

Invitation to Quote

Invitation to Quote (ITQ) on behalf of UK Research & Innovation
Subject UKRI RE18212 Rod Amplifier Flashlamps
Sourcing reference number RE18212



UK Shared Business Services Ltd (UK SBS)
www.uksbs.co.uk

Registered in England and Wales as a limited company. Company Number 6330639.
Registered Office Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1FF
VAT registration GB618 3673 25
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Table of Contents

Section	Content
1	<u>About UK Shared Business Services Ltd.</u>
2	<u>About the Contracting Authority</u>
3	<u>Working with the Contracting Authority.</u>
4	<u>Specification</u>
5	<u>Evaluation model</u>
6	<u>Evaluation questionnaire</u>
7	<u>General Information</u>
Appendix	Appendix A – Transformer trigger Appendix B – Rod flash lamp assembly

Section 1 – About UK Shared Business Services

Putting the business into shared services

UK Shared Business Services Ltd (UK SBS) brings a commercial attitude to the public sector; helping Contracting Authorities improve efficiency, generate savings and modernise.

It is our vision to become the leading service provider for Contracting Authorities for shared business services in the UK public sector, continuously reducing cost and improving quality of business services for Government and the public sector.

Our broad range of expert services is shared by our Contracting Authorities. This allows Contracting Authorities the freedom to focus resources on core activities; innovating and transforming their own organisations.

Core services include Procurement, Finance, Grants Admissions, Human Resources, Payroll, ISS, and Property Asset Management all underpinned by our Service Delivery and Contact Centre teams.

UK SBS is a people rather than task focused business. It's what makes us different to the traditional transactional shared services centre. What is more, being a not-for-profit organisation owned by the Department for Business, Energy & Industrial Strategy (BEIS), UK SBS' goals are aligned with the public sector and delivering best value for the UK taxpayer.

UK Shared Business Services Ltd changed its name from RCUK Shared Services Centre Ltd in March 2013.

Our Customers

Growing from a foundation of supporting the Research Councils, 2012/13 saw Business, Energy and Industrial Strategy (BEIS) transition their procurement to UK SBS and Crown Commercial Services (CCS – previously Government Procurement Service) agree a Memorandum of Understanding with UK SBS to deliver two major procurement categories (construction and research) across Government.

UK SBS currently manages £700m expenditure for its Contracting Authorities.

Our Contracting Authorities who have access to our services and Contracts are detailed [here](#).

Section 2 – About the Contracting Authority

UK Research and Innovation

Operating across the whole of the UK and with a combined budget of more than £6 billion, UK Research and Innovation represents the largest reform of the research and innovation funding landscape in the last 50 years.

As an independent non-departmental public body UK Research and Innovation brings together the seven Research Councils (AHRC, BBSRC, EPSRC, ESRC, MRC, NERC, STFC) plus Innovate UK and a new organisation, Research England.

UK Research and Innovation ensures the UK maintains its world-leading position in research and innovation. This is done by creating the best environment for research and innovation to flourish.

For more information, please visit: www.ukri.org

Section 3 - Working with the Contracting Authority.

In this section you will find details of your Procurement contact point and the timescales relating to this opportunity.

Section 3 – Contact details		
3.1	Contracting Authority Name and address	UK Research & Innovation Polaris House North Star Avenue Swindon SN2 1FL
3.2	Buyer name	Karl Oakley
3.3	Buyer contact details	Research.Tenders@UKSBS.co.uk
3.4	Maximum value of the Opportunity	£90,000.00 Excluding VAT.
3.5	Process for the submission of clarifications and Bids	All correspondence shall be submitted within the Emptoris e-sourcing tool. Guidance Notes to support the use of Emptoris is available here. Please note submission of a Bid to any email address including the Buyer <u>will</u> result in the Bid <u>not</u> being considered.

Section 3 - Timescales		
3.6	Date of Issue of Contract Advert and location of original Advert	Tuesday 22 nd May 2018 Contracts Finder
3.7	Latest date/time ITQ clarification questions shall be received through Emptoris messaging system	Wednesday 6 th June 2018 14.00
3.8	Latest date/time ITQ clarification answers should be sent to all Bidders by the Buyer through Emptoris	Thursday 7 th June 2018
3.9	Latest date/time ITQ Bid shall be submitted through Emptoris	Wednesday 13 th June 2018 11.00
3.10	Anticipated Award date	Thursday 21 st June 2018
3.11	Anticipated Contract Start date	Wednesday 27 th June 2018
3.12	Anticipated Contract End date	Sunday 31 st March 2019
3.13	Bid Validity Period	60 Days

Section 4 – Specification

FLASHLAMPS FOR LASER ROD AMPLIFIERS

UKRI wish to purchase rod amplifier flashlamps, as specified below.

