



Department
for Environment
Food & Rural Affairs

www.gov.uk/defra

Contract for the Provision of Research and Development

February 2019

VMD Research Requirements Lot 1

Anthelmintic Resistance

Contract Reference: Project_23900

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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) QUEENS UNIVERSITY BELFAST - (registered in England and Wales under number (registered charity) whose registered office is University Road, Belfast, BT7 1NN (the “**Contractor**”)

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

WHEREAS

- a) Following a competitive tender process, the Authority wishes to appoint the Contractor to provide the certain services and the Contractor agrees to provide those services in accordance with these terms and conditions.

NOW IT IS HEREBY AGREED as follows:

1. TERMS OF CONTRACT

- 1.1 The “**Contract**” comprises the following:

Section 1:	Form of Contract
Section 2:	Terms and Conditions
Schedule 1:	Specification
Schedule 2:	Prices
Schedule 3:	Change Control
Schedule 4:	Commercially Sensitive Information
Schedule 5:	Processing, Personal Data and Data Subjects

- 1.2 Execution of the Contract is carried out in accordance with EU Directive 99/93 (Community framework for electronic signatures) and the Electronic Communications Act 2000. The Contract is formed on the date on which both Parties communicate acceptance of its terms on the Authority’s electronic contract management system (“**Bravo**”).
- 1.3 The Contract starts on 13th February 2019 (the “**Commencement Date**”) and ends on 31st March 2022 (the “**End Date**”) unless it is terminated early or extended in accordance with the Contract.
- 1.4 An optional extension period of 12 months. This will depend on the Authority determining whether additional research to that set out in the Specification will add sufficient value. The extension will also be subject to separate budget approval

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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 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” has the meaning given in paragraph 1.2 of the Form of Contract.

“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 comprising the information of a commercially sensitive nature relating to:

- (a) the Price;
- (b) details of the Contractor’s Intellectual Property Rights; and
- (c) the Contractor’s business and investment plans

which the Contractor has indicated to the Authority that, if disclosed by the Authority, would cause the Contractor significant commercial disadvantage or material financial loss.

“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. 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” has the meaning given in paragraph 1.1 of the Form of Contract.

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

- (a) the End Date; or
- (b) following an Extension the end date of the Extension

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 Regulations.

“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 7.

“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.

“Controller” has the meaning given in the GDPR.

“Copyright” means as it is defined in s.1 of Part 1 Chapter 1 of the Copyright, Designs and Patents Act 1988.

“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.

“Data Loss Event” means any event that results, or may result, in unauthorised access to Personal Data held by the Contractor under this Contract, and/or actual or potential loss and/or destruction of Personal Data in breach of this Contract, including any Personal Data Breach.

“Data Protection Impact Assessment” means an assessment by the Controller of the impact of the envisaged processing on the protection of Personal Data.

“Data Protection Legislation” means (i) the GDPR, the LED and any applicable national implementing Laws as amended from time to time (ii) the DPA 2018 to the extent that it relates to processing of personal data and privacy; and (iii) all applicable Law about the processing of personal data and privacy.

“Data Protection Officer” has the meaning given in the GDPR.

“Data Subject” has the meaning given in the GDPR.

“Data Subject Request” means a request made by, or on behalf of, a Data Subject in accordance with rights granted pursuant to the Data Protection Legislation to access their Personal Data.

“Database Rights” means as rights in databases are defined in s.3A of Part 1 Chapter 1 of the Copyright, Designs and Patents Act 1988.

“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 NICs 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 2018” means the Data Protection Act 2018.

“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 set out in paragraph 1.3 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.

“Extension” has the meaning given in paragraph 1.4 of the Form of Contract.

“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.

“GDPR” means the General Data Protection Regulation (Regulation (EU) 2016/679).

“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 NICs;

“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.

“**Joint Controllers**” means where two or more Controllers jointly determine the purposes and means of processing.

“**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 any 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, regulatory policy, mandatory guidance or code of practice, judgment of a relevant court of law, or directives or requirements of any Regulatory Body with which the relevant Party is bound to comply.

“**LED**” means Law Enforcement Directive (Directive (EU) 2016/680).

“**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.

“**Personal Data**” has the meaning given in the GDPR.

“**Personal Data Breach**” has the meaning given in the GDPR.

“**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.

“**Processor**” has the meaning given in the GDPR.

“**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.

“**Protective Measures**” means appropriate technical and organisational measures which may include: pseudonymising and encrypting Personal Data, ensuring confidentiality, integrity, availability and resilience of systems and services, ensuring that availability of and access to Personal Data can be restored in a timely manner after an incident, and regularly assessing and evaluating the effectiveness of the such measures adopted by it including those outlined in Schedule 8.

“**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.

“Regulations” means the Public Contract Regulations 2015 (SI 2015/102).

“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 any guidance, specifications, reports, studies, instructions, toolkits, plans, data, drawings, databases, patents, patterns, models, designs or other material which is:

- a) prepared by or for the Contractor for use 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 in relation to the provision of the Services.

“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-Contract**” means a contract between 2 or more suppliers, at any stage of remoteness from the Authority in a sub-contracting chain, made wholly or substantially for the purpose of performing (or contributing to the performance of) the whole or any part of the Contract and “**Sub-Contractor**” shall be construed accordingly.

“**Sub-processor**” means any third party appointed to process Personal Data on behalf of the Contractor related to this Contract.

“**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.

“**TFEU**” means the Treaty on the Functioning of the European Union.

“**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 7.

“**Treaties**” means the Treaty on European Union and the TFEU.

“**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 a variation to the Specification, the Price or any of the terms or conditions of 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:

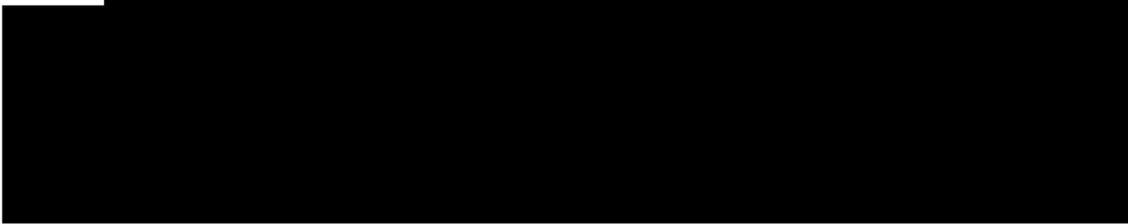
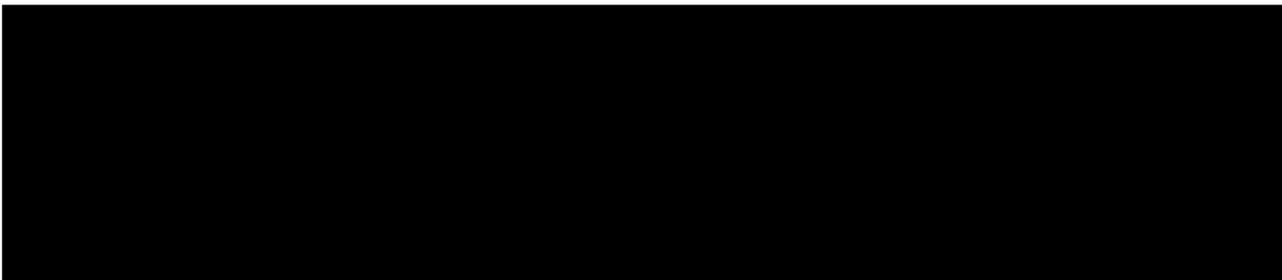
- (a) in a letter is deemed to have been received 2 Working Days after the day it was sent; and
- (b) in an email is deemed to have been received 4 hours after the time it was sent provided it was sent on a Working Day

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) 



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 A6 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 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 materially 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 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 Authority's timber procurement policy;
 - (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 or begin any work on the Premises without obtaining Approval.
- B8.3 All Equipment brought onto the Premises is at the Contractor's own risk and the Authority has 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 remains the property of the Contractor.
- B8.5 If the cost of any Equipment is reimbursed to the Contractor such Equipment is 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 of the Contract Period, 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

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

(b) 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 Staff

whose 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, the Crown 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
VMD

Woodham Lane
New Haw, Addlestone
Surrey
KT15 3LS

- SC2.19 If a payment of an undisputed amount is not made by the Authority by the due date, then the Authority shall pay the Contractor interest at the interest rate specified in the Late Payment of Commercial Debts (Interest) Act 1998.
- C2.20 The Contractor shall ensure that a provision is included in all Sub-Contracts which requires payment to be made of all sums due to Sub-Contractors 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 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

- 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 The provisions of clause B18.5 and E8.3 confer benefits on persons named in such provisions (together "**Third Party Provisions**") other than the Parties (each person a "**Third Party Beneficiary**") and are intended to be enforceable by Third Party Beneficiaries by virtue of the Contracts (Rights of Third Parties) Act 1999 ("**CRTPA**").
- D3.2 Subject to clause D3.1, a person who is not a Party has no right under the CRTPA to enforce any provisions of the Contract but this does not affect any right or remedy of any person which exists or is available otherwise than pursuant to the CRTPA and does not apply to the Crown.
- D3.3 No Third Party Beneficiary may enforce or take steps to enforce any Third Party Provision without Approval.
- D3.4 Any amendments to the Contract may be made by the Parties without the consent of any Third Party Beneficiary.

D4 Health and Safety

- D4.1 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.
- D4.2 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.

D5 Environmental Requirements

- D5.1 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 to:
- (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).

D5.2 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.

D5.3 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.

D5.4 If required by the Authority the Contractor shall provide the Authority with information about its compliance with its obligations under clause D5.3.

D5.5 The Contractor shall ensure that its Staff are aware of the Authority's Environmental Policies.

D5.6 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.

D5.7 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.

E PROTECTION OF INFORMATION

E1 Authority Data

- E1.1 The Contractor shall not delete or remove any proprietary notices contained within or relating to the Authority Data.
- E1.2 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.
- E1.3 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.
- E1.4 The Contractor shall preserve the integrity of Authority Data and prevent the corruption or loss of Authority Data.
- E1.5 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.
- E1.6 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.
- E1.7 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.
- E1.8 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

- E2.1 The Parties acknowledge that for the purposes of the Data Protection Legislation, the Authority is the Controller and the Contractor is the Processor unless otherwise specified in Schedule 5. The only processing that the Contractor is authorised to do is listed in Schedule 5 by the Authority and may not be determined by the Contractor.
- E2.2 The Contractor shall notify the Authority immediately if it considers that any of the Authority's instructions infringe the Data Protection Legislation.
- E2.3 The Contractor shall provide all reasonable assistance to the Authority in the preparation of any Data Protection Impact Assessment prior to commencing any processing. Such assistance may, at the discretion of the Authority, include:
- (a) a systematic description of the envisaged processing operations and the purpose of the processing;
 - (b) an assessment of the necessity and proportionality of the processing operations in relation to the Services;
 - (c) an assessment of the risks to the rights and freedoms of Data Subjects; and
 - (d) the measures envisaged to address the risks, including safeguards, security measures and mechanisms to ensure the protection of Personal Data.

