BUILDING SERVICES CONSULTING ENGINEERS

2nd Floor Britannic Building
3 Upperhead Row
Huddersfield
HD1 2JL

Mechanical Engineering Specification

For The : **Replacement Boilerplant**
At : **Wakefield College, Radcliffe Building**

For : **Wakefield College**
Margaret Street
Wakefield
WF1 2DH

Document Ref : **2017-060/SM01**

Date : **November 2017**

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CONTENTS

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INTRODUCTION

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NOTES FOR TENDERERS

This specification is in three sections:-

SECTION 1 - PRELIMINARIES

The Preliminary clauses included are those that relate to the Engineering Works in particular and must be read in conjunction with the "Preliminaries" of the "Head Contract".

SECTION 2 - SYSTEM SPECIFICATIONS

The system specifications are sub-divided into three parts:-

Part 1 System Objectives

The system objectives are clauses giving details of design information, system performance and description, together with lists of the system schematics and drawings.

Part 2 Selection Schedules for the Reference Specifications

These selection schedules specify items in the systems that are contained in the Reference Specifications (Y group). Required Y Group clauses are invoked by reference.

Part 3 Clauses Specific to the System

These specification clauses are specific to the system concerned and make no reference to the Y group clauses.

SECTION 3 - REFERENCE SPECIFICATIONS
(Clauses from the Y group)

This section contains all the reference specifications relevant to all the systems for the job. Required clauses are invoked in Part 2 (Selection schedules for the reference specifications) for each system.

NON-NES CLAUSES

Non-NES clauses may appear in Preliminaries, Selection Schedules and Clauses Specific to the Systems.

They will be distinguished by the clause reference beginning with an "alpha" character.

SECTION 1

GENERAL REQUIREMENTS

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SECTION 1

1.00 GENERAL REQUIREMENTS

General Requirements and Standard Technical Clauses are contained within separate documents comprising :-

1 For Mechanical Services

Brian Mellor Associates Document reference STSMS01 Rev B dated April 2015.

2 For Electrical Services

Brian Mellor Associates Document reference STSES01 Rev B dated April 2015.

These documents will be issued as part of the Tender Documentation and should be read in conjunction with all relevant specifications and Tender Drawings etc.

Copies will only be issued in CD / electronic format.

Refer to additional enclosed documentation for contract preliminaries.

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SECTION 2

SCOPE OF WORKS

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CONTENTS

SECTION 2

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SECTION 2

DESCRIPTION OF WORKS

2.01 General Building Description

The Contract Works comprise the removal of existing boilerplant installations within the existing boiler room and the provision of new together with all associated controls replacement and modifications and builderswork installation.

Modifications to existing fan convector installations are required

2.02 Scope of Engineering Works

The works to be provided under this Contract shall include but are not necessarily limited to the following: -

i) Removal and disposal of the existing boilers, flues, pipework, redundant controls and associated electrical installations.

ii) Installation of new heating services. This will include the installation of replacement plant, flue system controls and pipework installations. The provision of temporary heating during the works is also required.

iii) Modifications to existing fan convectors and replacement radiators.

iv) Builderswork

v) Thermal insulation

vi) Testing and commissioning

vii) Provision of 2 sets of Operating and Maintenance manuals incorporating as fitted drawings and information.

viii) Replacement of automatic control system and associated electrical works

2.03 Conditions of Contract

2.03.1 General

The Conditions of Contract shall generally be as Section 1. The successful contractor will be appointed as the principle (main) contractor

2.03.2 Related Documents

The Tenderer shall also refer to the supplementary contract documentation provided from Wakefield College and the pre-construction information pack.

2.04 Contract Period

2.04.1 Contract Dates

Refer to section 1 for details and specific programme periods.

All 'As Installed' drawings and O & M Manuals and Health and Safety Files should be completed **2 weeks prior** of the date from the completion of the contract in draft format for review by the contract administrator. Any comments should then be incorporated into the manuals and the completed documentation presented at hand over of the project.

All works are anticipated to take placed during the heating season for the purposes of this tender, as such temporary heating is required and within normal working hours. Out of hours working shall be allowed for as part of the Contractors tender during shut down and changeover periods if they consider this to be required to meet the programme.