The Contract is a MAXIMUM contract value of £90,000.00 excluding VAT over a 3 year period. It is anticipated that an estimated £30,000.00 of this budget will be spent this financial year, ending 31st March 2019. The total number ordered will be dependent on the outcome of the tender.

1.0 GENERAL

1.1 Purpose

This specification defines requirements for the design, fabrication and testing of Xenon flashlamps to be used in laser rod amplifiers by the STFC Rutherford Appleton Laboratory (RAL).

1.2 Use of lamps

To pump 16 mm diameter to 45 mm diameter liquid cooled Nd:phosphate glass laser amplifiers at energies in the range shown in the table below.

1.3 Application

Discharge Energy range required

Voltage	Capacitance	Pulse length	Energy
1500 V dc	480 µF	400 µsec	540 J
2500 V dc	480 µF	400 µ sec	1500 J

2.0 APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein.

2.1 RAL Drawing

SL-2300-220 Rod Flash Lamp Assembly

See Appendix B

3.0 PERFORMANCE REQUIREMENTS

3.1 Flexible Leads

The flexible leads shall be encased in Silicon to 6mm overall diameter with an insulation rating of 40 kv, the core shall nominally be 19/30spc construct as provided by Dielectric Sciences cable number 2012. The length of cable attached to each end of the lamp shall be 1m, and each free end shall be fitted with a cylindrical brass ferrule to provide clean termination. The external diameter of the ferrule shall be 2.25 (+0.00, - 0.25) mm with a nominal length of 7mm, and it will be solder connected to the core in such a way that the solder does not run back along the cable in the direction of the lamp. The lamp electrode polarity shall be indicated with a red or black sleeve to indicate lamp anode and cathode respectively.

3.2 Dimensions

As per RAL drawings SL-2300-220 (Appendix B)

3.2.1 Envelope

Cerium doped quartz of type M382 or equivalent

Tubing internal diameter 10 (+/-0.5) mm.

Tubing wall thickness 1.25 (+/-0.05) mm

Bow < 0.5 mm per lamp length

Open bubbles None on inner surface

None on outer surface

Inclusions None

Scratches <0.2 mm wide

<10.0 mm long

<120 degrees when around circumference

<180 degrees around circumference per 10 mm length

Cracks Free of detectable cracks at 7x magnification

Impurities on surfaces None

Strain <10 nm/cm

Transmission through a 1.5 mm thick wall

>90% between 450 nm and 1.0 μ m

<83% at 370 nm

<8% at 315 nm

<40% between 315 nm and 190 nm

Overall tube length 240 (+/- 2) mm

Overall length of lamp 280 (+/- 2) mm, nominally

No part of the flashlamp shall extend beyond the cylindrical envelope established by the insulated base, throughout the full length of the lamp.

3.2.2 Insulated Thimble

To seal lamp electrode against ingress of coolant whilst also providing coolant seal between the thimble and lamp housing in the amplifier head. The insulated thimble shall be parallel and concentric with respect to the envelope of the flashlamp to within ± 0.3 mm when supported at insulated thimbles. The lamp shall be capable of being completely supported by the insulated base during operation and testing. The thimble shall not turn with respect to the quartz envelope.

3.3 DC Insulation

Voltage Rating: The lamps and flexible lead shall provide insulation for positive 40 kVdc applied for 1 minute to the electrodes with a ground plane placed in contact with the lamp over its full length (exclusive of lead ends).

3.4 Gas Fill

The lamps shall be filled with xenon gas. Research-grade xenon shall be used. The fill pressure shall be 300 ± 15 torr at 25 ± 5 degrees C. Trace gases shall not be of the type which will modify the spectral distribution or intensity of the arc during the operating life defined in Paragraph 3.5.

3.5 Design Energy

The lamps shall be designed to have a nominal explosion energy $\{E_{Exp}\}$ parameter of 6 kJ to provide operation at approximately 25% E_{Exp} when discharged at full charge voltage of 2.5kv giving a charge energy of 1.5kJ.

