

**Tender for the Supply, Delivery and Installation of
Gas Manifolds, Regulators & Associated works
at
South East Technological University (SETU)**

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Introduction

On 1st May 2022, the newest university in Ireland, South East Technological University (SETU) was established. SETU is a multi-regional university with campuses in Carlow, Waterford, Wexford and Wicklow with over 18,000 learners and 2,000 staff. The University will graduate over 6,000 students each year.

SETU operates in the context of the south east region which is experiencing an exciting period of significant change through a rapid population increase of over 35% since 1991, an economy that is diversifying in the light of shifting national, European and global environments, and a changing socio-cultural landscape marked by increased diversity, new patterns of population distribution and a changing demographic profile.

SETU will provide leadership and act as a centre of knowledge, research and innovation in the region. Additionally, it will look outward to help the region to capitalise on the broader economic drivers, nationally and internationally. It will educate and nurture future generations of active and engaged citizens across the south east region and will be a driver of social inclusion, social justice and of technological, cultural and artistic activity in the coming decades.

Contract Objectives

SETU invites tenders from suitably experienced Contractors for the supply, installation and testing/commissioning of new Gas Manifolds and Regulators at the SETU Waterford Campus. This Contract will be awarded in several lots, see pricing schedule for further information.

The SETU Waterford Campuses comprises of over 80,000 square meters of accommodation spread over 6 campuses. A breakdown of sizes of buildings as at November 2021 are detailed below for information purposes and may be subject to change during the duration of this contract.

Description	Approx. year of construction	Area approx. m²
1969 Building	1969	11,617
1977 Building	1977	4811
T Block	1997	2053
R Block	1984	800
Secretarial services / Students Union	1980	500
Multi-purpose hall	1991	2019
Staff Floor	1991	1020
Library	2000	5660
IT Building	2003	3160
Gallery Restaurant	2004	1223
Health Sciences Building	2005	3910
Tourism and Leisure building	2008	7660

The Applied Technology campus includes the following buildings:

Description	Approx. year of construction	Area approx. m²
Applied Technology Building (ATB)	1998	3870
Enterprise & Research Technology Centre (ERTC)	1970's	1156
Plumbing and bricklaying Workshops (Harveys)	1970's	2805

The West campus includes the following buildings:

Description	Approx. year of construction	Area approx. m²
ArcLabs	2005 & 2018	2620 + 1080 = 3700
Carriganore House	Refurbished in 2006	608
National Biological Workshops	2006	350
NetLabs	2010	1060

Campus Locations

- refer to maps included in Appendix
- [SETU | Waterford Campuses](#)

The Contract is scheduled to commence in December 2026.

SECTION A – SPECIFICATION (Scope of Work Requirements)

This document sets out the basis requirements for the supply, installation and testing/commissioning of new Gas Manifolds and Regulators at the SETU Waterford Campus.

The contractor shall note that all works are to be completed in compliance with BCGA codes of practice CP39 & TIS 18.

All systems/installations shall be in full compliance with local building codes. Where the Contractor does not signify deviation in his bid, it shall be assumed that it is in complete compliance with all current standards, specifications and/or drawings.

The work shall include design, manufacture, supply, and delivery to site, installation, and provision of as installed drawings and Operating and Maintenance manuals. The Contractor shall supply all materials and labour necessary to form a complete installation irrespective of whether or not all necessary components are indicated. Unless otherwise indicated all equipment and materials to be installed shall be new and fit for purpose. The Contractor shall make good defects which occur during the defect liability period.

The Contractor will be fully responsible for the safety management of the site from commencement of the project until Substantial Completion of the overall project.

Gas Manifolds

This Contractor will be responsible for the removal off site of the existing gas manifolds and the installation of new gas manifolds in their place.

Existing regulator types are indicated on the “Schedule of gas regulators and manifolds” located in the tender package. These existing regulator manufacturers/models are listed for

information purposes and the contractor shall allow a modern equivalent by the same manufacturer or equivalent brand.

The contractor shall allow for the supply and installation of new high pressure hoses from manifold to bottle or header system, these connection leads shall come complete with “anti-whip cables” all supplied as part of the manifold upgrade works.

As part of the tender return the contractor shall provide a list of proposed manufacturers and models of all equipment proposed.

Flashback arrestors shall be supplied and fitted to all Oxygen and fuel gas types (Acetylene, Propane, Hydrogen etc) and shall be itemised in the contractor tender return

Gas Regulators

This Contractor will be responsible for the removal off site of the existing gas regulators (including flashback arrestors where installed) and the installation of new gas regulators (and flashback arrestors where required) in their place.

It shall be noted that all regulators are fixed type (with the exception of bottled gases, see accompanying schedule)

Flashback arrestors shall be fitted to all Oxygen and fuel gas types (Acetylene, Propane, Hydrogen etc) and shall be itemised in the contractor tender return.