- E2.4 The Contractor shall, in relation to any Personal Data processed in connection with its obligations under this Contract:
- (a) process that Personal Data only in accordance with Schedule 5 unless the Contractor is required to do otherwise by Law. If it is so required the Contractor shall promptly notify the Authority before processing the Personal Data unless prohibited by Law;
 - (b) ensure that it has in place Protective Measures which are appropriate to protect against a Data Loss Event, which the Authority may reasonably reject (but failure to reject shall not amount to approval by the Authority of the adequacy of the Protective Measures), having taken account of the:
 - (i) nature of the data to be protected;
 - (ii) harm that might result from a Data Loss Event;
 - (iii) state of technological development; and
 - (iv) cost of implementing any measures;
 - (c) ensure that :
 - (i) the Staff do not process Personal Data except in accordance with this Contract (and in particular Schedule 5);
 - (ii) it takes all reasonable steps to ensure the reliability and integrity of any Staff who have access to the Personal Data and ensure that they:
 - (A) are aware of and comply with the Contractor's duties under this clause;
 - (B) are subject to appropriate confidentiality undertakings with the Contractor or any Sub-processor;
 - (C) are informed of the confidential nature of the Personal Data and do not publish, disclose or divulge any of the Personal Data to any third party unless directed in writing to do so by the Authority or as otherwise permitted by this Contract; and
 - (D) have undergone adequate training in the use, care, protection and handling of Personal Data; and
 - (d) not transfer Personal Data outside of the European Union unless the prior written consent of the Authority has been obtained and the following conditions are fulfilled:
 - (i) the Authority or the Contractor has provided appropriate safeguards in relation to the transfer (whether in accordance with the GDPR Article 46 or LED Article 37) as determined by the Authority;
 - (ii) the Data Subject has enforceable rights and effective legal remedies;
 - (iii) the Contractor complies with its obligations under the Data Protection Legislation by providing an adequate level of protection to any Personal Data that is transferred (or, if it is not so bound, uses its best endeavours to assist the Authority in meeting its obligations); and
 - (iv) the Contractor complies with any reasonable instructions notified to it in advance by the Authority with respect to the processing of the Personal Data;
 - (e) at the written direction of the Authority, delete or return Personal Data (and any copies of it) to the Authority on termination of the Contract unless the Contractor is required by Law to retain the Personal Data.

- E2.5 Subject to clause E2.6 the Contractor shall notify the Authority immediately if, in relation to any Personal Data processed in connection with its obligations under this Contract, it:
- (a) receives a Data Subject Request (or purported Data Subject Request);
 - (b) receives a request to rectify, block or erase any Personal Data;
 - (c) receives any other request, complaint or communication relating to either Party's obligations under the Data Protection Legislation;
 - (d) receives any communication from the Information Commissioner or any other regulatory authority;
 - (e) receives a request from any third party for disclosure of Personal Data where compliance with such request is required or purported to be required by Law; or
 - (f) becomes aware of a Data Loss Event.
- E2.6 The Contractor's obligation to notify under clause E2.5 shall include the provision of further information to the Authority in phases, as details become available.
- E2.7 Taking into account the nature of the processing, the Contractor shall provide the Authority with full assistance in relation to either Party's obligations under Data Protection Legislation in relation to any Personal Data processed in connection with its obligations under this Contract and any complaint, communication or request made under Clause E2.5 (and insofar as possible within the timescales reasonably required by the Authority) including by promptly providing:
- (a) the Authority with full details and copies of the complaint, communication or request;
 - (b) such assistance as is reasonably requested by the Authority to enable the Authority to comply with a Data Subject Request within the relevant timescales set out in the Data Protection Legislation;
 - (c) the Authority, at its request, with any Personal Data it holds in relation to a Data Subject;
 - (d) assistance as requested by the Authority following any Data Loss Event;
 - (e) assistance as requested by the Authority with respect to any request from the Information Commissioner's Office, or any consultation by the Authority with the Information Commissioner's Office.
- E2.8 The Contractor shall maintain complete and accurate records and information to demonstrate its compliance with this clause. This requirement does not apply where the Contractor employs fewer than 250 staff, unless:
- (a) the Authority determines that the processing is not occasional;
 - (b) the Authority determines the processing includes special categories of data as referred to in Article 9(1) of the GDPR or Personal Data relating to criminal convictions and offences referred to in Article 10 of the GDPR; or
 - (c) the Authority determines that the processing is likely to result in a risk to the rights and freedoms of Data Subjects.
- E2.9 The Contractor shall allow for audits of its Personal Data processing activity by the Authority or the Authority's designated auditor.

- E2.10 Each Party shall designate its own Data Protection Officer if required by the Data Protection Legislation.
- E2.11 Before allowing any Sub-processor to process any Personal Data related to this Contract, the Contractor must:
- (a) notify the Authority in writing of the intended Sub-processor and processing;
 - (b) obtain the written consent of the Authority;
 - (c) enter into a written agreement with the Sub-processor which give effect to the terms set out in this clause E2 such that they apply to the Sub-processor; and
 - (d) provide the Authority with such information regarding the Sub-processor as the Authority may reasonably require.
- E2.12 The Contractor shall remain fully liable for all acts or omissions of any of its Sub-processors.
- E2.13 The Authority may, at any time on not less than 30 Working Days' notice, revise this clause by replacing it with any applicable controller to processor standard clauses or similar terms forming part of an applicable certification scheme (which shall apply when incorporated by attachment to this Contract).
- E2.14 The Parties agree to take account of any non-mandatory guidance issued by the Information Commissioner's Office. The Authority may on not less than 30 Working Days' notice to the Contractor amend this Contract to ensure that it complies with any guidance issued by the Information Commissioner's Officer.
- E2.15 This clause E2 shall apply during the Contract Period and indefinitely after its expiry.
- E2.16 [Where the Parties include two or more Joint Controllers as identified in Schedule 5, in accordance with GDPR Article 26 those Parties shall enter into a Joint Controller Agreement based on the terms outlined in Schedule [X] in replacement of Clauses E2.1 to E2.14 for the Personal Data in respect of which they are Joint Controllers.]

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 and, if applicable, incorporating the requirements of clause E2.11. 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 Regulations, 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:

- (a) the Results; or
- (b) any guidance, specifications, reports, studies, instructions, toolkits, plans, data, drawings, databases, patents, patterns, models, designs or other material which is furnished to or made available to the Contractor by or on behalf of the Authority (together with the Results, the "**IP Materials**")

shall vest in the Authority (save for Copyright and Database Rights which shall vest in Her Majesty the Queen) 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:

- (a) to the Authority, with full title guarantee, all Intellectual Property Rights (save for Copyright and Database Rights) which may subsist in the IP Materials. 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;

- (b) to Her Majesty the Queen, with full title guarantee, all Copyright and Database Rights which may subsist in the IP Materials prepared in accordance with clauses E8.1 (a) and (b),

and shall execute all documents and do all acts as are necessary to execute these assignments.

E8.3 The Contractor shall:

- (a) 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 Crown, the Replacement Contractor or to any other third party supplying goods and/or services to the Authority (“**Indemnified Persons**”);
- (b) not infringe any Intellectual Property Rights of any third party in supplying the Services; and
- (c) during and after the Contract Period, indemnify and keep indemnified the Authority and the Indemnified Persons from and against all actions, suits, claims, demands, losses, charges, damages, costs and expenses and other liabilities which the Authority or the Indemnified Persons may suffer or incur as a result of or in connection with any breach of this clause E8.3, except to the extent that any such claim results directly from:
 - i) items or materials based upon designs supplied by the Authority; or
 - ii) the use of data supplied by the Authority which is not required to be verified by the Contractor under any provision of the Contract.

E8.4 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.

E8.5 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, the Contractor or an Indemnified Person) 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).

E8.6 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 E8.6 in relation to any costs and expenses to the extent that such arise directly from the matters referred to in clauses E8.3 (c) i) and ii).

E8.7 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.

E8.8 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 E8.3 and G2.1(g) 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 E8.8(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.

E8.9 The Contractor grants to the Authority and, if requested by the Authority, any Replacement Contractor, 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 (or the Replacement Contractor) reasonably requires in order for the Authority 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 shall 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 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
 - (c) 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 NICs, in respect of that consideration; and
 - (b) indemnify the Authority against any income tax, NICs 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 is 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 award of a Sub-Contract the Contractor shall ensure that:

- (a) the Sub-Contract contains a right for the Contractor to terminate the Sub-Contract if the relevant Sub-Contractor does not comply in the performance of its contract with legal obligations in environmental, social or labour law;
- (b) the Sub-Contract includes a provision having the same effect as set out in clause F5.4 (a) in any Sub-Contract which it awards; and
- (c) copies of each Sub-Contract shall, at the request of the Authority, be sent by the Contractor to the Authority immediately.

F5.5 If the Authority believes there are:

- (a) compulsory grounds for excluding a Sub-Contractor pursuant to regulation 57 of the Regulations, the Contractor shall replace or not appoint the Sub-Contractor; or
- (b) non-compulsory grounds for excluding a Sub-Contractor pursuant to regulation 57 of the Regulations, the Authority may require the Contractor to replace or not appoint the Sub-Contractor and the Contractor shall comply with such requirement.

- F5.6 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 F5.6 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 F5.7 and F5.8.
- F5.7 If the Contractor assigns the right to receive the Price under clause F5.6, the Contractor or the Assignee shall notify the Authority in writing of the assignment and the date upon which the assignment becomes effective.
- F5.8 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.
- F5.9 The provisions of clause C2 shall continue to apply in all other respects after the assignment and shall not be amended without Approval.
- F5.10 Subject to clause F5.11, 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 or authorised 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.
- F5.11 Any change in the legal status of the Authority such that it ceases to be a Contracting Authority shall not, subject to clause F5.12, affect the validity of the Contract and the Contract shall bind and inure to the benefit of any successor body to the Authority.
- F5.12 If the rights and obligations under the Contract are assigned, novated or otherwise disposed of pursuant to clause F5.10 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.
- F5.13 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.

F5.14 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 If, after the Commencement Date, the Authority's requirements change, the Authority may request a Variation subject to the terms of this clause 7.

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 No Variation will take effect unless and until recorded in a validly executed CCN. Execution of a CCN shall be made via electronic signature as described in clause 1.2 of Section 1 of the Contract.

F7.5 A CCN takes effect on the date both Parties communicate acceptance of the CCN via Bravo and, on the date it communicates its acceptance of the CCN in this way, the Contractor is deemed to warrant and represent that the CCN has been executed by a duly authorised representative of the Contractor in addition to the warranties and representations set out in clause G2.

F7.6 The provisions of clauses F7.4 and F7.5 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 clauses D1, E1, E2 or E4 or any breach of Schedule 8; 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 £600,000.00 (Six Hundred Thousand Pounds).

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 days' notice to the Contractor.

