of capability);
- (c) transfer away, remove, reduce or vary the involvement of any other Staff from or in the provision of the Services (other than where such transfer or removal: (i) was planned as part of the individual's career development; (ii) takes place in the normal course of business; and (iii) will not have any adverse impact upon the delivery of the Services by the Contractor, (provided that any such transfer, removal, reduction or variation is not in any way related to the transfer of the Services); or
- (d) recruit or bring in any new or additional individuals to provide the Services who were not already involved in providing the Services prior to the relevant period.

C PAYMENT

C1 Price

C1.1 In consideration of the Contractor's performance of its obligations under the Contract, the Authority shall pay the Price in accordance with clause C2.

C2 Payment and VAT

C2.1 The Contractor shall submit invoices to the Authority on the dates set out in Schedule 2.

C2.2 The Authority shall, in addition to the Price and following Receipt of a Valid Invoice, pay the Contractor a sum equal to the VAT chargeable on the value of the Services supplied in accordance with the Contract.

- C2.3 The Contractor shall add VAT to the Price at the prevailing rate as applicable and shall show the amount of VAT payable separately on all invoices as an extra charge. If the Contractor fails to show VAT on an invoice, the Authority will not, at any later date, be liable to pay the Contractor any additional VAT.
- C2.4 All Contractor invoices shall be expressed in sterling or such other currency as shall be permitted by the Authority in writing.
- C2.5 Valid Invoices shall include:
- (a) the Contractor's full name, address and title of the Contract;
 - (b) (if Goods are included in the Specification) the name and quantity of the Goods delivered including batch numbers;
 - (c) the Purchase Order number
- and, if requested by the Authority:
- (d) timesheets for Staff engaged in providing the Services signed and dated by the Authority's representative on the Premises on the day;
 - (e) the name of the individuals to whom the timesheet relates and hourly rates for each;
 - (f) identification of which individuals are Contractor's staff and which are Sub-Contractors;
 - (g) the address of the Premises and the date on which work was undertaken;
 - (h) the time spent working on the Premises by the individuals concerned;
 - (i) details of the type of work undertaken by the individuals concerned;
 - (j) details of plant or materials operated and on standby;
 - (k) separate identification of time spent travelling and/or meal or rest breaks; and
 - (l) where appropriate, details of journeys made and distances travelled.
- C2.6 The Authority shall not pay Contractor time spent on meal or rest breaks and the Contractor shall ensure that all workers take adequate meal or rest breaks.
- C2.7 The Authority shall not pay for plant which is not in use during a meal or rest break.
- C2.8 Meal and rest breaks will include breaks both in or outside an individual's workplace along with any time taken in travelling to or from the break location and/or any facilities for cleaning/changing/washing in preparation for or return from a meal or rest break.
- C2.9 Timesheets must include a minimum of 30 minutes break for each shift of 8 hours, a minimum of 45 minutes break in a shift of between 8 and 12 hours and a minimum of one hour break will be taken within a shift in excess of 12 hours and the Contractor's rates and Contract Price must include such breaks.
- C2.10 The Authority shall not pay the Contractor's overhead costs unless specifically agreed in writing by the Authority and overhead costs shall include, without limitation; facilities, utilities, insurance, tax, head office overheads, indirect staff costs and other costs not specifically and directly ascribable solely to the provision of the Services.
- C2.11 If Schedule 2 expressly provides that the Authority may be charged for plant which is on standby then in circumstances where plant was waiting to be transferred between Premises or where the Authority has instructed that the plant is retained on the Premises then a standby charge of 60% of agreed rates may be made in respect of such relevant periods if supported by timesheets.
- C2.12 The Authority shall pay only for the time spent by Staff working on the Premises.

- C2.13 The Authority shall not pay a stand-by rate if plant is on standby because no work was being carried out on the Premises at that time or no operator or other relevant staff were available (unless the standby is because the Contractor is awaiting licensing of the Premises on the Authority's instructions).
- C2.14 The Authority shall not pay for plant or equipment which is stood down during any notice period pursuant to clauses H1, H2 and/or H3 and the Contractor shall mitigate such costs as far as is reasonably possible, for example, by reutilising Staff, plant, materials and services on other contracts.
- C2.15 The Contractor may claim expenses only if they are clearly identified, supported by original receipts and Approved.
- C2.16 If the Authority pays the Contractor prior to the submission of a Valid Invoice this payment shall be on account of and deductible from the next payment to be made.
- C2.17 If any overpayment has been made or the payment or any part is not supported by a Valid Invoice the Authority may recover this payment against future invoices raised or directly from the Contractor. All payments made by the Authority to the Contractor shall be on an interim basis pending final resolution of an account with the Contractor in accordance with the terms of this clause C2.
- C2.18 The Authority shall pay all sums due to the Contractor within 30 days of Receipt of a Valid Invoice. Valid Invoices should be submitted for payment to the following address:
- Accounts Payable, Shared Services Connected Limited, Lion House, Willowburn Trading Estate, Alnwick, Northumberland, NE66 2PF.
- C2.19 Any late payment of undisputed invoices by the Authority will be subject to interest at the rate of a maximum of 3% above the base rate from time to time of Barclays Bank plc.
- C2.20 If the Contractor enters into a Sub-Contract with a supplier for the purpose of performing its obligations under the Contract, it shall ensure that a provision is included in the Sub-Contract which requires payment to be made of all sums due from it to the Sub-Contractor within 30 days from the receipt of a valid invoice.
- C2.21 The Contractor shall indemnify the Authority on a continuing basis against any liability, including any interest, penalties or costs incurred, which is levied, demanded or assessed on the Authority at any time in respect of the Contractor's failure to account for or to pay any VAT relating to payments made to the Contractor under the Contract. Any amounts due under this clause C2.21 shall be paid by the Contractor to the Authority not less than 5 Working Days before the date upon which the tax or other liability is payable by the Authority.
- C2.22 The Contractor shall not suspend the Services unless the Contractor is entitled to terminate the Contract under clause H2.3 for failure to pay undisputed sums of money.
- C2.23 The Authority shall not pay an invoice which is not a Valid Invoice.

C3 Recovery of Sums Due

- C3.1 If under the Contract any sum of money is recoverable from or payable by the Contractor to the Authority (including any sum which the Contractor is liable to pay to the Authority in respect of any breach of the Contract), the Authority may unilaterally deduct that sum from any sum then due, or which at any later time may become due to the Contractor from the Authority under the Contract or under any other agreement with the Authority or the Crown.
- C3.2 Any overpayment by either Party, whether of the Price or of VAT or otherwise, shall be a sum of money recoverable by the Party who made the overpayment from the Party in receipt of the overpayment.

C3.3 The Contractor shall make all payments due to the Authority without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Contractor has a valid court order requiring an amount equal to such deduction to be paid by the Authority to the Contractor.

C3.4 All payments due shall be made within a reasonable time unless otherwise specified in the Contract, in cleared funds, to such bank or building society account as the recipient Party may from time to time direct.

C4 Price During Extension of the Initial Contract Period

C4.1 Subject to Schedule 2 and clause F7 (Variation), the Price shall apply for the Initial Contract Period and until the end date of any extension or such earlier date of termination or partial termination of the Contract in accordance with the Law or the Contract.

D. STATUTORY OBLIGATIONS

D1 Prevention of Fraud and Bribery

D1.1 The Contractor represents and warrants that neither it, nor to the best of its knowledge any Staff, have at any time prior to the Commencement Date:

- (a) committed a Prohibited Act or been formally notified that it is subject to an investigation or prosecution which relates to an alleged Prohibited Act; and/or
- (b) been listed by any government department or agency as being debarred, suspended, proposed for suspension or debarment, or otherwise ineligible for participation in government procurement programmes or contracts on the grounds of a Prohibited Act.

D1.2 The Contractor shall not during the Contract Period:

- (a) commit a Prohibited Act; and/or
- (b) do or suffer anything to be done which would cause the Authority or any of its employees, consultants, contractors, sub-contractors or agents to contravene any of the Relevant Requirements or otherwise incur any liability in relation to the Relevant Requirements.

D1.3 The Contractor shall, during the Contract Period:

- (a) establish, maintain and enforce, and require that its Sub-Contractors establish, maintain and enforce, policies and procedures which are adequate to ensure compliance with the Relevant Requirements and prevent the occurrence of a Prohibited Act; and
- (b) keep appropriate records of its compliance with its obligations under clause D1.3(a) and make such records available to the Authority on request.

D1.4 The Contractor shall immediately notify the Authority in writing if it becomes aware of any breach of clauses D1.1 and/or D1.2, or has reason to believe that it has or any of the Staff have:

- (a) been subject to an investigation or prosecution which relates to an alleged Prohibited Act;
- (b) been listed by any government department or agency as being debarred, suspended, proposed for suspension or debarment, or otherwise ineligible for participation in government procurement programmes or contracts on the grounds of a Prohibited Act; and/or
- (c) received a request or demand for any undue financial or other advantage of any kind in connection with the performance of the Contract or otherwise suspects that any person directly or indirectly connected with the Contract has committed or attempted to commit a Prohibited Act.

- D1.5 If the Contractor notifies the Authority pursuant to clause D1.4, the Contractor shall respond promptly to the Authority's enquiries, co-operate with any investigation, and allow the Authority to Audit any books, records and/or any other relevant documentation.
- D1.6 If the Contractor is in Default under clauses D1.1 and/or D1.2, the Authority may by notice:
- (a) require the Contractor to remove from performance of the Contract any Staff whose acts or omissions have caused the Default; or
 - (b) immediately terminate the Contract.
- D1.7 Any notice served by the Authority under clause D1.6 shall specify the nature of the Prohibited Act, the identity of the party who the Authority believes has committed the Prohibited Act and the action that the Authority has taken (including, where relevant, the date on which the Contract shall terminate).

D2 Discrimination

- D2.1 The Contractor shall:
- (a) perform its obligations under the Contract in accordance with:
 - i) all applicable equality Law (whether in relation to race, sex, gender reassignment, age, disability, sexual orientation, religion or belief, pregnancy maternity or otherwise);
 - ii) the Authority's equality and diversity policy as given to the Contractor from time to time;
 - iii) any other requirements and instructions which the Authority reasonably imposes in connection with any equality obligations imposed on the Authority at any time under applicable equality Law; and
 - (b) take all necessary steps and inform the Authority of the steps taken to prevent unlawful discrimination designated as such by any court or tribunal, or the Equality and Human Rights Commission (or any successor organisation).

D3 Rights of Third Parties

- D3.1 A person who is not a Party to the Contract shall have no right to enforce any of its provisions which, expressly or by implication, confer a benefit on him, without the prior written agreement of both Parties. This clause does not affect any right or remedy of any person which exists or is available apart from the Contracts (Rights of Third Parties) Act 1999 and does not apply to the Crown.

D4 Environmental Requirements

- D4.1 The Contractor shall in the performance of the Contract have due regard to the Authority's environmental, sustainable and ethical procurement policies ("Environmental Policies") which require the Authority through its procurement and management of suppliers:
- (a) conserve energy, water, wood, paper and other resources and reduce waste;
 - (b) phase out the use of ozone depleting substances;
 - (c) minimise the release of greenhouse gases, volatile organic compounds and other substances damaging to health and the environment;
 - (d) minimise the use of products harmful to health and the environment such as hazardous substances and solvents, replacing them with more benign substances where feasible and, where such substances are necessary, to ensure that they are stored in properly labelled containers, used and disposed of in compliance with legal and regulatory requirements and any instructions from the Authority;

- (e) reduce fuel emissions wherever possible;
- (f) maximise the use of recovered materials and, if recycled materials are not suitable or not readily available, to maximise the use of materials taken from renewable sources; and
- (g) promote the design of products that are capable of reuse or remanufacture or easily separable into recyclable parts consisting of one material (e.g. steel, plastic, textile).

D4.2 The Contractor shall ensure that any equipment and materials used in the provision of the Services do not contain:

- (a) ozone depleting substances such as hydrochlorofluorocarbons (HCFCs), halons, carbon tetrachloride, 111 trichloroethane, bromochloromethane or any other damaging substances; and/or
- (b) HFCs and other gaseous and non-gaseous substances with a high global warming potential;

unless given written permission by the Authority to do so.

D4.3 The Contractor shall conserve energy and water; reduce carbon emissions and other greenhouse gases; minimise the use of substances damaging or hazardous to health and the environment and reduce waste by, for example, using resources more efficiently and reusing, recycling and composting and respecting biodiversity.

D4.4 If required by the Authority the Contractor shall provide the Authority with information about its compliance with its obligations under clause D4.3.

D4.5 The Contractor shall ensure that its Staff are aware of the Authority's Environmental Policies.

D4.6 The Contractor shall comply with the minimum environmental mandatory standards in the "Government Buying Standards" and in addition where required by the Authority, comply with any relevant "Best Practice" and "Class Leader" standards in relation to any goods on that list which are supplied to the Authority by or on behalf of the Contractor under the Contract.

D4.7 The Contractor shall:

- (a) identify any risks from climate change and variable weather such as higher temperatures, droughts, flooding, sea and river level rises, coastal and riparian erosion, water scarcity, and loss of water quality which may disrupt and/or affect the supply of the Services; and
- (b) if such risks have been identified, enhance the resilience of its organisation to enable it to adapt and deal with the effects of such extreme events, including by having the necessary awareness-raising, evaluation, preventive, preparatory, recovery measures and support systems in place in order to minimise any disruption to the supply of the Services.

D5 Timber

D5.1 For the purposes of this clause D6, the following terms shall have the following meanings:

- (a) "Timber" means any product that contains wood or wood fibre, with the exception of "recycled" materials (see below). Such products range from solid wood to those where the manufacturing processes obscure the wood element (e.g. paper). Timber and wood-derived products supplied or used in performance of the Services that have been recycled or reclaimed are referred to as "recycled" timber, which is defined below. Timber and wood-derived products supplied or used in performance of the Services that are not recycled are referred to as "virgin" timber when the distinction needs to be made for clarity. Short-rotation coppice is exempt from the requirements for timber and wood-derived products and falls under agricultural regulation and supervision rather than forestry.

- (b) “Legal and Sustainable” means production and process methods, also referred to as timber production standards, and in the context of social criteria, contract performance conditions (only), as defined by the document titled "UK Government timber procurement policy: Definition of Legal and Sustainable for timber procurement" (available from the Authority on request and from the CPET website). The edition current on the day the Contract is awarded shall apply.
- (c) “FLEGT” means Forest Law Enforcement, Governance and Trade, and is a reference to the EU scheme to address the problem of illegally logged timber.
- (d) “FLEGT-licensed” means production and process methods, also referred to as timber production standards, and in the context of social criteria, contract performance conditions (only), as defined by a bilateral Voluntary Partnership Agreement (“VPA”) between the European Union and a timber-producing country under the FLEGT scheme, where both Parties have agreed to establish a system under which timber that has been produced in accordance with the relevant laws of the producing country, and other criteria stipulated by the VPA, are licensed for export by the producing country government. This may also include any timber that has been independently verified as meeting all the producing country's requirements for a FLEGT licence, where a VPA has been signed but the FLEGT licensing system is not fully operational. Evidence from a country that has not signed up to a VPA which demonstrates that all of the requirements equivalent to FLEGT-licensed timber have been met will also be acceptable. CPET will produce further guidance on FLEGT-licensed or equivalent timber in due course.
- (e) “Recycled” means recovered wood that prior to being supplied to the Authority had an end use as a standalone object or as part of a structure. The term "recycled" is used to cover the following categories: pre-consumer recycled wood and wood fibre or industrial by products but excluding sawmill co-products (sawmill co-products are deemed to fall within the category of virgin timber), post-consumer recycled wood and wood fibre, and drift wood. It also covers reclaimed timber which was abandoned or confiscated at least ten years previously. Documentary evidence and independent verification also apply to recycled materials, but will focus on the use to which the timber was previously put rather than the forest source.
- (f) “Short-rotation coppice” means a specific management regime whereby the poles of trees are cut every one to two years and which is aimed at producing biomass for energy. It is exempt from the UK government timber procurement policy requirements and falls under agricultural regulation and supervision rather than forestry. The exemption only refers to short-rotation coppice, and not 'conventional' coppice which is forest management and therefore subject to the timber policy.
- (g) “CPET” means the UK Government’s Central Point of Expertise on Timber.