Nominal Flash-Lamp Dynamic Characteristics:

K0	E_x	E_{omax}	I_{pk}
24	6.0kJ	1.5kJ	3.6kA

3.6 Operating Life

By definition the lamp design and operating parameters will give a lamp life expectancy of greater than 10s pulses.

3.7 Shelf Life

The shelf life of the flashlamps shall be at least 5 years from date of acceptance by RAL. This life shall be independent of the number of operating cycles defined in Paragraph 3.5.

3.8 Strain

The birefringence in the quartz tubing after a lamp has been assembled shall be less than 20 nm/cm ($\lambda = 546$ nm, thickness = 2.5 mm).

3.9 Triggering

The flash-lamps shall trigger with no failures when operated in the circuit shown in Appendix A. with the capacitor charged to a minimum of 1500 volts or a maximum of 2500 volts.

3.10 Marking

The anode flying lead of each lamp shall be permanently marked with the seller's name or identification, lamp model number, batch number and a serial number for each lamp. Serial numbers shall not be reissued or repeated in any future RAL orders. The anode and cathode ends of the lamp shall be permanently marked with red and black respectively.

3.11 Documentation

The seller, upon request, shall provide complete drawings and other applicable documents used in manufacture of the flashlamps, for review by RAL personnel at the seller's facility. Copies of drawings of the flashlamps and subassemblies shall be furnished to RAL.

For a period of at least two years after final delivery of items, seller shall maintain documentation associated with design, processes, and inspection techniques available to RAL.

3.12 Environment

The lamps shall be designed to operate in a 50% water 50% glycol environment over a temperature range of 0 degrees to 110 degrees C and a pressure range of 730 to 790 torr.

4 QUALITY ASSURANCE PROVISIONS

4.1 Seller's Responsibility for Inspection

The seller shall be responsible for performing inspection and tests to assure conformance with this specification and providing test data to RAL. RAL reserves the right to perform inspections or tests where deemed necessary to assure conformance with this specification.

The inspections specified herein are intended to be of a minimal nature and in no way restricts the seller from performing a more complete inspection procedure.

4.1.1 Acceptance Test

Flashlamps shall be tested for RAL acceptance, by the seller, in maximum batches of 50. More than 20% failures in a batch during acceptance tests shall be cause for rejection of the whole batch.

All flashlamps in each batch shall be tested as follows:

4.1.1.1 DC Insulation

The flashlamp shall be placed in contact with a ground plane over its full length (exclusive of lead ends). 40 kVdc positive voltage shall be applied to both for one minute.

4.1.1.2 Infant Mortality Test

The lamps shall be tested either at factory or the Central Laser Facility (CLF) for a minimum of 50 pulses under the following conditions:

The lamp shall be supported by the insulated end thimbles with the cables clear of the lamp tubing. The lamps shall be tested individually in a circuit as shown in Appendix A, with lamp cooling provided through free air convection.

The capacitors shall initially be charged to the minimum level of 1500v for 10 pulses. The charge shall then be raised to the nominal working level required 2100v for 30 pulses, and finally raised to maximum 2500v for 10 pulses. For the duration of this test the lamps shall endure operation at 2min repartition rate.

For the purpose of performance evaluation and characterisation 6 lamps shall then be built into a 16mm amplifier and tested on line at the CLF.

The vendor at no expense to the CLF shall replace all failed lamps.

Upon acceptance and thereafter lamps will be tested at the CLF by random selection of a small number from each batch of lamps purchased.

4.1.1.3 Crack Inspection

Seven days after the completion of Infant mortality tests, the lamps shall be examined for cracks. Any detectable crack at 7x magnification shall be cause for rejection.

4.2 RAL ACCEPTANCE

RAL reserves the right to perform any or all of the inspections below, at its facilities, and to reject any flashlamps found defective.

4.2.1 Strain test to verify the conditions of Section 3.8.

4.2.2 DC insulation test to verify the conditions of Section 4.1.1.1.

4.2.3 Infant mortality test to verify Section 4.1.1.2.

4.2.4 Tesla coil test to verify gas fill as in Section 3.4.

4.2.5 Tests to verify any other specified parameter or dimension.

4.2.6 In addition, lamps which fail prior to 50 discharges or within two years, whichever occurs first, under conditions equal to or less severe than those defined in Paragraph 4.1.1.2, shall be returnable to the seller for credit.