H4 Other Termination Grounds

H4.1 The Authority may terminate the Contract on written notice to the Contractor if:

- (a) the Contract has been subject to a substantial modification which requires a new procurement procedure pursuant to regulation 72(9) of the Regulations;
- (b) the Contractor was, at the time the Contract was awarded, in one of the situations specified in regulation 57(1) of the Regulations, including as a result of the application of regulation 57 (2), and should therefore have been excluded from the procurement procedure which resulted in its award of the Contract;

- (c) the Contract should not have been awarded to the Contractor in view of a serious infringement of the obligations under the Treaties and the Regulations that has been declared by the Court of Justice of the European Union in a procedure under Article 258 of the TFEU; or
- (d) the Contractor has not, in performing the Services, complied with its legal obligations in respect of environmental, social or labour law.

H5 Consequences of Expiry or Termination

- H5.1 If the Authority terminates the Contract under clauses H2 or H4 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.
- H5.2 If Contract is terminated under clauses H2 or H4 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.
- H5.3 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.
- H5.4 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), 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), H5 (Consequences of Expiry or Termination), H7 (Recovery upon Termination) and I1 (Governing Law and Jurisdiction).

H6 Disruption

- H6.1 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.
- H6.2 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.
- H6.3 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.
- H6.4 If the Contractor's proposals referred to in clause H6.3 are considered insufficient or unacceptable by the Authority acting reasonably, then the Contract may be terminated with immediate effect by the Authority by notice.
- H6.5 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.

H7 Recovery upon Termination

- H7.1 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.
- H7.2 If the Contractor does not comply with clauses H7.1(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.

H8 Retendering and Handover

- H8.1 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.
- H8.2 The Authority shall take all necessary precautions to ensure that the information referred to in clause H8.1 is given only to potential providers who have qualified to tender for the future provision of the Services.
- H8.3 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.
- H8.4 The Contractor indemnifies 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 H8.1.
- H8.5 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.
- H8.6 If access is required to the Contractor's Premises for the purposes of clause H8.5, 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.
- H8.7 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.

H8.8 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.

H9 Exit Management

H9.1 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 procedure set out in clause H10.

H10 Exit Procedures

H10.1 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.

H10.2 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.

H10.3 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.

H10.4 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.

H11 Knowledge Retention

H11.1 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, including any matters arising out of or in connection with it, 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 either Party may refer it to mediation pursuant to the procedure set out in clause I2.5.
- 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 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 12.7; and
- (c) the Contractor may request by notice to the Authority that any dispute be referred and resolved by arbitration in accordance with clause 12.7, to which the Authority may consent as it sees fit.

12.7 If any arbitration proceedings are commenced pursuant to clause 12.6,

- (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 12.7(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

Lot 1 Antiparasitic Resistance: Anthelmintic Resistance

The sheep and cattle farming industries in the UK rely on the use of anthelmintics to ensure the health and welfare of livestock and in turn to maintain good productivity. Indeed parasitic diseases are a major cause of economic loss on UK sheep farms. However, regular use of anthelmintics has selected for anthelmintic resistance in gastrointestinal nematodes and liver fluke, on UK farms and globally. In the UK reductions in anthelmintic efficacy resulting from anthelmintic resistance have now been reported in the three older classes of anthelmintics authorised for use against gastrointestinal nematodes in sheep. There is also concern over the potential for development of resistance in gastrointestinal nematodes to the two newer classes of sheep anthelmintics. Furthermore, increasing resistance of liver fluke to authorised flukicide anthelmintics is causing significant difficulty controlling associated disease in some regions of the UK.

In cattle, there are fewer reports of lack of efficacy of anthelmintics, but in view of the challenges faced by sheep farmers, there are similar concerns regarding development and spread of anthelmintic resistance. Currently there is an opportunity to address the potential risk factors for anthelmintic resistance earlier, whilst opportunities for successful intervention are greater.

Two pan-industry groups (SCOPS and COWS) consider and advise farmers on the sustainable control of parasites and the VMD has a representative on both of these steering groups. These groups produce and disseminate evidence-based best practice guidelines for use of anthelmintics, with the aim to delay the further development of resistance. Ongoing research is required to inform and update these guidelines, and study the effect of control strategies on resistance development.

The VMD's strategic concern is to ensure that the currently authorised anthelmintics remain effective and that animal health and welfare remains optimal. Refinement and improved availability of existing diagnostic tests (e.g. the faecal egg count and faecal egg count reduction test), alongside development of new diagnostic tests to enable molecular detection of resistance and parasite speciation could enable better targeting of anthelmintic use. Furthermore, research determining the prevalence, extent and dissemination of resistance to the different classes of anthelmintics in the UK would provide useful baseline data.

The outcomes of such research will be used to assess management strategies and thereby to help inform industry guidelines and to give confidence that anthelmintics are being used sustainably in farmed livestock. The VMD is therefore interested in commissioning work in these areas, and research proposals are invited accordingly.

Lot 1 - Research requirement

Requirement- Studies to refine and/or improve availability of existing diagnostic tests; develop new diagnostics tests to enable molecular detection of resistance or parasite speciation; or to determine the prevalence, extent and dissemination of resistance to the different classes of anthelmintics in the UK.

Aims and Objectives

Objectives shall include

- Study/assessment of existing diagnostic tests and provision of methods/options to refine and/or improve availability of these; and/or
- Development of new diagnostic tests to enable molecular detection of resistance or parasite speciation; and/or

- Determination and assessment of the prevalence, extent and dissemination of resistance to the different classes of anthelmintics in the UK.

The focus should be on the main livestock species where anthelmintic resistance is of most concern or potential concern e.g. sheep and cattle. This relates to the VMD priority 'Ensuring the availability of medicines to treat animals or prevent disease outbreaks in the UK'.

Milestones and Deliverables:

- Project meeting with the VMD to discuss approaches and timelines for deliverables (as part of inception meeting)
- 6 monthly project meetings (dependent on the length of the study) to discuss progress and any (potential) issues or risks to delivery.
- Provide results/outcomes that:
 - o Help to refine and/or improve availability of existing diagnostic tests; and/or
 - o Develop, or assist in the development of, new diagnostics tests to enable molecular detection of resistance or parasite speciation; and/or
 - o Determine, or help to determine, the prevalence, extent and dissemination of resistance to the different classes of anthelmintics in the UK.
- Final project meeting with the VMD to discuss results and outcomes.
- Completion of a final report (within one month of project completion).
- An indication of how the findings/outcomes will be disseminated and their impact maximised.

ANNEX A – QUEENS UNIVERSITY BELFAST

TENDER RESPONSE

E04 – Methodology

Key issues/challenges addressed in this project

Parasitic helminths pose a substantial economic and health and welfare threat to sheep and cattle farming worldwide [1,2]. For many years, these prevalent infections have been controlled using interval dosing programmes involving regular deworming of all animals. Such programmes are strongly selective for anthelmintic resistance, particularly in sheep nematodes in which resistance to the first three broad spectrum anthelmintic classes (1-3) is now widespread and includes multi-class resistance [3,4,5]. Of concern, resistance to the new class 4 anthelmintic, monepantel, is reported in the UK and elsewhere [6-9], with reduced efficacy of the new formulation containing derquantel (Class 5) and abamectin [8] reported in Australia. Resistance has been less reported in cattle; however, no detailed UK studies have been performed to explore this. One recent EU-wide study indicated resistance to all three available broad-spectrum anti-nematode classes in cattle [10]. Added to this, reports of resistance in *Fasciola hepatica* to flukicides (especially triclabendazole) is a substantial issue in some UK regions [11]. This is rendering control of ovine acute fasciolosis difficult and is limiting farmers' options for the effective treatment of cattle. Should resistance levels worsen, there will be no options left: no new anthelmintic classes are being developed for ruminants in the short to medium term and the few effective sub-unit helminth vaccines are at a pre-commercial stage [12]. For these reasons, *evidence-based control programmes* are advocated as 'best practice' by parasitology experts and livestock industry bodies, alike. In these, *diagnostic tests* are used to inform application of anthelmintics to those animals that require therapy to reduce treatment frequency and, hence, lower selection pressure for resistance. The programmes must be supported by grazing strategies to reduce worm transmission via the environment. In the UK, recommended practices are encompassed in industry guidelines delivered through Sustainable Control of Parasites in Sheep (SCOPS) and Control Of Worms Sustainably in cattle (COWS).

Recent surveys highlight that recommendations addressing resistance in the guidelines have variable uptake by UK farmers [13-15]. In the sheep sector, some progress has been made; however, there is still much work to be done. In our recent VMD-funded study on farmer/prescriber interactions, beef and sheep farmers who bought anthelmintics from veterinary surgeons were significantly more likely to state that their prescriber discussed or recommended faecal egg count (FEC) testing and strategies to reduce anthelmintic use more than those who purchased from Suitably Qualified Persons (SQPs) or from >1 prescribing channel, but only 7% of respondents were in the 'veterinary prescriber' group. About half the sheep farmer respondents applied FEC testing and cattle farmers, especially dairy farmers, did negligible testing. Of concern, many respondents had never tested the effectiveness of the anthelmintics they used, despite a high

concern for resistance (>96% respondents stated concern about resistance with ~65% worried about it on their own farm). We also identified substantial gaps in advice provision by prescribers in relation to simple best practice recommendations (dewormer storage, dose calculation, quarantine measures) to all farmer groups. There is substantial scope for advice provision by all prescribing channels and this is key to greater uptake of best practice at farm level. It is thus as important to address the need to improve advice at the point of sale as it is to achieve change by farmers *per se*.

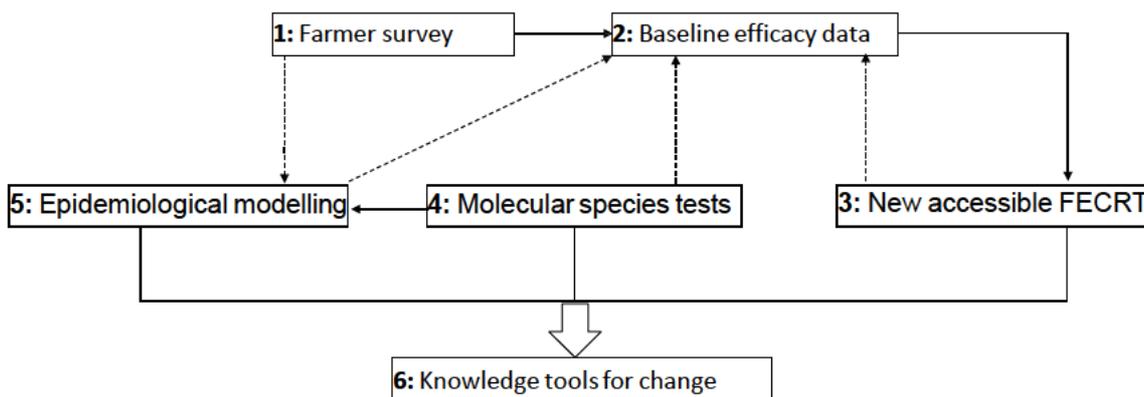
The studies above demonstrate that despite the SCOPS and COWS guidelines, provision of good advice and subsequent uptake of best practice principles for worm control on UK farms has significant scope for improvement. This project aims to address this by developing tools to support prescribers and farmers in adopting more sustainable control methods. To do this, using our expertise and contacts in agriculture, parasitology and diagnostics, we propose to undertake research to inform, simplify and update the industry guidelines. To provide information on current on-farm practices and identify knowledge gaps, we will survey farmers and assess usage of anthelmintics to investigate if these are being applied at the appropriate time and in the correct manner. We will survey attitudes and perceived barriers to changing to more sustainable control methods. We will perform an analysis of available diagnostics (coprological, molecular) to ensure

these are fit-for-purpose and accessible, taking into account the values and limitations of each. We will use the derived data to generate user-friendly knowledge tools that farmers and advisors can access to help deliver sustainable control at farm level. A key gap in knowledge is the effectiveness of anthelmintics used by UK sheep farmers; to generate baseline data, we will assess efficacy of Class 3-5 anti-nematode compounds on selected farms and exploit the data to develop more cost-effective ways to measure dewormer effectiveness to promote testing. Knowledge of anthelmintic resistance status is key to change and we will work to make efficacy testing more accessible so that test outputs will act as effective drivers of change. Information will be fed back to industry groups and regulators through our roles on SCOPS, COWS and relationships with other stakeholders. We will hold project-specific workshops and generate online/hard copy user training and advice materials. We will focus most activities on the sheep industry because anthelmintic resistance is a primary issue in this sector.