D5.2 All Timber supplied or used by the Contractor in providing the Services (including all Timber supplied or used by Sub-Contractors) shall comply with Schedule 1 and shall originate from a forest source where management of the forest has full regard for:

- (a) identification, documentation and respect of legal, customary and traditional tenure and use rights related to the forest;
- (b) mechanisms for resolving grievances and disputes including those relating to tenure and use rights, to forest management practices and to work conditions; and
- (c) safeguarding the basic labour rights and health and safety of forest workers

(the “Social Criteria”).

D5.3 If requested by the Authority and not already provided in its Tender, the Contractor shall give the Authority evidence that the Timber supplied or used in providing the Services complies with the requirements of Schedule 1 and with the requirements of the Social Criteria.

- D5.4 The Authority may at any time during the Contract Period and for 6 years after final delivery under the Contract require the Contractor to produce the evidence required for the Authority's inspection within 14 days of the Authority's written request.
- D5.5 The Contractor shall maintain records of all Timber delivered to and accepted by the Authority for 6 years from final delivery under the Contract.
- D5.6 The Authority shall decide whether the evidence submitted to it demonstrates legality and sustainability, or FLEGT-licence or equivalent, and is adequate to satisfy the Authority that the Timber complies with Schedule 1 and complies with the requirements of the Social Criteria. If the Authority is not satisfied, the Contractor shall commission and meet the costs of an "independent verification" and resulting report that will: (a) verify the forest source of the timber or wood; and (b) assess whether the source meets the relevant criteria.
- D5.7 In the Contract, "Independent Verification" means that an evaluation is undertaken and reported by an individual or body whose organisation, systems and procedures conform to ISO Guide 65:1996 (EN 45011:1998) General requirements for bodies operating product certification systems (as amended from time to time) or equivalent, and who is accredited to audit against forest management standards by a body whose organisation, systems and procedures conform to ISO 17011: 2004 General Requirements for Providing Assessment and Accreditation of Conformity Assessment Bodies (as amended from time to time) or equivalent.
- D5.8 The Authority may reject Timber that does not comply with Schedule 1 or with the Social Criteria. If the Authority rejects any Timber the Contractor shall supply alternative Timber which does comply at no additional cost to the Authority and without causing delay to delivery of the Services.

D6 Health and Safety

- D6.1 The Contractor shall perform its obligations under the Contract in accordance with:
- (a) all applicable Law regarding health and safety; and
 - (b) the Authority's health and safety policy while at the Authority's Premises.
- D6.2 Each Party shall notify the other as soon as practicable of any health and safety incidents or material health and safety hazards at the Authority's Premises of which it becomes aware and which relate to or arise in connection with the performance of the Contract. The Contractor shall instruct Staff to adopt any necessary associated safety measures in order to manage any such material health and safety hazards.

E PROTECTION OF INFORMATION

E1 Authority Data

- E1.1 For the purposes of clauses E1 and 2, the terms "Data Controller", "Data Processor", "Data Subject", "Personal Data", "Process" and "Processing" shall have the meanings prescribed in the DPA.
- E1.2 The Contractor shall not delete or remove any proprietary notices contained within or relating to the Authority Data.
- E1.3 The Contractor shall not store, copy, disclose, or use the Authority Data except as necessary for the performance by the Contractor of its obligations under this Contract or as otherwise expressly authorised in writing by the Authority.
- E1.4 To the extent that Authority Data is held and/or Processed by the Contractor, the Contractor shall supply Authority Data to the Authority as requested by the Authority in the format specified in the Specification.
- E1.5 The Contractor shall preserve the integrity of Authority Data and prevent the corruption or loss of Authority Data.

- E1.6 The Contractor shall perform secure back-ups of all Authority Data and shall ensure that up-to-date back-ups are stored securely off-site. The Contractor shall ensure that such back-ups are made available to the Authority immediately upon request.
- E1.7 The Contractor shall ensure that any system on which the Contractor holds any Authority Data, including back-up data, is a secure system that complies with the Security Policy Framework.
- E1.8 If Authority Data is corrupted, lost or sufficiently degraded as a result of the Contractor's Default so as to be unusable, the Authority may:
- (a) require the Contractor (at the Contractor's expense) to restore or procure the restoration of Authority Data and the Contractor shall do so promptly; and/or
 - (b) itself restore or procure the restoration of Authority Data, and shall be repaid by the Contractor any reasonable expenses incurred in doing so.
- E1.9 If at any time the Contractor suspects or has reason to believe that Authority Data has or may become corrupted, lost or sufficiently degraded in any way for any reason, then the Contractor shall notify the Authority immediately and inform the Authority of the remedial action the Contractor proposes to take.

E2 Data Protection Act

- E2.1 The Contractor shall (and shall ensure that all its Staff) comply with any notification requirements under the DPA and both Parties will duly observe all their obligations under the DPA which arise in connection with the Contract.
- E2.2 Notwithstanding the general obligation in clause E2.1, if the Contractor is Processing Personal Data as a Data Processor for the Authority the Contractor shall:
- (a) Process the Personal Data only in accordance with instructions from the Authority (which may be specific instructions or instructions of a general nature) as set out in the Contract or as otherwise notified by the Authority;
 - (b) comply with all applicable Laws;
 - (c) Process the Personal Data only to the extent and in such manner as is necessary for the provision of the Contractor's obligations under the Contract or as is required by Law or any Regulatory Body;
 - (d) implement and maintain appropriate technical and organisational measures to protect the Personal Data against unauthorised or unlawful Processing and against accidental loss, destruction, damage, alteration or disclosure. These measures shall be appropriate to the harm which might result from any unauthorised or unlawful Processing, accidental loss, destruction or damage to the Personal Data and having regard to the nature of the Personal Data which is to be protected;
 - (e) take reasonable steps to ensure the reliability of its Staff who may have access to the Personal Data;
 - (f) not transfer the Personal Data to any Sub-Contractor and/or Affiliates for the provision of the Services without Approval;
 - (g) not cause or permit the Personal Data to be transferred outside of the European Economic Area without Approval;
 - (h) ensure that all Staff required to access the Personal Data are informed of the confidential nature of the Personal Data and comply with the obligations set out in this clause E2;
 - (i) ensure that none of the Staff publish disclose or divulge any of the Personal Data to any third parties unless directed in writing to do so by the Authority;

- (j) not disclose Personal Data to any third parties in any circumstances other than with Approval or in compliance with a legal obligation imposed upon the Authority;
- (k) notify the Authority (within 5 Working Days) if it receives:
 - i) a request from a Data Subject to have access to that person's Personal Data; or
 - (ii) a complaint or request relating to the Authority's obligations under the DPA;
- (l) provide the Authority with full cooperation and assistance in relation to any complaint or request made, including by:
 - i) providing the Authority with full details of the complaint or request;
 - ii) complying with a data access request within the relevant timescales set out in the DPA and in accordance with the Authority's instructions;
 - iii) providing the Authority with any Personal Data it holds in relation to a Data Subject (within the timescales required by the Authority); and
 - iv) providing the Authority with any information requested by the Authority
- (m) permit the Authority (subject to reasonable and appropriate confidentiality undertakings), to inspect and audit, in accordance with clause E10 (Audit), the Contractor's data Processing activities (and/or those of its agents, subsidiaries and Sub-Contractors) and comply with all reasonable requests or directions by the Authority to enable the Authority to verify and/or procure that the Contractor is in full compliance with its obligations under the Contract;
- (n) provide a written description of the technical and organisational methods employed by the Contractor for Processing Personal Data (within the timescales required by the Authority); and
- (o) not Process Personal Data outside the European Economic Area without Approval and, if the Authority consents to a transfer, to comply with:
 - i) the obligations of a Data Controller under the Eighth Data Protection Principle set out in schedule 1 of the DPA by providing an adequate level of protection to any Personal Data that is transferred; and
 - (ii) any reasonable instructions notified to it by the Authority.

E2.3 The Contractor shall comply at all times with the DPA and shall not perform its obligations under the Contract in such a way as to cause the Authority to breach any of its applicable obligations under the DPA.

E2.4 The provision of this clause E2 shall apply during the Contract Period and indefinitely after its expiry.

E3 Official Secrets Acts and Finance Act 1989

E3.1 The Contractor shall comply with the provisions of:

- (a) the Official Secrets Acts 1911 to 1989; and
- (b) section 182 of the Finance Act 1989.

E4 Confidential Information

E4.1 Except to the extent set out in this clause E4 or if disclosure or publication is expressly permitted elsewhere in the Contract each Party shall treat all Confidential Information belonging to the other Party as confidential and shall not disclose any Confidential Information belonging to the other

Party to any other person without the other party's consent, except to such persons and to such extent as may be necessary for the performance of the Party's obligations under the Contract.

- E4.2 The Contractor hereby gives its consent for the Authority to publish the whole Contract (but with any information which is Confidential Information belonging to the Authority redacted) including from time to time agreed changes to the Contract, to the general public.
- E4.3 If required by the Authority, the Contractor shall ensure that Staff, professional advisors and consultants sign a non-disclosure agreement prior to commencing any work in connection with the Contract in substantially the form attached in Schedule 5. The Contractor shall maintain a list of the non-disclosure agreements completed in accordance with this clause E4.3.
- E4.4 If requested by the Authority, the Contractor shall give the Authority a copy of the list and, subsequently upon request by the Authority, copies of such of the listed non-disclosure agreements as required by the Authority. The Contractor shall ensure that its Staff, professional advisors and consultants are aware of the Contractor's confidentiality obligations under the Contract.
- E4.5 The Contractor may only disclose the Authority's Confidential Information to the Staff who are directly involved in the provision of the Services and who need to know the information, and shall ensure that such Staff are aware of and shall comply with these obligations as to confidentiality.
- E4.6 The Contractor shall not, and shall procure that the Staff do not, use any of the Authority's Confidential Information received otherwise than for the purposes of this Contract.
- E4.7 Clause E4.1 shall not apply to the extent that:
- (a) such disclosure is a requirement of Law placed upon the Party making the disclosure, including any requirements for disclosure under the FOIA or the EIR;
 - (b) such information was in the possession of the Party making the disclosure without obligation of confidentiality prior to its disclosure by the information owner;
 - (c) such information was obtained from a third party without obligation of confidentiality;
 - (d) such information was already in the public domain at the time of disclosure otherwise than by a breach of the Contract; or
 - (e) it is independently developed without access to the other Party's Confidential Information.
- E4.8 Nothing in clause E4.1 shall prevent the Authority disclosing any Confidential Information obtained from the Contractor:
- (a) for the purpose of the examination and certification of the Authority's accounts;
 - (b) for the purpose of any examination pursuant to section 6(1) of the National Audit Act 1983 of the economy, efficiency and effectiveness with which the Authority has used its resources;
 - (c) to any Crown Body or any Contracting Authority and the Contractor hereby acknowledges that all government departments or Contracting Authorities receiving such Confidential Information may further disclose the Confidential Information to other government departments or other Contracting Authorities on the basis that the information is confidential and is not to be disclosed to a third party which is not part of any government department or any Contracting Authority;
 - (d) to any consultant, contractor or other person engaged by the Authority
- provided that in disclosing information under clauses E4.8 (c) and (d) the Authority discloses only the information which is necessary for the purpose concerned and requests that the information is treated in confidence and that a confidentiality undertaking is given where appropriate.
- E4.9 Nothing in clauses E4.1 to E4.6 shall prevent either Party from using any techniques, ideas or Know-How gained during the performance of its obligations under the Contract in the course of its

normal business, to the extent that this does not result in a disclosure of the other Party's Confidential Information or an infringement of the other Party's Intellectual Property Rights.

- E4.10 The Authority shall use all reasonable endeavours to ensure that any government department, Contracting Authority, employee, third party or Sub-Contractor to whom the Contractor's Confidential Information is disclosed pursuant to clause E4.6 is made aware of the Authority's obligations of confidentiality.
- E4.11 If the Contractor does not comply with clauses E4.1 to E4.6 the Authority may terminate the Contract immediately on notice to the Contractor.
- E4.12 In order to ensure that no unauthorised person gains access to any Confidential Information or any data obtained in the supply of the Services, the Contractor shall maintain adequate security arrangements that meet the requirements of professional standards and best practice.
- E4.13 The Contractor will immediately notify the Authority of any breach of security in relation to Confidential Information and all data obtained in the supply of the Services and will keep a record of such breaches. The Contractor will use its best endeavours to recover such Confidential Information or data however it may be recorded. The Contractor will co-operate with the Authority in any investigation as a result of any breach of security in relation to Confidential Information or data.
- E4.14 The Contractor shall, at its own expense, alter any security systems at any time during the Contract Period at the Authority's request if the Authority reasonably believes the Contractor has failed to comply with clause E4.12.

E5 Freedom of Information

- E5.1 The Contractor acknowledges that the Authority is subject to the requirements of the FOIA and the EIR.
- E5.2 The Contractor shall transfer to the Authority all Requests for Information that it receives as soon as practicable and in any event within 2 Working Days of receipt:
- (a) give the Authority a copy of all Information in its possession or control in the form that the Authority requires within 5 Working Days (or such other period as the Authority may specify) of the Authority's request;
 - (b) provide all necessary assistance as reasonably requested by the Authority to enable the Authority to comply with its obligations under the FOIA and EIR; and
 - (c) not respond to directly to a Request for Information unless authorised to do so in writing by the Authority.
- E5.3 The Authority shall determine in its absolute discretion and notwithstanding any other provision in the Contract or any other agreement whether the Commercially Sensitive Information and any other Information is exempt from disclosure in accordance with the provisions of the FOIA and/or the EIR.

E6 Publicity, Media and Official Enquiries

- E6.1 Without prejudice to the Authority's obligations under the FOIA, the EIR or any obligations under the Public Contracts Regulations 2006, or any policy requirements as to transparency, neither Party shall make any press announcement or publicise the Contract or any part thereof in any way, except with the written consent of the other Party.
- E6.2 The Contractor shall use its best endeavours to ensure that its Staff, professional advisors and consultants comply with clause E6.1.
- E6.3 Notwithstanding clause E6.1 but subject to clause E4 (Confidential Information) and Schedule 4, the Contractor shall endeavour to make the Results generally available (including in scientific journals where reasonably appropriate) and shall acknowledge in any public statement the financial support of the Authority and the Co-funders. The Contractor shall send details of any proposed

publication to the Authority at least 2 weeks prior to the proposed publication and shall notify the Authority immediately if approached by the media about the Services.

- E6.4 Subject to clause E4 (Confidential Information) and Schedule 4 the Authority may disclose, copy and otherwise distribute to the public or use in any way any information arising out of the Services or comprised in any work relating to the Services.
- E6.5 Nothing in the Contract shall permit or require the Contractor or the Co-funders to make any disclosure of information which would jeopardise any commercial exploitation of the Results.

E7 Security

- E7.1 The Authority shall be responsible for maintaining the security of the Authority's Premises in accordance with its standard security requirements. The Contractor shall comply with all security requirements of the Authority while on the Authority's Premises, and shall ensure that all Staff comply with such requirements.
- E7.2 The Authority shall give the Contractor upon request copies of its written security procedures.
- E7.3 The Contractor shall, as an enduring obligation during the Contract Period, use the latest versions of anti-virus definitions available from an industry accepted anti-virus software vendor to check for and delete Malicious Software from the ICT Environment.
- E7.4 Notwithstanding clause E7.3, if Malicious Software is found, the Parties shall co-operate to reduce the effect of the Malicious Software and, particularly if Malicious Software causes loss of operational efficiency or loss or corruption of the Authority Data, assist each other to mitigate any losses and to restore the provision of Services to their desired operating efficiency.
- E7.5 Any cost arising out of the actions of the Parties taken in compliance with clause E7.4 shall be borne by the Parties as follows:
- (a) by the Contractor where the Malicious Software originates from the Contractor Software, the Third Party Software or the Authority Data (whilst the Authority Data was under the control of the Contractor); and
 - (b) by the Authority if the Malicious Software originates from the Authority Software or Authority Data (whilst the Authority Data was under the control of the Authority).