2.04.2 Programme of Work

The Contractor needs to liaise with the site and the CA to programme any shutdowns to minimise impact on operations of the buildings. The Contractor shall submit a programme as part of their tender detailing programme of works and indicative shutdown periods, for both connections of boilers and alterations of controls and wiring etc.

The successful Contractor shall produce a bar type programme of works. The programme shall detail each part of the works and clearly show the duration of the work in days. Also, shown on the programme of works will be the anticipated labour resource necessary to complete each task.

The Contractor shall adhere to the agreed programme of work from start to completion of the work on site.

Other trades will be carrying out works in the Building simultaneously with this Contract work.

2.05 Plant and Tools

The successful Tenderer shall provide all necessary plant and equipment to undertake the work. The plant and equipment shall include, but not be limited to

scaffolding and access equipment, test equipment etc., and any other plant or equipment necessary for him to undertake his work.

2.06 Safety

The Contractor shall comply to the Employers safety rules and policy.
The Contractor shall comply with all current legislation, relating to work, including the following:-

- The Health and Safety at Work Act 1974 and all subsequent revisions and additions to these regulations.
- The Electricity at Work Regulations 1989 and all subsequent revisions and additions to these regulations.
- Control of Substances Hazardous to Health Regulations.
- Lifting Operations and Lifting Equipment Regulations HSE Approved Code of Practice L113.
- Asbestos Regulations.
- The Construction, Design and Management Regulations 2015. The Contractor shall act as Principle Contractor
- All Regulations and Acts appertaining to places of work.
- All Regulations appertaining to gas, emergency lighting, fire and fire alarm systems.
- All Regulations issued under the European Directives including Regulations concerning design and risk assessment.
- The Contractor shall ensure compliance with all new Regulations concerning places of work. He shall provide the Client with a written risk assessment for undertaking of the work. The risk assessment shall be provided prior to any work commencing on site.
- The Contractor shall be deemed responsible for reporting to the respective Authority when his number of employees exceeds the allowed legal quota. He shall provide, prior to any work being undertaken, a Method Statement of how he intends to carry out the work, a written statement for his Safe System of Working and a written risk assessment for undertaking the work.

2.07 Site Visits Prior to Tendering

It shall be deemed the responsibility of the Tenderer that he has inspected the site prior to the submission of his tender. This can be arranged direct with Wakefield College during the tender process.

They shall be satisfied the work can be undertaken in accordance with the "Drawings", "General" and "Particular" Specifications. No claims will be accepted by the Client through a lack of knowledge concerning the work.

2.08 Schedule of Drawings

The following drawings are provided:-

Drawing No	Title	Scale (approx.)
2017-060/M101	Boiler Room – As Existing	1:50
2017-060/M102	Boiler Room – As Proposed	1:50
2017-060/M103	Alterations to Fan Convectors	1:100

It should be noted that no accurate record information is available from the Client, therefore the indicated building plan and associated dimension should be treated as approximate only. As such the requirement to site measure is a requirement of all areas prior to ordering and commencement of installation of any plant, equipment etc., is further highlighted.

The drawings are provided for tendering purposes only and the Contractor shall provide any working drawings considered necessary for the complete installation of the works considered necessary for the complete installation of the works.

2.09 Performance and Design Requirements

The following parameters have been used in compiling the design data:-

Winter external design temperature -3°C DB/-5°C WB

Low pressure hot water system temperatures +80°C/+60°C

2.10 Site Waste Management Plan

Whilst no longer a requirement the Contractor shall make every effort to minimise the amount of waste generated as a result of the works. Recycling of waste materials shall be undertaken wherever possible.

2.11 Standard Specification Section

This section of the specification shall be read in conjunction with the National Engineering Specifications included in Section 3

All materials and workmanship supplied by the Contractor shall comply fully with the requirements of Section 3.

The installation shall also comply with the requirements of the 17th Edition of BS 7671; Requirements for Electrical Installations.

2.12 Heating Installation

The existing boilers are to be stripped out are to be stripped out and removed from site as part of this contract.

All heating pipework is to be fabricated from heavy grade steel to BS1387.

In addition, all primary heating pipework shall be thermally insulated using phenolic foam sections with stucco aluminium covering. Colour coded identification bands to BS1710 shall be applied along the length of all pipework. Insulation thickness to comply with BS5422.