Key Objectives

The over-arching aim is to enhance uptake of best practice helminth control by UK ruminant farmers. Specific objectives are shown in Fig. 1 and described below.

Fig. 1. Task structure. Solid arrows represent task progression; dotted arrows additional information flows. Time scales and interdependencies of individual tasks; see E06.



1. Survey sheep and cattle farmers on current practices to investigate uptake of industry recommendations; including diagnostics used to support control, approaches to anthelmintic application, perceptions of resistance on-farm and hurdles to uptake. This survey will be used to recruit sheep farmers to assess efficacy of anthelmintics (Objective 2) [MRI, QUB].
2. Generate baseline data by undertaking efficacy testing of nematode populations on sheep farms. Efficacy of macrocyclic lactone, monepantel and/or derquantel/abamectin products will be assessed on farms applying distinct management practices [MRI, QUB]
3. Improve knowledge on the robustness and sensitivity of standard FEC tests and develop more cost-effective anthelmintic efficacy testing methods to promote uptake [QUB, MRI]
4. Develop current molecular-based research tools for sheep nematode species identification for exploitation by UK diagnostic service providers [MRI]
5. Apply epidemiological models to assess how new anthelmintic classes can be used most effectively in the UK context to preserve efficacy of other classes [QUB, MRI]
6. Use data from 1-5 to provide a suite of knowledge tools for end-users. A Steering Group of farmer, veterinarian, SQP and regulatory representatives will be established at the outset ensuring a full cycle from consultation to research to dissemination/implementation. Activities will include workshops to farmers, prescribers and regulators, generation of information sheets for industry initiatives and online guidelines for FEC/efficacy testing and molecular species analysis. All results

will be published in research *and* lay journals to expedite rapid effective knowledge transfer across veterinary and agricultural communities [MRI, LSSC Ltd, QUB]

Detailed methodology

Survey

To provide information on current on-farm practices and identify gaps, we will survey sheep, beef and dairy farmers. Based on our previous successful format for surveying anthelmintic prescribing and uptake of integrated worm control on farms in the UK [15-17], a survey will be designed and piloted on a small group of farmers prior to seeking approval from Defra Survey Control Unit. All information will be anonymised (except in cases where farmers voluntarily sign up for testing) and stored on MRI's secure server backed up daily externally. Question format will include closed- ended questions, matrices, multiple choice, rating scales; and some open-ended response boxes to provide opportunity to volunteer comments. Content will be designed using information in the COWS and SCOPS guidelines and, in addition to demographic questions, will cover pasture management, anthelmintic use and administration, use of diagnostics in supporting treatment decisions and efficacy testing for cattle and sheep. The survey will be disseminated via online cloud-based survey software, SurveyMonkey (<https://www.surveymonkey.co.uk>) using social media channels and our extensive contacts with farming industry groups/media as described in [15]; with distribution 2-3 times per week via these channels for 8 weeks. Informed consent will be sought from all participants. Responses will be exported to Microsoft Excel for Windows. Answers to open-ended questions will be categorized to facilitate analysis. Basic descriptive analysis will be performed on all questions. Sampling frame will be stratified according to region, farm size and management variables. Control measures including chemical deworming protocol, anthelmintics used and environmental practices (rotational grazing, stocking density), use of diagnostics (FEC, blood/milk tests), and attitudes to anthelmintic and diagnostic test use, will be explored using multiple linear regression, conducted in PASW 18.0 (SPSS). Relationships between individual 'control measures' and 'attitudes' will also be assessed using correlation, with Bonferroni correction applied. We will compare our outputs here to those from previous studies (above and [18,19]) to examine if behaviours have changed; and if not, barriers to change. We will use information volunteered on types of programme used by sheep farmers to inform selection of farms to be used in the anthelmintic efficacy studies (task 2 below).

Generating baseline data on the efficacy of sheep anthelmintic compounds

An urgent requirement is baseline data of the efficacy of Class 3-5 anti-nematode compounds on UK sheep farms; anthelmintic resistance is most advanced in sheep nematodes and these drugs are the last bastion before production failure on an increasing number of units. Sheep farms will be selected based on questionnaire responses in (1). We aim to recruit 10+ farms in each of two groups: A. targeted protocols followed; B. interval whole-flock treatment protocols. Sheep (>50 per farm) will be selected for FEC screening using the methodology described in [20] and efficacy tests performed using the composite methodologies developed in task 3, below, as well as using individual FEC. Efficacy tests will be performed on a minimum of 20 sheep farms, and the proportions of different nematode species present in pooled samples at treatment and 7-14 days later (depending on drug) assessed by PCR (see task 4 below). Efficacy values (FEC reduction, FECR) will be established for each farm using previously published reference methods [21] at least once annually; pooled FECRT will additionally be conducted whenever sheep are treated, with faecal samples sent to MRI. Relationships between observed efficacy and variables in the survey analysis (task 1, above) will be evaluated using generalised linear modelling. The chance of statistically significant results is low at this sample size, and assessment of risk factors is therefore refined in task 5. Serial pooled and individual annual FECRT will also be conducted on 12 cattle farms over two grazing seasons as part of BBSRC-funded project 'Integrating animal science and ecology for sustainable control of nematodes in cattle under climate change', 2018-21, using existing resources and adding value to the current project, adding efficacy data feeding into task 3.

Improve knowledge on the robustness and sensitivity of standard FEC tests and develop anthelmintic efficacy testing methods to promote uptake [MRI, QUB]

A key recommendation in SCOPS and COWS guidelines is that effectiveness of anthelmintics be tested in sheep and cattle, respectively. Our previous studies and others [18,19] demonstrate low levels of efficacy testing on UK farms, even when farmers were very concerned about the threat of resistance. This study will seek to improve uptake by developing robust methods that reduce the cost of efficacy monitoring for farmers. Previous work demonstrated that pooled faecal samples can accurately estimate group average nematode FEC in sheep [22] (and see track record); this approach has also been validated for cattle [23] and further adapted to assess anthelmintic efficacy in sheep against nematodes [24] and liver fluke [25]. The accuracy of pooled FECRT on commercial sheep and cattle farms, however, has not been proven and this is likely to limit uptake. Further, factors impacting pooled FECRT accuracy have not been systematically determined. Approaches simulating test performance from assumed true drug efficacy (TDE) have been attempted [26], but did not consider multi-species mixed infections, and focused mainly on misclassification error, with results unsurprisingly showing that accuracy of all methods declines when TDE is between 93 and 97%. Undue focus on the arbitrary threshold efficacy of 95% and controversy among researchers on the statistical interpretation of FECRT data creates confusion and further discourages the farmer-led monitoring of efficacy that is so urgently required.

FEC will be randomly simulated in virtual populations of sheep and cattle infected with realistic mixes of nematode species, each overdispersed and varying in prevalence through the season within bounds observed in previous UK field studies. The ability of pooled FECRT to detect resistance (from TDE) when applied at each treatment event will be compared with that of a single individual-based annual FECRT. The effect of FEC method on results will be assessed, to include number of animals sampled, degree of mixing for pooled FECRT, detection limit of FEC and ability to distinguish between nematode species. We hypothesise that in the light of realistic background variation (biological and methodological), routine serial efficacy monitoring by pooled FECRT will detect resistance with greater sensitivity than can rare and expensive cross-sectional individual-based FECRT, assuming decline in TDE over time. Moreover, that false positives in pooled FECRT can be corrected by follow-up individual FECRT. Simulations will further consider the optimum response to apparent drug failure in pooled FECRT under a range of assumptions of TDE, method design and cost. Thus, full FECRT might be instigated with or without species identification following a single point value of <95% pooled FECR, or after two or more repeated failures. Simulations will be set up and calibrated for a range of FEC methodologies, drawing from those currently available to farmers as well as wider parameter space, to optimize test design and hence guide future work to develop and deliver commercial tests that meet farmers' needs for efficacy monitoring. Separate simulations will consider the different cases of liver and rumen fluke to similar aims. Predicted pooled FECRT accuracy relative to individual-based FECRT will be tested using existing datasets, as well as new data from the efficacy trial farms (task 2): cross-sectional FECRT data from 44 sheep farms in Wales [redacted] 54 sheep farms in Italy [27] and additional data from COST Action COMBAR (see track record) spanning a range of drug classes and efficacies in cattle and sheep are available to the project. Individual FEC data will be aggregated into pooled FEC and the relative sensitivity and specificity of pooled FECRT estimated. On the study farms (task 2), serial pooled FECRT will be applied at each routine farm treatment as well as one individual-based FECRT per year and the ability of pooled FECRT to predict the individual-based FECRT result assessed. Results will be used to calibrate the positive and negative predictive values of pooled FECRT across a range of resistance prevalence and to evaluate the performance of pooled FECRT to monitor efficacy on sheep and cattle farms.

In addition to developing more cost-effective ways to assess resistance status, we will generate tools to promote uptake of coprological tests already available to make them appealing for use by animal health advisors and their farmer clients. This will be addressed by a desk study of research evidence on the sensitivity, robustness and cost of common coprological tests, including flotation and

sedimentation FEC tests for nematodes and trematodes, respectively, and the coproantigen test designed for detection of *F. hepatica*. The information will be distilled into evidence-based recommendations that will be directly transferrable to COWS and SCOPS, as well as to other stakeholders: veterinary groups, and trainers of SQPs and veterinary pharmacists (please see attached letters of support from these groups). Knowledge gaps or misconceptions about diagnostic tests identified in the farmer survey (task 1) will be addressed in the new guidelines.