E8 Intellectual Property Rights

- E8.1 All Intellectual Property Rights in any guidance, specifications, reports, studies, instructions, toolkits, plans, data, drawings, databases, patents, patterns, models, designs or other material which is:
- (a) furnished to or made available to the Contractor by or on behalf of the Authority;
 - (b) prepared by or for the Contractor on behalf of the Authority for use, or intended use, in relation to the performance by the Contractor of its obligations under the Contract; or
 - (c) the result of any work done by the Contractor, the Staff or any Sub-Contractor in relation to the provision of the Services (together with clauses E8.1 (a) and (b) the "IP Materials")

shall vest in the Authority and the Contractor shall not, and shall ensure that the Staff shall not, use or disclose any IP Materials without Approval save to the extent necessary for performance by the Contractor of its obligations under the Contract.

- E8.2 The Contractor hereby assigns to the Authority, with full title guarantee, all Intellectual Property Rights which may subsist in the IP Materials prepared in accordance with clause E8.1(b) and (c). This assignment shall take effect on the date of the Contract or (in the case of rights arising after the date of the Contract) as a present assignment of future rights that will take effect immediately

on the coming into existence of the Intellectual Property Rights produced by the Contractor. The Contractor shall execute all documentation and do all acts as are necessary to execute this assignment.

- E8.3 The Contractor agrees, and shall procure the agreement of the author of any copyright material arising as a result of the Contract or the performance of its obligations under the Contract, that the Authority may publish the IP Materials, in whole or in part, in whatever form the Authority chooses from time to time.
- E8.4 The Contractor shall ensure that the third party owner of any Intellectual Property Rights that are or which may be used to perform the Services grants to the Authority a non-exclusive licence or, if itself a licensee of those rights, shall grant to the Authority an authorised sub-licence, to use, reproduce, modify, develop and maintain the Intellectual Property Rights in the same. Such licence or sub-licence shall be non-exclusive, perpetual, royalty-free, worldwide and irrevocable and shall include the right for the Authority to sub-license, transfer, novate or assign to other Contracting Authorities, the Replacement Contractor or to any other third party supplying goods and/or services to the Authority.
- E8.5 The Contractor shall not infringe any Intellectual Property Rights of any third party in supplying the Services and the Contractor shall, during and after the Contract Period, indemnify and keep indemnified the Authority and the Crown from and against all actions, suits, claims, demands, losses, charges, damages, costs and expenses and other liabilities which the Authority or the Crown may suffer or incur as a result of or in connection with any breach of this clause E8.5, except to the extent that any such claim results directly from:
- (a) items or materials based upon designs supplied by the Authority; or
 - (b) the use of data supplied by the Authority which is not required to be verified by the Contractor under any provision of the Contract.
- E8.6 The Authority shall notify the Contractor in writing of any claim or demand brought against the Authority for infringement or alleged infringement of any Intellectual Property Right in materials supplied and/or licensed by the Contractor to the Authority.
- E8.7 The Contractor shall at its own expense conduct all negotiations and any litigation arising in connection with any claim, demand or action by any third party for infringement or alleged infringement of any third party Intellectual Property Rights (whether by the Authority or the Contractor) arising from the performance of the Contractor's obligations under the Contract ("Third Party IP Claim"), provided that the Contractor shall at all times:
- (a) consult the Authority on all material issues which arise during the conduct of such litigation and negotiations;
 - (b) take due and proper account of the interests of the Authority; and
 - (c) not settle or compromise any claim without Approval (not to be unreasonably withheld or delayed).
- E8.8 The Authority shall at the request of the Contractor afford to the Contractor all reasonable assistance for the purpose of contesting any Third Party IP Claim and the Contractor shall indemnify the Authority for all costs and expenses (including, but not limited to, legal costs and disbursements) incurred in doing so. The Contractor shall not be required to indemnify the Authority under this clause E8.8 in relation to any costs and expenses to the extent that such arise directly from the matters referred to in clauses E8.5(a) or (b).
- E8.9 The Authority shall not, without the Contractor's consent, make any admissions which may be prejudicial to the defence or settlement of any Third Party IP Claim.
- E8.10 If any Third Party IP Claim is made or in the reasonable opinion of the Contractor is likely to be made, the Contractor shall notify the Authority and, at its own expense and subject to Approval (not to be unreasonably withheld or delayed), shall (without prejudice to the rights of the Authority under clauses E8.4 and G2.1(g) (Warranties and Representations)) use its best endeavours to:

- (a) modify any or all of the Services without reducing the performance or functionality of the same, or substitute alternative services of equivalent performance and functionality, so as to avoid the infringement or the alleged infringement; or
- (b) procure a licence to use the Intellectual Property Rights and supply the Services which are the subject of the alleged infringement, on terms which are acceptable to the Authority

and if the Contractor is unable to comply with clauses E8.10(a) or (b) within 20 Working Days of receipt by the Authority of the Contractor's notification the Authority may terminate the Contract immediately by notice to the Contractor.

E8.11 The Contractor grants to the Authority a royalty-free, irrevocable, worldwide, non-exclusive licence (with a right to sub-license) to use any Intellectual Property Rights that the Contractor owned or developed prior to the Commencement Date and which the Authority reasonably requires in order to exercise its rights under, and receive the benefit of, the Contract (including, without limitation, the Services).

E9 Commercial Exploitation

E9.1 The Contractor shall:

- (a) ensure that its staff, students and sub-contractors are and will be engaged in relation to the Contract and the Services on terms which do not entitle any of them to any rights in the Results; and
- (b) ensure that it is and remains entitled to transfer free from any encumbrances any title and/or rights necessary to effect the vesting of Intellectual Property Rights required by the Contract.

E9.2 Subject to clauses E9.3 and E9.4 the Contractor will use reasonable endeavours to exploit the Results commercially for its benefit and the benefit of the Authority and the Co-funders.

E9.3 The Contractor shall identify and inform the Authority of any Results which it considers suitable for commercial exploitation. If the Contractor has identified an opportunity for the commercial exploitation of the Results then it may either apply to the Authority for a licence (with a right to sub-license as required) as may be necessary, or provide such assistance as is required by the Authority to facilitate a licence being granted by the Authority to a third party.

E9.4 The Contractor shall identify and inform the Authority of any Results which may be suitable for registration as a patent, copyright, registered design, trade mark or other legal protection and shall use its reasonable endeavours to apply for such protection throughout or in any part of the world in the name of the Authority, and shall maintain such protection in such part of the world as it considers suitable at its own expense.

E9.5 Subject to clause E9.6 the Income from the commercial exploitation of the Results shall, after deduction of allowable costs as described below, be apportioned between the Parties as follows:

- (a) the Authority and Co-Funders: 10%, to be divided in the proportion of the actual payments made to the Contractor under the Contract by the Authority and Co-Funders respectively; and
- (b) the Contractor: 90%.

E9.6 The Income referred to in clause E9.5 shall be payable for the longer of:

- (a) the term of any patent arising from or incorporating any of the Results; and
- (b) the period in which any Know-How arising from the Results and used in any products or services exploited by the Contractor remains secret and substantial.

E9.7 The allowable costs for the purposes of clause E9.5 shall be limited to:

- (a) the registration fees for the registering of any rights in relation to such Results;
- (b) any legal costs reasonably incurred in relation to legal proceedings in relation to such Results in any appropriate forum and before any appropriate tribunal in any country and any costs ordered by any such tribunal to be paid by the Parties or any of them;
- (c) any other reasonable cost or expenditure which may be agreed from time to time by the Authority and the Contractor; and
- (d) subject to Approval, any reasonable marketing, packaging and/or distribution costs, and any relevant experimental development costs including costs of field trials and/or demonstration projects incurred at the Contractor's expense.

E9.8 The Contractor shall have sole responsibility for making any payments due to Staff under any rewards or incentive schemes, whether contractual, ex gratia, or statutory, in relation to the Results, and any such payments shall not be a cost or expenditure liable to be subtracted from any Income pursuant to clause E9.5. Any payments in respect of a share of Income to be made to the Authority and/or the Co-funders by the Contractor shall be made promptly, in such format as the Authority may direct and accompanied by sufficient information to enable the Authority to identify: i) the contract to which such payments relate; and ii) the means (including a full breakdown of allowable costs) by which such payments have been calculated.

E9.9 If the Contractor does not intend to protect or exploit any Results then the Authority shall be entitled to obtain protection at its own cost and (if clause E8.1 (Intellectual Property Rights) has been amended or varied so that ownership of the Results vests in the Contractor) to have assigned to it at no charge all rights in the relevant Results. The Contractor will not be entitled to any share of the Income generated as the result of the protection or exploitation of the relevant Results obtained by the Authority.

E9.10 For the avoidance of doubt, clauses E9.5 to E9.9 do not apply to and do not affect any Intellectual Property Rights in existence before the commencement of the Services.

E10 Audit

E10.1 The Contractor shall keep and maintain until 6 years after the end of the Contract Period, or as long a period as may be agreed between the Parties, full and accurate records of the Contract including the Services supplied under it, all expenditure reimbursed by the Authority, and all payments made by the Authority. The Contractor shall on request afford the Authority or the Authority's representatives such access to those records and processes as may be requested by the Authority in connection with the Contract.

E10.2 The Contractor agrees to make available to the Authority, free of charge, whenever requested, copies of audit reports obtained by the Contractor in relation to the Services.

E10.3 The Contractor shall permit duly authorised representatives of the Authority and/or the National Audit Office to examine the Contractor's records and documents relating to the Contract and to provide such copies and oral or written explanations as may reasonably be required.

E10.4 The Contractor (and its agents) shall permit the Comptroller and Auditor General (and his appointed representatives) access free of charge during normal business hours on reasonable notice to all such documents (including computerised documents and data) and other information as the Comptroller and Auditor General may reasonably require for the purposes of his financial audit of the Authority and for carrying out examinations into the economy, efficiency and effectiveness with which the Authority has used its resources. The Contractor shall provide such explanations as are reasonably required for these purposes.

E11 Tax Compliance

E11.1 If, during the Contract Period, an Occasion of Tax Non-Compliance occurs, the Contractor shall:

- (a) notify the Authority in writing of such fact within 5 Working Days of its occurrence; and
- (b) promptly give the Authority:

- i) details of the steps it is taking to address the Occasion of Tax Non-Compliance and to prevent the same from recurring, together with any mitigating factors it considers relevant; and
- ii) such other information in relation to the Occasion of Tax Non-Compliance as the Authority may reasonably require.

E11.2 If the Contractor or any Staff are liable to be taxed in the UK or to pay NICs in respect of consideration received under the Contract, the Contractor shall:

- (a) at all times comply with ITEPA and all other statutes and regulations relating to income tax, and SSCBA and all other statutes and regulations relating to national insurance contributions, in respect of that consideration; and
- (b) indemnify the Authority against any income tax, national insurance and social security contributions and any other liability, deduction, contribution, assessment or claim arising from or made in connection with the provision of the Services by the Contractor or any Staff.

F. CONTROL OF THE CONTRACT

F1 Failure to meet Requirements

F1.1 If the Authority informs the Contractor in writing that the Authority reasonably believes that any part of the Services do not meet the requirements of the Contract or differs in any way from those requirements, and this is not as a result of a default by the Authority, the Contractor shall at its own expense re-schedule and carry out the Services in accordance with the requirements of the Contract within such reasonable time as may be specified by the Authority.

F1.2 The Authority may by notice to the Contractor reject any of the Goods which fail to conform to the approved sample or fail to meet the Specification. Such notice shall be given within a reasonable time after delivery to the Authority of such Goods. If the Authority rejects any of the Goods pursuant to this clause the Authority may (without prejudice to its other rights and remedies) either:

- (a) have such Goods promptly, free of charge and in any event within 5 Working Days, either repaired by the Contractor or replaced by the Contractor with Goods which conform in all respects with the approved sample or with the Specification and due delivery shall not be deemed to have taken place until such repair or replacement has occurred; or
- (b) treat the Contract as discharged by the Contractor's breach and obtain a refund (if payment for the Goods has already been made) from the Contractor in respect of the Goods concerned together with payment of any additional expenditure reasonably incurred by the Authority in obtaining other goods in replacement.

F1.3 The Authority will be deemed to have accepted the Goods if it expressly states the same in writing or fails to reject the Goods in accordance with clause F1.2.

F1.4 The issue by the Authority of a receipt note for delivery of the Goods shall not constitute any acknowledgement of the condition, quantity or nature of those Goods, or the Authority's acceptance of them.

F1.5 The Contractor hereby guarantees the Goods against faulty materials or workmanship for such period as may be specified in the Specification or, if no period is specified, for a period of 18 months from the date of delivery. If the Authority shall within such period or within 25 Working Days thereafter give notice to the Contractor of any defect in any of the Goods as may have arisen during such period under proper and normal use, the Contractor shall (without prejudice to any other rights and remedies which the Authority may have) promptly remedy such defects (whether by repair or replacement as the Authority shall elect) free of charge.

F1.6 Any Goods rejected or returned by the Authority as described in clause F1.2 shall be returned to the Contractor at the Contractor's risk and expense.

F2 Monitoring of Contract Performance

F2.1 The Contractor shall immediately inform the Authority if any of the Services are not being or are unable to be performed, the reasons for non-performance, any corrective action and the date by which that action will be completed.

F2.2 At or around 6 Months from the Commencement Date and each anniversary of the Commencement Date thereafter (each being a "Review Date"), the Authority shall carry out a review of the performance of the Contractor ("Checkpoint Review"). Without prejudice to the generality of the foregoing, the Authority may in respect of the period under review consider such items as (but not limited to): the Contractor's delivery of the Services; the Contractor's contribution to innovation in the Authority; whether the Services provide the Authority with best value for money; consideration of any changes which may need to be made to the Services; a review of future requirements in relation to the Services and progress against key milestones.

F2.3 The Contractor shall provide at its own cost any assistance reasonably required by the Authority to perform such Checkpoint Review including the provision of data and information.

F2.4 The Authority may produce a report (a "Checkpoint Review Report") of the results of each Checkpoint Review stating any areas of exceptional performance and areas for improvement in the provision of the Services and where there is any shortfall in any aspect of performance reviewed as against the Authority's expectations and the Contractor's obligations under this Contract.

F2.5 The Authority shall give the Contractor a copy of the Checkpoint Review Report (if applicable). The Authority shall consider any Contractor comments and may produce a revised Checkpoint Review Report.

F2.6 The Contractor shall, within 10 Working Days of receipt of the Checkpoint Review Report (revised as appropriate) provide the Authority with a plan to address resolution of any shortcomings and implementation of improvements identified by the Checkpoint Review Report.

F2.7 Actions required to resolve shortcomings and implement improvements (either as a consequence of the Contractor's failure to meet its obligations under this Contract identified by the Checkpoint Review Report, or those which result from the Contractor's failure to meet the Authority's expectations notified to the Contractor or of which the Contractor ought reasonably to have been aware) shall be implemented at no extra charge to the Authority.

F3 Reporting

F3.1 Unless otherwise authorised in writing by the Authority, the Contractor shall submit an annual report (the "Annual Report") for each Project Year to the Authority in accordance with this clause F3.

F3.2 The Contractor shall provide one hard copy of the Annual Report and one copy on either computer readable disk or e-mail in the format specified by or agreed with the Authority, no later than 4 weeks after the end of each Project Year, or, for work lasting one year or less, no later than 4 weeks after completion of the Services.

F3.3 The Annual Report shall:

- (a) list the scientific objectives set out in the Specification, indicating where amendments have been agreed;
- (b) indicate in non-scientific terms the scientific progress achieved since the Commencement Date or since the last Annual Report; how this relates to the policy objectives as set out in the relevant current statement of policy rationale and programme objectives relating to research and development issued by the Authority in accordance with the Specification, plus any findings of particular interest;

- (c) indicate whether the scientific objectives in the Specification are appropriate for the remainder of the Contract Period, giving reasons for any changes, together with financial, Staff and time implications;
- (d) list the milestones for the relevant Project Year as set out in the Specification, indicating which milestones have been met and whether the remaining milestones appear realistic (subject to clause F4);
- (e) list any outputs, for example, published papers or presentations and identify any opportunities for exploiting any Intellectual Property Rights or technology transfer arising out of the Services and any action taken to protect and exploit such Intellectual Property Rights; and
- (f) comment briefly on any new scientific opportunities which may arise from the Services.