Isolating valves shall be provided at all final connections to appliances and drain cocks shall be provided at all low points of the installations. Automatic air vents shall be provided at all high points of the heating installation.

New isolating valves shall be provided to all outgoing circuits to be modified to the revised position. Commissioning sets to be provided to the return circuits. Flow rates are to be confirmed on site. Allow for carrying out a further return commissioning visit at the time of the seasonal commissioning visit.

New circulating pumps shall be provided as indicated on the Tender drawings

A new pressurisation unit and expansion vessel shall be provided as indicated on the Tender drawings.

Pumps, Pressurisation and Expansion equipment shall be supplied and commissioned by:-

AJH Pump Supply & Repair
Wakefield
Tel : 01924 368773

Prior to handover and dosing the system shall be fully chemically cleaned by a specialist company to remove installation debris.

A new 10 Litre Dosing Pot shall be provided on the system to connect between the Flow and Return connections.

The system shall be fully dosed with Fernox F1 inhibitor to the manufacturers recommended concentration. For tender purposes only the system water content is 4500 litres. The actual water content shall be calculated prior to dosing based on the installed pipework distribution system.

Tenderers should refer to the Tender drawings for details of all plant and equipment.

4 No New Ideal Evomax 100kW Condensing boilers shall be provided on a pre-assembled frame ready for connection into the system. Complete with boilers, individual pumps per boiler, valves and low loss header. Condensate pipework from the boilers shall be taken to drain. Allow for 30m of 32mm PVC Pipework for tender purposes, the final connection point shall be agreed on site.

A New 100mm Air and Dirt Separator shall be installed on the new flow connections from the pumps to the system.

Tenderers should refer to the Tender drawings for details of all plant and equipment.

New Gas Pipework shall be provided to the boilers from the existing gas main in the boiler house. A new gas safety system shall be provided with new 80mm Gas Solenoid valve, Emergency Stop Button adjacent door, Heat Detector over each boiler and Gas Leak and CO detection to the boilerhouse.

All Gas Pipework shall be in steel pipework to be labelled and painted ochre yellow.

The Contractor shall engage a flue specialist to design, supply and install a new flue system for the boiler installations to terminate above roof level. The preferred is to reline and utilise the existing chimney and provide new terminations above roof level. The Contractor shall as part of his tender visit site with their proposed specialist to verify the feasibility of this. If this is not feasible then the Contractor must make allowances within his tender for an alternative external flue system terminating above roof level. This alternative provision should be highlighted with the Contractor's tender return so that the necessary planning implications can be expedited.

The Contractor shall allow for the necessary builderswork involved in removing the existing flue and exposing the existing chimney breast and reinstatement upon completion.

A new condensate drain shall be provided to the flue system to drain.

The Flue specialist shall be:-

A1 Flue Systems
Maun Way
Boughton Industrial Estate
New Ollerton
NG22 9ZD
Tel: 01623 867 304

Existing Fan convectors indicated on the drawing are to be removed as part of these works and replaced with new radiators and associating connecting pipework. New radiators shall be provided with New Drayton TRV4 radiator valves and angle pattern bodies are to be provided on flow connections and lockshield valve on return. Contractors should note there a mixture of single and two pipe circuits in the property and the appropriate body from the range shall be provided for each radiator which should be checked prior to installation.

The installation will be carried out during the heating season, as such the provision of temporary heating during the works is a required part of the contract. This shall be sequenced as follows:-

Phase 1 – An initial 7 day shut down period will be available to strip back all the existing secondary circuits, install the new flow and return header and modify the pipework to the new positions.

Install new 400kw temporary system boilerplant in the external car park area approx. 50m away from the Plantroom within the rear car park. This shall be located within a secure heras fenced and padlocked area during the works. The temporary heating plant shall be complete with its own fuel source, for which the fuel for the duration of the hire shall be provided by the contractor. Alternatively, the College gas supply is available for use during the period with interconnecting pipework to the temporary plant to be provided. The choice of fuel source is the Contractors choice and shall be included for as part of the tender. This shall be reviewed by the contractor during their site visit at tender stage. Allow for a 6 week hire period at tender stage. All interconnecting pipework hoses shall be provided and for the duration of installation protected externally with metal pipework covers.

Phase 2 – Strip out existing boilerplant and associated controls etc and install new ready for connection into system.