5 PACKAGING

5.1 The flashlamps shall be suitably packaged for shipment in a manner that will prevent damage during normal commercial air or surface transportation.

5.2 Each package may contain multiple flashlamps, but shall not exceed a total package weight of 20 kg.

5.3 When more than one flashlamp is packed in a container, lamps shall be physically separated by suitable shock-absorbing (cushioning) material. The cushioning material used shall not adhere to, or chemically react with, any of the materials used in the flashlamps.

5.4 Each package container shall be clearly labelled with at least the following information.

5.4.1 Name of manufacturer

5.4.2 Date of manufacturer

5.4.3 RAL specification number, ROD FLASHLAMP 04-1.

5.4.4 RAL purchase order number

5.4.5 Flashlamp type

5.4.6 Serial number(s) of lamp(s) included in the package

5.4.7 Quantity of lamps included in the package (if more than one)

Terms and Conditions

Bidders are to note that any requested modifications to the Contracting Authority Terms and Conditions on the grounds of statutory and legal matters only, shall be raised as a formal clarification during the permitted clarification period.

Section 5 – Evaluation model

The evaluation model below shall be used for this ITQ, which will be determined to two decimal places.

Where a question is 'for information only' it will not be scored.

The evaluation team may comprise staff from UK SBS, and the Contracting Authority ----- and any specific external stakeholders the Contracting Authority deems required. After evaluation the scores will be finalised by performing a calculation to identify (at question level) the mean average of all evaluators (Example – a question is scored by three evaluators and judged as scoring 5, 5 and 6. These scores will be added together and divided by the number of evaluators to produce the final score of 5.33 (5+5+6 =16÷3 = 5.33)

Pass / fail criteria		
Questionnaire	Q No.	Question subject
Commercial	SEL1.2	Employment breaches/ Equality
Commercial	SEL3.11	Compliance to Section 54 of the Modern Slavery Act
Commercial	SEL3.13	General Data Protection Regulations (GDPR)
Commercial	FOI1.1	Freedom of Information Exemptions
Commercial	AW1.1	Form of Bid
Commercial	AW1.3	Certificate of Bona Fide Bid
Commercial	AW3.1	Validation check
Commercial	AW4.1	Contract Terms Part 1
Commercial	AW4.2	Contract Terms Part 2
Price	AW5.5	E Invoicing
Price	AW5.6	Implementation of E-Invoicing
Quality	AW6.1	Compliance to the Specification
-	-	Invitation to Quote – received on time within e-sourcing tool

Scoring criteria			
Evaluation Justification Statement			
In consideration of this particular requirement the Contracting Authority has decided to evaluate Potential Providers by adopting the weightings/scoring mechanism detailed within this ITQ. The Contracting Authority considers these weightings to be in line with existing best practice for a requirement of this type.			
Questionnaire	Q No.	Question subject	Maximum Marks
Price	AW5.2	Price	90%
Quality	PROJ1.1	Quality	10%

Evaluation of criteria

Non-Price elements

Each question will be judged on a score from 0 to 100, which shall be subjected to a multiplier to reflect the percentage of the evaluation criteria allocated to that question.

Where an evaluation criterion is worth 20% then the 0-100 score achieved will be multiplied by 20%.

Example if a Bidder scores 60 from the available 100 points this will equate to 12% by using the following calculation:

$$\text{Score} = \{\text{weighting percentage}\} \times \{\text{bidder's score}\} = 20\% \times 60 = 12$$

The same logic will be applied to groups of questions which equate to a single evaluation criterion.

The 0-100 score shall be based on (unless otherwise stated within the question):

0	The Question is not answered or the response is completely unacceptable.
10	Extremely poor response – they have completely missed the point of the question.
20	Very poor response and not wholly acceptable. Requires major revision to the response to make it acceptable. Only partially answers the requirement, with major deficiencies and little relevant detail proposed.
40	Poor response only partially satisfying the selection question requirements with deficiencies apparent. Some useful evidence provided but response falls well short of expectations. Low probability of being a capable supplier.
60	Response is acceptable but remains basic and could have been expanded upon. Response is sufficient but does not inspire.
80	Good response which describes their capabilities in detail which provides high levels of assurance consistent with a quality provider. The response includes a full description of techniques and measurements currently employed.
100	Response is exceptional and clearly demonstrates they are capable of meeting the requirement. No significant weaknesses noted. The response is compelling in its description of techniques and measurements currently employed, providing full assurance consistent with a quality provider.