F3.4 Unless Approved, the Contractor shall submit by the completion date of the Services a final report (the "Final Report") consisting of 2 hard copies and one electronic copy on either computer readable disk or by e-mail in a format specified by the Authority. The Final Report shall include the following:

- (a) the Services' code and title as set out in the Specification; the name of the Contractor; the total costs; and the Commencement Date and date of completion of the Services;
- (b) an executive summary of not more than 2 sides of A4 written in a style understandable to the intelligent non-scientist. This should include the main objectives of the Services; the methods and findings of the research; and any other significant events and options for new work; and
- (c) a scientific report.

F3.5 The scientific report referred to in clause F3.4(c) above shall contain:

- (a) the scientific objectives as set out in the Specification;
- (b) the extent to which the objectives set out in the Specification have been met;
- (c) details of methods used and the Results obtained, including statistical analysis where appropriate;
- (d) a discussion of the Results and their reliability;
- (e) the main implications of the findings;
- (f) possible future work; and
- (g) any action resulting from the research, for example, protection of Intellectual Property Rights and knowledge transfer.

F3.6 Notwithstanding clause E6 (Publicity, Media and Official Enquiries), the Authority may publish the Final Report on a website. When submitting the Final Report to the Authority the Contractor shall indicate any information contained in the Final Report which it considers to be commercially sensitive or which might otherwise merit non-publication and the Authority shall not disclose such information without first having consulted the Contractor (without prejudice to the Authority's discretion as to whether to publish following such consultation).

F3.7 The Authority reserves the right to reject any Annual Report or Final Report submitted by the Contractor which is not, in the reasonable opinion of the Authority, satisfactory, either in form or content, having regard to the provisions of this Schedule. If an Annual Report or Final Report is rejected by the Authority, the Contractor shall remedy any deficiencies identified by the Authority and submit a revised version at no additional cost to the Authority or the Co-funders.

F3.8 The Contractor shall supply any additional reports, including financial reports, in respect of the Services, at such time or times, and in such form, as the Authority may reasonably require. Without prejudice to the generality of the foregoing, the Contractor shall provide to the Authority such

information as the Authority may reasonably require regarding commercial exploitation of the Results, including details of any licences granted to third parties in respect of any Intellectual Property Rights in the same. The Contractor shall further keep at its normal place of business detailed accurate and up to date records and accounts showing details of its commercial exploitation of the Results including the sale of products or services which incorporate the Results, Income received, allowable costs deducted and the amount of licensing revenues received by it in respect of the Results in a format sufficient to ascertain that revenue sharing pursuant to the Contract has been properly accounted for and apportioned in accordance with the Contract.

F3.9 The Contractor shall, subject to reasonable notice, attend all meetings specified in the Contract or otherwise arranged by the Authority for the purpose of discussion of the Services.

F4 Remedies for inadequate performance

F4.1 If the Authority reasonably believes the Contractor has committed a Material Breach it may, without prejudice to its rights under clause H2 (Termination on Default), do any of the following:

- (a) without terminating the Contract, itself supply or procure the supply of all or part of the Services until such time as the Contractor has demonstrated to the Authority's reasonable satisfaction that the Contractor will be able to supply the Services in accordance with the Specification;
- (b) without terminating the whole of the Contract, terminate the Contract in respect of part of the Services only (whereupon a corresponding reduction in the Price shall be made) and thereafter itself supply or procure a third party to supply such part of the Services;
- (c) withhold or reduce payments to the Contractor in such amount as the Authority reasonably deems appropriate in each particular case; and/or
- (d) terminate the Contract in accordance with clause H2.

F4.2 Without prejudice to its right under clause C3 (Recovery of Sums Due), the Authority may charge the Contractor for any costs reasonably incurred and any reasonable administration costs in respect of the supply of any part of the Services by the Authority or a third party to the extent that such costs exceed the payment which would otherwise have been payable to the Contractor for such part of the Services.

F4.3 If the Authority reasonably believes the Contractor has failed to supply all or any part of the Services in accordance with the Contract, professional or industry practice which could reasonably be expected of a competent and suitably qualified person, or any legislative or regulatory requirement, the Authority may give the Contractor notice specifying the way in which its performance falls short of the requirements of the Contract or is otherwise unsatisfactory.

F4.4 If the Contractor has been notified of a failure in accordance with clause F4.3 the Authority may:

- (a) direct the Contractor to identify and remedy the failure within such time as may be specified by the Authority and to apply all such additional resources as are necessary to remedy that failure at no additional charge to the Authority within the specified timescale; and/or
- (b) withhold or reduce payments to the Contractor in such amount as the Authority deems appropriate in each particular case until such failure has been remedied to the satisfaction of the Authority.

F4.5 If the Contractor has been notified of a failure in accordance with clause F4.3, it shall:

- (a) use all reasonable endeavours to immediately minimise the impact of such failure to the Authority and to prevent such failure from recurring; and
- (b) immediately give the Authority such information as the Authority may request regarding what measures are being taken to comply with the obligations in this clause F4.5 and the progress of those measures until resolved to the satisfaction of the Authority.

F4.6 If, having been notified of any failure, the Contractor fails to remedy it in accordance with clause F4.5 within the time specified by the Authority, the Authority may treat the continuing failure as a Material Breach and may terminate the Contract immediately on notice to the Contractor.

F5 Transfer and Sub-Contracting

F5.1 Except where clauses F5.5 and F5.6 both apply, the Contractor shall not transfer, charge, assign, sub-contract or in any other way dispose of the Contract or any part of it without Approval. All such documents shall be evidenced in writing and shown to the Authority on request. Sub-contracting any part of the Contract shall not relieve the Contractor of any of its obligations or duties under the Contract.

F5.2 The Contractor shall be responsible for the acts and/or omissions of its Sub-Contractors as though they are its own. If it is appropriate, the Contractor shall provide each Sub-Contractor with a copy of the Contract and obtain written confirmation from them that they will provide the Services fully in accordance with the Contract.

F5.3 The Contractor shall ensure that its Sub-Contractors and suppliers retain all records relating to the Services for at least 6 years from the date of their creation and make them available to the Authority on request in accordance with the provisions of clause E10 (Audit). If any Sub-Contractor or supplier does not allow the Authority access to the records then the Authority shall have no obligation to pay any claim or invoice made by the Contractor on the basis of such documents or work carried out by the Sub-Contractor or supplier.

F5.4 If the Authority has consented to the placing of Sub-Contracts, copies of each Sub-Contract shall, at the request of the Authority, be sent by the Contractor to the Authority immediately.

F5.5 Notwithstanding clause F5.1, the Contractor may assign to a third party (the "Assignee") the right to receive payment of the Price or any part thereof due to the Contractor (including any interest which the Authority incurs under clause C2 (Payment and VAT)). Any assignment under this clause F5.5 shall be subject to:

- (a) reduction of any sums in respect of which the Authority exercises its right of recovery under clause C3 (Recovery of Sums Due);
- (b) all related rights of the Authority under the Contract in relation to the recovery of sums due but unpaid; and
- (c) the Authority receiving notification under both clauses F5.6 and F5.7.

F5.6 If the Contractor assigns the right to receive the Price under clause F5.5, the Contractor or the Assignee shall notify the Authority in writing of the assignment and the date upon which the assignment becomes effective.

F5.7 The Contractor shall ensure that the Assignee notifies the Authority of the Assignee's contact information and bank account details to which the Authority shall make payment.

F5.8 The provisions of clause C2 shall continue to apply in all other respects after the assignment and shall not be amended without Approval.

F5.9 Subject to clause F5.10, the Authority may assign, novate or otherwise dispose of its rights and obligations under the Contract or any part thereof to:

- (a) any Contracting Authority;
- (b) any other body established by the Crown or under statute in order substantially to perform any of the functions that had previously been performed by the Authority; or
- (c) any private sector body which substantially performs the functions of the Authority

provided that any such assignment, novation or other disposal shall not increase the burden of the Contractor's obligations under the Contract.

- F5.10 Any change in the legal status of the Authority such that it ceases to be a Contracting Authority shall not, subject to clause F5.11, affect the validity of the Contract and the Contract shall bind and inure to the benefit of any successor body to the Authority.
- F5.11 If the rights and obligations under the Contract are assigned, novated or otherwise disposed of pursuant to clause F5.9 to a body which is not a Contracting Authority or if there is a change in the legal status of the Authority such that it ceases to be a Contracting Authority (in the remainder of this clause F5 both such bodies being referred to as the “Transferee”):
- (a) the rights of termination of the Authority in clauses H1 and H2 shall be available to the Contractor in respect of the Transferee; and
 - (b) the Transferee shall only be able to assign, novate or otherwise dispose of its rights and obligations under the Contract or any part thereof with the prior consent in writing of the Contractor.
- F5.12 The Authority may disclose to any Transferee any Confidential Information of the Contractor which relates to the performance of the Contractor’s obligations under the Contract. In such circumstances the Authority shall authorise the Transferee to use such Confidential Information only for purposes relating to the performance of the Contractor’s obligations under the Contract and for no other purpose and shall take all reasonable steps to ensure that the Transferee gives a confidentiality undertaking in relation to such Confidential Information.
- F5.13 Each Party shall at its own cost and expense carry out, or use all reasonable endeavours to ensure the carrying out of, whatever further actions (including the execution of further documents) the other Party reasonably requires from time to time for the purpose of giving that other Party the full benefit of the provisions of the Contract.

F6 Waiver

- F6.1 The failure of either Party to insist upon strict performance of any provision of the Contract, or the failure of either Party to exercise, or any delay in exercising, any right or remedy shall not constitute a waiver of that right or remedy and shall not cause a diminution of the obligations established by the Contract.
- F6.2 No waiver shall be effective unless it is expressly stated to be a waiver and communicated to the other Party in writing in accordance with clause A4.2 (Notices).
- F6.3 A waiver of any right or remedy arising from a breach of the Contract shall not constitute a waiver of any right or remedy arising from any other or subsequent breach of the Contract.

F7 Variation

- F7.1 Subject to the provisions of this clause F7, the Authority may request a Variation provided that such Variation does not amount to a material change.
- F7.2 The Authority may request a Variation by notifying the Contractor in writing of the Variation and giving the Contractor sufficient information to assess the extent of the Variation and consider whether any change to the Price is required in order to implement the Variation within a reasonable time limit specified by the Authority. If the Contractor accepts the Variation it shall confirm it in writing.
- F7.3 If the Contractor is unable to accept the Variation or where the Parties are unable to agree a change to the Price, the Authority may:
- (a) allow the Contractor to fulfil its obligations under the Contract without the Variation to the Specification; or
 - (b) terminate the Contract immediately except where the Contractor has already delivered all or part of the Services or where the Contractor can show evidence of substantial work being carried out to fulfil the requirements of the Specification; and in such case the Parties shall attempt to agree upon a resolution to the matter. If a resolution cannot be

reached, the matter shall be dealt with under the Dispute Resolution procedure detailed in clause I2 (Dispute Resolution).

F7.4 Any Variation will not take effect unless recorded in a CCN and approved in writing by the Authority.

F7.5 The provisions of clause F7.4 may be varied in an emergency if it is not practicable to obtain the Authorised Representative's approval within the time necessary to make the Variation in order to address the emergency. In an emergency, Variations may be approved by a different representative of the Authority. However, the Authorised Representative shall have the right to review such a Variation and require a CCN to be entered into on a retrospective basis which may itself vary the emergency Variation.

F8 Severability

F8.1 If any provision of the Contract which is not of a fundamental nature is held invalid, illegal or unenforceable for any reason by any court of competent jurisdiction, such provision shall be severed and the remainder of the provisions of the Contract shall continue in full force and effect as if the Contract had been executed with the invalid, illegal or unenforceable provision eliminated.

F9 Remedies Cumulative

F9.1 Except as expressly provided in the Contract all remedies available to either Party for breach of the Contract are cumulative and may be exercised concurrently or separately, and the exercise of any one remedy shall not be deemed an election of such remedy to the exclusion of other remedies.

F10 Entire Agreement

F10.1 The Contract constitutes the entire agreement between the Parties in respect of the matters dealt with therein. The Contract supersedes all prior negotiations between the Parties and all representations and undertakings made by one Party to the other, whether written or oral, except that this clause shall not exclude liability in respect of any fraudulent misrepresentation.

F11 Counterparts

F11.1 The Contract may be executed in counterparts, each of which when executed and delivered shall constitute an original but all counterparts together shall constitute one and the same instrument.

G LIABILITIES

G1 Liability, Indemnity and Insurance

G1.1 Neither Party limits its liability for:

- (a) death or personal injury caused by its negligence;
- (b) fraud or fraudulent misrepresentation;
- (c) any 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;
- (d) any breach of clause D1; or
- (e) any liability to the extent it cannot be limited or excluded by Law.

G1.2 Subject to clauses G1.3 and G1.4, the Contractor shall indemnify the Authority and keep the Authority indemnified fully against all claims, proceedings, demands, charges, actions, damages, costs, breach of statutory duty, expenses and any other liabilities which may arise out of the supply, or the late or purported supply, of the Services or the performance or non-performance by the Contractor of its obligations under the Contract or the presence of the Contractor or any Staff

on the Premises, including in respect of any death or personal injury, loss of or damage to property, financial loss arising from any advice given or omitted to be given by the Contractor, or any other loss which is caused directly by any act or omission of the Contractor.

- G1.3 Subject to clause G1.1 the Contractor's aggregate liability in respect of the Contract shall not exceed £5 million
- G1.4 The Contractor shall not be responsible for any injury, loss, damage, cost or expense if and to the extent that it is caused by the negligence or wilful misconduct of the Authority or by breach by the Authority of its obligations under the Contract.
- G1.5 The Authority may recover from the Contractor the following losses incurred by the Authority to the extent they arise as a result of a Default by the Contractor:
- (a) any additional operational and/or administrative costs and expenses incurred by the Authority, including costs relating to time spent by or on behalf of the Authority in dealing with the consequences of the Default;
 - (b) any wasted expenditure or charges;
 - (c) the additional costs of procuring a Replacement Contractor for the remainder of the Contract Period and or replacement deliverables which shall include any incremental costs associated with the Replacement Contractor and/or replacement deliverables above those which would have been payable under the Contract;
 - (d) any compensation or interest paid to a third party by the Authority; and
 - (e) any fine or penalty incurred by the Authority pursuant to Law and any costs incurred by the Authority in defending any proceedings which result in such fine or penalty.
- G1.6 Subject to clauses G1.1 and G1.5, neither Party shall be liable to the other for any:
- (a) loss of profits, turnover, business opportunities or damage to goodwill (in each case whether direct or indirect); or
 - (b) indirect, special or consequential loss.
- G1.7 Unless otherwise specified by the Authority, the Contractor shall, with effect from the Commencement Date for such period as necessary to enable the Contractor to comply with its obligations herein, take out and maintain with a reputable insurance company a policy or policies of insurance providing an adequate level of cover in respect of all risks which may be incurred by the Contractor, arising out of the Contractor's performance of its obligations under the Contract, including death or personal injury, loss of or damage to property or any other loss. Such policies shall include cover in respect of any financial loss arising from any advice given or omitted to be given by the Contractor. Such insurance shall be maintained for the duration of the Contract Period and for a minimum of 6 years following the end of the Contract.
- G1.8 The Contractor shall hold employer's liability insurance in respect of Staff and such insurance shall be in accordance with any legal requirement from time to time in force.
- G1.9 The Contractor shall give the Authority, on request, copies of all insurance policies referred to in this clause or a broker's verification of insurance to demonstrate that the appropriate cover is in place, together with receipts or other evidence of payment of the latest premiums due under those policies.
- G1.10 If the Contractor does not give effect to and maintain the insurances required by the provisions of the Contract, the Authority may make alternative arrangements to protect its interests and may recover the costs of such arrangements from the Contractor.
- G1.11 The provisions of any insurance or the amount of cover shall not relieve the Contractor of any liabilities under the Contract.