Phase 3 – A further 7 day shutdown period will be available to then carry out changeover of new boilerplant, carry out commissioning of plant, controls etc, decommission and remove the temporary heating plan and complete the installation

2.13 Testing and Commissioning / Record Documents

All of the new systems are to be thoroughly tested and commissioned in accordance with CIBSE Commissioning Codes A,B,C,M, R and W and the

relevant HVCA guides and a set of test data / record as-fitted drawings shall be provided O&M Manuals and drawings shall be provided as indicated within section 1 and the Main Contract Preliminaries

2.14 Builderswork

Tenderers shall include for the provision of all general builderswork which shall include cutting holes for pipes, extract fans, drilling and chasing etc.

The Contractor shall also employ a specialist builderswork contractor to carry out the following works within the boiler room:-

- Form new 2200mmx1000mmx100mm grade C4 Concrete Base for the new pressurisation unit and expansion vessel.

- Provision of 1000mm x1000mm x 300mm Timber Step over to pipework with timber cover to length of pipe between pumps and wall to allow access.

- Works associated with the specialist flue system contractors works shall also be provided as part of this section of the works. Refer to the specialist during tender stage for details.

2.15 Automatic Controls

The existing automatic controls system, associated wiring and containment is to be stripped out from Radcliffe building

A new automatic control system is to be provided within the boiler room for the purpose of the control of mechanical plant items. The system shall be based around Trend equipment and fully compatible with the existing College Network.

The Mechanical Services Contractor shall engage a Specialist Controls Company to provide, install and wire the new control panel as required.

Controls Specialist to include for all necessary power and controls wiring and containment for the specified plant and equipment and the associated controls in accordance with manufacturer's instructions. The Controls Specialist shall co-ordinate all plans with the Contractor prior to commencement of panel manufacture to ensure the equipment compatibility with the new control system. All cabling shall be contained within galvanised conduit and trunking to give a surface installation within the building and contained surface within galvanised conduit and trunking within the Boiler Room. Refer to the Tender drawings and for details of equipment. Cable trays shall be used on the Roof Installations

The new control panel and control equipment shall be manufactured/provided by a Specialist Controls Company.

.01 Control Functions

*Start/Stop optimisation and time control of heating system
*Control and automatic changeover for 4 No boilers
*Frost protection of all plant and systems
*Automatic pump changeover for each twin pump set –2 x Secondary pumps
*Timed plant over-ride
*Holiday (frost)/winter/summer switching
The building shall have its own dedicated control installation.
The system shall operate as an independent system as well as on a network function.
A touch screen control panel mounted display shall be installed for local control functionality and the system shall link into the existing College wide Trend Network. A data point shall be provided as part of the works within the Boiler Room for connection by the controls specialist to the control panel. Allow for up to 95m of Cat 6 cabling in containment back to a nominated cabinet for tender purposes. Final connection point to be agreed on site.

.02 Existing Installation

The existing control system shall be removed from the existing site in its entirety.

The existing control equipment is to be replaced. All redundant equipment and wiring to be removed.

.03 Control Requirements

The system shall control the following items of plant:-

4 No Boiler Pumps (Single head) (each 1ph. x 0.5kW)
4 No Boilers run/trip (each 1ph. x 0.5kW)
Primary Flow and Return Sensors to new Pipework
2 x Secondary Pumps run/trip (each 3ph 3kW)
External Temperature sensor – Direct weather compensation of boiler via 0-10V
4 No Temperature Sensors internal one per floor (Exc. Basement)– Also control flow temperature. – Final Locations to be agreed within the building.
Optimum Start
Pressurisation Unit power, run/trip
Gas Safety System – Main Solenoid Valve

- Fire Alarm input
- Heat Detector above each boiler
- CO Sensor in Plantroom
- Gas Leak Sensor in Plantroom

*1 No. pressurisation unit (high and low pressurisation controls)

*Controlling thermostats and sensors (i.e. inside and outside, and secondary flow and return circuits. Note: Positions of thermostats to be agreed on site.

.04 Maintenance within the Contract and Defects Periods

The Mechanical Services works are to include for the full servicing and maintenance of all the automatic control system and equipment newly installed for the full contract and 12 month defects liability periods.