All questions will be scored based on the above mechanism. Please be aware that the final score returned may be different as there may be multiple evaluators and their individual scores will be averaged (mean) to determine your final score.

Example

Evaluator 1 scored your bid as 60

Evaluator 2 scored your bid as 60

Evaluator 3 scored your bid as 40

Evaluator 4 scored your bid as 40

Your final score will $(60+60+40+40) \div 4 = 50$

Price elements will be judged on the following criteria.

The lowest price for a response which meets the pass criteria shall score 100. All other bids shall be scored on a pro rata basis in relation to the lowest price. The score is then subject to a multiplier to reflect the percentage value of the price criterion.

For example - Bid 1 £100,000 scores 100.

Bid 2 £120,000 differential of £20,000 or 20% remove 20% from price scores 80

Bid 3 £150,000 differential £50,000 remove 50% from price scores 50.

Bid 4 £175,000 differential £75,000 remove 75% from price scores 25.

Bid 5 £200,000 differential £100,000 remove 100% from price scores 0.

Bid 6 £300,000 differential £200,000 remove 100% from price scores 0.

Where the scoring criterion is worth 50% then the 0-100 score achieved will be multiplied by 50.

In the example if a supplier scores 80 from the available 100 points this will equate to 40% by using the following calculation: Score/Total Points multiplied by 50 ($80/100 \times 50 = 40$)

The lowest score possible is 0 even if the price submitted is more than 100% greater than the lowest price.

Section 6 – Evaluation questionnaire

Bidders should note that the evaluation questionnaire is located within the **e-sourcing questionnaire**.

Guidance on completion of the questionnaire is available at <http://www.ukpbs.co.uk/services/procure/Pages/supplier.aspx>

PLEASE NOTE THE QUESTIONS ARE NOT NUMBERED SEQUENTIALLY

Section 7 – General Information

What makes a good bid – some simple do's 😊

DO:

- 7.1 Do comply with Procurement document instructions. Failure to do so may lead to disqualification.
- 7.2 Do provide the Bid on time, and in the required format. Remember that the date/time given for a response is the last date that it can be accepted; we are legally bound to disqualify late submissions. Unless formally requested to do so by UK SBS e.g. Emptoris system failure
- 7.3 Do ensure you have read all the training materials to utilise e-sourcing tool prior to responding to this Bid. If you send your Bid by email or post it will be rejected.
- 7.4 Do use Microsoft Word, PowerPoint Excel 97-03 or compatible formats, or PDF unless agreed in writing by the Buyer. If you use another file format without our written permission we may reject your Bid.
- 7.5 Do ensure you utilise the Emptoris messaging system to raise any clarifications to our ITQ. You should note that we will release the answer to the question to all Bidders and where we suspect the question contains confidential information we may modify the content of the question to protect the anonymity of the Bidder or their proposed solution
- 7.6 Do answer the question, it is not enough simply to cross-reference to a 'policy', web page or another part of your Bid, the evaluation team have limited time to assess bids and if they can't find the answer, they can't score it.
- 7.7 Do consider who the Contracting Authority is and what they want – a generic answer does not necessarily meet every Contracting Authority's needs.
- 7.8 Do reference your documents correctly, specifically where supporting documentation is requested e.g. referencing the question/s they apply to.
- 7.9 Do provide clear, concise and ideally generic contact details; telephone numbers, e-mails and fax details.
- 7.10 Do complete all questions in the questionnaire or we may reject your Bid.
- 7.11 Do check and recheck your Bid before dispatch.