Ovine nematode species-specific PCR

When performing efficacy tests it is important know which worm species are present to inform future anthelmintic use [9]. To facilitate uptake of a test that allows molecular species identification of worm eggs, we will exploit the AusDiagnosticsTM 'Sheep Parasites' (8-well) system designed for sheep/goat nematode eggs. This technology, currently used for research at MRI, will be validated for use with field samples from farms and the methodologies adapted to aid uptake by UK diagnostic laboratories. FEC will be conducted using a modification of [20] sensitive to 1 egg per gram of faeces. *Nematodirus* eggs will be differentiated morphologically, then composite samples created/group/time-point using 3g faeces/individual. Strongylid eggs will be purified by differential sieving and collected into water by centrifugation. Level of sieving will be tested to develop an efficient method that allows sufficient egg purification that will not inhibit the downstream PCR. Eggs will be counted and genomic DNA extracted from 1,000 eggs using the DNEasy Powersoil kit (Qiagen, Germany) and eluted in 60 µl molecular grade water. Nematode species present in 5 µl sub-samples will be determined by multiplexed-tandem PCR detailing the contribution of each species to the pool according to [28,29]. Each test will incorporate species-specific PCR concurrently detecting *Teladorsagia circumcincta*, *Haemonchus contortus*, *Trichostrongylus* spp., *Chabertia ovina*, *Oesophagostomum* spp. and *Cooperia curticei*. A 'pan-nematode' control reaction and a spiked standard will be run in each reaction. Melt-curve analysis will compare amplification curves of each species to the standard spike to calculate the relative contribution in each pooled sample. We will work with AusDiagnostics Ltd. [REDACTED] who will provide technical support and facilitate networking meetings with EU veterinary diagnostic laboratories. AusDiagnostics representatives will contribute to workshops in the dissemination phase (below).

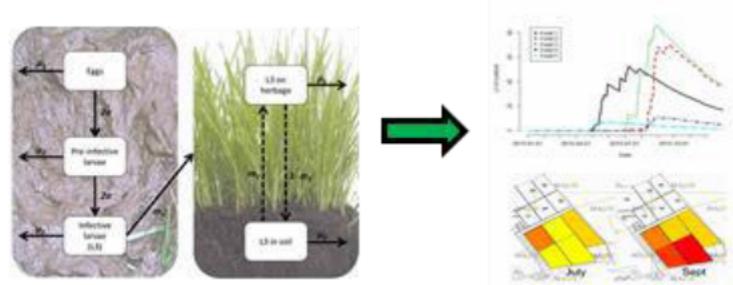
Apply epidemiological models to assess how new anthelmintic classes can be used most effectively in the UK context to preserve efficacy of other classes [QUB, MRI]

Management practices can greatly influence the speed of selection for anthelmintic resistance. A recent UK report of monepantel resistance suggested that treatments before movement onto silage aftermath may have applied high selection pressure. In New Zealand, epidemiological models suggest that end-of-season 'break treatments' with monepantel can help preserve efficacy of Class 1-3 anthelmintics in sheep [30] but have not been applied to the UK climate or farming systems [31]. Models recently developed by us under BBSRC sLola project 'The BUG Consortium' (2016-21) will be applied to different scenarios of management and climate. Because of uncertainties around the mode of inheritance of resistance for all but Class 1 anthelmintics, the models have been configured to primarily estimate extent of refugia in realistic farm environments, making them flexible to consider the impact of management-climate interactions on risk of resistance across drug groups. No further model development is needed within this project as models are ready to be applied 'off the shelf' to evaluate impacts of management on refugia (Fig. 2).

Firstly, models will be calibrated to management information supplied by survey of sheep and cattle farms (task 1) with publicly available meteorological data, to estimate the relative level of refugia generated by farm practices and this value entered into the statistical risk factor models (task 2). Secondly, the impact of management practices on resistance risk will be assessed, by imposing selected interventions in the model and assessing change in effective generation of refugia. Two specific interventions will be investigated for sheep because of their high chance of influencing resistance and the lack of evidence base to guide practices in the UK. By imposing Class 4/5

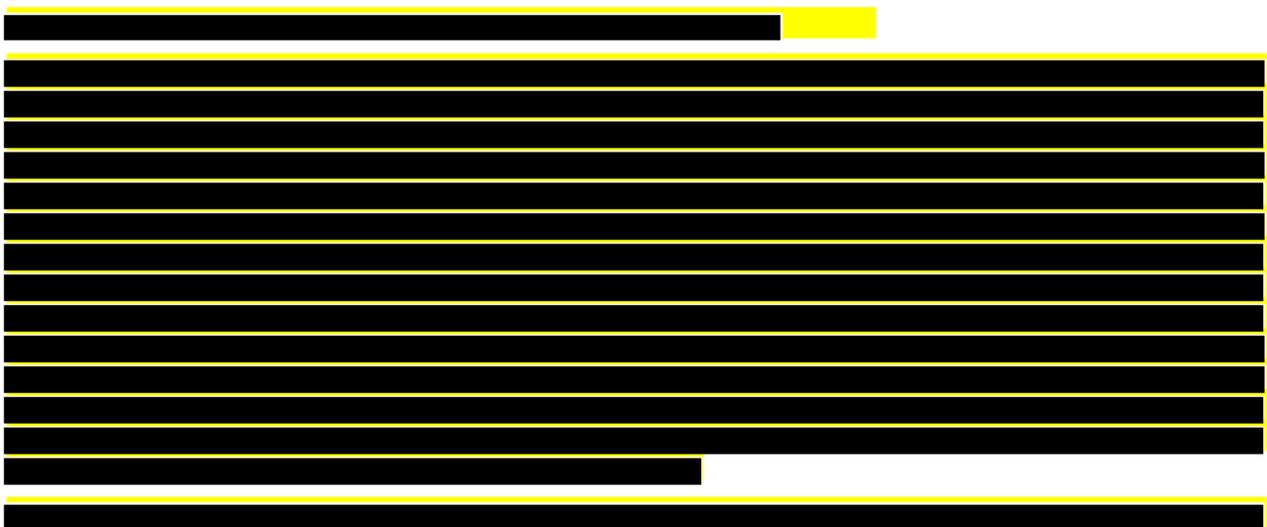
treatments within the model on a background of Class 1-3 treatments and typical management patterns, the optimum timing of these treatments to preserve efficacy across classes will be determined, along with how this varies by geographical region, between years and under future climate change scenarios. Non-target impacts of treatment for *Psoroptes ovis* using macrocyclic lactones on nematode populations and selection pressure for resistance will also be investigated, again by introducing those treatments into the model and assessing refugia generation as an output. Patterns of sheep scab treatment will be determined from published information on current farm practices and will take into account likely future practices as a result of changing scab epidemiology and control schemes. Scenarios will be designed in close collaboration with UK experts on sheep scab, with whom we have close links (see letter of support from University of Bristol). We will seek to work with successful applicants to ITT 4981, Project 23900 (VMD Research Requirements Lot 2. Antiparasitic Resistance: Sheep Scab) to develop these scenarios and align dissemination.

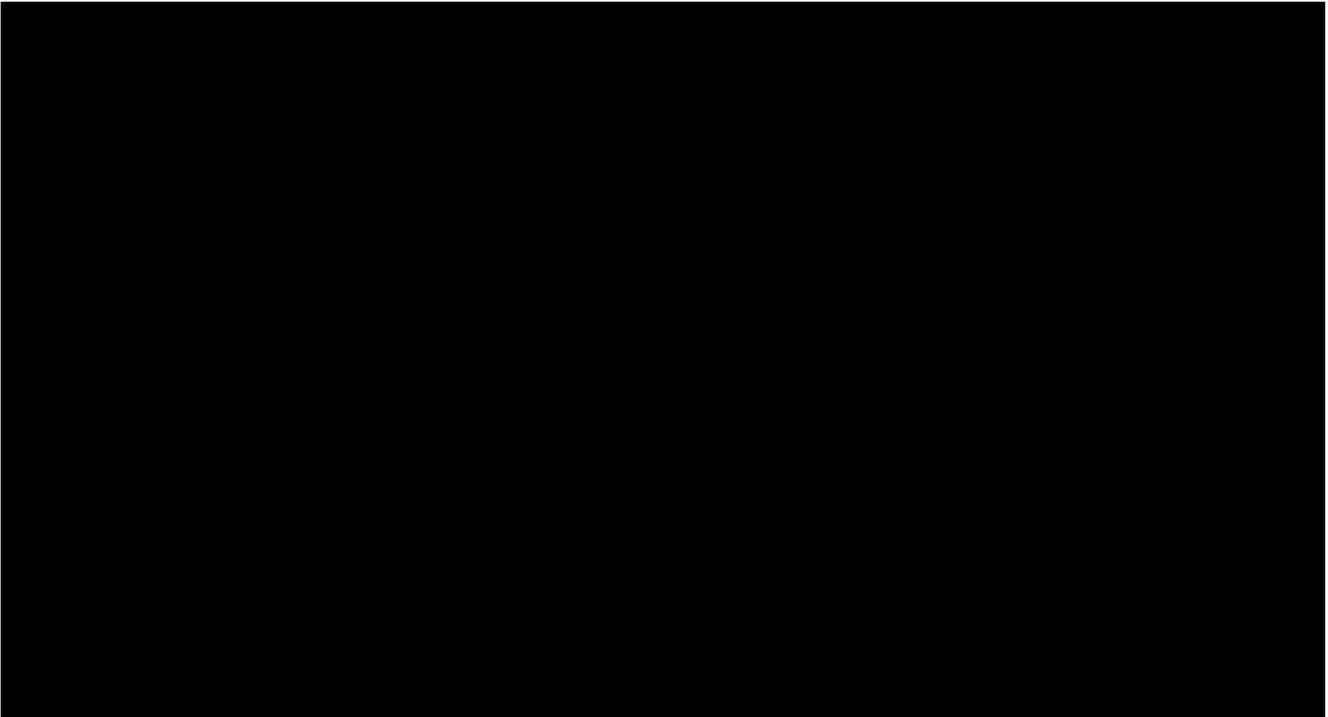
Fig. 2. Modelling refugia. Effects of climate on nematode larval availability (left, from [32]) are combined with information on sheep movement to predict dynamics of infectivity of different pastures (right, top; mapping at single time point below). Running the model together for treated and untreated sheep enables estimation of effective refugia.