G1.12 The Contractor shall not take any action or fail to take any reasonable action, or (to the extent that it is reasonably within its power) permit anything to occur in relation to the Contractor, which would entitle any insurer to refuse to pay any claim under any insurance policy in which the Contractor is an insured, a co-insured or additional insured person.

G2 Warranties and Representations

G2.1 The Contractor warrants and represents on the Commencement Date and for the Contract Period that:

- (a) it has full capacity and authority and all necessary consents to enter into and perform the Contract and that the Contract is executed by a duly authorised representative of the Contractor;
- (b) in entering the Contract it has not committed any fraud;
- (c) as at the Commencement Date, all information contained in the Tender or other offer made by the Contractor to the Authority remains true, accurate and not misleading, save as may have been specifically disclosed in writing to the Authority prior to execution of the Contract and in addition, that it will advise the Authority of any fact, matter or circumstance of which it may become aware which would render such information to be false or misleading;
- (d) no claim is being asserted and no litigation, arbitration or administrative proceeding is presently in progress or, to the best of its knowledge and belief, pending or threatened against it or any of its assets which will or might have an adverse effect on its ability to perform its obligations under the Contract;
- (e) it is not subject to any contractual obligation, compliance with which is likely to have a material adverse effect on its ability to perform its obligations under the Contract;
- (f) no proceedings or other steps have been taken and not discharged (nor, to the best of its knowledge, are threatened) for the winding up of the Contractor or for its dissolution or for the appointment of a receiver, administrative receiver, liquidator, manager, administrator or similar officer in relation to any of the Contractor's assets or revenue;
- (g) it owns, or has obtained or is able to obtain valid licences for, all Intellectual Property Rights that are necessary for the performance of its obligations under the Contract;
- (h) any person engaged by the Contractor shall be engaged on terms which do not entitle them to any Intellectual Property Right in any IP Materials;
- (i) in the 3 years (or period of existence where the Contractor has not been in existence for 3 years) prior to the date of the Contract:
 - (i) it has conducted all financial accounting and reporting activities in compliance in all material respects with the generally accepted accounting principles that apply to it in any country where it files accounts;
 - (ii) it has been in full compliance with all applicable securities and tax laws and regulations in the jurisdiction in which it is established; and
 - (iii) it has not done or omitted to do anything which could have a material adverse effect on its assets, financial condition or position as an ongoing business concern or its ability to fulfil its obligations under the Contract;
- (j) it has and will continue to hold all necessary (if any) regulatory approvals from the Regulatory Bodies necessary to perform its obligations under the Contract; and
- (k) it has notified the Authority in writing of any Occasions of Tax Non-Compliance and any litigation in which it is involved that is in connection with any Occasion of Tax Non-Compliance.

G3 Force Majeure

- G3.1 Subject to the remaining provisions of this clause G3, a Party may claim relief under this clause G3 from liability for failure to meet its obligations under the Contract for as long as and only to the extent that the performance of those obligations is directly affected by a Force Majeure Event. Any failure or delay by the Contractor in performing its obligations under the Contract which results from a failure or delay by an agent, Sub-Contractor or supplier shall be regarded as due to a Force Majeure Event only if that agent, Sub-Contractor or supplier is itself impeded by a Force Majeure Event from complying with an obligation to the Contractor.
- G3.2 The Affected Party shall as soon as reasonably practicable issue a Force Majeure Notice, which shall include details of the Force Majeure Event, its effect on the obligations of the Affected Party and any action the Affected Party proposes to take to mitigate its effect.
- G3.3 If the Contractor is the Affected Party, it shall not be entitled to claim relief under this clause G3 to the extent that consequences of the relevant Force Majeure Event:
- (a) are capable of being mitigated by any of the Services, but the Contractor has failed to do so; and/or
 - (b) should have been foreseen and prevented or avoided by a prudent provider of services similar to the Services, operating to the standards required by the Contract.
- G3.4 Subject to clause G3.5, as soon as practicable after the Affected Party issues the Force Majeure Notice, and at regular intervals thereafter, the Parties shall consult in good faith and use reasonable endeavours to agree any steps to be taken and an appropriate timetable in which those steps should be taken, to enable continued provision of the Services affected by the Force Majeure Event.
- G3.5 The Parties shall at all times following the occurrence of a Force Majeure Event and during its subsistence use their respective reasonable endeavours to prevent and mitigate the effects of the Force Majeure Event. Where the Contractor is the Affected Party, it shall take all steps in accordance with Good Industry Practice to overcome or minimise the consequences of the Force Majeure Event.
- G3.6 Where, as a result of a Force Majeure Event:
- (a) an Affected Party fails to perform its obligations in accordance with the Contract, then during the continuance of the Force Majeure Event:
 - i) the other Party shall not be entitled to exercise its rights to terminate the Contract in whole or in part as a result of such failure pursuant to clause H2.1 or H2.3; and
 - ii) neither Party shall be liable for any Default arising as a result of such failure;
 - (b) the Contractor fails to perform its obligations in accordance with the Contract it shall be entitled to receive payment of the Price (or a proportional payment of it) only to the extent that the Services (or part of the Services) continue to be performed in accordance with the terms of the Contract during the occurrence of the Force Majeure Event.
- G3.7 The Affected Party shall notify the other Party as soon as practicable after the Force Majeure Event ceases or no longer causes the Affected Party to be unable to comply with its obligations under the Contract.
- G3.8 Relief from liability for the Affected Party under this clause G3 shall end as soon as the Force Majeure Event no longer causes the Affected Party to be unable to comply with its obligations under the Contract and shall not be dependent on the serving of notice under clause G3.7.

H DEFAULT, DISRUPTION AND TERMINATION

H1 Termination on Insolvency and Change of Control

H1.1 The Authority may terminate the Contract with immediate effect by notice and without compensation to the Contractor where the Contractor is a company and in respect of the Contractor:

- (a) a proposal is made for a voluntary arrangement within Part I of the Insolvency Act 1986 or of any other composition scheme or arrangement with, or assignment for the benefit of, its creditors;
- (b) a shareholders' meeting is convened for the purpose of considering a resolution that it be wound up or a resolution for its winding-up is passed (other than as part of, and exclusively for the purpose of, a bona fide reconstruction or amalgamation);
- (c) a petition is presented for its winding up (which is not dismissed within 14 days of its service) or an application is made for the appointment of a provisional liquidator or a creditors' meeting is convened pursuant to section 98 of the Insolvency Act 1986;
- (d) a receiver, administrative receiver or similar officer is appointed over the whole or any part of its business or assets;
- (e) an application order is made either for the appointment of an administrator or for an administration order, an administrator is appointed, or notice of intention to appoint an administrator is given;
- (f) it is or becomes insolvent within the meaning of section 123 of the Insolvency Act 1986;
- (g) being a "small company" within the meaning of section 247(3) of the Companies Act 1985, a moratorium comes into force pursuant to Schedule A1 of the Insolvency Act 1986; or
- (h) any event similar to those listed in H1.1(a)-(g) occurs under the law of any other jurisdiction.

H1.2 The Authority may terminate the Contract with immediate effect by notice and without compensation to the Contractor where the Contractor is an individual and:

- (a) an application for an interim order is made pursuant to sections 252-253 of the Insolvency Act 1986 or a proposal is made for any composition scheme or arrangement with, or assignment for the benefit of, the Contractor's creditors;
- (b) a petition is presented and not dismissed within 14 days or order made for the Contractor's bankruptcy;
- (c) a receiver, or similar officer is appointed over the whole or any part of the Contractor's assets or a person becomes entitled to appoint a receiver, or similar officer over the whole or any part of his assets;
- (d) the Contractor is unable to pay his debts or has no reasonable prospect of doing so, in either case within the meaning of section 268 of the Insolvency Act 1986;
- (e) a creditor or encumbrancer attaches or takes possession of, or a distress, execution, sequestration or other such process is levied or enforced on or sued against, the whole or any part of the Contractor's assets and such attachment or process is not discharged within 14 days;

- (f) he dies or is adjudged incapable of managing his affairs within the meaning of Part VII of the Mental Capacity Act 2005;
- (g) he suspends or ceases, or threatens to suspend or cease, to carry on all or a substantial part of his business; or
- (h) any event similar to those listed in clauses H1.2(a) to (g) occurs under the law of any other jurisdiction.

H1.3 The Contractor shall notify the Authority immediately in writing of any proposal or negotiations which will or may result in a merger, take-over, change of control, change of name or status including where the Contractor undergoes a change of control within the meaning of section 1124 of the Corporation Taxes Act 2010 ("Change of Control"). The Authority may terminate the Contract with immediate effect by notice and without compensation to the Contractor within 6 Months of:

- (a) being notified that a Change of Control has occurred; or
- (b) where no notification has been made, the date that the Authority becomes aware of the Change of Control,

but shall not be permitted to terminate where Approval was granted prior to the Change of Control.

H1.4 The Authority may terminate the Contract with immediate effect by notice and without compensation to the Contractor where the Contractor is a partnership and:

- (a) a proposal is made for a voluntary arrangement within Article 4 of the Insolvent Partnerships Order 1994 or a proposal is made for any other composition, scheme or arrangement with, or assignment for the benefit of, its creditors; or
- (b) it is for any reason dissolved; or
- (c) a petition is presented for its winding up or for the making of any administration order, or an application is made for the appointment of a provisional liquidator; or
- (d) a receiver, or similar officer is appointed over the whole or any part of its assets; or
- (e) the partnership is deemed unable to pay its debts within the meaning of section 222 or 223 of the Insolvency Act 1986 as applied and modified by the Insolvent Partnerships Order 1994; or
- (f) any of the following occurs in relation to any of its partners:
 - (i) an application for an interim order is made pursuant to sections 252-253 of the Insolvency Act 1986 or a proposal is made for any composition scheme or arrangement with, or assignment for the benefit of, his creditors;
 - (ii) a petition is presented for his bankruptcy; or
 - (iii) a receiver, or similar officer is appointed over the whole or any part of his assets;
- (g) any event similar to those listed in clauses H1.4(a) to (f) occurs under the law of any other jurisdiction .

H1.5 The Authority may terminate the Contract with immediate effect by notice and without compensation to the Contractor where the Contractor is a limited liability partnership and:

- (a) a proposal is made for a voluntary arrangement within Part I of the Insolvency Act 1986 or a proposal is made for any other composition, scheme or arrangement with, or assignment for the benefit of, its creditors;
- (b) it is for any reason dissolved;

- (c) an application is made either for the appointment of an administrator or for an administration order, an administrator is appointed, or notice of intention to appoint an administrator is given within Part II of the Insolvency Act 1986;
- (d) any step is taken with a view to it being determined that it be wound up (other than as part of, and exclusively for the purpose of, a bona fide reconstruction or amalgamation) within Part IV of the Insolvency Act 1986;
- (e) a petition is presented for its winding up (which is not dismissed within 14 days of its service) or an application is made for the appointment of a provisional liquidator within Part IV of the Insolvency Act 1986;
- (f) a receiver, or similar officer is appointed over the whole or any part of its assets; or
- (g) it is or becomes unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986;
- (h) a moratorium comes into force pursuant to Schedule A1 of the Insolvency Act 1986; or
- (i) any event similar to those listed in clauses H1.5 (a) to (h) occurs under the law of any other jurisdiction.

H1.6 References to the Insolvency Act 1986 in clause H1.5(a) shall be construed as being references to that Act as applied under the Limited Liability Partnerships Act 2000 subordinate legislation.

H2 Termination on Default

H2.1 The Authority may terminate the Contract with immediate effect by notice if the Contractor commits a Default and:

- (a) the Contractor has not remedied the Default to the satisfaction of the Authority within 25 Working Days or such other period as may be specified by the Authority, after issue of a notice specifying the Default and requesting it to be remedied;
- (b) the Default is not, in the opinion of the Authority, capable of remedy; or
- (c) the Default is a Material Breach.

H2.2 If, through any Default of the Contractor, data transmitted or processed in connection with the Contract is either lost or sufficiently degraded as to be unusable, the Contractor shall be liable for the cost of reconstitution of that data and shall reimburse the Authority in respect of any charge levied for its transmission and any other costs charged in connection with such Default.

H2.3 If the Authority fails to pay the Contractor undisputed sums of money when due, the Contractor shall give notice to the Authority of its failure to pay. If the Authority fails to pay such undisputed sums within 90 Working Days of the date of such notice, the Contractor may terminate the Contract in writing with immediate effect, save that such right of termination shall not apply where the failure to pay is due to the Authority exercising its rights under clause C3.1 (Recovery of Sums Due) or to a Force Majeure Event.

H3 Termination on Notice

H3.1 The Authority may terminate the Contract at any time by giving [30] days' notice to the Contractor.

H4 Consequences of Expiry or Termination

H4.1 If the Authority terminates the Contract under clause H2 and makes other arrangements for the supply of the Services the Authority may recover from the Contractor the cost reasonably incurred of making those other arrangements and any additional expenditure incurred by the Authority throughout the remainder of the Contract Period.

H4.2 If Contract is terminated under clause H2 the Authority shall make no further payments to the Contractor (for Services supplied by the Contractor prior to termination and in accordance with the

Contract but where the payment has yet to be made by the Authority), until the Authority has established the final cost of making the other arrangements envisaged under this clause.

H4.2 If the Authority terminates the Contract under clause H3 the Authority shall make no further payments to the Contractor except for Services supplied by the Contractor prior to termination and in accordance with the Contract but where the payment has yet to be made by the Authority.

H4.3 Save as otherwise expressly provided in the Contract:

(a) termination or expiry of the Contract shall be without prejudice to any rights, remedies or obligations accrued under the Contract prior to termination or expiration and nothing in the Contract shall prejudice the right of either Party to recover any amount outstanding at such termination or expiry; and

(b) termination of the Contract shall not affect the continuing rights, remedies or obligations of the Authority or the Contractor under clauses C2 (Payment and VAT), C3 (Recovery of Sums Due), D1 (Prevention of Fraud and Bribery), E2 (Data Protection Act Compliance), E3 (Official Secrets Acts 1911 to 1989, Section 182 of the Finance Act 1989), E4 (Confidential Information), E5 (Freedom of Information), E8 (Intellectual Property Rights), E10 (Audit), F10 (Remedies Cumulative), G1 (Liability, Indemnity and Insurance), H4 (Consequences of Expiry or Termination), H6 (Recovery upon Termination) and I1 (Governing Law and Jurisdiction).

H5 Disruption

H5.1 The Contractor shall take reasonable care to ensure that in the performance of its obligations under the Contract it does not disrupt the operations of the Authority, its employees or any other contractor employed by the Authority.

H5.2 The Contractor shall immediately inform the Authority of any actual or potential industrial action, whether such action be by its own employees or others, which affects or might affect its ability at any time to perform its obligations under the Contract.

H5.3 If there is industrial action by the Staff, the Contractor shall seek Approval to its proposals to continue to perform its obligations under the Contract.

H5.4 If the Contractor's proposals referred to in clause H5.3 are considered insufficient or unacceptable by the Authority acting reasonably, then the Contract may be terminated with immediate effect by the Authority by notice.

H5.5 If the Contractor is unable to deliver the Services owing to disruption of the Authority's normal business, the Contractor may request a reasonable allowance of time, and, in addition, the Authority will reimburse any additional expense reasonably incurred by the Contractor as a direct result of such disruption.

H6 Recovery upon Termination

H6.1 On termination of the Contract for any reason, the Contractor shall at its cost:

(a) immediately return to the Authority all Confidential Information, Personal Data and IP Materials in its possession or in the possession or under the control of any permitted suppliers or Sub-Contractors, which was obtained or produced in the course of providing the Goods and Services;

(b) immediately deliver to the Authority all Property (including materials, documents, information and access keys) provided to the Contractor in good working order;

(c) immediately vacate any Authority Premises occupied by the Contractor;

(d) assist and co-operate with the Authority to ensure an orderly transition of the provision of the Services to the Replacement Contractor and/or the completion of any work in progress; and

- (e) promptly provide all information concerning the provision of the Services which may reasonably be requested by the Authority for the purposes of adequately understanding the manner in which the Services have been provided and/or for the purpose of allowing the Authority and/or the Replacement Contractor to conduct due diligence.

