

Mr L.S. Kerry  
The Nottingham Trent University  
Estates Services  
Dryden Building  
NG1 4FZ  
28/04/2016  
Tel: 0115 848 2171  
Mobile: 07796314189

**RE: Clifton Campus Infrastructure works NTU/16/804/MP**

Dear Sir,

You are invited to tender on a fixed price basis for works at Nottingham Trent Universities Clifton Campus, Nottingham as detailed in our specification. The Works will be carried out under the conditions of the Model Form of General Conditions of Contract, MF1 with all revisions up to this date under seal.

Below is a brief description of the works. This overview is for info only and **does not** supersede the requirements set out in the tender documents.

The tendered price will be fully inclusive of all costs required to carry out the works detailed in the specification and enclosed drawings to the complete satisfaction of the of the University's project manager.

The contractor will be required to ensure the drawings and tender forming his submission are compliant with the information provided including design, installation, metering, etc. and all necessary commissioning, testing and other relevant documentation are supplied to the university on completion of the project.

All site visits and any enquiries will be made via the contract administrator Lee Kerry TEL: 0115 8482171 Mobile 07796314189.

All tenders will be returned via our INTEND system and broken down as per Appendix C and D of the specifications. All costs are to be returned no later than 12 noon on Friday 20th May 2016.

Mr Lee Kerry  
Mechanical Services Engineer.

# Clifton Campus Infrastructure Works - Overview

## **Introduction**

The following is a brief description of the works to be carried out as part of the Clifton Campus project.

This overview is intended to give an indication of the works to be carried out and should be read in line with the appropriate tender documents.

This overview is for info only and **does not** supersede the requirements set out in the tender documents.

## **Project description**

The Clifton Campus is undergoing further development both current and future project will require existing below ground services to be diverted away from building footprints and up grading to account for the additional loads.

These works are for the alterations/diversions required to the existing gas, water and HV/LV electrical services that currently run below the footprint of the ongoing ISTEK development plus the diversions necessary for a proposed future development currently below a tarmac car parking area.

In addition the university is currently in the process of construction an energy centre on the Clifton campus adjacent to the Erasmus Darwin building which is to be used to serve the heating requirements of all potential new building and the existing buildings Ada Byron King and Rosalind Franklin.

These works will involve extensive trenching and making good to existing services which all form part of this tender, while grounds are open and to improve the university's IT resilience additional IT ducts as detailed are to be installed and connected into existing chambers where stated.

Appropriate systems are to be installed to enable the remote live monitoring and data logging of the system including the monitoring of the performance of each pump located in the plant rooms (heat use, temperature, and flow), to give the energy used by the individual buildings.

Works are proposed to start on site XXXX 2016.

## **Scope of work**

The works will include, but are not limited to:

- The adoption of the Principal Designer and Principal Contractor roles in accordance with the CDM Regulations
- Trenching works as per the drawing details.
- Diversion of buried services where required.
- Construction of a concrete base for the HV Sub-Station and diesel standby generator.
- Supply and erection of a prefabricated GRP housing for Transformer, Ring main Unit, LV panel, etc.
- Diversion and jointing of section of existing H/V ring.
- Supply and install of LV supplies.
- Supply and install of new Gas and Water Services.
- Supply and install of LTHW distribution system.
- Supply and install of IT, Telecoms, BEMS, Security and fire alarm ducts.
- Supply and install of PHE, LLH, pump sets and ancillary equipment to 2 off existing plant rooms.
- Supply and installation of all associated controls for plant rooms, small power, metering and monitoring equipment.
- Making good
- Coordination of all associated works
- Testing and commissioning of all associated works

- The production and supply of all associated O+M manuals, as installed drawings and warranties etc.

### **Compliance with the CDM Regulations**

It is anticipated that following appointment the successful contractor will assume the Principal Designer and Principal Contractor roles in accordance with the CDM Regulations. As detailed within the tender pack the NTU Estates Department have provided a specification and undertaken initial design works, however all subsequent design works and mitigation of associated risk following contract award will be the responsibility of the successful contractor as Principal Designer.

A designer's risk review of likely CDM issues relating to the M&E services installation has been carried out. This has identified the following areas of significant residual risk:-

- Hazards associated with lifting heavy plant.
- Hazards associated with hot working.
- Hazards associated with excavation works and buried services
- Hazards with working in/adjacent to areas occupied by members of University staff and the general public.
- Hazards associated with connections to, maintaining of and working with/adjacent to operational existing systems and equipment.
- Hazards associated with the removal of asbestos

As the Principal Contractor the successful contractor must develop a suitable 'Construction Phase Health and Safety Plan' that sets out all safety management arrangements including the provision of welfare facilities for site operatives. The Principal Contractor must continue to review CDM issues throughout the duration of the project, and shall prepare formal method statements and risk assessments as appropriate.

The construction and installation works must comply with all current regulations relevant to health and safety relating to the construction, design and management of the works.