Existing regulator types (Fixed/bottle) are indicated on the “Schedule of gas regulators and manifolds” located in the tender package. The existing regulator manufacturers/models are Tec-master and Lab-master and these brands are indicated for information purposes only, the contractor shall allow a modern equivalent by the same manufacturer or equivalent brand.

As part of the tender return the contractor shall provide a list of proposed manufacturers and models of all equipment proposed.

A comprehensive list of locations and gas types are shown on the accompanying schedule

All works will need to be carried out “**During Normal Working Times**” but will be outside of college teaching times, eg Mid term breaks, Easter and Summer Holidays.

The scope of works will include the following:

- Site survey of existing equipment

- Confirm all manifolds, regulators and flashback arrestors
- Installation of new equipment per the accompanying schedule
- Cleaning and removals of all waste and existing materials off site.
- Compliance with health & safety requirements (working from heights, access, lifting, etc....).
- Certification of the new installation works.
- As-Built drawings and O&M manuals

Locations and details of all areas of works are indicated on the accompanying drawings. As-built information is indicative, the contractor should carry out a site visit to ensure the scope is fully understood prior to submitting his tender price.

Contractors Design Risk Assessment

The Contractor shall identify hazards and associated consequences that the works may present during the site delivery, offloading, installation, etc.... The Contractor shall prepare and issue a safety risk assessment for the installation which addresses the activities above. The risk assessment should identify the likelihood of the hazard occurring and the severity of the consequence if it does occur, along with any recommendations for the actions required of others to reduce the likelihood and/or severity.

Contractors Responsibility

In applying this specification, information and details pertinent to the installation, the Contractor shall accept full responsibility for the competence of the design/selection and installation/commissioning of the gas regulators and manifolds. There shall be strict conformance to the specifications, drawings, regulations and relevant standards. The work

shall include manufacture, works testing, supply, delivery to site, installation and provision of as installed drawings and Operating and Maintenance manuals.

The contractor shall supply all materials and labour necessary to form a complete installation irrespective of whether or not all necessary components are indicated.

The Contractor shall be responsible for ensuring that any firm appointed by him as a sub-contractor/supplier complies with and fulfils all the relevant undertakings in conditions described in the contract documentation.

The Contractor shall also be responsible for incorporating the works of his sub-contractors/suppliers into the programme of works.

The Contractor shall conduct inspections and tests and compile reports during manufacture or fabrication on or off site, as and when required, to ensure that quality, workmanship, delivery, assembly, erection, testing, setting to work and completion by the sub-contractors/suppliers are satisfactory.

The Contractor shall in all cases ensure that the materials and/or design features are suitable for the duty, methods of manufacture; test conditions and handling that will be encountered by the individual components.

The design of plant, equipment, specialist installations or materials used by the Contractor and requiring the input of the manufacturer's specialist designers shall be the responsibility of the manufacturer/supplier of the specific plant, equipment, specialist installations or materials. All materials and equipment to be installed shall be new. Manufacturer's instructions shall be strictly followed with respect to the installation and application of all products included in the contractor's supply.

The Contractor shall, by submitting a tender, guarantee that all materials, equipment and work carried out shall be 'Fit for the Purpose' and shall secure similar guarantees from his appointed sub-contractors/suppliers. The whole of the works shall be carried out to the complete satisfaction of the Engineer who shall reserve the right to reject any workmanship and materials that, in the opinion of the Engineer, do not conform to the Specification.

The Contractor shall be obliged to carry out such alterations or replacements of materials at his own expense. Materials and workmanship shall be guaranteed for a period of 12 months

from satisfactory commissioning and any defects shall be rectified and made good at the Contractors expense to the Engineers satisfaction.

The Contractor shall not interrupt or interfere with any existing services without prior written permission from the Employer.

The Contractor shall include for the delivery and offloading of all materials, components and items of equipment within his scope. The contractor is to supply all equipment and tools required to carry out the works, this will include all lifting, hoisting, scaffolding, etc... as required.

The Contractor will be expected to co-operate fully with the building operators in this respect.

The Contractor shall provide all necessary supervision during the execution of the works. Suitably qualified engineering staff shall be employed and given charge of the site works from commencement to completion. Supervisory staff shall be on site during the whole of the time that the work is in progress and shall be authorised to receive instructions from the Engineer on the Contractor's behalf.

The Contractor shall allow for the provision of mock-ups, samples and demonstrations of systems and equipment as shall be requested by the Engineer. The Contractor shall submit samples of proposed materials to the Engineer for written approval as and when required. All equipment and installations shall be fully cleaned by the Contractor prior to handover. On

completion of the works, the Contractor shall provide 3 No. copies of the maintenance manuals.