H6.2 If the Contractor does not comply with clauses H6.1(a) and (b), the Authority may recover possession thereof and the Contractor grants a licence to the Authority or its appointed agents to enter (for the purposes of such recovery) any premises of the Contractor or its permitted suppliers or Sub-Contractors where any such items may be held.

H7 Retendering and Handover

H7.1 Within 21 days of being requested by the Authority, the Contractor shall provide, and thereafter keep updated, in a fully indexed and catalogued format, all the information necessary to enable the Authority to issue tender documents for the future provision of the Services.

H7.2 The Authority shall take all necessary precautions to ensure that the information referred to in clause H7.1 is given only to potential providers who have qualified to tender for the future provision of the Services.

H7.3 The Authority shall require that all potential providers treat the information in confidence; that they do not communicate it except to such persons within their organisation and to such extent as may be necessary for the purpose of preparing a response to an invitation to tender issued by the Authority; and that they shall not use it for any other purpose.

H7.4 The Contractor shall indemnify the Authority against any claim made against the Authority at any time by any person in respect of any liability incurred by the Authority arising from any deficiency or inaccuracy in information which the Contractor is required to provide under clause H7.1.

H7.5 The Contractor shall allow access to the Premises in the presence of the Authorised Representative, to any person representing any potential provider whom the Authority has selected to tender for the future provision of the Services.

H7.6 If access is required to the Contractor's Premises for the purposes of clause H7.5, the Authority shall give the Contractor 7 days' notice of a proposed visit together with a list showing the names of all persons who will be visiting. Their attendance shall be subject to compliance with the Contractor's security procedures, subject to such compliance not being in conflict with the objectives of the visit.

H7.7 The Contractor shall co-operate fully with the Authority during any handover at the end of the Contract. This co-operation shall include allowing full access to, and providing copies of, all documents, reports, summaries and any other information necessary in order to achieve an effective transition without disruption to routine operational requirements.

H7.8 Within 10 Working Days of being requested by the Authority, the Contractor shall transfer to the Authority, or any person designated by the Authority, free of charge, all computerised filing, recording, documentation, planning and drawing held on software and utilised in the provision of the Services. The transfer shall be made in a fully indexed and catalogued disk format, to operate on a proprietary software package identical to that used by the Authority.

H8 Exit Management

H8.1 Upon termination the Contractor shall render reasonable assistance to the Authority to the extent necessary to effect an orderly assumption by a Replacement Contractor in accordance with the following procedure set out in clause H9.

H9 Exit Procedures

H9.1 Where the Authority requires a continuation of all or any of the Services on expiry or termination of this Contract, either by performing them itself or by engaging a third party to perform them, the Contractor shall co-operate fully with the Authority and any such third party and shall take all reasonable steps to ensure the timely and effective transfer of the Services without disruption to routine operational requirements.

- H9.2 The following commercial approach shall apply to the transfer of the Services if the Contractor:
- (a) does not have to use resources in addition to those normally used to deliver the Services prior to termination or expiry, there shall be no change to the Price; or
 - (b) reasonably incurs additional costs, the Parties shall agree a Variation to the Price based on the Contractor's rates either set out in Schedule 2 or forming the basis for the Price.
- H9.3 When requested to do so by the Authority, the Contractor shall deliver to the Authority details of all licences for software used in the provision of the Services including the software licence agreements.
- H9.4 Within one Month of receiving the software licence information described above, the Authority shall notify the Contractor of the licences it wishes to be transferred, and the Contractor shall provide for the approval of the Authority a plan for licence transfer.

H10 Knowledge Retention

- H10.1 The Contractor shall co-operate fully with the Authority in order to enable an efficient and detailed knowledge transfer from the Contractor to the Authority on the completion or earlier termination of the Contract and in addition, to minimise any disruption to routine operational requirements. To facilitate this transfer, the Contractor shall provide the Authority free of charge with full access to its Staff, and in addition, copies of all documents, reports, summaries and any other information requested by the Authority. The Contractor shall comply with the Authority's request for information no later than 15 Working Days from the date that that request was made.

I DISPUTES AND LAW

I1 Governing Law and Jurisdiction

- I1.1 Subject to the provisions of clause I2 the Contract shall be governed by and interpreted in accordance with English Law and shall be subject to the jurisdiction of the Courts of England and Wales. The submission to such jurisdiction shall not limit the right of the Authority to take proceedings against the Contractor in any other court of competent jurisdiction, and the taking of proceedings in any other court of competent jurisdiction shall not preclude the taking of proceedings in any other jurisdiction whether concurrently or not.

I2 Dispute Resolution

- I2.1 The Parties shall attempt in good faith to negotiate a settlement to any dispute between them arising out of or in connection with the Contract within 20 Working Days of either Party notifying the other of the dispute and such efforts shall involve the escalation of the dispute to the finance director of the Contractor and the commercial director of the Authority.
- I2.2 Nothing in this dispute resolution procedure shall prevent the Parties from seeking from any court of competent jurisdiction an interim order restraining the other Party from doing any act or compelling the other Party to do any act.
- I2.3 If the dispute cannot be resolved by the Parties pursuant to clause I2.1 the Parties shall refer it to mediation pursuant to the procedure set out in clause I2.5 unless: (a) the Authority considers that the dispute is not suitable for resolution by mediation; or (b) the Contractor does not agree to mediation.
- I2.4 The obligations of the Parties under the Contract shall not cease, or be suspended or delayed by the reference of a dispute to mediation (or arbitration) and the Contractor and the Staff shall comply fully with the requirements of the Contract at all times.
- I2.5 The procedure for mediation and consequential provisions relating to mediation are as follows:

- (a) a neutral adviser or mediator (the “Mediator”) shall be chosen by agreement between the Parties or, if they are unable to agree upon a Mediator within 10 Working Days after a request by one Party to the other or if the Mediator agreed upon is unable or unwilling to act, either Party shall within 10 Working Days from the date of the proposal to appoint a Mediator or within 10 Working Days of notice to either Party that he is unable or unwilling to act, apply to the Centre for Effective Dispute Resolution to appoint a Mediator;
- (b) the Parties shall within 10 Working Days of the appointment of the Mediator meet with him in order to agree a programme for the exchange of all relevant information and the structure to be adopted for negotiations. If appropriate, the Parties may at any stage seek assistance from the Centre for Effective Dispute Resolution to provide guidance on a suitable procedure;
- (c) unless otherwise agreed, all negotiations connected with the dispute and any settlement agreement relating to it shall be conducted in confidence and without prejudice to the rights of the Parties in any future proceedings;
- (d) if the Parties reach agreement on the resolution of the dispute, the agreement shall be recorded in writing and shall be binding on the Parties once it is signed by their duly authorised representatives;
- (e) failing agreement, either of the Parties may invite the Mediator to provide a non-binding but informative written opinion. Such an opinion shall be provided on a without prejudice basis and shall not be used in evidence in any proceedings relating to the Contract without the prior written consent of both Parties; and
- (f) if the Parties fail to reach agreement in the structured negotiations within 60 Working Days of the Mediator being appointed, or such longer period as may be agreed by the Parties, then any dispute or difference between them may be referred to the Courts unless the dispute is referred to arbitration pursuant to the procedures set out in clause I2.6.

I2.6 Subject to clause I2.2, the Parties shall not institute court proceedings until the procedures set out in clauses I2.1 and I2.3 have been completed save that:

- (a) The Authority may at any time before court proceedings are commenced, serve a notice on the Contractor requiring the dispute to be referred to and resolved by arbitration in accordance with clause I2.7;
- (b) if the Contractor intends to commence court proceedings, it shall serve notice on the Authority of its intentions and the Authority shall have 21 days following receipt of such notice to serve a reply on the Contractor requiring the dispute to be referred to and resolved by arbitration in accordance with clause I2.7; and
- (c) the Contractor may request by notice to the Authority that any dispute be referred and resolved by arbitration in accordance with clause I2.7, to which the Authority may consent as it sees fit.

I2.7 If any arbitration proceedings are commenced pursuant to clause I2.6,

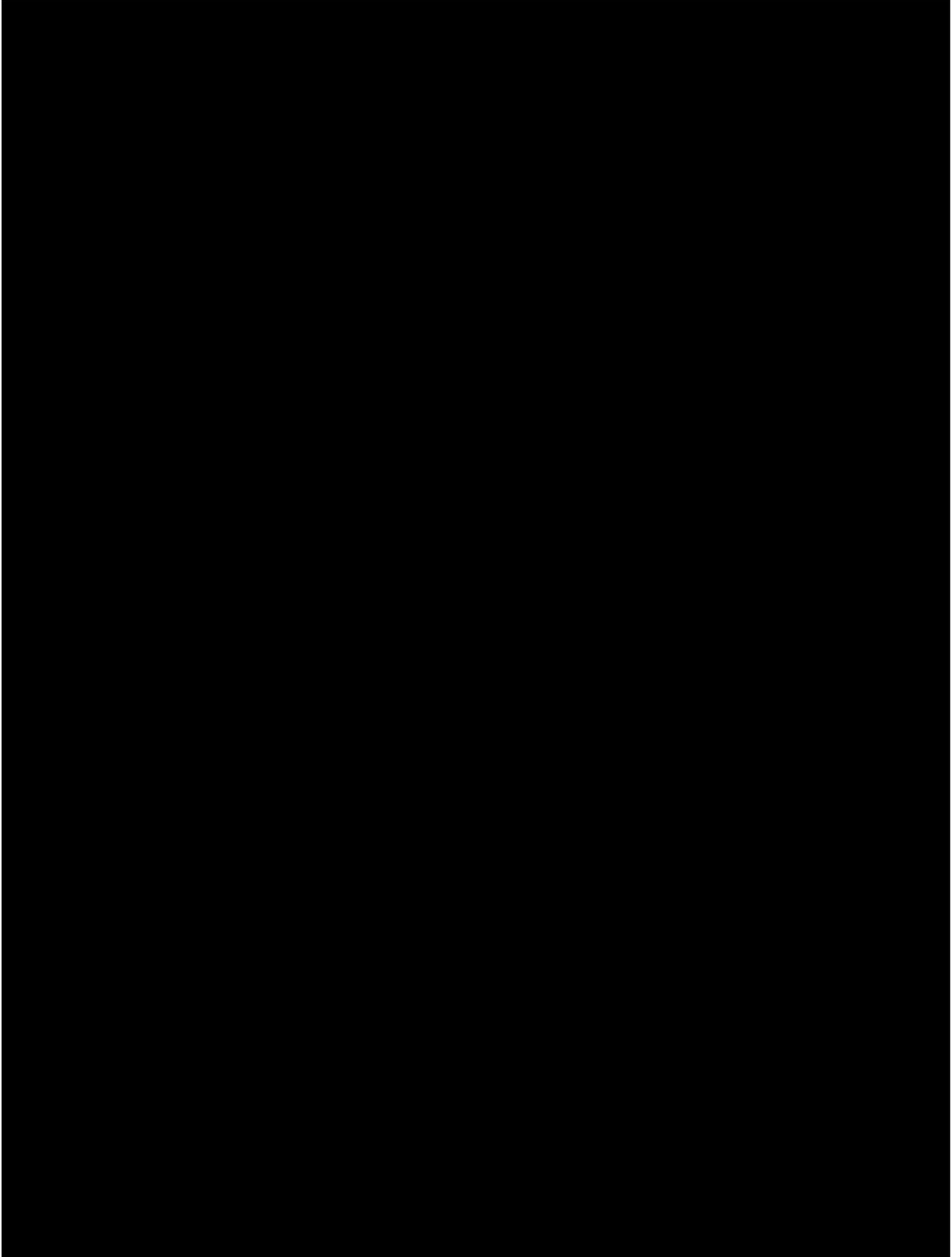
- (a) the arbitration shall be governed by the provisions of the Arbitration Act 1996 and the Authority shall give a notice of arbitration to the Contractor (the “Arbitration Notice”) stating:
 - (i) that the dispute is referred to arbitration; and
 - (ii) providing details of the issues to be resolved;
- (b) the London Court of International Arbitration (“LCIA”) procedural rules in force at the date that the dispute was referred to arbitration in accordance with I2.7(b) shall be applied and are deemed to be incorporated by reference to the Contract and the decision of the arbitrator shall be binding on the Parties in the absence of any material failure to comply with such rules;

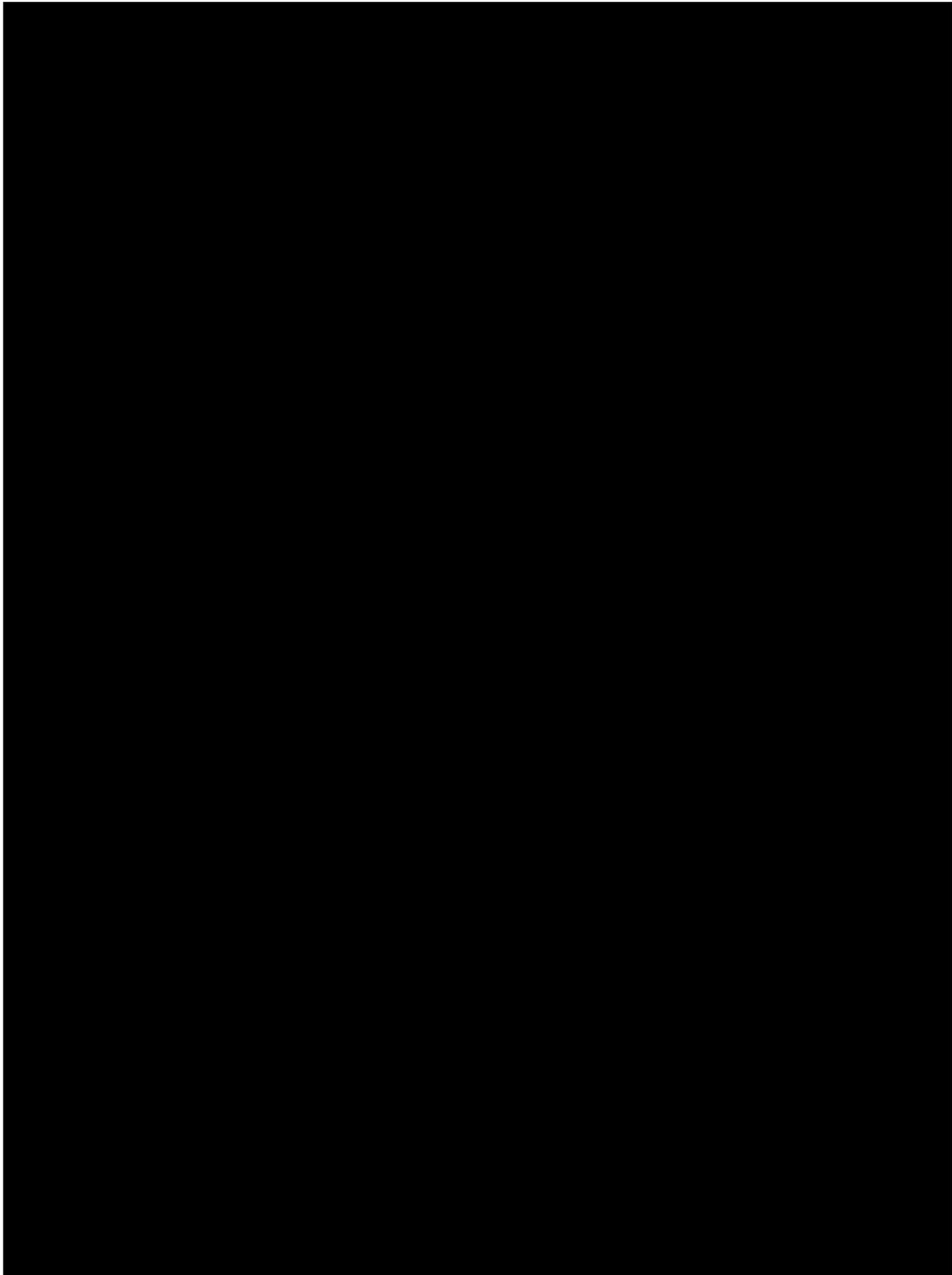
- (c) the tribunal shall consist of a sole arbitrator to be agreed by the Parties;
- (d) if the Parties fail to agree the appointment of the arbitrator within 10 days of the Arbitration Notice being issued by the Authority under clause 12.7(a) or if the person appointed is unable or unwilling to act, the arbitrator shall be appointed by the LCIA;
- (e) the arbitration proceedings shall take place in London and in the English language; and
- (f) the arbitration proceedings shall be governed by, and interpreted in accordance with, English Law.