What makes a good bid – some simple do not's

DO NOT

- 7.12 Do not cut and paste from a previous document and forget to change the previous details such as the previous buyer's name.
- 7.13 Do not attach 'glossy' brochures that have not been requested, they will not be read unless we have asked for them. Only send what has been requested and only send supplementary information if we have offered the opportunity so to do.
- 7.14 Do not share the Procurement documents, they are confidential and should not be shared with anyone without the Buyers written permission.
- 7.15 Do not seek to influence the procurement process by requesting meetings or contacting UK SBS or the Contracting Authority to discuss your Bid. If your Bid requires clarification the Buyer will contact you. All information secured outside of formal Buyer communications shall have no Legal standing or worth and should not be relied upon.
- 7.16 Do not contact any UK SBS staff or the Contracting Authority staff without the Buyers written permission or we may reject your Bid.
- 7.17 Do not collude to fix or adjust the price or withdraw your Bid with another Party as we will reject your Bid.
- 7.18 Do not offer UK SBS or the Contracting Authority staff any inducement or we will reject your Bid.
- 7.19 Do not seek changes to the Bid after responses have been submitted and the deadline for Bids to be submitted has passed.
- 7.20 Do not cross reference answers to external websites or other parts of your Bid, the cross references and website links will not be considered.
- 7.21 Do not exceed word counts, the additional words will not be considered.
- 7.22 Do not make your Bid conditional on acceptance of your own Terms of Contract, as your Bid will be rejected.

Some additional guidance notes

- 7.23 All enquiries with respect to access to the e-sourcing tool and problems with functionality within the tool must be submitted to Crown Commercial Service (previously Government Procurement Service), Telephone 0345 010 3503.
- 7.24 Bidders will be specifically advised where attachments are permissible to support a question response within the e-sourcing tool. Where they are not permissible any attachments submitted will not be considered as part of the evaluation process.
- 7.25 Question numbering is not sequential and all questions which require submission are included in the Section 6 Evaluation Questionnaire.
- 7.26 Any Contract offered may not guarantee any volume of work or any exclusivity of supply.
- 7.27 We do not guarantee to award any Contract as a result of this procurement
- 7.28 All documents issued or received in relation to this procurement shall be the property of the Contracting Authority. / UKSBS.
- 7.29 We can amend any part of the procurement documents at any time prior to the latest date / time Bids shall be submitted through Emptoris.
- 7.30 If you are a Consortium you must provide details of the Consortiums structure.
- 7.31 Bidders will be expected to comply with the Freedom of Information Act 2000 or your Bid will be rejected.
- 7.32 Bidders should note the Government's transparency agenda requires your Bid and any Contract entered into to be published on a designated, publicly searchable web site. By submitting a response to this ITQ Bidders are agreeing that their Bid and Contract may be made public
- 7.33 Your bid will be valid for 60 days or your Bid will be rejected.
- 7.34 Bidders may only amend the contract terms during the clarification period only, only if you can demonstrate there is a legal or statutory reason why you cannot accept them. If you request changes to the Contract terms without such grounds and the Contracting Authority fail to accept your legal or statutory reason is reasonably justified we may reject your Bid.
- 7.35 We will let you know the outcome of your Bid evaluation and where requested will provide a written debrief of the relative strengths and weaknesses of your Bid.
- 7.36 If you fail mandatory pass / fail criteria we will reject your Bid.
- 7.37 Bidders are required to use IE8, IE9, Chrome or Firefox in order to access the functionality of the Emptoris e-sourcing tool.
- 7.38 Bidders should note that if they are successful with their proposal the Contracting Authority reserves the right to ask additional compliancy checks prior to the award of

any Contract. In the event of a Bidder failing to meet one of the compliancy checks the Contracting Authority may decline to proceed with the award of the Contract to the successful Bidder.

- 7.39 All timescales are set using a 24 hour clock and are based on British Summer Time or Greenwich Mean Time, depending on which applies at the point when Date and Time Bids shall be submitted through Emptoris.
- 7.40 All Central Government Departments and their Executive Agencies and Non Departmental Public Bodies are subject to control and reporting within Government. In particular, they report to the Cabinet Office and HM Treasury for all expenditure. Further, the Cabinet Office has a cross-Government role delivering overall Government policy on public procurement - including ensuring value for money and related aspects of good procurement practice.

For these purposes, the Contracting Authority may disclose within Government any of the Bidders documentation/information (including any that the Bidder considers to be confidential and/or commercially sensitive such as specific bid information) submitted by the Bidder to the Contracting Authority during this Procurement. The information will not be disclosed outside Government. Bidders taking part in this ITQ consent to these terms as part of the competition process.