The following mitigation measures will be put in place during the construction phase of the proposed development:

- All waste generated during the construction phase will be managed in accordance with the relevant waste management regulations;
- Any waste generated during the construction phase will be removed off-site using an appropriately permitted waste contractor;
- Waste generation on site during construction works will be properly supervised with designated waste storage and segregation areas;
- Materials required will be ordered only as needed to reduce excess materials leading to waste;
- Where excess materials do arise, these will be returned to the supplier where possible;
- In the unlikely occurrence of hazardous waste during construction, such as waste oils and lubricants, it will be segregated, contained, classified, transported and disposed of by appropriately permitted waste contractors in accordance with all relevant national and international waste legislation;
- Any potential liquid waste arising during construction, such as waste oil, will be stored in suitable containers in bunded areas and disposed of off-site by an appropriately permitted waste contractor at a suitable permitted waste facility;

Codes and Standards

The Contractor shall ensure that all Standards and Codes of Practice shall be current editions dated three months before the date for return of tenders.

Any differences between these Standards and Codes of Practice and any part of this Specification shall be brought to the attention of the Engineer for clarification.

Health & Safety Procedures

The Contractor shall comply fully with the health and safety requirements and all relevant Safety, Health and Welfare at Work Statutory Instruments.

The works to which this Specification relates must comply with the current issue of the following:

- The Building Regulations - 1997 to 2010
- Safety, Health and Welfare at Work Act 2005
- Safety, Health and Welfare at Work (Construction) Regulations 2006 and associated amendments
- Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006
- Safety, Health & welfare at Work (General Application) Regulations 2007
- REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) Regulations 2007.
- COSHH (Control of Substances Hazardous to Health).
- Local Authorities By-Laws and Regulations
- Water Supply Authority's requirements
- Electricity Supply Authority's requirements
- Gas Supply Authority's requirements
- Fire Services Act 1981
- ETCI National Rules for Electrical Installations 2008
- Safety, Health and Welfare at Work (Control of Noise at Work) Regulations 2006 - Statutory Instruments S.I. no. 371
- Safety, Health and Welfare at Work (Control of Vibrations at Work) Regulations 2006 - Statutory Instruments S.I. no. 370
- Safety, Health and Welfare at Work (Working at Height) Regulations 2006 - Statutory Instruments S.I. no. 318
- Chemical Agents Regulations 2001 (Code of Practice 2010)
- Health & Safety Authority (HSA) Codes of Practice
- OPERATING & MAINTENANCE MANUALS - BSRIA Application guide 1/87.1 for building services installations.
- COSHH

All equipment deployed in a temporary capacity (during installation works) and permanently as part of the project contract works shall comply with the current European directives in connection with safety of machinery and electrical equipment:

Machinery Directive (89/392/EEC)

The low Voltage Directive (73/23/EEC)

Electro Magnetic Compatibility (89/336/EEC)

All equipment, components of equipment and system supplied shall conform to all appropriate and applicable Irish legislation and EU Directives and shall be CE-marked. In particular, all machinery supplied shall comply with Directive 2006/42/EC of European Parliament (the EU Machinery Directive) and all pressure equipment supplied shall comply with Directive 97/23/EC (the EU Pressure Equipment Directive).

All equipment and components of equipment supplied for use in a potentially explosive atmosphere shall be appropriate for use in particular environment and must comply with the EU 'ATEX' Directive 94/9/EC. In particular the equipment must be marked with all information essential for its safe use including comprehensive EX-marking showing equipment group, equipment category, and Gas/Dust suitability. The Supplier's documentation shall include a declaration of conformity with the ATEX Directive.

For electrical equipment and systems within the scope of supply, the Supplier's documentation shall include Declarations of Conformity for electrical equipment as required by the EU Machinery Directive, the Low Voltage Directive (Directive 2006/95/EC) and the Electromagnetic Compatibility Directive (Directive 2004/108/EC).

In respect of safety systems and/or safety instruments related to the control systems for any of the equipment, machinery, materials or packages (or components thereof) supplied the Supplier shall provide confirmation in its tender that compliance with the following standards (as applicable) has been met: ISO 13849 (which supersedes EN 954), EN 61508, EN61511 and EN 62061. If such confirmation is not provided then the Supplier must provide details of what (if any) equivalent standards or methodology have been adhered to.

The Supplier shall have accurately compiled the necessary Technical Files or Technical Construction Files to demonstrate the appropriateness of the affixing of CE marking and these files (and all the other relevant documentation) shall be available to the Purchaser on request prior to installation and at all times during the life of installation.

Asbestos materials shall not be installed. Products containing and/or requiring the use of CFCs in their manufacture will not be permitted. Those containing and/or requiring the use of HCFCs may only be used with the permission of the Engineer. The Contractor shall confirm in writing that such products are free of CFCs and/or HCFCs prior to delivery to site

Unless otherwise indicated products containing and/or requiring the use of CFC's in their manufacture will not be permitted. Products will not be permitted which contain or require Ozone depleting substances in their manufacture as prescribed under the Montreal Protocol and succeeding agreements.

A comprehensive programme of H&S and work procedures shall be implemented. Risk assessments and method statements shall be provided to ensure a safe and unobstructive project. All works which may impact on the sites normal production will require prior sign off by the Purchaser. Interruptions to the existing services must be planned so as to minimize disruption to production.

The Contractor's Safety Officer are responsible for the implementation of all safety rules, maintaining site safety file, preparation of method statements, risk assessments, compiling safety records, training records, training certificates etc... for review by the Client. The Contractor will be fully responsible for the safety obligations of their own direct employed staff, subcontractors, site delivery personnel along with the safety management of Client Direct Employed Contractors (Novated Contractor) and Nominated Contractors.

All contractors must be inducted prior to starting work.

All works must be carried out under a Method Statement and Risk Assessment procedure. The Contractor shall ensure that the Method Statements from all Subcontractors are completed to the agreed standard and these statements shall be agreed and signed prior to submitting them for approval.

The Contractor must ensure all employees have the relevant training and certification for the tasks they are carrying out. Training and certification must be forwarded with Method Statements for each employee.

Contractors must supply (keep records of same) suitable PPE and wear at all times in the course of their work.

The Contractor must investigate all local conditions which might affect access to site. Any additional costs incurred as a result of such conditions, which are beyond the control of the Client and will be incurred by the contractor.

Contractors shall at their own expense, provide all equipment, labour, haulage, lifting equipment and power necessary to execute the works in accordance with the contract.

SETU will not accept responsibility for loss or damage to any plant, equipment or materials belonging to contractors or sub-contractors.

The contractor will be responsible for all costs incurred in the unloading and transportation of equipment to the point of final location and must provide all the necessary lifting equipment, ladders, scaffolding, etc., to carry out this work. The Contractor shall be responsible for the transportation and safe storage of all equipment supplied by the Contractor to where it is assembled/installed in the allocated position on site.

The Contractor shall ensure that all suppliers who make deliveries to site are aware of the Site Safety Rules and are in possession of clear delivery instructions.

All cost incurred implementing the Safety requirements and monitoring throughout the work period will be understood to be included in the Tender price.

The Contractor shall provide evidence that they are adequately insured to carry out work on the site prior to any work being carried out.

General Information

All staff engaged in installation and servicing on site must be fully trained in all operational aspects of the work.

- Deliver a consistent and efficient service to SETU
- Upon expiry or termination of any Service Contract awarded from this Competition, the Contractor shall work to ensure a smooth transition of service to the new service provider. Without prejudice to the rights of the Contractor shall liaise with the Contracting Authority and arrange a scheduled date and time for the removal of all rented goods.
- No cost increases will be accepted during the duration of the contract.
- A survey will need to be completed in conjunction with SETU of the time associated with this project. Any costs relating to this survey will not be reimbursed.
- Interested parties are welcome to come on site to view external of buildings by appointment. Please email Adrian.morrissey@setu.ie
- [Campus Locations and Directions - South East Technological University | Waterford \(wit.ie\)](#)

SETU Safety Contractor Induction system will apply to all contractors associated with this contract and must be completed prior to coming on site.

All consumables supplied materials must conform to current regulations and legislation, manufacturers requirements, directives (EU and Irish) and approved codes of practice, CE mark, Irish Standards EN, etc. The Contractor must keep himself aware of any changes to the above during the term of the contract and must adjust his service to meet those changes, at no additional cost to the Institute.

SETU Facilities & Provisions

All schedules, log books and records pertaining to this Contract shall be stored in the Estates office at SETU and made available as required.

SETU Site Restrictions

The following restrictions and constraints are applicable to the site, and shall be taken-into account:

- Access restriction and access control procedures
- All works will need to be carried out **“During Normal Working Times” (i.e. 9-am to 4.30pm)**
- Parking restrictions
- No Smoking policy and all other SETU Policies
- Restrictions to admit sub-contractors and requirement for accompaniment
- SETU Site Safety Induction (online portal)
- Restrictions to carry out work on specific plant and areas (such as shut-down procedures, advanced notifications, out of hours working requirements, and Institute's procedures)
- Delivery procedures
- Restrictions for marketing and promotion on site
- Restrictions to give out information to others
- Hazards on site (for example the environment, people, machinery, materials, waste, and noise that can be hazardous)
- Hazardous processes and their interaction with services covered by the contract
- Specific health and safety requirements
- Covid 19 – as per current public health advise.