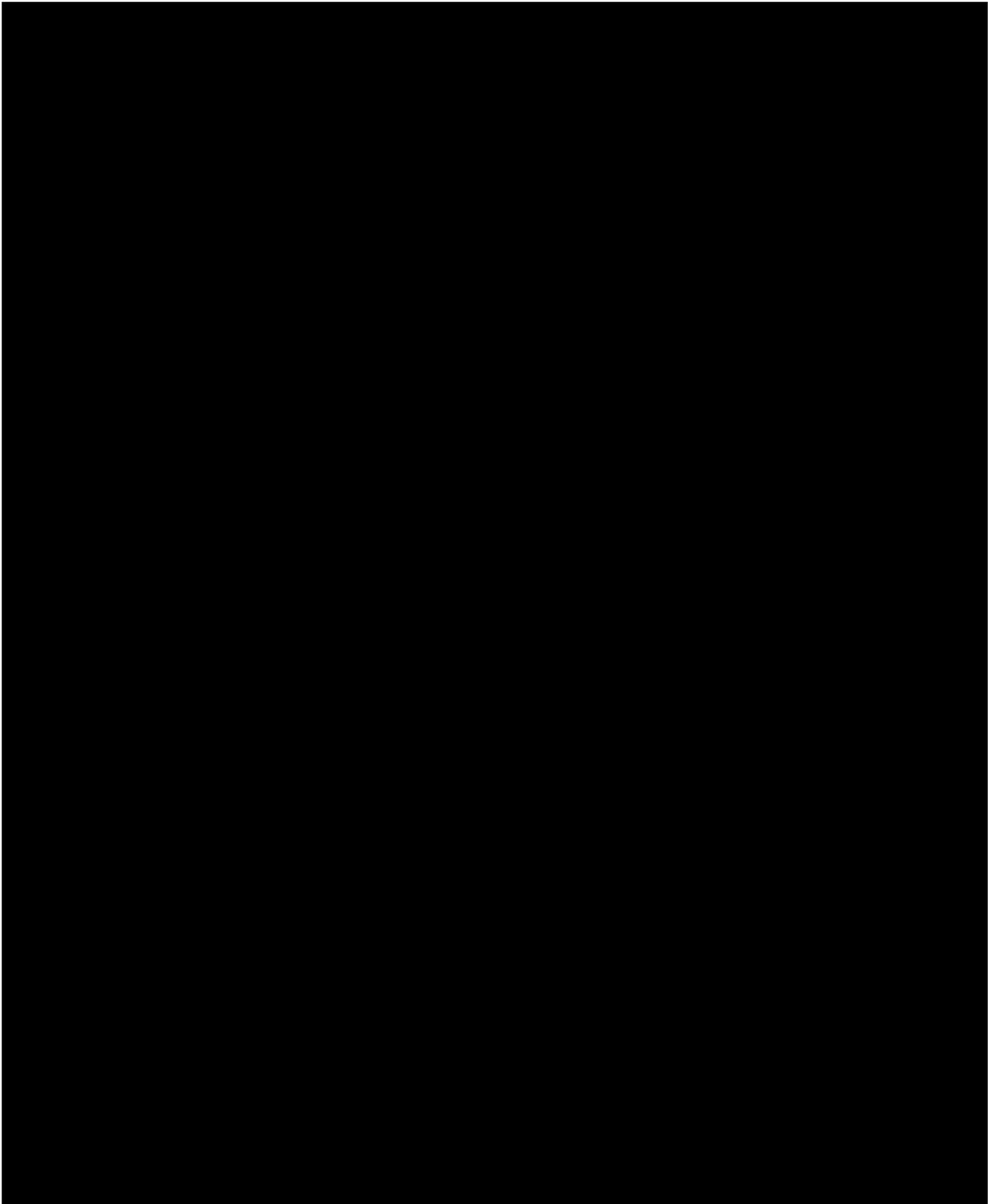
SCHEDULE 1 - SPECIFICATION

As described below in Annex A – Scope of Work

SCHEDULE 2 - PRICING







ANNEX A – SCOPE OF WORK

1

Brief Project Description

Taking account of crop tolerance is fundamental to improving pest risk assessment and achieving rational pesticide use which is cost effective, minimises environmental impact and the potential for the development of resistance

Stem boring insects reduce the yield of wheat by killing shoots and reducing final ear number. Potential yield loss depends on the plant population and number of shoots per plant, the size of pest population and whether it destroys single or multiple shoots/plants. Wheat bulb fly (WBF) is one of the most serious pests of wheat in Great Britain. There is considerable annual variation in the intensity of the attacks but occasionally these are severe. Control of this pest is reliant on a dwindling number of insecticides so it will become increasingly important to develop an integrated control strategy which is less reliant on chemicals. A revised damage threshold which takes account of the tolerance of wheat to shoot loss will be an important component of this and is the main focus of this project. Whilst WBF is the most serious dipterous stem boring pest, others such as frit fly, gout fly and yellow cereal fly also cause 'deadhearts'. This project will use WBF as the test insect to develop crop specific treatment thresholds which would also be applicable to other stemborers with minimal modification.

In this study, the number of tillers for potential yield will be compared with the number at WBF egg hatch; the number of tillers killed by each WBF larva will also be studied. Whilst there are data on the minimum number of tillers to achieve potential yield and the yield loss that occurs if shoot numbers fall below this level the methodology for assessing shoot number is laborious and rarely used by the majority of farmers/agronomists. This project will therefore focus on developing methods for rapid assessment of tiller populations. Similarly, sampling soil for WBF eggs is very time consuming and involves collecting large quantities of soil. Consequently few farmers or agronomists use soil sampling to predict the risk of WBF attack. Rather they rely on regional forecasts from the HGCA autumn survey of WBF incidence. Sites sampled as part of this survey will be used to gather data on the proportion of eggs hatching and the number of larvae subsequently invading plants. Previous research has suggested that water trapping of female WBF may provide a reliable and early forecast of subsequent egg numbers. This method will also be evaluated as part of this study.

The project objectives are:

1. To develop a method for predicting the maximum number of shoots and the number of excess shoots in winter wheat.
2. To quantify the proportion of WBF eggs that become shoot-damaging larvae and the number of shoots a single larva can destroy.
3. To evaluate water trapping as an alternative to soil sampling for assessing WBF risk.
4. To develop a scheme to predict threshold WBF egg numbers based on crop tolerance and egg viability
5. Test threshold calculations.

Background

Taking account of crop tolerance is fundamental to improving pest risk assessment and achieving a rational approach to pesticide use which is cost effective and minimises the impact on the environment and the potential for the development of resistance (Ellis *et al.*, 2009). This approach was discussed in CRD project PS2814 'A desk study to review the potential for crop physiology based thresholds for invertebrate feeding groups (Ellis *et al.*, 2013a) and has been pivotal in HGCA project RD-2005-3242 'Re-evaluating thresholds for pollen beetle in oilseed rape' (Ellis & Berry, 2012) and CRD projects PS2805 'Assessing tolerance to slugs in winter wheat and oilseed rape by simulating pest damage' (Ellis *et al.*, 2012), PS2821 Economic and agronomic analysis of reducing the risk of slug induced crop losses by increasing crop seed rate' (Kendall *et al.*, 2014 – this report

is completed) and PS2820 Further investigation of the tolerance of winter wheat and oilseed rape to slugs (Ellis and Berry 2014). The pollen beetle project showed that oilseed rape generally produces more flowers than are required to achieve potential yield and therefore many crops could tolerate the loss of some flowers to pollen beetle without losing yield potential. Excess flower number was studied to develop more robust thresholds to limit unnecessary insecticide application. Work on the tolerance of oilseed rape and wheat to slugs indicated that both crops were able to compensate for the loss of some leaf area but that increasing seed rate to combat the loss of plants was uneconomic in most situations. Ultimately this proposed new project on wheat stem borers will develop further our understanding of crop tolerance to pests and how this can be used to achieve sustainable use of pesticides.

Stem boring insects reduce the yield of wheat by killing shoots and reducing final ear number. The potential yield loss therefore depends on the plant population and number of shoots per plant, the size of pest population and whether the pest destroys single or multiple shoots/plant. This proposal uses wheat bulb fly (WBF, *Delia coarctata*) as the test insect to develop crop specific treatment thresholds. which would also be applicable to other stem borers with minimal modification.

Wheat bulb fly ranks amongst the most serious pests of winter wheat in Great Britain and is particularly prevalent in the east of England and Scotland. There is considerable annual variation in the intensity of the attacks but occasionally these are severe. Monitoring of WBF egg populations in England and Wales from 1984-2013 showed that, on average, 22% of fields in areas at risk from the pest had egg numbers above the 2.5 million eggs/ha threshold. Young (1992) measured an average yield response of 17% where the threshold was exceeded which is equivalent to an economic value of £26.7 million assuming an average wheat yield of 8t/ha and price of £130 /t.

An estimate of potential annual risk from WBF can be gained from the HGCA Autumn survey of wheat bulb fly incidence which assesses the annual level of egg laying and is published in early October. This information is then used with the current WBF thresholds (2.5 million eggs/ha or 1.0 million eggs/ha for late sown/backward crops) to decide whether to apply a seed treatment to late sown crops or to spray earlier sown crops with egg hatch treatments. However, these thresholds do not take account of the crop's shoot number which is crucial for determining how effectively it can tolerate damage. Wheat crops require a minimum of 400 to 450 fertile shoots/m² to achieve potential yield (Spink *et al.*, 2000), but typically produce more than 1000 shoots/m² (and up to 2000 shoots/m²) by GS30 around March (HGCA Wheat Growth Guide). From March to May there is a decline in shoot numbers in most crops as the weakest shoots die off to a final number of 400 to 700 shoots/m². In most cases the majority of the shoots are produced during autumn and are therefore present at the time when WBF can damage the crop in January/February. Crops sown late (after mid-October) or with low plant populations tend to produce fewer excess shoots and therefore have a lower tolerance to shoot loss.

Control of WBF is currently primarily reliant on insecticides. The seed treatments Austral Plus (fludioxinil + tefluthrin) and Signal (cypermethrin) are available for crops sown after November and chlorpyrifos can be applied between December and February as an egg hatch spray which is designed to kill larvae before they enter the plant. However, as chlorpyrifos is an organophosphorus product it is likely to come under increasing scrutiny from regulators so its continued commercial acceptability is questionable. Therefore it will become increasingly important to develop alternative control strategies that are less reliant on insecticides. Under the Sustainable Use Directive (2009/128/EC) there is a requirement to increase the use of Integrated Pest Management (IPM) techniques and this is an option that should be explored for WBF

The impact of wheat bulb fly on the crop and the need for treatment is dependent upon a number of factors as listed below.

- 1) How many shoots each wheat bulb fly larva destroys.
- 2) The minimum number of shoots a crop requires to achieve yield potential.

- 3) Actual number of shoots in the crop
- 4) Value of the crop yield
- 5) Cost of the control measure
- 6) Efficacy of the control measure

Ellis *et al.* (2013a) proposed a draft science-based threshold scheme for wheat bulb fly and concluded that it should include, as a minimum, components 1 to 3, and would have additional value if it included components 4 to 6. The economic injury level (EIL, the lowest pest population density that will cause economic damage.) for wheat bulb fly (million eggs per hectare) can be calculated using the equation below in which SN is the number of shoots/m² measured in winter, SN_{MIN} is the minimum number of shoots/m² required to achieve potential yield, SN_{KILL} is the number of shoots killed by an individual larva and Egg viability is the proportion of eggs that produce larvae.

$$EIL = \frac{(SN - SN_{MIN}) / SN_{KILL}}{EggViability} \times 100$$

By assuming a minimum number of shoots/m² for potential yield (SN_{MIN}) of 400, a winter shoot number (SN) of 1100/m², a wheat bulb fly larvae kill rate (SN_{KILL}) of two shoots and an egg viability of 0.5 the above formula gives an EIL of 7 million wheat bulb fly eggs per hectare. This is significantly above the current value of 2.5 million eggs per hectare and suggests that the wheat crop has the potential to tolerate wheat bulb fly attack and still yield well.

A sensitivity analysis was done to test the impact on the EIL of changing each parameter used in the above equation from its likely minimum value to its maximum value (Figure 1). This shows that the known variation in winter shoot number of 600 to 1600 shoots/m² has a very large effect on the EIL and changes it from 2 to 12 million eggs per hectare.

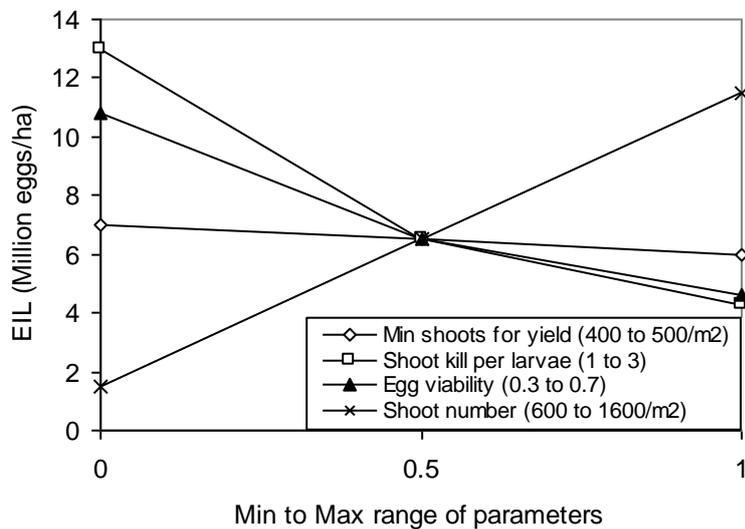


Figure 1. Sensitivity analysis for the EIL of wheat bulb fly for the minimum and maximum ranges of each of the parameters used to calculate the EIL

Altering the minimum shoot number required for potential yield has relatively little effect on the EIL. Very little is known about the range of values for the number of shoots killed by an individual larva and the egg viability, so the ranges here should be regarded as no more than educated guesses. If the range of shoots killed per larva is 1 to 3 and the range of egg viability of 0.3 to 0.7 are realistic then variation in these parameters is predicted to have a large impact on the EIL, although not as great as for the winter shoot number.

Sampling soil for eggs of wheat bulb fly is very time consuming and involves collecting large quantities of soil. Consequently few farmers or agronomists use soil sampling to predict the risk of wheat bulb fly attack. HGCA fund ADAS to undertake an annual survey to assess wheat bulb fly egg numbers at 30 sites in the east of England. This provides data on levels of wheat bulb fly egg laying and helps to predict the need for seed treatments for late sown crops. However, results are not usually available until the end of September and this can be too late to make decisions on the need for seed treatment. Cooper (1981) used water traps to catch wheat bulb fly adults. The numbers of females caught and subsequent egg numbers, estimated from soil cores, were linearly related. Water trapping ran between mid-July and the end of August so potentially data on the wheat bulb fly risk was available earlier than where soil sampling is used to assess egg numbers. This early indication of wheat bulb fly risk could be very valuable when determining whether to use seed treatments for late sown crops.