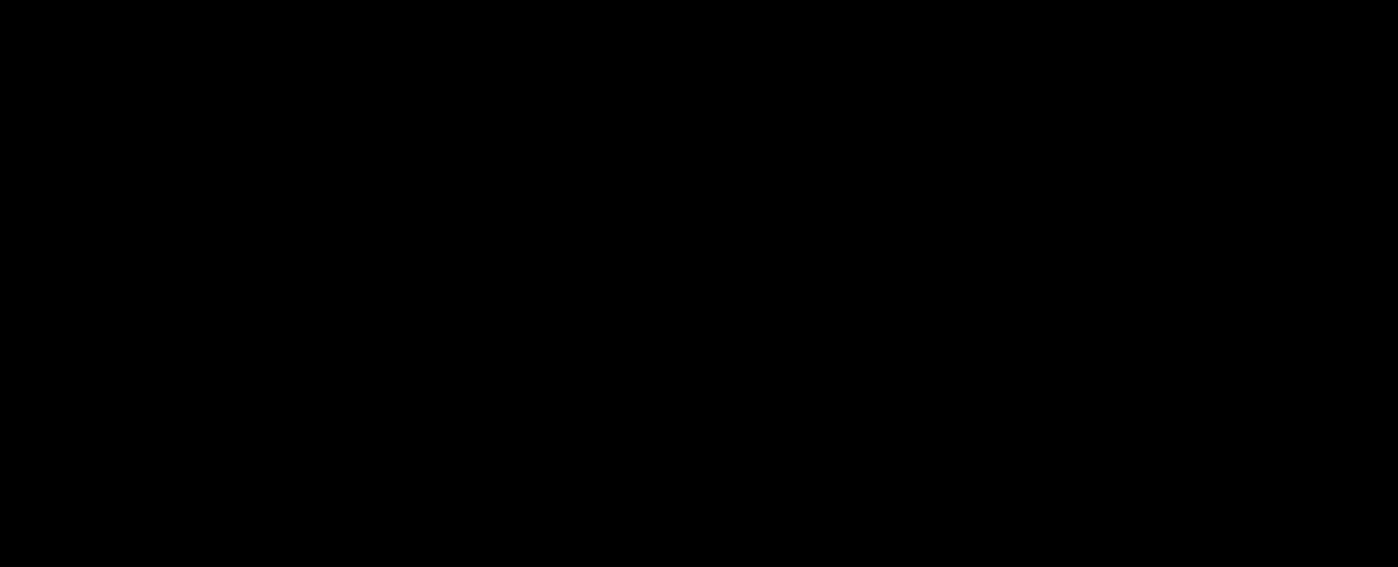
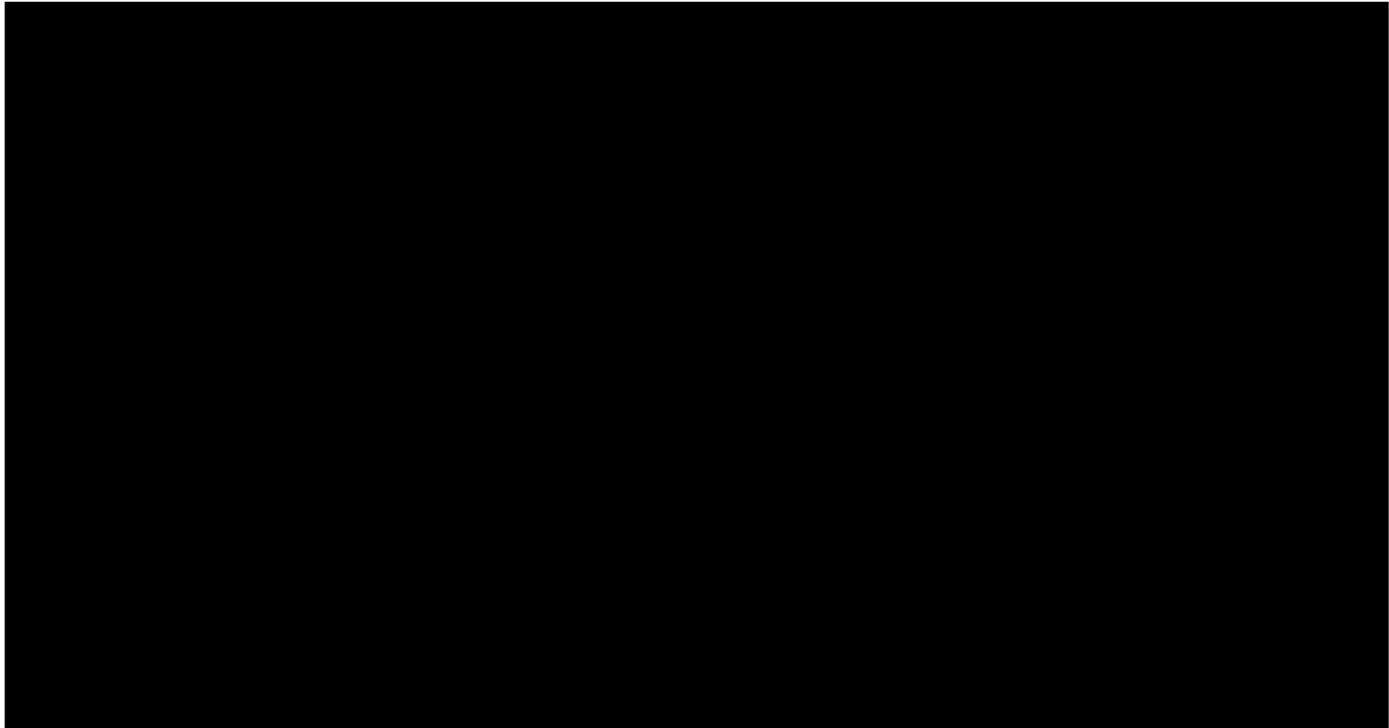
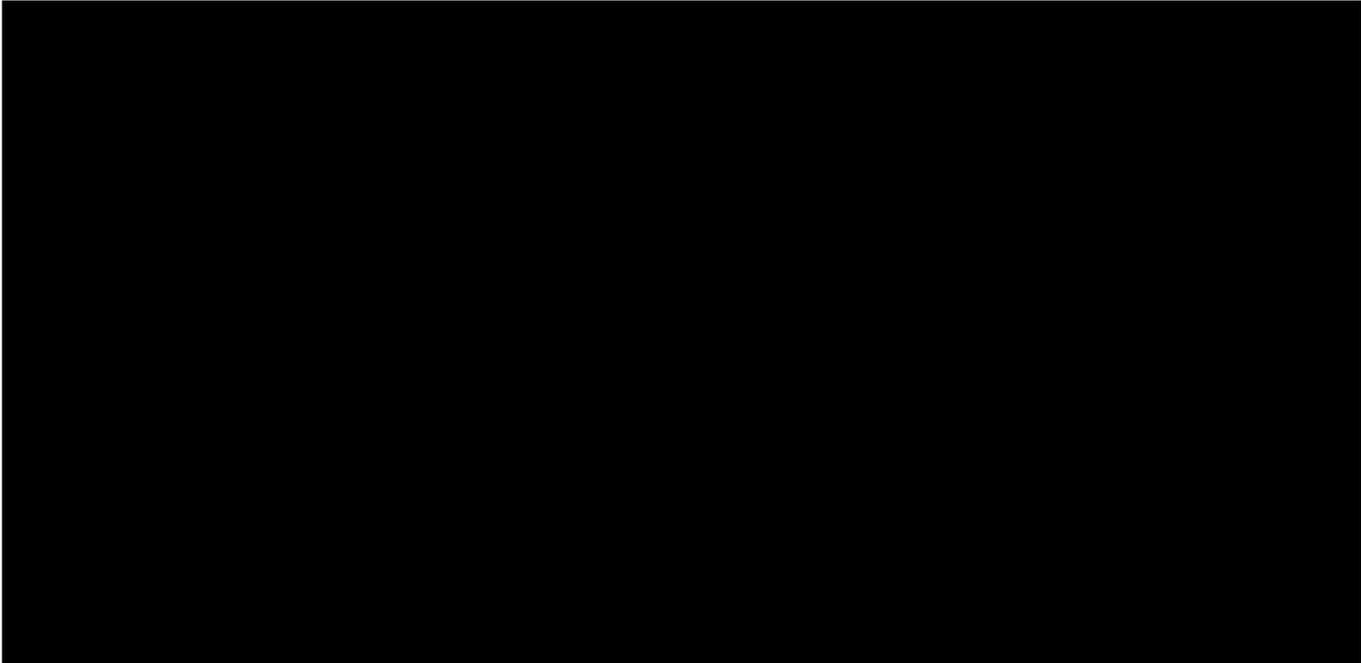


6. Knowledge Tools that will provide drivers for change and tools that enable change

Because of the threat of anthelmintic resistance, continued effective helminth control requires that those who own/manage livestock take more evidence-based approaches. In delivering these, farmers must be appropriately advised in best practice principles of parasite management. Lack of uptake may be due to a perceived complexity involved in integrating these 'new' methods in practice [33]. Such barriers must be broken down so that those prescribing and administering anthelmintics have confidence in delivering evidence-based control. This requires that they have access to up-to-date knowledge, as well as robust, informative diagnostic tests to support decision-making. A critical outcome here will be to deliver tools to facilitate implementation of evidence-based control. Along with clear guidelines on the diagnostic tests studied above, risk factors identified for anthelmintic resistance (task 2) will be built into the dissemination tools. We will include updated guidelines on liver and rumen fluke diagnostics based on the most recent published findings in cattle and sheep. As a further metric, by working via SCOPS, we will assess monthly usage of anthelmintic products by the UK sheep industry and will calculate this as doses based on a 50kg animal. Analysis of such patterns is an evidence-based metric that can be followed over time before and after implementation of the tools and knowledge exchange activities generated here. We will analyse the sales information data to measure changes in anthelmintic usage as a background metric to help inform and reinforce change. See E07 for all dissemination activities to stakeholders.







[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

E06 – Project Management and Timeline

General

[REDACTED] will have overall management responsibility for the research and have day-to-day contact with the Defra (VMD) project officer; [REDACTED] will work with the Defra steering group, co-write project reports, and [REDACTED] will lead internal peer review. All three partners have worked with at least one of the others previously so this will allow the Team to work effectively. Project meetings and interactions throughout the project will facilitate this. To expedite the tasks, the Project Team [REDACTED] [REDACTED] will have monthly meetings by tele- or video-conference. Within the Team are individuals with extensive track records in veterinary parasitology and animal health (see CVs in Section 05). Our over-lapping expertise will facilitate progress from basic parasitology, molecular analysis, mathematical modeling to the generation of scientific/lay publications and, importantly, end-user guidelines and as our skills are complimentary, the collective effort will be greater than the sum of the individual parts. The work on modelling will be led by [REDACTED] QUB and review and progress will be facilitated by the monthly meetings of the partners. At MRI, [REDACTED] will supervise the post-doctoral scientist on a daily basis. This scientist will deliver the questionnaire research, perform the parasitology and molecular studies and progress will be facilitated by the monthly meetings of the partners. The facilities at MRI and QUB are world-leading in the field of ruminant health. This includes state-of-the-art laboratories containing the appropriate equipment and cutting edge technologies (for example, the Ausdiagnostics platform at MRI).

A Steering Group of independent animal health experts will be assembled to provide autonomous comment on project progress and development of the knowledge tools (see attached Letters of Support). They will join the Project Team at two Steering Group Meetings at months 3 and 18 and at two Stakeholder Workshops designed to launch the project outputs in year 3. COWS and SCOPS will commit a substantial in-kind contribution to expedite progress of the guidelines as they emerge from the workflow. The Team will meet twice a year with Defra (VMD) representatives to discuss progress and will be in regular email contact regarding short term objectives.

Management Plan

The aim of the Management Plan is to integrate the research and dissemination activities so that optimal implementation and progression will be achieved, especially with respect to generating tangible practical outputs, i.e. the guidelines and other tools. The Plan is designed to enable a rapid understanding of any issues as they arise so that remedial actions can be implemented swiftly. Details of meetings (Dissemination and Management) are outlined elsewhere. These have been designed to ensure there is a clear flow of information from the research outputs to the dissemination activities. In particular, early input by the project's Steering Group will enable the Project Team to develop the outputs effectively taking into account practical issues identified at this stage. The Stakeholder Workshops will augment these activities in year 3. In all cases, the Project Team will have the opportunity to meet with end-users that will utilise the guidelines, i.e. veterinarians, other health advisors, prescribers and farmers. The Plan will be put in place by the start date of the project to ensure that the partners work to the same rules and regulations throughout. The production of six-monthly Progress Reports, written on specific templates with 'SMART objective' reporting, will ensure a clear

audit trail of activities and will seek to rapidly address arising issues. Where issues arise, these will be directed to the Project Lead who will, if necessary, request an intervening meeting. Face-to-face activities will be reinforced by electronic communication so that there will be continual communication. Management of the outputs will be coordinated such that they are made available in a timely manner. The goal is to promote rapid dissemination. There will be no specific IP rights generated and all knowledge obtained will be disseminated effectively for society's benefit. Quality management protocols in place (see Section E05) to ensure that all data generated is robust and will satisfy the relevant quality standards.

Risk register

Risk		Probability L/M/H	Impact L/M/H	Rating L/M/H	Mitigation	Rating after mitigation L/M/H
Managerial	Breakdown of relationships between	L	M	M	Partners will meet regularly; existing excellent long term working relationships are already in place.	L
	Loss of timely delivery of deliverables, milestones	L	M	M	The parties have an established relationship and have worked on previous projects together. Partners would develop revised plans to ensure delivery within scope. Regular project meetings updating on progress are in place	L
Technical	Inability to differentiate nematode species using molecular tools	L	H	M	Adequate resource has been budgeted; MRI have extensive experience of the relevant methods and have additional support from AusDiagnostics (see Letter of Support).	L
	Pooled FECRT gives poor results.	L	M	M	Previous published results suggest pooled FECRT will give reasonable results; sequential use protects from false +/-	L
	Farmer participation rate is too low to give adequate background data	M	M	H	All three Team members have strong links with farmers and experience in recruiting and retaining study participants; farm numbers are realistic and used to refine methods and not aim to provide robust prevalence data (which would require much higher 'n')	L

Timeline - see GANTT. In addition, **project meetings with VMD**; at **start** to discuss approaches and timelines for deliverables, **six-monthly meetings** (n=6) to discuss progress and potential issues/risks to delivery and a **final** project meeting to discuss results and outcomes. **VMD Reports** monthly and final.

E07 - Dissemination/Knowledge Exchange

Expected outputs to be disseminated

The main output is knowledge tools to disseminate up-to-date information on sustainable helminth control practices to the agricultural and animal health communities in the UK, specifically:

1. Written guidelines on the use of coprological tests for detecting ruminant helminth infections based on up-to-date information; to include the value of testing, when it is best to test and how to interpret test results. Documents written in farmer- and animal health advisor-facing versions and disseminated through SCOPS, COWS and the other farming/animal health networks that the applicants work with. The guidelines will form part of the Communication Plan (below).
2. Written guidelines on the use of coprological tests for measuring anthelmintic resistance in sheep and cattle. These will be used to improve uptake of testing by using the project's data to provide clear guidelines for testing composite samples. Documentation will include information on the value of efficacy testing, when it is best to test and how to interpret tests; written as farmer- and animal health advisor-facing versions; and disseminated through SCOPS, COWS and the other farming/animal health

networks that the applicants already work with. The guidelines will form part of associated presentations for the workshops described in the Communication Plan (below).

3. Written guidelines on molecular tests for nematode species analysis in ovine dung samples. Individual documents will be written in farmer-, animal health advisor- and diagnostic laboratory-facing versions to be disseminated via SCOPS, COWS and the other farming/animal health networks that the applicants already work with. The guidelines will form part of accompanying presentations in workshops (see Communication Plan, below).
4. New information on the prevalence of sheep nematode resistance to Class 3-5 anthelmintics in the UK. Included will be key data on potential risk factors for anthelmintic resistance on UK sheep farms. The information will be used to inform and update SCOPS guidelines to be disseminated through this industry initiative and via other farming/animal health networks that the applicants work with and will form part of presentations for the workshops described below. Where relevant, new documents will be prepared to update the COWS recommendations which will be disseminated via this industry initiative (please refer to attached Letters of Support from COWS members, [REDACTED]). Separate documents will be written in farmer- or animal health advisor-facing versions.

Key audiences

- (1) Farmers and associated agricultural industry bodies (AHDB, NFU, QMS, HCC); (2) Animal health advisors and prescribers: veterinarians, Suitably Qualified Persons, pharmacists; (3) Pharmaceutical company representatives; (4) Regulators.
Communication Plan (see letters of support from relevant stakeholders regarding their commitment to the Communications Plan):
 - (i) Communications to key end-user and stakeholder audiences: Several activities will be undertaken that will increase the likelihood that the societal impacts are achieved from the project's outputs. These will act as a catalyst for people to share experiences and express opinions on evidence-based helminth control methods in ruminants and will facilitate dialogue between scientific, policymaker and stakeholder audiences to help inform how knowledge garnered here will be best deployed to facilitate uptake of best practice. In these activities, we will engage with the following beneficiaries:
 - A. The farming, veterinary and other animal health advisor communities: The team will engage with major stakeholders in this space to ensure that exploitation of the research outcomes (i.e. the guidelines) fits with appropriate farm policies and practices. This will be expedited by [REDACTED] memberships of COWS and SCOPS Steering Groups, respectively, as well as other committees with which they are involved, VPC, SHAWG. The ethos is to share the guidelines on best practice as widely as possible through these various routes. Via [REDACTED] SCOPS and COWS Steering Groups, [REDACTED] have strong working relationships with key industry organisations such as AHDB, Quality Meat Scotland, National Farmers Union (NFU), NFU Scotland, NOAH, AMTRA and AHDA. These pre-existing relationships will allow them to communicate results rapidly in an appropriate format and, importantly, obtain feedback on how the guidelines and other tools will be received by relevant end-users. End-user engagement is a strength of MRI, via Moredun Foundation which has >10,000 members (including ~3000 farmers). The applicants will undertake an extensive programme of Knowledge Exchange via seminars, workshops, press releases and internet-based items, in which the outputs will be delivered in an appropriate format. These links will be employed as conduits to highlight the practical benefits of evidence-based helminth control and how to achieve it.
 - B. Animal health companies: Interactions with animal health industry representatives will be integral to the project's success as key influencers at the end of the prescribing chain through veterinary surgery/trade outlet visits and hard copy/on-line advertising. Representatives from the main Marketing Authorisation Holder companies for UK ruminant anthelmintics will be invited to the workshops and will be targeted with the written materials generated for the SCOPS and COWS websites. The applicants already have strong relationships with several companies via joint funding and in providing anthelmintics prescriber training on their behalf.
 - C. Regulatory bodies: The team will have regular dialogue with VMD representatives through six-monthly meetings throughout the project. These meetings will provide opportunity for feedback on the knowledge tool outputs. [REDACTED]
 - (ii) Communications to other scientists: Knowledge and data will be shared with other scientists via Open Access scientific publications and by poster/oral presentations at conferences. The project will be showcased at the World Association for the Advancement of Veterinary Parasitology international conference in Dublin 2021. The applicants will exploit their membership of scientific networks (British Society for Parasitology, British Association of Veterinary Parasitology) to efficiently share knowledge

during the project. They will use these networks to obtain feedback on practicality of the tools generated as they relate to integrated helminth control programmes under different management and geographical conditions.

(iii) The wider public: We have extensive experience in public engagement. [REDACTED]

[REDACTED]
[REDACTED] Information on responsible use of veterinary medicines will be shared in public engagement events that we partake in during and after the project.

Project-specific Communication Events (see GANTT chart for schedule of specific events):

1. Steering Group Meeting (MRI, month 3). Stakeholders from the agricultural/veterinary communities will be invited to feed back on the project objectives. Dialogue will be developed on the future potential utility of tools and their deployment. Feedback from the meeting will be used to inform guideline design.
2. Steering Group Meeting (MRI, month 18). Stakeholders from the agricultural/veterinary communities will be invited to feedback on project progress. Dialogue will continue on the tools' development and future deployment. Feedback will be used to refine guideline design.
3. Stakeholder Workshop I: Outputs Meeting (MRI, month 34). Stakeholders from the agricultural/veterinary communities will be invited to a workshop to discuss the pros and cons of diagnostics for informing anthelmintic treatments. This will be done in liaison with SCOPS and COWS. Feedback will be used to finalise guideline design.
3. Stakeholder Workshop II: Outputs Meeting (MRI, month 36). Stakeholders from the agricultural and veterinary communities will be invited to a workshop to learn about the key outputs from the project and will be introduced to the guideline materials. The tools will be showcased at this event which will be launched via the applicants' partnerships with SCOPS and COWS.

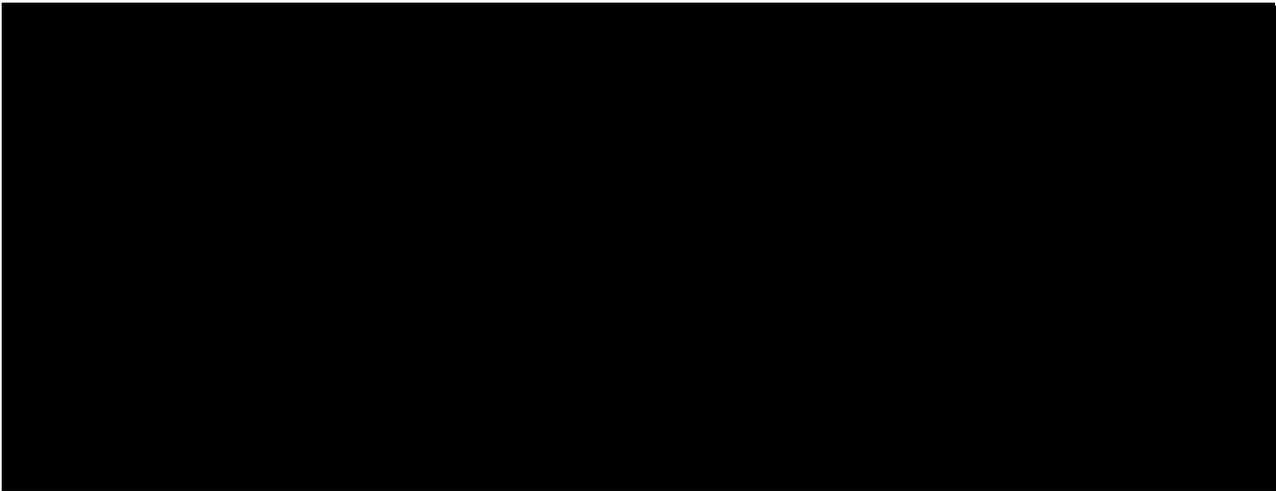
SCHEDULE 2 - PRICING

Fixed cost breakdown

	19/20	20/21	21/22	Total
	£	£	£	£
Staff costs				
Consumables				
Equipment				
Travel expenses				
Overheads				
Sub contracts[1]				
Other				
Total costs				
VAT (FY)				

Payment schedule, invoices to be submitted upon Authority approval that milestones have been delivered.