- 7.41 The Government is introducing its new Government Security Classifications (GSC) classification scheme on the 2nd April 2014 to replace the current Government Protective Marking System (GPMS). A key aspect of this is the reduction in the number of security classifications used. All Bidders are encouraged to make themselves aware of the changes and identify any potential impacts in their Bid, as the protective marking and applicable protection of any material passed to, or generated by, you during the procurement process or pursuant to any Contract awarded to you as a result of this tender process will be subject to the new GSC. The link below to the Gov.uk website provides information on the new GSC:

<https://www.gov.uk/government/publications/government-security-classifications>

The Contracting Authority reserves the right to amend any security related term or condition of the draft contract accompanying this ITQ to reflect any changes introduced by the GSC. In particular where this ITQ is accompanied by any instructions on safeguarding classified information (e.g. a Security Aspects Letter) as a result of any changes stemming from the new GSC, whether in respect of the applicable protective marking scheme, specific protective markings given, the aspects to which any protective marking applies or otherwise. This may relate to the instructions on safeguarding classified information (e.g. a Security Aspects Letter) as they apply to the procurement as they apply to the procurement process and/or any contracts awarded to you as a result of the procurement process.

USEFUL INFORMATION LINKS

- [Emptoris Training Guide](#)
- [Emptoris e-sourcing tool](#)
- [Contracts Finder](#)
- [Equalities Act introduction](#)
- [Bribery Act introduction](#)
- [Freedom of information Act](#)