In view of the potential impact of winter shoot number, egg viability and the number of shoots killed by an individual wheat bulb fly larva on the EIL for wheat bulb fly, understanding these variables will form the main focus of the proposed project. Whilst there is a lot of data on the minimum number of tillers required to achieve optimum yield and the yield loss that occurs if shoot numbers fall below this critical level the methodology for assessing shoot number is laborious and unlikely to be something that would be undertaken by the majority of farmers/agronomists. This project will therefore focus on developing methods for rapid assessment of tiller populations. In addition, the potential for water trapping to replace soil sampling to provide an earlier prediction of wheat bulb fly risk will also be investigated

With respect to Government policy, this project will improve risk assessment by providing further data which farmers/agronomists can use to rationalise insecticide applications to winter wheat for control of wheat bulb fly and other dipterous stem borers. This will have the benefit of minimising applications of chlorpyrifos as an egg hatch treatment and so potentially increase the longevity of this product. Whilst WBF is the most serious dipterous stem boring pest, others such as frit fly (*Oscinella frit*), gout fly (*Chlorops pumilionus*) and yellow cereal fly (*Opomyza florum*) also cause 'deadhearts' and can reduce yield in some situations. This project will use WBF as the test insect to develop crop specific treatment thresholds which would also be applicable to these other stem borers with minimal modification. The project will also support implementation of the Sustainable Use Directive (Directive 2009/128/EC) which aims to establish a framework to achieve sustainable use of pesticides by reducing the risks of pesticides to human health and the environment and promoting the use of integrated pest management. Pivotal to the development of the sustainable use of pesticides is an understanding of the ability of crops to tolerate pest attack.

References

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Objectives

The overall aim of this project is to develop further our understanding of crop tolerance to pests and how this can be used to achieve sustainable use of pesticides and in particular to develop robust user friendly thresholds that are applicable to a range of dipterous stemborers. This aim will be achieved through the following objectives.

1. To develop a method for predicting the maximum number of shoots and the number of excess shoots in winter wheat.
2. To quantify the proportion of WBF eggs that become shoot-damaging larvae and the number of shoots a single larva can destroy.
3. To evaluate water trapping as an alternative to soil sampling for assessing WBF risk.
4. To develop a scheme to predict threshold WBF egg numbers based on crop tolerance and egg viability
5. Test threshold calculations. .

Approach and Methodology

The delivery of the project objectives will be addressed in six work packages a project management work package (WP 0) and experimental work packages (WP 1-5) which relate directly to the delivery of a specific objective. It has been assumed that if the work goes ahead it will begin in March 2015. Therefore year 1 will be March 2015 to 31 March 2016, year 2 1 April 2016 to 31 March 2017, year 3 1 April 2017 to 31 March 2018 and year 4 1 April 2018- to 31 August 2018

Work package 0 (WP0): Project management

The project management work package will ensure that the delivery team all work to a common understanding of the objectives and that the project adheres to a strict timeline. This will be achieved through a project inception meeting involving all the key workers and a meeting at the end of each project year to check that milestones are being delivered on time (CRD will be invited to all meetings). The project will be managed by [REDACTED] who has experience with managing CRD funded projects.

Work package 1 (WP2) Objective 1. To develop a method for predicting the maximum number of shoots and the number of excess shoots in winter wheat (Years 2 & 3)

Wheat crops produce new shoots from about 3-4 weeks after plant emergence in autumn until the start of stem extension in March or early April. The primary determinant of the rate of shoot production is temperature, which means there is rapid shoot production during autumn, followed by slow/negligible shoot production during winter and often an increase in shoot production in spring (particularly for late sown crops which produced few tillers in autumn). WBF foliar insecticides are applied between January and February, therefore knowledge of the potential maximum shoot number is required in December. For early sown crops the majority of shoot production will have taken place by December, whereas for late sown crops only a small proportion of shoots may have formed by December. Patterns of shoot development mean that predicting the maximum shoot number that is likely to occur in March requires a combination of assessing shoot numbers in December and predicting the potential shoot production between December and March.

Methods of measuring shoot number

Two field experiments will be set up in each of the years 2 and 3 with six seed rate treatments ranging from 40 to 600 seeds/m². These will provide crops with a wide range of shoot numbers and will be used to

develop methods of assessing shoot number. A range of approaches will be investigated including; physically counting the shoots, developing a relationship between visually assessed ground cover or green area index and shoot number, and by developing relationships between remote sensing measures (e.g. the spatial reflectance index NDVI) and shoot number.

Developing a relationship between GAI and shoot number could allow existing apps that estimate GAI from a crop photo to be used to estimate shoot number. Developing a relationship with NDVI could allow satellite images of NDVI to be used to estimate shoot number. The exact relationships between these parameters and shoot number may depend on the growth stage of the plant, therefore investigations will be made at three developmental stages during the autumn and early winter

Predicting shoot number

Models exist that predict shoot production in relation to thermal time (e.g. Porter et al., 1984). Shoot production is eventually limited by lack of resources (nutrients or light) and reaches a maximum in the spring. The model of Porter et al., (1984) will be tested against , extant data sets (e.g. from the HGCA Wheat Growth Guide) and new field assessments of shoot number. Variety datasets from previous projects (e.g. Berry et al., 2002) will be reviewed and new assessments made in two specifically sown variety trials to assess the extent to which shoot number production may vary between varieties. Where necessary the model will be adapted to account for possible variation between wheat varieties and any environmental conditions which are observed to have an important effect. Ultimately the model of predicting shoot number will be used with long term temperature data for specific regions to predict how many additional shoots may be expected between December and March. The excess shoot number will then be calculated by subtracting the minimum fertile shoot number required for potential yield from the maximum shoot number.

Berry P M, Spink J H, Foulkes M J, Wade A. (2002). Quantifying the contributions and losses of dry matter from non-surviving shoots in four cultivars of winter wheat. *Field Crops Research*, 80, 111-121.

Work package 2 (WP2) Objective 2. To quantify the proportion of wheat bulb fly eggs that become shoot damaging larvae and the number of shoots a single larva can destroy (years 1,2 & 3)

This work will be combined with the HGCA wheat bulb fly survey (four sites per year in each of both the north and east of England). Sites sampled to assess egg numbers will be re-visited at the end of egg hatch and further soil samples taken to assess the proportion of eggs that have hatched or have been predated. When plant invasion is underway plant samples will also be taken and dissected in the laboratory to determine how many of the hatched larvae successfully invade plants. Previous HGCA egg survey data will also be collated to calculate the percentage hatch of eggs over a number of years. This will provide an improved estimate of the average percentage hatch of eggs.

The number of shoots will be assessed in both WBF infested and uninfested areas of crop (uninfested areas will be created by treatment with chlorpyrifos at egg hatch at selected HGCA survey sites). Well tillered crops will be selected to ensure pest development is not inhibited by low shoot numbers. The number of shoots and larvae (of all stemborer species) will be assessed at the end of egg hatch (approximately the end of March) and again one month later to quantify how many shoots each larva may destroy. Final ear number will be assessed in July to investigate whether extra tillering occurs following infestation.

Work package 3 (WP3) Objective 3 To evaluate water trapping as an alternative to soil sampling to predict WBF risk (years 2, 3 & 4)

This work will be combined with the HGCA WBF survey and will use the methodology developed by Cooper (1981). Four water traps will be set in eight of the sites selected for the HGCA WBF survey. These will remain in position from early July until mid-August and be emptied at weekly intervals. The number of WBF females caught will be counted and relationships sought between this and the subsequent egg counts at each site

Work package 4 (WP4) Objective 4. To develop a scheme to predict threshold WBF egg numbers based on crop tolerance and egg viability (years 2, 3 & 4)

The draft threshold scheme developed by Ellis et al (2013) will be further developed using data generated from objectives 1,2 and 3 to produce a threshold scheme that takes into account the inherent tolerance of the crop to tolerate WBF attack. The sensitivity analysis described in the background to this project will then

be re-run to determine how the various components of the threshold scheme impact on the EIL for WBF and other dipterous stemborers.

Work package 5 (WP5). Objective 5. Test threshold calculations (Years 3 & 4)

Two seed rate/sow date experiments will be set up in each of years 2 and 3 at sites with above threshold wheat bulb fly egg numbers. Two sow date treatments will be established (normal: late September to early October and late: mid-October to mid-November Six seed rate treatments will be used (40-600 seeds/m²) to create a wide range of shoot numbers. Plots will be split for the presence and absence of insecticide treatment at egg hatch. Measurements will include egg numbers, larval numbers, shoot numbers in December and July and yield to test the prediction scheme developed at objective 4.

Statistical analysis:

All statistical analysis will be undertaken by the ADAS statistician. All experiments will use a simple randomised block design and the data analysed using ANOVA or, if the assumptions of this analysis are not met, an alternative non-parametric method.

Knowledge exchange

Knowledge transfer is an important component of this project. Rationalising pesticide use is particularly topical in view of the requirement to implement the Sustainable Use Directive and regulatory pressures on the use of organophosphorus insecticides. Focusing on knowledge transfer and getting the information to farmers through a variety of media will increase awareness of the need to adopt integrated pest management strategies as a means of reducing reliance on pesticides.

Knowledge transfer will continue throughout the project as and when results become available. The purpose and benefits of each approach are outlined below.

Approach	Purpose	Benefits
Submit peer reviewed paper and publish CRD technical note/Topic Sheet)	Consolidate existing information; raise awareness of existing data and highlight gaps	Publications will raise awareness of the project and highlight gaps which future experimentation.
Final report	Written in a scientifically rigorous manner with an emphasis on providing sound practical guidance for farmers and agronomists	Reports will be clear and concise, ensuring the messages from the work are actionable by farmers
Farming press articles	Reach farmers and agronomist in an informal and ongoing manner	Provide updates of results as they occur and directing interested parties to further information
Event attendance (ADAS Open Days)	Increase communication between farmer and researchers	Raises awareness and encourages uptake of guidance
ADAS Farming Association groups	Present and discuss results with small groups of farmers and agronomists	Allows for open exchange of information, ensuring that the project objectives are in line with the needs on farm
ADAS notes (e.g. Crop Action, Technical updates and A+ website)	Short articles that provide basic project information and results and direct readers where to find more information	Regular ADAS publications that are received by over 1000 subscribers and provide a simple and cost-effective way of updating stakeholders. Used by farmers, agronomists, consultants and scientists.

Approach	Purpose	Benefits
Oral presentation of results (conferences)	Provide summary of results and action points	Selecting conferences that are well attended by various stakeholders increases awareness
Electronic updates (e.g. Twitter feed and Apps)	Disseminate information via convenient and modern approaches	Electronic updates will appeal to busy farmers and agronomists and employ modern information transfer methods. The success of these methods can be evaluated at the end of the project for use in future knowledge transfer efforts.

Additional KT activities which are not included in the budget for the project are listed below:

Quality assurance

The ADAS Integrated Management System (AIMS) is a business centred management system that effectively integrates business planning, business management and business processes. It also ensures that all the requirements of a number of proprietary quality and environmental management standards and schemes are addressed in the one company wide management system. At the core of AIMS are the company's policy statements, quality and environmental management system manual and an extensive range of internal business process and technical Standard Operating Procedures.

All components of the system are periodically reviewed and revised so that company business needs continue to be met and to respond to opportunities and ideas from staff for further improvement. The system is centrally controlled and all documents are available to staff via the company's Intranet. Copies of policy statements and the quality and environmental management system manual are publicly available via the company's website: www.adas.co.uk. Hard copies of these documents can be provided where necessary.

Compliance with AIMS ensures that client needs are identified, understood and that services and products are subsequently delivered in a professional and independent manner designed to fully meet and satisfy client expectations.

Delivery to clients is:

- Subject to risk assessment and subsequent risk management.
- Specified and agreed in formal contract agreements.
- Controlled via the use of effective project planning to meet milestones, specifications and budget.
- Project managed by appropriately trained and qualified staff, using up-to-date equipment and facilities where appropriate.
- Subject to rigorous quality control checking before release to ensure technical soundness and compliance with contractual requirements and ADAS standards.

Effective implementation of AIMS is assessed by scheduled internal audits carried out by independent Quality Assurance staff. Critical aspects of work and that of sub-contractors and collaborators are also audited where contractually required.

COMPLIANCE WITH QUALITY & ENVIRONMENTAL MANAGEMENT STANDARDS & OTHER SCHEMES

Services and products are delivered to clients by three business units within the ADAS

Group:

- Development Businesses Unit
- Envar
- Soils, Agriculture & Water

ISO 9001

The Soils, Agriculture & Water business unit and the Animal Health and Chemicals in the Environment groups within the Development Businesses Unit are certificated to this standard by Lloyd's Register Quality Assurance (LRQA) for:

'Provision of independent research and consultancy focusing primarily on arable crop protection, crop physiology, sustainable farming systems, agriculture, horticulture, soils and nutrients, water, sustainable livestock, animal health and chemicals in the environment (excluding advisory work funded directly by farmers and growers).'

Certificate No. 0936648.

OFFICIAL RECOGNITION OF EFFICACY TESTING FACILITIES OR ORGANISATIONS (ORETO)

The Soils, Agriculture & Water business unit is certified by the Chemicals Regulation Directorate to conduct pesticide efficacy studies covering agricultural and horticultural growing crops, stored crops and biologicals and semiochemicals based at seven ADAS research locations in accordance with EU plant protection products legislation. Certificate number is ORETO 255.

Risks, ethical considerations and health and safety

Risk	Likelihood	Impact	Control measures	Owner
Delays to commissioning	Low	High	Any delays to commissioning have potential to impact on completion of the work to time – prompt issue of contract by CRD will ensure that work can commence to schedule.	CRD
Delays due to lack of internal co-ordination and communication	Low	Low	In order to meet all milestones it will be essential for this project to be managed effectively and for co-ordination and communication to be a priority. ADAS will have an experienced project manager () who will be responsible for ensuring that the project delivery team is adhering to the milestones and the deliverables are achieved on time. The delivery team is employed by ADAS making communication and management easier and more efficient.	ADAS
Delays due to staff illness or lack of availability	Low	Low	The project delivery team is made up of experts within each specialist field. Staff availability has been confirmed prior to the submission of this bid. In the event of staff illness, the remaining experts are able to fill any gaps in delivery.	ADAS
Adverse weather conditions	Low	High	It is possible that adverse weather conditions could influence the invasion of wheat plants by WBF. However, work with this pest will be undertaken at a number of sites across eastern England so it is very unlikely that they will all be adversely affected by extreme weather.	ADAS
Crop failure	Low	High	BASIS and FACTS qualified agronomists will be used to ensure that optimal plant protection and fertiliser inputs are used to ensure good crop growth. More seeds than are required will be sown per pot to ensure that each has a healthy plant.	ADAS

Loss of experimental data	Low	High	All measurements will be made using agreed Standard Operating Procedures and the experiments will be set up according to a protocol which will be agreed by all project partners before the start of the study. All data will be archived according to ADAS data archiving procedures.	ADAS
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Project Management

Project Director

The project will be directed and managed by Senior entomologist ██████████ of ADAS. ██████████ is an experienced project manager and will act as the day-to-day contact point with CRD.

Customer liaison

ADAS will update CRD on progress with the review monthly and on the planned date for the completion of each milestone. Any thing that could potentially impact on the delivery of the project will be discussed with CRD.

Reporting deadlines

ADAS is committed to delivering reports to deadline. An early draft of the report will be delivered to CRD for comments. Any comments will then be incorporated in the final report.

ADAS Project Management Systems

ADAS is committed to providing a quality service to all clients and operate quality systems, which conform to ISO 9001. An audit trail is maintained for all work and deliverables are subject to technical audit prior to release.

We are committed to delivering services to customers on time, to budget and in accordance with the specification agreed with the customer. Substantive contracts have a detailed work plan setting out project specific milestones to ensure proper planning and control of delivery of the contract. These plans include periodic output and financial review of progress of contract delivery against milestones and budgetary targets. These are the key to monitoring project management performance. This strategy ensures that agreed customer requirements and ADAS quality standards are met.

ANNEX B: PRICING PROPOSAL

1. The Authority, will pay to the Contractor no more than the fixed sum of:

£148,244 exclusive of VAT.

2. Subject to any variation of the Project, the amount in paragraph 1, above, shall remain firm throughout the duration of the Contract.

3. In the event that the Contract is varied, the amount in paragraph 1 shall be adjusted by such reasonable sum as may be agreed, in writing, between the Authority and the Contractor.

4. The Payment arrangements shall be as follows:

