

UKSBS

Shared Business Services

CONTRACT PR17171 FOR THE PURCHASE OF SPACE CALIBRATION CRYOSTAT

SECTION A

This Contract is dated 21 March 2018.

Parties

- (1) **The Science and Technology Facilities Council**, established under the Science and Technology Act 1965, as a body incorporated by Royal Charter, The Rutherford Appleton Laboratory, Harwell Oxfordshire, OX11 0QX (**the Contracting Authority**).
- (2) **CRIOTEC IMPIANTI S.p.A** a registered company in **ITALY** registered VAT number 08506500012 whose registered office is at Via Francesco. Parigi 32/a, 10034, CHIVASSO (TO). (**the Supplier**).

Background

The Contracting Authority wishes the Supplier to supply, and the Supplier wishes to supply, the Goods (as defined below) in accordance with the terms of the Contract (as defined below).

Agreed terms

A1 Interpretation

A1-1 **Definitions.** In the Contract (as defined below), the following definitions apply:

Associated Bodies and Authorised Entities: Associated Bodies and Authorised Entities include but are not limited to The Science and Technology Facilities Council, The Medical Research Council, The Engineering and Physical Sciences Research Council, The Economic and Social Research Council, The Natural Environment Research Council, The Arts and Humanities Research Council, The Biotechnology and Biological Sciences Research Council, UK SBS Ltd, Central Government Departments and their Agencies, Non Departmental Public Bodies, NHS bodies, Local Authorities, Voluntary Sector Charities, and/or other private organisations acting as managing agents or procuring on behalf of these UK bodies. Further details of these organisations can be found at: <http://www.ukpbs.co.uk/services/procure/contracts/Pages/default.aspx>

Business Day: a day (other than a Saturday, Sunday or public holiday) when banks in London are open for business.

Conditions: the terms and conditions set out in this document as amended from time to time in accordance with clause C7-11.

Confidential Information: any confidential information, know-how and data (in any form or medium) which relates to UK SBS, the Contracting Authority or the Supplier, including information relating to the businesses of UK SBS, the Contracting Authority or the Supplier and information relating to their staff, finances, policies and procedures. This includes information identified as confidential in the Order or the Special Conditions (if any).

Contract: the contract between the Contracting Authority and the Supplier for the sale and purchase of the Goods, in accordance with these Conditions, any Special Conditions and the Order only.

Contracting Authority: The Science and Technology Facilities Council, as specified at Section A (1) and any replacement or successor organisation.

Delivery Date: the date for delivery of the Goods specified in the Order or, if no such date is specified, within 28 days of the date of the Order.

Delivery Location: has the meaning set out in clause B2-2-3.

Delivery Note: has the meaning set out in clause B2-1-2.

EIR: the Environmental Information Regulations 2004 together with any guidance and/or codes of practice issues by the Information Commissioner or relevant government department in relation to such regulations.

FOIA: the Freedom of Information Act 2000 and any subordinate legislation made under the 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.

Goods: the goods (or any part of them) set out in the Order.

Information: has the meaning given under section 84 of FOIA.

Order: the Contracting Authorities order for the Goods and/or associated services necessary as part of the provision of the Goods, as set out in the Contracting Authorities completed purchase order form (including any Specification) which is in the format of the pro forma order form attached at Schedule 2. For the avoidance of doubt, if the Contracting Authorities purchase order form is not in the format of the pro forma order form at Schedule 2, it will not constitute an Order.

Public Body: any part of the government of the United Kingdom including but not limited to the Northern Ireland Assembly and Executive Committee, the Scottish Executive and the National Assembly for Wales, local authorities, government ministers and government departments and government agencies.

Request for Information: a request for Information or an apparent request under FOIA or EIR.

Special Conditions: the special conditions (if any) set out in Schedule 1.

Specification: any specification for the Goods, including any related plans and drawings that is supplied to the Supplier by the Contracting Authority, or produced by the Supplier and agreed in writing by the Contracting Authority.

Supplier or Suppliers: the parties to the contract as named in Section A (2)

Supplier's Associate: any individual or entity associated with the Supplier including, without limitation, the Supplier's subsidiary, affiliated or holding companies and any employees, agents or contractors of the Supplier and / or its subsidiary, affiliated or holding companies or any entity that provides Goods or associated services necessary as part of the provision of the Goods, for or on behalf of the Supplier.

UK SBS: UK Shared Business Services Limited (a limited company registered in England and Wales with company number 06330639). Where UK SBS is not named as the Contracting Authority within section A (1), UK SBS will be acting as an agent on behalf of the Contracting Authority.

Working Day: any Business Day excluding 27, 28, 29, 30 and 31 December in any year.

A1-2 **Construction.** In the Contract, unless the context requires otherwise, the following rules apply:

A1-2-1 A **person** includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).

A1-2-2 A reference to a party includes its personal representatives, successors or permitted assigns.

A1-2-3 A reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted.

A1-2-4 Any phrase introduced by the terms **including, include, in particular** or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

A1-2-5 The headings in these Conditions are for ease of reference only and do not affect the interpretation or construction of the Contract.

A1-2-6 A reference to **writing** or **written** includes faxes and e-mails.

A2 Basis of contract

- A2-1 Where UK SBS is not the Contracting Authority, UK SBS is the agent of the Contracting Authority for the purpose of procurement and is authorised to negotiate and enter into contracts for the supply of goods on behalf of the Contracting Authority. UK SBS will not itself be a party to, nor have any liability under, the Contract unless it is expressly specified as the Contracting Authority in the Order.
- A2-2 The terms of this Contract, any Special Conditions and the Order apply to the Contract to the exclusion of all other terms and conditions, including any other terms that the Supplier seeks to impose or incorporate (whether in any quotation, confirmation of order, in correspondence or in any other context), or which are implied by trade, custom, practice or course of dealing.
- A2-3 If there is any conflict or inconsistency between the terms of this Contract, the Special Conditions (if any) and the Order (including any Specification), the terms of this Contract will prevail over the Special Conditions and the Special Conditions will prevail over the Order (including any Specification), in each case to the extent necessary to resolve that conflict or inconsistency.
- A2-4 The Order constitutes an offer by the Contracting Authority to purchase the Goods in accordance with the terms of this Contract (and any Special Conditions). This offer shall remain valid for acceptance by the Supplier, in accordance with clause A2-5, for 28 days from the date of the Order. Notwithstanding that after 28 days the offer will have expired, the Contracting Authority may, at its discretion, nevertheless treat the offer as still valid and may elect to accept acceptance by the Supplier, in accordance with clause A2-5, as valid acceptance of the offer.
- A2-5 Subject to clause A2-4, the Order shall be deemed to be accepted on the date on which authorised representatives of both parties have signed a copy of this Contract, at which point the Contract shall come into existence. The Contract shall remain in force until all the parties' obligations have been performed in accordance with the Contract, at which point it shall expire, or until the Contract has been terminated in accordance with clause A3.