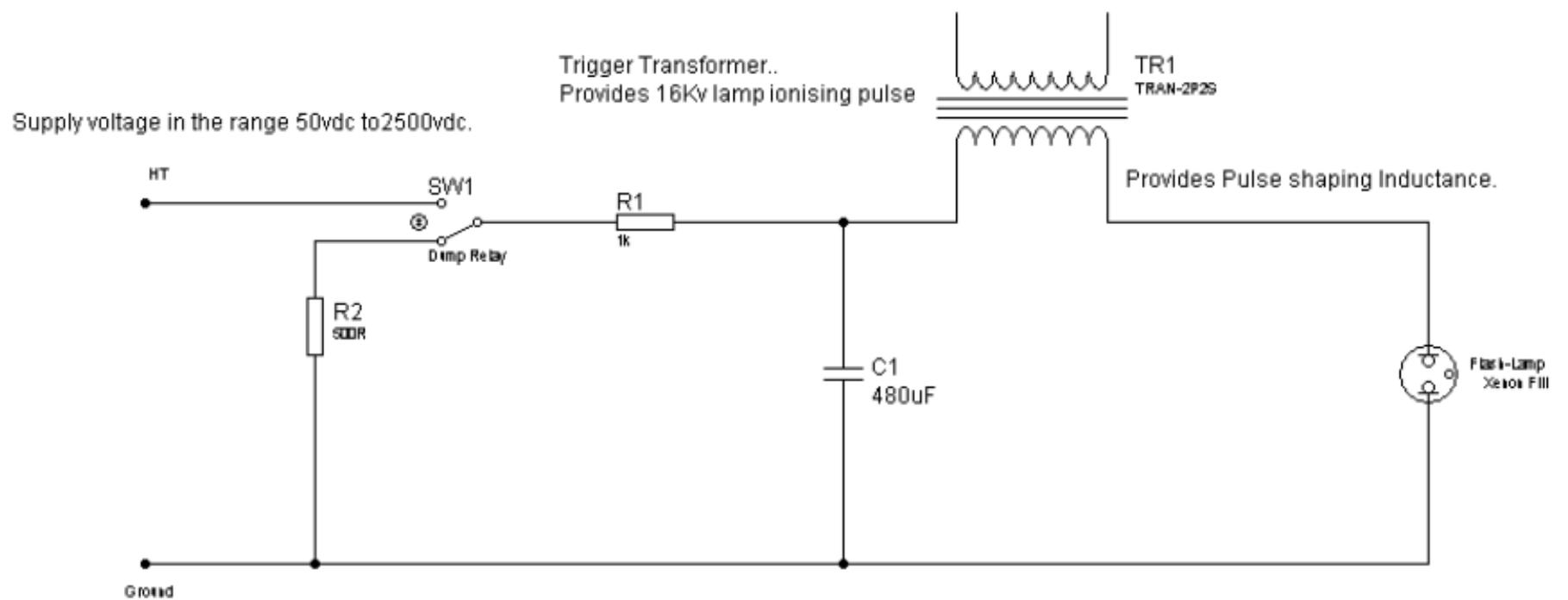
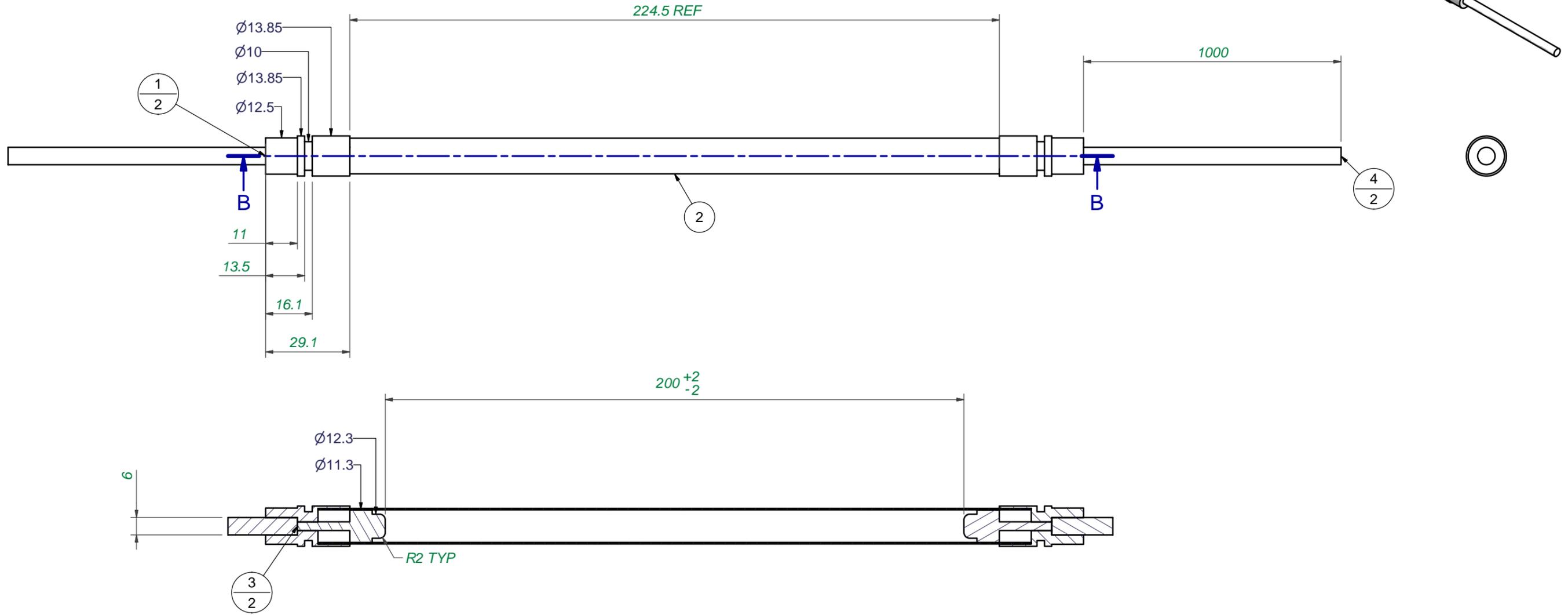


Figure.1.



SECTION B-B (1:1)

NOTES:
 GLASS SIZE TO BE DETERMINED. SHOWN FOR REPRESENTATION ONLY.
 ALL SIZES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. THEY SHOULD NOT BE USED FOR MANUFACTURE

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	SL-2300-221-00	INSULATED THIMBLE
2	1	SL-2300-222-00	GLASS TUBE
3	2	SL-2300-223-00	ELECTRODE
4	2	SL-2300-224-00	CABLE

A	28.04.04		PB				
ISSUE	DATE	MODIFICATION DESCRIPTION	DRN.	CHKD.	APPD.	STATUS	
TOLERANCES UNLESS STATED		FINISH	ORIGINAL SCALE				
± 0.2		CLEAN	1:1				
MATERIAL & SPEC.		SURFACE TEXTURE μm	0 50 mm				
SEE INDIVIDUAL ITEMS		3.2 ✓					
USED ON					© CCLRC 2000		
C.C.L.R.C.-RUTHERFORD APPLETON LAB. OXON. OX11-0QX							
TITLE							
ROD FLASH LAMP ASSEMBLY							
A2	SL-2300-220-00					REV	A

A2 SL-2300-220-00