Lot No: /Lot Name:	Milestone Description	Payment Amount	Delivery Date	Payment Date
[Redacted Content]				



Total	£299,028.00		
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Values are £ GBP sterling and exclusive of VAT.

SCHEDULE 3 - CHANGE CONTROL

Contract Change Note (“CCN”)

CCN Number	
Contract Reference Number & Title	
Variation Title	
Number of Pages	

WHEREAS the Contractor and the Authority entered into a Contract for the supply of Lot 1 (Anthelmintic Resistance) dated 03 June 2019 (the "Original Contract") and now wish to amend the Original Contract

IT IS AGREED as follows

1. The Original Contract shall be amended as set out in this Change Control Notice:

Change Requestor / Originator		
Summary of Change		
Reason for Change		
Revised Contract Price	Original Contract Value	£
	Previous Contract Changes	£
	Contract Change Note [x]	£
	New Contract Value	£
Revised Payment Schedule		
Revised Specification (See Annexe [x] for Details)		
Revised Contract Period		
Change in Contract Manager(s)		
Other Changes		

2. Save as amended all other terms of the Original Contract shall remain effective.
3. This CCN takes effect from the date on which both Parties communicate acceptance of its terms via Bravo.

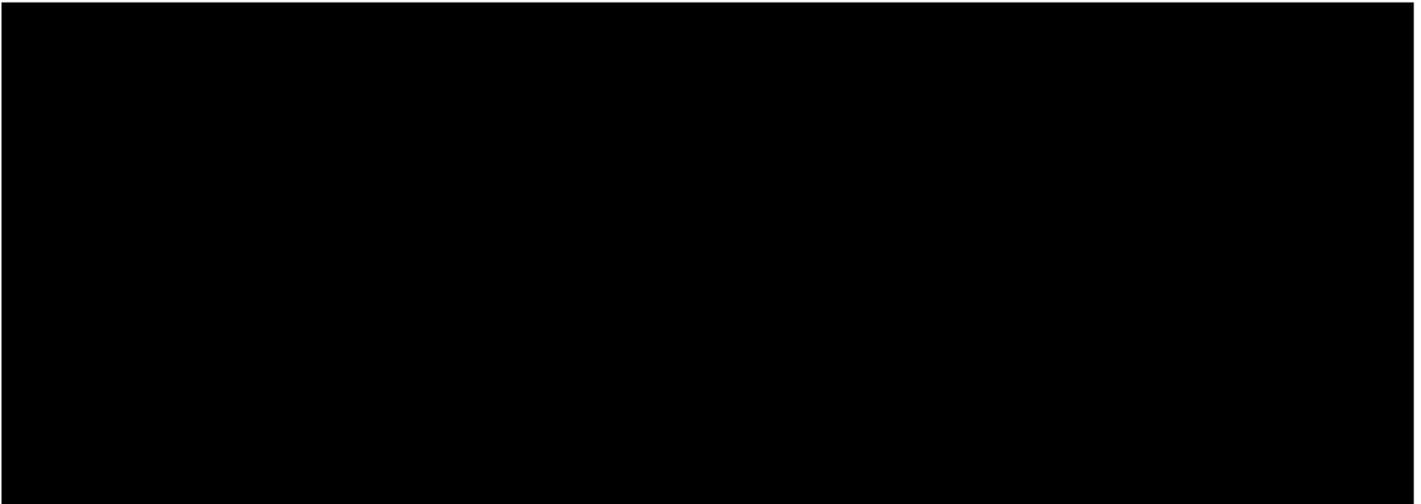
SCHEDULE 4 - COMMERCIALLY SENSITIVE INFORMATION

- 1.1 Without prejudice to the Authority's general obligation of confidentiality, the Parties acknowledge that the Authority may have to disclose Information in or relating to the Contract following a Request for Information pursuant to clause E5 (Freedom of Information).
- 1.2 In this Schedule the Parties have sought to identify the Contractor's Confidential Information that is genuinely commercially sensitive and the disclosure of which would be contrary to the public interest.
- 1.3 Where possible the Parties have sought to identify when any relevant Information will cease to fall into the category of Information to which this Schedule applies.
- 1.4 Without prejudice to the Authority's obligation to disclose Information in accordance with the FOIA and the EIR, the Authority will, acting reasonably but in its sole discretion, seek to apply the commercial interests exemption set out in s.43 of the FOIA to the Information listed below.

CONTRACTOR'S COMMERCIALLY SENSITIVE INFORMATION	DATE	DURATION CONFIDENTIALITY	OF

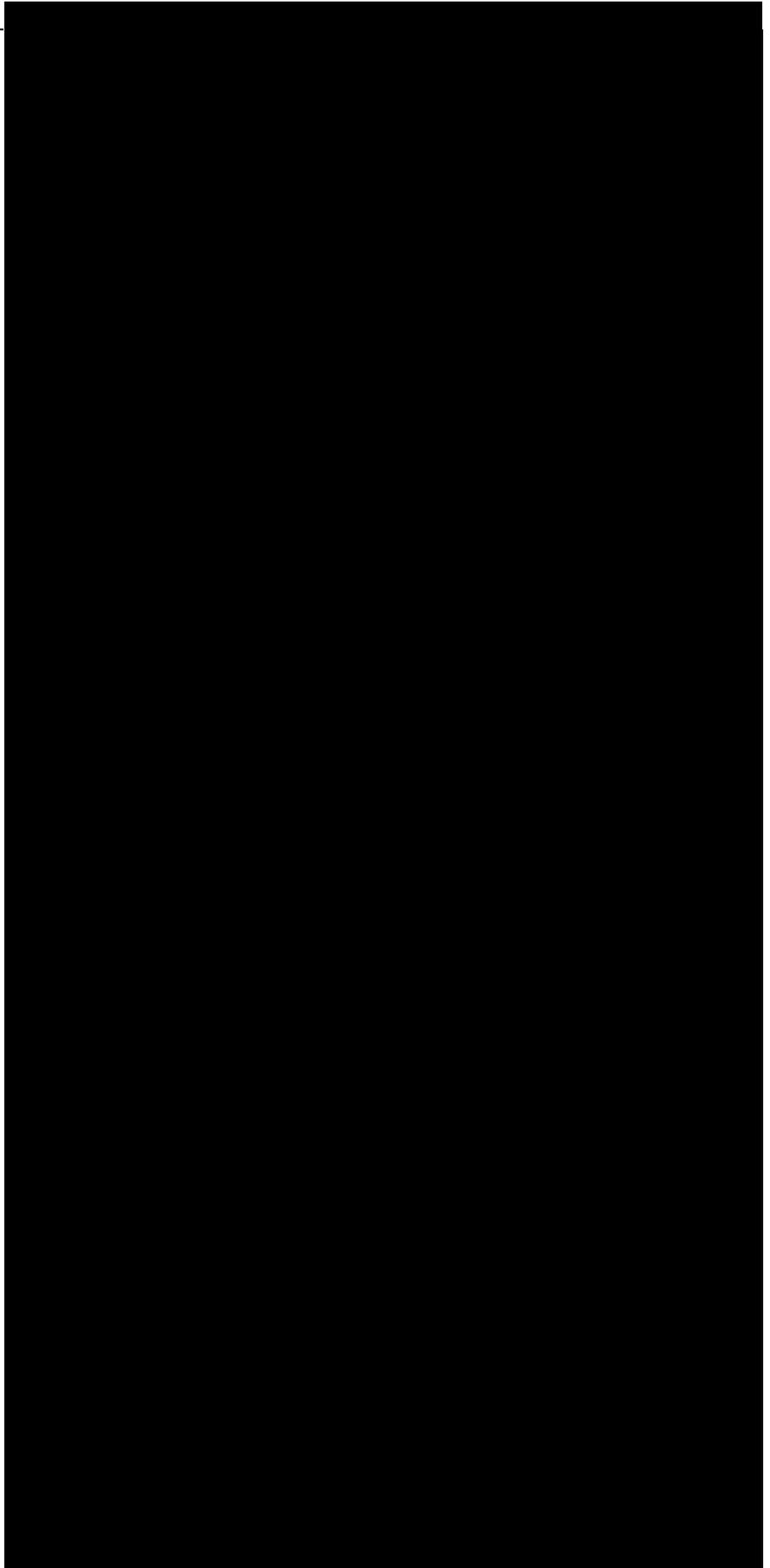
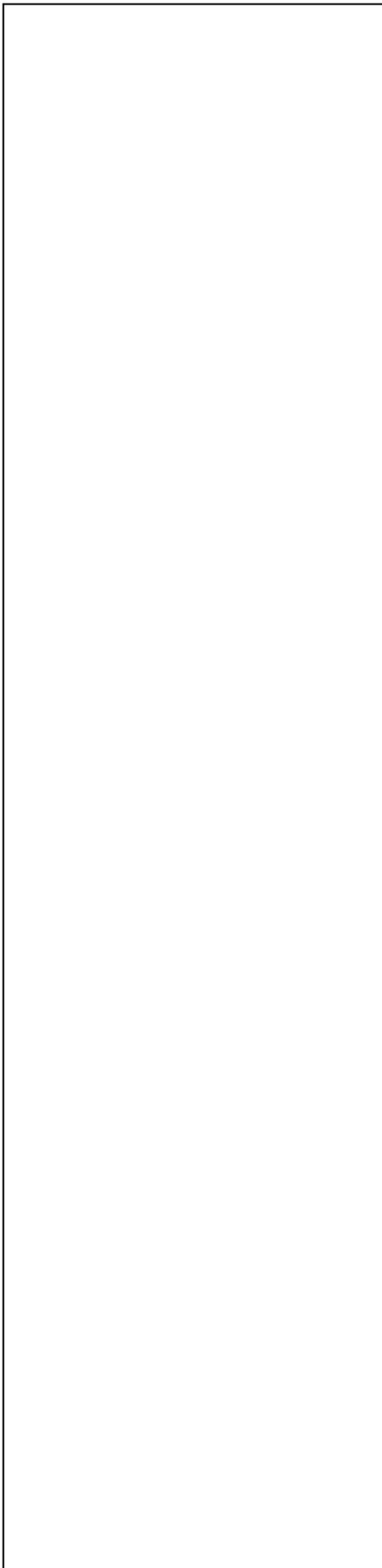
SCHEDULE 5 - PROCESSING, PERSONAL DATA AND DATA SUBJECTS

1. This Schedule shall be completed by the Authority, who may take account of the view of the Contractor, however the final decision as to the content of this Schedule shall be with the Authority at its absolute discretion.
2. The contact details of the Authority Data Protection Officer are:



4. The Contractor shall comply with any further written instructions with respect to processing by the Authority.
5. Any such further instructions shall be incorporated into this Schedule.

Data Processing descriptor	Narrative
Identity of the Controller and Processor	[Redacted]
Subject matter of the processing	
Duration of the processing	
Nature and purposes of the processing	



Type of Personal Data



Categories of Data Subject

Plan for return and destruction of the data once the processing is complete
UNLESS requirement under union or member state law to preserve that type of data