A3 Termination

- A3-1 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority may terminate, the Contract in whole or in part at any time before delivery with immediate effect by giving the Supplier written notice, whereupon the Supplier shall discontinue all work on the Contract. The Contracting Authority shall pay the Supplier fair and reasonable compensation for work-in-progress at the time of termination, but such compensation shall not include loss of anticipated profits or any consequential loss. The Supplier shall have a duty to mitigate its costs and shall on request provide proof of expenditure for any compensation claimed.
- A3-2 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority may terminate the Contract with immediate effect by giving written notice to the Supplier if:
- A3-2-1 the circumstances set out in clauses B3-1-1, C3-1 or C4-1 apply;
 - A3-2-2 the Supplier breaches any term of the Contract and (if such breach is remediable) fails to remedy that breach within 30 days of being notified in writing of the breach; or

- A3-2-3 the Supplier suspends, or threatens to suspend, payment of its debts or is unable to pay its debts as they fall due or admits inability to pay its debts or (being a company) is deemed unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986, or (being an individual) is deemed either unable to pay its debts or as having no reasonable prospect of so doing, in either case, within the meaning of section 268 of the Insolvency Act 1986, or (being a partnership) has any partner to whom any of the foregoing apply; or
- A3-2-4 the Supplier commences negotiations with all or any class of its creditors with a view to rescheduling any of its debts, or makes a proposal for or enters into any compromise or arrangement with its creditors; or
- A3-2-5 (being a company) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Supplier; or
- A3-2-6 (being an individual) the Supplier is the subject of a bankruptcy petition or order; or
- A3-2-7 a creditor or encumbrancer of the Supplier 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 its assets and such attachment or process is not discharged within 14 days; or
- A3-2-8 (being a company) an application is made to court, or an order is made, for the appointment of an administrator or if a notice of intention to appoint an administrator is given or if an administrator is appointed over the Supplier; or
- A3-2-9 (being a company) a floating charge holder over the Supplier's assets has become entitled to appoint or has appointed an administrative receiver; or
- A3-2-10 a person becomes entitled to appoint a receiver over the Supplier's assets or a receiver is appointed over the Supplier's assets; or
- A3-2-11 any event occurs, or proceeding is taken, with respect to the Supplier in any jurisdiction to which it is subject that has an effect equivalent or similar to any of the events mentioned in clause A3-2-3 to clause A3-2-10 inclusive; or
- A3-2-12 there is a change of control of the Supplier (within the meaning of section 1124 of the Corporation Tax Act 2010); or
- A3-2-13 the Supplier suspends, or threatens to suspend, or ceases or threatens to cease to carry on, all or substantially the whole of its business; or
- A3-2-14 the Supplier's financial position deteriorates to such an extent that in the Contracting Authorities opinion the Supplier's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy; or
- A3-2-15 (being an individual) the Supplier dies or, by reason of illness or incapacity (whether mental or physical), is incapable of managing his or her own affairs or becomes a patient under any mental health legislation.
- A3-3 Termination of the Contract, however arising, shall not affect any of the parties' rights and remedies that have accrued as at termination. Clauses which expressly or by implication survive termination or expiry of the Contract shall continue in full force and effect.
- A3-4 Without prejudice to clause A3-3, clauses B1, B2, B3, B4, B6, B7, B8, C1, C2, C3, C4, C6 and C7 shall survive the termination or expiry of the Contract and shall continue in full force and effect.
- A3-5 Upon termination or expiry of the Contract, the Supplier shall immediately:

- A3-5-1 cease all work on the Contract;
- A3-5-2 deliver to the Contracting Authority all Goods which are ready for delivery (upon election from the Contracting Authorities or UK SBS's acting as an agent on behalf of the Contracting Authority's);
- A3-5-3 cease use of and return (or, at the Contracting Authorities or UK SBS's acting as an agent on behalf of the Contracting Authority's election, destroy) all of the Contracting Authorities Materials in the Supplier's possession or control; and
- A3-5-4 cease all use of, and delete all copies of, the Contracting Authorities or UK SBS's confidential information.

Section B

B1 The goods

- B1-1 The Supplier shall supply all Goods in accordance with the Contract. In particular, the Supplier warrants that the Goods shall:
 - B1-1-1 correspond with their description in the Order (including any Special Conditions and any applicable Specification);
 - B1-1-2 be of satisfactory quality (within the meaning of the Sale of Goods Act 1979, as amended) and fit for any purpose held out by the Supplier or made known to the Supplier by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority, expressly or by implication, and in this respect the Contracting Authority relies on the Supplier's skill and judgement;
 - B1-1-3 where applicable, be free from defects in design, material and workmanship and remain so for 12 months after delivery;
 - B1-1-4 comply with all applicable statutory and regulatory requirements relating to the manufacture, labelling, packaging, storage, handling and delivery of the Goods;
 - B1-1-5 be supplied in accordance with all applicable legislation in force from time to time; and
 - B1-1-6 be destined for supply into, and fully compliant for use in, the United Kingdom (unless specifically stated otherwise in the Order).
- B1-2 The Supplier shall ensure that at all times it has and maintains all the licences, permissions, authorisations, consents and permits that it needs to carry out its obligations under the Contract.

- B1-3 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall have the right to inspect and test the Goods at any time before delivery.
- B1-4 If following such inspection or testing the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority considers that the Goods do not conform or are unlikely to comply with the Supplier's undertakings at clause B1-1, the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall inform the Supplier and the Supplier shall immediately take such remedial action as is necessary to ensure compliance.
- B1-5 Notwithstanding any such inspection or testing, the Supplier shall remain fully responsible for the Goods and any such inspection or testing shall not reduce or otherwise affect the Supplier's obligations under the Contract, and the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall have the right to conduct further inspections and tests after the Supplier has carried out its remedial actions.
- B1-6 The Contracting Authorities rights under the Contract are without prejudice to and in addition to the statutory terms implied in favour of the Contracting Authority under the Sale of Goods Act 1979, the Supply of Goods and Services Act 1982 and any other applicable legislation as amended.

B2 Delivery

- B2-1 The Supplier shall ensure that:
- B2-1-1 the Goods are properly packed and secured in such manner as to enable them to reach their destination in good condition;
 - B2-1-2 each delivery of the Goods is accompanied by a delivery note which shows the date of the Order, the Order number (if any), the type and quantity of the Goods (including the code number of the Goods, where applicable), special storage instructions (if any) and, if the Goods are being delivered by instalments, the outstanding balance of Goods remaining to be delivered (the **Delivery Note**); and
 - B2-1-3 if the Supplier requires the Contracting Authority to return any packaging material to the Supplier, that fact is clearly stated on the Delivery Note. Any such packaging material shall be returned to the Supplier at the Supplier's cost.
- B2-2 The Supplier shall deliver the Goods:
- B2-2-1 on the Delivery Date;
 - B2-2-2 carriage paid; DAP Incoterms 2010
 - B2-2-3 to the location or locations as is or are set out in the Order, or as instructed by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority in writing prior to delivery (the **Delivery Location**);
 - B2-2-4 during the Contracting Authorities normal business hours on a Working Day, or as instructed by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority.

- B2-3 Delivery of the Goods shall be completed on the completion of unloading the Goods at the Delivery Location and in accordance with the provisions of this clause B2. The Supplier will unload the Goods at its own risk as directed by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority. The Goods will remain at the risk of the Supplier until delivery to the Contracting Authority (including unloading) is complete, including that the Supplier has obtained sign-off of the Delivery Note by or on behalf of the Contracting Authority, at which point ownership of the Goods shall transfer to the Contracting Authority.
- B2-4 If the Supplier delivers to the Contracting Authority more than the quantity of Goods ordered, the Contracting Authority will not be bound to pay for the excess and any excess will remain at the Supplier's risk and will be returnable to the Supplier at the Supplier's expense.
- B2-5 If the Supplier delivers more or less than the quantity of Goods ordered, and the Contracting Authority accepts the delivery, a pro rata adjustment shall be made to the invoice for the Goods.
- B2-6 The Supplier shall not deliver the Goods in instalments without the prior written consent from the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority. Where it is agreed that the Goods are to be delivered in instalments, they may be invoiced and paid for separately. However, failure by the Supplier to deliver any one instalment on time, or at all, or any defect in an instalment, shall entitle the Contracting Authority to the remedies set out in clause B3.
- B2-7 The Supplier shall:
- B2-7-1 obtain, at its risk and expense, any export and import licences or other authorisations necessary for the export and import of the Goods and their transit through any country or territory; and
 - B2-7-2 deal with all customs formalities necessary for the export, import and transit of the Goods, and will bear the costs of complying with those formalities and all duties, taxes and other charges payable for export, import and transit.
- B2-8 Without prejudice to the Contracting Authorities statutory rights, the Contracting Authority will not be deemed to have accepted any Goods until the Contracting Authority has had at least 14 Working Days after delivery to inspect them and the Contracting Authority also has the right to reject any Goods as though they had not been accepted for 14 Working Days after any latent defect in the Goods has become apparent.
- B2-9 If, in connection with the supply of the Goods, the Contracting Authority permits any employees or representatives of the Supplier to have access to any of the Contracting Authorities premises, the Supplier will ensure that, whilst on the Contracting Authorities premises, the Supplier's employees and representatives comply with:
- B2-9-1 all applicable health and safety, security, environmental and other legislation which may be in force from time to time; and
 - B2-9-2 any Contracting Authority policy, regulation, code of practice or instruction relating to health and safety, security, the environment or access to and use of any Contracting Authority laboratory, facility or equipment which is brought to their attention or given to them whilst they are on the Contracting Authorities premises by any employee or representative of the Contracting Authority.

B3 Remedies

- B3-1 If the Goods, or any part of them, including any instalment(s), are not delivered on the Delivery Date, or do not comply with the undertakings set out in clause B1-1 or any requirements set out in the Special Conditions (if any), or the Supplier has otherwise not supplied the Goods in accordance with, or the Supplier has failed to comply with, any of the terms of the Contract, then, without limiting any of its other rights or remedies, the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall have the right, at their discretion, to any one or more of the following remedies, whether or not it has accepted the Goods or any part of them:
- B3-1-1 to terminate the Contract in whole or in part without liability to the Supplier;
 - B3-1-2 at its discretion reject any of the Goods which have been delivered by the Delivery Date and refuse to accept any subsequent delivery of Goods that the Supplier attempts to make (and any such rejected Goods shall be stored and are returnable at the Supplier's sole risk and expense);
 - B3-1-3 purchase substitute Goods from elsewhere;
 - B3-1-4 accept late delivery of the Goods;
 - B3-1-5 to require the Supplier to remedy any defect in, repair or replace the rejected Goods, or to provide a full refund of the price of the rejected Goods;
 - B3-1-6 to recover from the Supplier any costs incurred by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority in obtaining substitute goods from a third party; and
 - B3-1-7 to claim damages for any other costs, loss or expenses incurred by the Contracting Authority or UK SBS whilst acting as the agent on behalf of the Contracting Authority, which are in any way attributable to the Supplier's failure to carry out its obligations under the Contract.
- B3-2 These Conditions shall apply to any repaired or replacement Goods supplied by the Supplier.
- B3-3 The Supplier shall indemnify, and shall keep indemnified the Contracting Authority and UK SBS acting as an agent on behalf of the Contracting Authority, in full and hold the Contracting Authority and UK SBS harmless against all claims, costs, expenses, damages and losses, whether direct or indirect (including loss of profits, loss of business, depletion of goodwill and similar losses), including any interest, penalties, and legal and other professional fees and expenses awarded against or incurred or paid by the Contracting Authority and UK SBS acting as an agent on behalf of the Contracting Authority as a result of or in connection with:
- B3-3-1 any claim made against the Contracting Authority or UK SBS for actual or alleged infringement of a third party's intellectual property rights arising out of, or in connection with, the manufacture, supply or use of the Goods, to the extent that the claim is attributable to the acts or omissions of the Supplier, its employees, agents or subcontractors;
 - B3-3-2 any claim made against the Contracting Authority or UK SBS by a third party arising out of, or in connection with, the supply of the Goods, to the extent that such claim arises out of the breach, negligent performance or failure or delay in performance of the Contract by the Supplier, its employees, agents or subcontractors; and

B3-3-3 any claim made against the Contracting Authority or UK SBS by a third party for death, personal injury or damage to property arising out of, or in connection with, defects in Goods, to the extent that the defect in the Goods is attributable to the acts or omissions of the Supplier, its employees, agents or subcontractors.

This clause B3-3 shall survive termination or expiry of the Contract.

B3-4 The Contracting Authorities rights and remedies under these Conditions are in addition to its rights and remedies implied by statute and common law.

B4 Title, risk and use

B4-1 Title and risk in the Goods shall pass to the Contracting Authority on completion of delivery.

B4-2 The Supplier warrants that it has full clear and unencumbered title to the Goods and that upon completion of delivery the Supplier has full and unrestricted rights to sell and transfer absolutely all Goods to the Contracting Authority.

B5 Price and payment

B5-1 The price of the Goods shall be the price set out in the Order.

B5-2 The price of the Goods excludes amounts in respect of value added tax (VAT) or other applicable sales tax, but includes the costs of all materials, costs charges, expenses, packaging, insurance and carriage of the Goods. No extra charges shall be effective unless agreed in writing and signed by or on behalf of the Contracting Authority.

B5-3 The Contracting Authority shall, on receipt of a valid VAT invoice from the Supplier, pay to the Supplier such additional amounts in respect of VAT as are chargeable on the supply of the Goods at the statutory rate in force at the relevant time.

B5-4 The Supplier may invoice the Contracting Authority for the Goods on or at any time after the completion of delivery.

B5-5 The Contracting Authority shall pay correctly rendered invoices within 30 days of receipt of the invoice. Payment shall be made to the bank account nominated in writing by the Supplier unless the Contracting Authority agrees in writing to another payment method.

B5-6 The Supplier shall not be entitled to assert any credit, set-off or counterclaim against the Contracting Authority in order to justify withholding payment of any such amount in whole or in part. The Contracting Authority may, without limiting any other rights or remedies it may have, set off any amount owed to it by the Supplier against any amounts payable by it to the Supplier under the Contract.

B5-7 The Supplier acknowledges and agrees that it will pay correctly rendered invoices from any of its suppliers or other sub-contractors within 30 days of receipt of the invoice.

B5-8 Payment to other parties

The Supplier shall ensure, pursuant to Regulation 113(2)(c) of the Public Contracts Regulations 2015, that any subcontract awarded by the Supplier contains suitable provisions to impose, as between the parties to the subcontract, requirements that:

B5-8-1 any payment due from the Supplier to the subcontract or under the subcontract is to be made no later than the end of a period of 30 days from the date on which the relevant invoice is regarded as valid and undisputed;

B5-8-2 any invoices for payment submitted by the subcontract or are considered and verified by the Supplier in a timely fashion and that undue delay in doing so is not to be sufficient justification for failing to regard an invoice as valid and undisputed;
; and

B5-8-3 any subcontract or will include, in any subcontract which it in turn awards, suitable provisions to impose, as between the parties to that subcontract, requirements to the same effect as those imposed in paragraphs B5-8-1, B5-8-2 and B5-8-3 of this Clause B5-8, subject to suitable amendment to reflect the identities of the relevant parties.

B6 Contracting Authority property

B6-1 The Supplier acknowledges that all information (including confidential information), equipment and tools, drawings, specifications, data, software and any other materials supplied by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority to the Supplier (**Contracting Authorities Materials**) and all rights in the Contracting Authorities Materials are and shall remain at all times the exclusive property of the Contracting Authority and or UK SBS (as appropriate). The Supplier shall keep the Contracting Authorities Materials in safe custody at its own risk, maintain them in good condition until returned to the Contracting Authority or UK SBS, and not dispose or use the same other than for the sole purpose of performing the Supplier's obligations under the Contract and in accordance with written instructions or authorisation from the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority.

B7 Insurance

B7-1 During the term of the Contract and for a period of 3 years thereafter, the Supplier shall maintain in force, with a reputable insurance company, product liability insurance, employer liability insurance and public liability insurance to cover such heads of liability as may arise under or in connection with the Contract, and shall, on request from the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority, produce both the insurance certificate giving details of cover and the receipt for the current year's premium in respect of each insurance.

B8 Liability

B8-1 In this clause B8, a reference to the Contracting Authority or UK SBS's liability for something is a reference to any liability whatsoever which the Contracting Authority or UK SBS might have for it, its consequences, and any direct, indirect or consequential loss, damage, costs or expenses resulting from it or its consequences, whether the liability arises under the Contract, in tort or otherwise, and even if it results from the Contracting Authorities or UK SBS's negligence or from negligence for which the Contracting Authority or UK SBS would otherwise be liable.

B8-2 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority is not in breach of the Contract, and neither the Contracting Authority nor UK SBS have any liability for anything, to the extent that the apparent breach or liability is attributable to the Supplier's breach of the Contract.

B8-3 Subject to clause B8-6, neither the Contracting Authority nor UK SBS acting as agent on behalf of the Contracting Authority shall have any liability for:

B8-3-1 any indirect or consequential loss or damage;

- B8-3-2 any loss of business, rent, profit or anticipated savings;
- B8-3-3 any damage to goodwill or reputation;
- B8-3-4 loss, theft, damage or destruction to any equipment, tools, machinery, vehicles or other equipment brought onto the Contracting Authorities premises by or on behalf of the Supplier; or
- B8-3-5 any loss, damage, costs or expenses suffered or incurred by any third party.
- B8-4 Subject to clause B8-6, the Contracting Authority and UK SBS's total liability shall be limited to the price of the Goods.
- B8-5 Subject to clause B8-6, the Supplier's total liability in connection with the Contract shall be limited to £500,000.
- B8-6 Nothing in the Contract restricts either the Contracting Authority, UK SBS or the Supplier's liability for:
- B8-6-1 death or personal injury resulting from its negligence; or
- B8-6-2 its fraud (including fraudulent misrepresentation); or
- B8-6-3 breach of any obligations as to title implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Service Act 1982.

Section C

C1 Confidential information

- C1-1 A party who receives Confidential Information shall keep in strict confidence (both during the term of the Contract and after its expiry or termination) all Confidential Information which is disclosed to it. That party shall only disclose such Confidential Information to those of its employees, agents or subcontractors who need to know the same for the purpose of discharging that party's obligations under the Contract, and shall ensure that such employees, agents or subcontractors shall keep all such information confidential in accordance with this clause C1. Neither party shall, without the prior written consent of the other party, disclose to any third party any Confidential Information, unless the information:
- C1-1-1 was public knowledge or already known to that party at the time of disclosure; or
- C1-1-2 subsequently becomes public knowledge other than by breach of the Contract; or
- C1-1-3 subsequently comes lawfully into the possession of that party from a third party; or
- C1-1-4 is agreed by the parties not to be confidential or to be disclosable.
- C1-2 To the extent necessary to implement the provisions of the Contract (but not further or otherwise), either party may disclose the Confidential Information to any relevant governmental or other authority or regulatory body, provided that before any such disclosure that party shall make those persons aware of its obligations of confidentiality under the Contract and shall use reasonable endeavours to obtain a binding undertaking as to confidentiality from all such persons.

- C1-3 All documents and other records (in whatever form) containing Confidential Information supplied to or acquired by a party from the other party shall be returned promptly to the other party (or, at the election of the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority, destroyed) on expiry or termination of the Contract, and no copies shall be kept.

C2 Transparency

- C2-1 The Supplier acknowledges that the United Kingdom Government's transparency agenda requires that contracts, such as the Contract, and any sourcing document, such as the invitation to sourcing, are published on a designated, publicly searchable website.
- C2-2 The Supplier acknowledges that, except for any information which is exempt from disclosure in accordance with the provisions of FOIA, the content of the Contract is not Confidential Information. The Contracting Authority and or UK SBS acting as an agent on behalf of the Contracting Authority shall be responsible for determining in their absolute discretion whether any of the content of the Contract is exempt from disclosure in accordance with the provisions of FOIA.
- C2-3 Notwithstanding any other term of the Contract, the Supplier hereby consents to the Contracting Authority and or UK SBS acting as an agent on behalf of the Contracting Authority publishing the Contract in its entirety, (but with any information which is exempt from disclosure in accordance with the provisions of FOIA redacted) including from time to time agreed changes to the Contract, to the general public.
- C2-4 Not used

C3 Force majeure

- C3-1 If any event or circumstance that is beyond the reasonable control of the Supplier, and which by its nature could not have been foreseen by the Supplier or, if it could have been foreseen, was unavoidable, (provided that the Supplier shall use all reasonable endeavours to cure any such events or circumstances and resume performance under the Contract) prevent the Supplier from carrying out its obligations under the Contract for a continuous period of more than 10 Business Days, the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority may terminate this Contract immediately by giving written notice to the Supplier.

C4 Corruption

- C4-1 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall be entitled to terminate the Contract immediately and to recover from the Supplier the amount of any loss resulting from such termination if the Supplier or a Supplier's Associate:
- C4-1-1 offers or agrees to give any person working for or engaged by the Contracting Authority, UK SBS or any Public Body any favour, gift or other consideration, which could act as an inducement or a reward for any act or failure to act connected to the Contract, or any other agreement between the Supplier and the Contracting Authority, or UK SBS or any Public Body, including its award to the Supplier or a Supplier's Associate and any of the rights and obligations contained within it;
- C4-1-2 has entered into the Contract if it has knowledge that, in connection with it, any money has been, or will be, paid to any person working for or engaged

by the Contracting Authority, UK SBS or any Public Body by or for the Supplier, or that an agreement has been reached to that effect, unless details of any such arrangement have been disclosed in writing to the Contracting Authority or UK SBS before the Contract is entered into;

C4-1-3 breaches the provisions of the Prevention of Corruption Acts 1889 to 1916, or the Bribery Act 2010; or

C4-1-4 gives any fee or reward the receipt of which is an offence under Section 117(2) of the Local Government Act 1972.

C4-2 For the purposes of clause C4-1, "loss" shall include, but shall not be limited to:

C4-2-1 The Contracting Authorities or UK SBS's costs in finding a replacement supplier;

C4-2-2 direct, indirect and consequential losses; and

C4-2-3 any loss suffered by the Contracting Authority or UK SBS as a result of a delay in its receipt of the Goods.

C5 Data protection

C5-1 The Supplier shall comply at all times with all data protection legislation applicable in the UK from time to time.

C6 Freedom of information

C6-1 The Supplier acknowledges that the Contracting Authority and or UK SBS may be subject to the requirements of FOIA and EIR and shall assist and co-operate with the Contracting Authority and or UK SBS to enable them to comply with its obligations under FOIA and EIR.

C6-2 The Supplier shall and shall procure that its employees, agents, sub-contractors and any other representatives shall provide all necessary assistance as reasonably requested by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority to enable the Contracting Authority or UK SBS to respond to a Request for Information within the time for compliance set out in section 10 of FOIA or regulation 5 of EIR.

C6-3 The Contracting Authority and or UK SBS acting as an agent on behalf of the Contracting Authority shall be responsible for determining (in its absolute discretion) whether any Information:

C6-3-1 is exempt from disclosure in accordance with the provisions of FOIA or EIR;

C6-3-2 is to be disclosed in response to a Request for Information,

and in no event shall the Supplier respond directly to a Request for Information unless expressly authorised to do so in writing by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority.

C6-4 The Supplier acknowledges that the Contracting Authority and or UK SBS may be obliged under the FOIA or EIR to disclose Information, in some cases even where that Information is commercially sensitive:

C6-4-1 without consulting with the Supplier, or

C6-4-2 following consultation with the Supplier and having taken its views into account.

C6-5 Where clause C6-4-2 applies the Contracting Authority and or UK SBS shall, in accordance with any recommendations issued under any code of practice issued under section 45 of FOIA, take reasonable steps, where appropriate, to give the Supplier advanced notice, or failing that, to draw the disclosure to the Supplier's attention as soon as practicable after any such disclosure.

C6-6 Where the Supplier organisation is subject to the requirements of the FOIA and EIR, C6-7 will supersede C6-2 – C6-5. Where the Supplier organisation is not subject to the requirements of the FOIA and EIR, C6-7 will not apply.

C6-7 The Contracting Authority and UK SBS acknowledge that the Supplier may be subject to the requirements of the FOIA and EIR and shall assist and co-operate with the Supplier to enable them to comply with its obligations under the FOIA and EIR.

C7 General

C7-1 Entire agreement.

C7-1-1 The Contract constitutes the entire agreement between the Contracting Authority and the Supplier in relation to the supply of the Goods and the Contract supersedes any earlier agreements, arrangements and understandings relating to that subject matter.

C7-2 Liability.

C7-2-1 Where the Contracting Authority is more than one person, the liability of each such person for their respective obligations and liabilities under the Contract shall be several and shall extend only to any loss or damage arising out of each such person's own breaches.

C7-2-2 Where the Contracting Authority is more than one person and more than one of such persons is liable for the same obligation or liability, liability for the total sum recoverable will be attributed to the relevant persons in proportion to the price payable by each of them under the Contract.

C7-3 Assignment and subcontracting.

C7-3-1 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority may at any time assign, transfer, charge, subcontract or deal in any other manner with any or all of their rights or obligations under the Contract.

- C7-3-2 The Supplier may not assign, transfer, charge, subcontract or deal in any other manner with any or all of its rights or obligations under the Contract, without prior written consent from the Contracting Authority or UK SBS, acting as an agent on behalf of the Contracting Authority.
- C7-4
- C7-4-1 The Supplier will promptly at the request of the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority do (or procure to be done) all such further acts and things, including the execution of all such other documents, as the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority may from time to time require for the purpose of securing for the Contracting Authority the full benefit of the Contract, including ensuring that all title in the Goods is transferred absolutely to the Contracting Authority.
- C7-5 **Publicity.**
- C7-5-1 The Supplier shall not make any press announcements or publicise this Contract in any way without prior written consent from the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority.
- C7-5-2 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall be entitled to publicise this Contract in accordance with any legal obligation upon the Contracting Authority or UK SBS, including any examination of this Contract by the National Audit Office pursuant to the National Audit Act 1983 or otherwise.
- C7-5-3 The Supplier shall not do anything or cause anything to be done, which may damage the reputation of the Contracting Authority or UK SBS or bring the Contracting Authorities or UK SBS's into disrepute.
- C7-6 **Notices.**
- C7-6-1 Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to:
- C7-6-1-a in the case of the Contracting Authority: **Gary Robbins (STFC Head of Procurement)**; Address: **Rutherford Appleton Laboratory, Harwell, Oxford, OX11 0QX**; Email: **gary.robbs@stfc.ac.uk** (and a copy of such notice or communication shall be sent to: **Sarah Li-Rouse (UK SBS Category Procurement Manager)**, Address: **Rutherford Appleton Laboratory, Harwell, Oxford, OX11 0QX**; e-mail: **sarah.li-rouse@uksbs.co.uk** and the Chief Procurement Officer, Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1FF);
- C7-6-1-b in the case of the Supplier: the address, fax number and email address set out in the Order, or any other address, fax number or email address which that party may have specified to the other party in writing in accordance with this clause C7-6, and shall be delivered personally, or sent by pre-paid first-class post, recorded delivery, commercial courier, fax or e-mail.

C7-6-2 A notice or other communication shall be deemed to have been received: if delivered personally, when left at the address referred to in clause C7-6-1; if sent by pre-paid first-class post or recorded delivery, at 9.00 am on the second Working Day after posting; if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed; or, if sent by fax or e-mail between the hours of 9.00am and 5.00pm on a Working Day, upon successful transmission (provided that the sender holds written confirmation automatically produced by the sender's fax machine of error free and complete transmission of that fax to the other party's fax number), or if sent by fax or e-mail outside the hours of 9.00am and 5.00pm on a Working Day, at 9.00am on the next Working Day following successful transmission (provided that the sender holds written confirmation automatically produced by the sender's fax machine of error free and complete transmission of that fax to the other party's fax number).

C7-6-3 This clause C7-6-3 shall only apply where UK SBS is not the Contracting Authority. In such cases, UK SBS may give or receive any notice under the Contract on behalf of the Contracting Authority and any notice given or received by UK SBS will be deemed to have been given or received by the Contracting Authority.

C7-6-4 Except for clause C7-6-5, the provisions of this clause C7-6-4 shall not apply to the service of any proceedings or other documents in any legal action.

C7-6-5 Not used

C7-7 Severance.

C7-7-1 If any court or competent authority finds that any provision of the Contract (or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of the Contract shall not be affected.

C7-7-2 If any invalid, unenforceable or illegal provision of the Contract would be valid, enforceable and legal if some part of it were deleted, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable.

C7-8 **Waiver.** A waiver of any right or remedy under the Contract is only effective if given in writing and shall not be deemed a waiver of any subsequent breach or default. No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or remedy.

C7-9 **No partnership, employment or agency.** Nothing in the Contract creates any partnership or joint venture, nor any relationship of employment, between the Supplier and either the Contracting Authority or UK SBS. Nothing in the Contract creates any agency between the Supplier and either the Contracting Authority or UK SBS.

C7-10 Third party rights. A person who is not a party to this Contract shall not have any rights under or in connection with it, except that UK SBS and any member of the UK SBS, Associated Bodies or Authorised Entities that derives benefit under this Contract may directly enforce or rely on any terms of this Contract.

C7-11 Variation. Any variation to the Contract, including any changes to the Goods, these Conditions, the Special Conditions or the Order, including the introduction of any additional terms and conditions, shall only be binding when agreed in writing by the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority and the Supplier.

C7-12 Governing law and jurisdiction.

C7-12-1 Subject to clause C7-12-2, the Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales

C7-12-2 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority shall be free to enforce its intellectual property rights in any jurisdiction.

C7-13 Modern Slavery Act 2015

C7-13-1 During the Term or any extension of the Contract, the Contracting Authority is committed to ensuring that its supply chain complies with the above Act. The Supplier shall provide such assurances, on the anniversary of the commencement date or completion of the Contract, if less than 12 months.

C7-13-2 The Supplier shall provide a report covering the following but not limited to areas as relevant and proportionate to the Contract evidencing the actions taken, relevant to the Supplier and their supply chain associated with the Contract.

C7-13-2-a Impact assessments undertaken

C7-13-2-b Steps taken to address risk/actual instances of modern slavery and how actions have been prioritised

C7-13-2-c Evidence of stakeholder engagement

C7-13-2-d Evidence of ongoing awareness training

C7-13-2-e Business-level grievance mechanisms in place to address modern slavery

C7-13-2-f Actions taken to embed respect for human rights and zero tolerance of modern slavery throughout the organisation

C7-13-3 The Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority reserves the sole right to audit any and all reports submitted by the Supplier to an extent as deemed necessary and the Supplier shall unreservedly assist the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority in doing so. Any financial burden incurred by the Supplier in doing so shall not be reimbursable.

C7-14 Changes in costs resulting from changes to Government Legislation, Levies or Statutory Payments

The Contracting Authority will reimburse during any term or extension (or, where such costs, awards or damages arise following termination/expiry) of this Agreement, any increases in the Supplier's cost of providing the Goods by reason of any modification or alteration to the Government legislation duties or levies or other statutory payments (including but not limited to National Insurance and/or VAT and/or introduction of or amendment to working time minimum wages). Subject always to open book access to the Supplier's records and always after a period of due diligence carried out by the Contracting Authority, relevant and proportionate to the value concerned.

C7-15 Taxation obligations of the Supplier

C7-15-1 The relationship between the Contracting Authority, UK SBS and the Supplier will be that of "independent contractor" which means that the Supplier is not an employee, worker, agent or partner of the Contracting Authority or UK SBS and the Supplier will not give the impression that they are.

C7-15-2 As this is not an employment Contract the Supplier will be fully responsible for all their own tax including any national insurance contributions arising from carrying out the Services. If the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority the Contracting Authority or UK SBS acting as an agent on behalf of the Contracting Authority the Contracting Authority or UK SBS has to pay, and they will also pay back the Contracting Authority or UK SBS for any fine or other punishment imposed on the Contracting Authority or UK SBS because the tax or national insurance was not paid by the Supplier.

Schedule 1 Special Conditions

Not used

Schedule 2 - Purchase Order Form.

Our order number 4070201863, please see separate attachment 'PR17171 PO 4070201863 Criotec Impianti

The signed specification (issued as part of UKSBS Tender PR17171)

Specification

The technical environment will support

- 1. OUT to start an operation (100% under test pressure)
- 2. OUT to perform operation at 12 mbar (under test pressure)
- 3. To support device under test up to 250kg
- 4. Standards of structural walls <4K
- 5. Rate of change of wall temperature <10K/hr
- 6. Operation of fixed temperature
- 7. Wall temperature suitable to 50K or better
- 8. Temperature range (10K to 300K)
- 9. Total pressure not less than 100Pa or better
- 10. OUT electrical heater test of 250W or better
- 11. CUT lead through steel wall 3-10x4mm (1mm diameter wire)
- 12. See criteria for height > 100mm (max diameter < 100mm)
- 13. Inner diameter bottom > 100mm from top edge of inner diameter
- 14. 50 mbar fit was possible
- 15. 50 mbar fit was possible
- 16. If enclosed design, the vacuum jacket shall be 100% leak tight
- 17. As a guide, the vacuum jacket shall be 100% leak tight
- 18. Panel 100% leak tight in 2 min room temp
- 19. Panel 100% leak tight in 2 min room temp
- 20. Panel 100% leak tight in 2 min room temp
- 21. Device may be made by 30" plate 2018
- 22. Device may be made by 30" plate 2018
- 23. 100% leak tight in 2 min room temp
- 24. 100% leak tight in 2 min room temp
- 25. 100% leak tight in 2 min room temp

1. Lifting equipment

- See drawing
- If supplier chooses to use lifting equipment please cost as separate item

2. Support frame

- See drawing

3. Outer chamber (upper half for easy)

- Stainless steel equipment
- Bore for acceptance
- Lifting eyes

Schedule 3 - Specification Requirement and Project Deliverables.

This contract is for the supply, delivery, installation, commissioning and training of Qty One Space Calibration Cryostat.

The agreed specification (issued as part of UKSBS Tender PR17171)

Specification

The isothermal environment will support:

1. DUT in vacuum operation 1×10^{-6} mbar base pressure
2. DUT in Helium operation at 12 mbar ± 5 mbar (to speed DUT calibration)
3. To support device under test up to 250Kg
4. Gradients of isothermal walls < 4 K
5. Rate of change of wall temperature > 10 K/hr
6. Operation at fixed temperature
7. Wall temperature settable to 500mK or better
8. Temperature range (70K to 390K)
9. Total pump out port area equivalent to 2x DN40 or better
10. DUT electrical heater feed of > 250 watts at 50V
11. DUT feed though signal wires, $> 49 \times 4$ pairs 0.1mm diameter wire
12. Size cylinder inner height > 750 mm inner diameter > 700 mm
13. Inner cylinder bottom at 700mm from laboratory floor, with second adjustment to 915mm
14. All metric fittings were possible
15. All manufacturing drawings to be delivered to customer for checking before manufacture. Final manufacturing drawings to be delivered as pdfs and stp files
16. If proposed design uses vacuum jacket thermal isolation, DN200 ports are required as example solution (upper bell jar assembly)
17. Assembly possible with hoist in 3.5m room height
18. Parts > 25 Kg or bulky parts to be supplied with certified and load tested lifting eyes and/or lifting points. Any required spreader devices to be certified and load tested
19. Maximum component weight (for lifting hoist) < 500 Kg
20. Equipment will not tip over with 1000Nm applied to top of vessel or suitable health and safety regulation meet
21. Delivery must be made by 30th March 2018
22. Gradients of isothermal wall (< 4 K)
23. Stability at fixed temperature (over 1hr < 1 K)
24. Stability at fixed point reached in for 20K step (10 hrs as a minimum)
25. Isothermal pump out port area equivalent to (2500mm² as a minimum)

Implementation example

1. Lifting equipment

- See drawings
- If supplier choose to use lifting equipment please cost as separate item

2. Support frame

- See drawings

3. Outer chamber (upper bell jar assy)

- Stainless 316 or equivalent
- Brushed finish acceptable
- Lifting eye(s)

- 6 DN200 optical feed through with blank ports to allow beam access from laboratory (future expansion)

4. Well section (Riser assy)

- Stainless 316 or equivalent
- Brushed finish acceptable
- Lifting eye(s)
- Upper sealing face (to outer chamber) to contain elastomer o-ring groove

5. Base

- Stainless 316 or equivalent
- Brushed finish acceptable
- Lifting eye(s)
- With 1 Cold head flange (See drawings)
- Flanges (see drawings). Suggested flange assignment supplier to assign
 - Flange 1: DN200 with adapters for Cyro head
 - Flange 2: Angled DN200 50 wires to D-type to outside of isothermal chamber
 - Flange 3: Flat DN200 Spare
 - Flange 4: Flat DN200 liquid connectors for Inner chamber (1) 2 pipes >12mm ID suitable for -173C to 390K (for latter expansion)
 - Flange 5: Elbow DN160 or bigger Main pumping flange
 - Flange 6: Angled DN200 with KF25 vacuum gauge connection to outer vacuum space, DN63CF (note this supersedes DN40 on drawings) He feed through to mate to stainless flexible hose to platter
 - Flange 7: Angled DN200. With DN63CF (note this supersedes DN40 on drawings) to contain electrical feed through to mate to stainless flexible hose to platter (10x25 way D type to DUT) Airside adapter or similar to contain feed through of 250wires
- Upper sealing face (to well section or outer chamber) to contain elastomer o-ring groove

6. Harnessing

- Maximum thermal load on platter from harness to base <1.2 Watts
- Base to DUT
 - 2m or longer vacuum signal harness, terminated in 9x25way D-type at DUT. Use fine gauge wire <0.1mm diameter Cu conductors to reduce thermal load on platter
 - 2m or longer vacuum heater harness, terminated in 1x25way D-type to DUT. Wire suitable for 5A at 50V per conductor under vacuum
- Base to platter
 - 1m vacuum signal harness, to connect base to bottom of isothermal chamber terminated in 1x25way D-type at isothermal chamber. Use fine gauge wire <0.1mm diameter Cu conductors to reduce thermal load on platter
 - 1m vacuum signal harness, to connect base to bottom of isothermal chamber terminated in 1x25way D-type at isothermal chamber. Wire suitable for 5A at 50V per conductor under vacuum
- Platter to heaters and sensors (mates to base to platter harnesses)
 - 2m vacuum signal flying harness, terminated in male 1x25way D-type on one end to connect bottom of isothermal chamber to PT100 sensors
 - 1m vacuum heater flying harness, terminated in male 1x25way D-type to connect platter heaters). Wire suitable for 5A at 50V per conductor under vacuum

7. Isothermal temperature controlled platter (platter)

- PCDs for thermal strap connections (See drawings)
- Aluminium alloy (with a good thermal conductivity)
- Emissivity <0.2 (passivated)
- To fit Isothermal Inner chamber and be helium tight (drawings show indium seal)
- 30mm thick
- Lifting points.
- Metal clad power resistors: drill for HS50 Arcol power resistors, see drawing.
- 250 way electrical pass through. Suggest running through stainless steel bellows to flange 6. See harnessing for spec. Worst case thermal leak between platter and base 1 Watt, from bellows
- Prefer 1x DN63 or larger helium port connection (drawings show DN40). Suggest running through stainless steel bellows to flange 6. Worst case thermal leak between platter and base 1 Watt, from bellows

8. Isothermal chamber (inner bell jar assy)

- High thermal conductivity jacket
- Low temperature range 70K to 390K
- Aluminium alloy same alloy as isothermal temperature controlled platter. High conductivity material and thickness chosen to achieve specified gradients of <4K. See minimum thickness 10mm to achieve thermal gradients of <4K
- Inner and outer surface Emissivity <0.2 (passivated)
- Lifting eye(s), Load tested

9. Isothermal chamber thermal isolator legs

- Free issued from STFC
- Thermal conductance between base and Inner temperature controlled platter <2 Watt thermal leak

10. MLI

- Free issued from STFC
- Will cover base and isothermal chamber

11. Outer vacuum pumping

- Pumps free issued.
- Evacuate to 10^{-5} mbar in 5 hours. Ultimate vacuum 10^{-6} mbar or better. Dry pumping system
- Wide range gauge 1atm to 10^{-7} mbar or better
- Supplier will supply Isolating gate valve to chamber, automatic activated based on chamber pressure

12. Cryohead

- Free issued
- CH100 shicryogenics paired with suitable compressor

13. Helium system

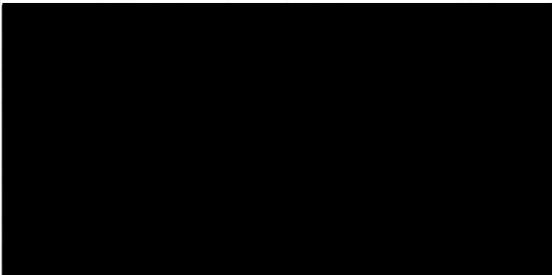
- Electronic gauge for measuring pressure in inner vessel
- At least DN63 stainless steel flexible bellow to connect platter to base (Flange 6). Worst case thermal leak between platter and base 1 Watt
- Suitable flexible lines to helium system
- STFC will free issue system to fill isothermal chamber to $12\text{mbar} \pm 5\text{mbar}$ of helium or evacuate to 10^{-5} mbar in 2 hrs

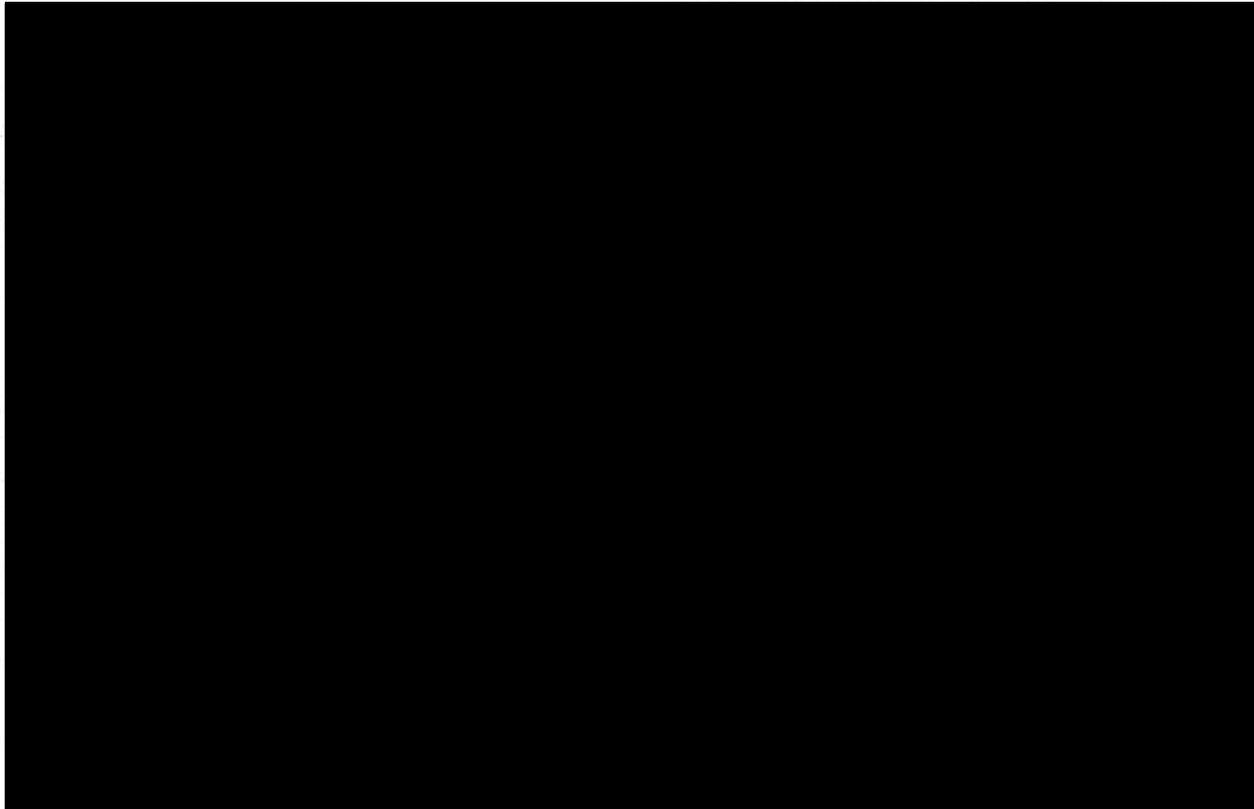
14. Control system (Customer supplied)

- Eurotherm Unit (STFC supplied)

The attached documents and links provide further information that may be useful:

- 3D KE-0304-001 (pdf)
- 3D Lifting Frame (pdf)
- KE-0304-001-A (pdf)
- Lifting Frame (pdf)
- Lifting Frame (Stp file)
- https://drive.google.com/open?id=1KoFyTi3TetFrF85izl7t4udBjH9y61_7
- Supplier bid response to tender PR17171, including all attachments and answered questions.

Contract Price (inc. all delivery and any other associated costs)	£69,600.00 ex-VAT Shipping costs through to final destination to be included. No additional handling charges or importation duty.
Delivery	The Rutherford Appleton Laboratory Harwel Campus. Harwell, Oxfordshire OX11 0QX. By 20 th June 2018
Warranty	12 month warranty will apply from date of STFC Final Acceptance of all items.
Reporting Schedule	The Supplier and the customer will agree a progress reporting schedule for the duration of the contract. STFC at RAL Contact Details: 
Contract Variation	This Contract may be varied – in specification or dates – by mutual agreement between both parties.



All invoices must reference the Purchase Order and be addressed to:

STFC – The Science & Technology Facilities Council
c/o UK SBS Ltd
Polaris House
North Star Avenue
Swindon
Wiltshire
SN2 1UH.

Finance contact details: finance@uksbs.co.uk phone : +44 (0) 1793 867004.

Contract PR17171 –
Acceptance & Signature.

for and on behalf of
**The Science and Technology
Facilities Council**

Signed

Name

Position

Date

.....
[REDACTED]
.....
Procurement Business Partner
.....

27-03-2018
.....

for and on behalf of
CRIOTEC IMPANTI S.p.A

Signed

Name

Position

Date

.....
[REDACTED] **CRIOTEC IMPIANTI S.p.A.**
.....
Via F. Parigi 32/a - 10034 CHIVASSO (TO)
Tel. 011.9195200 - 011.9195182
Fax 011.9195885
P.IVA/VAT 05608500012

.....
SALES MANAGER
.....

22/03/2018
.....

THIS IS THE LAST PAGE OF THESE TERMS & CONDITIONS

for and on behalf of
The Science and Technology
Facilities Council

Signed

Name

Position

Date

for and on behalf of
CRIOTEC IMPIANTI S.p.A.

Signed

Name

Position

Date

CRIOTEC IMPIANTI S.p.A.
Via F. Perugino 32/a - 10034 CHIVASSO (TO)
Tel. 011.9192300 - 011.9192302
Fax 011.9192882
P.IVA / VAT 0260500012

M. P. (Signature)
ROVETA FABRIZIO
SALES MANAGER
22/04/2012