The servicing and maintenance work shall be completed in accordance with the controls specialist/equipment manufacturer's schedule of recommendations and requirements as detailed in the O & M Manuals. A Further Seasonal Commissioning shall be carried out on the system during the 12 Month period during the winter season to ensure correct operation.

.05 Controls Specialist

Use a controls specialist to design, supply, install, test and commission complete controls installation including all associated electrical wiring.

The Controls specialist shall be:-

Open Control Solutions Ltd
Tel : 01924 237060

.06 Control Wiring

Provide control and power components wiring. All interface, Power and control wiring including wiring to controls and between controls and control panels/enclosures, all items of electrical equipment. (e.g. pumps, plant, sensors etc).
Provide control wiring diagrams, control panel terminal details for all outgoing circuits, together with all individual component/equipment wiring and installation information for approval fully detailing the extent of the work.

Ensure that electrical information included in Tender drawings are checked prior to installation and read in conjunction with the control specialist's wiring diagrams.

All wiring to be carried out using LSF singles cabling to be contained within galvanised conduits and trunking to give a surface mounted installation within the plantroom and main building. Flexible conduits to be provided to contain flexible connections to all items of plant and equipment.
On completion all electrical wiring shall be tested to comply with BS 7671 requirements.

.07 Monitoring Systems

Plant operation and temperature monitoring shall be included within the design and selection of the equipment.

The control system shall be provided with all necessary additional detectors, flow switches etc., to allow the system to monitor the correct operation of plant and internal environmental temperatures.

Provide a monitoring system, including:

Inside temperature (Averaging sensors shall be used throughout the building)

Outside temperature

Each pump - Run
- Trip

Boiler Primary flow and return temperatures

Each secondary circuit flow and return.

.08 Optimum Start/Stop Control of Heating Systems

Include an optimum start routine for the heating system to compute the daily minimum pre-heat period necessary to achieve target comfort conditions at occupation start time; also an optimum stop routine to compute the earliest time for the heat source to be shut down in order to retain minimum target comfort conditions in the space at end of occupation.

Ensure the start and stop comfort conditions are independently adjustable.

Inhibit weather compensations control during pre- heat periods.

Include an automatic self-learning process in optimum start/stop routines, which seeks to reduce any error in achieving the target conditions at the target time.

Provide operator with the facility to adjust the following heating system optimum start/stop parameters

Target temperature for optimum start.

Maximum pre-heat period.

Target temperature for optimum stop.

Minimum space temperature for out of hours periods.

Maximum search period for optimum off

The default limit time for handover to the weather compensation routines after the start of occupation.

The control of this facility shall be by both internal and external temperature detection.

.09 Frost Protection

Include frost protection routines to operate plant and pumps in order to protect buildings services systems and their components from frost damage.

Independent controls shall be provided should the main control unit not offer all stages of this control sequence.
Any additional air/immersion detectors or thermostats necessary to satisfy the frost protection requirements shall be provided in positions agreed with the Specialist Contractors.
Provide protection in stages as follows.

Stage 1:-

When outside air temperature falls to operator set minimum frost protection temperature, start selected pumps and establish circulation through the pipework systems and their components. Ensure operator can pre-select which plant is to be started. Ensure automatic standby plant operates on failure of duty plant.
External temperature set point - 1 C

Stage 2:-

When inside air temperature falls to pre-set minimum frost /anti-condensation level start, pumps etc. to operate heating.
Internal temperature set point + 8 C

Stage 3:-

When heating returns fall to pre-set level to start pumps to maintain minimum temperature.

Return water temperature set point + 20 C enabled when return water temperature falls to 8 C.
All pipework systems should be positioned such that they are within the heated envelope.

.10 Circulating Pump Overrun

The system shall include for adjustable run-on timers to be included to overrun the heating circulating pumps beyond plant shut down to dissipate heat from within the boilers
This facility shall operate following over-ride and plant extensions operation.

.11 Plant Override

The facility shall be provided to allow the heating to be operated out of normal programmed hours. This is to be done via a timed push-button override with indication lamp and also via the network function
Duration of over-ride shall be adjustable through the control keypad.

.12 Control Panel

Shall be of the Manufacturers complete standard construction and shall be complete with all required components.

Including:

*lamp test push button
*panel live lamp
*control circuit live lamp
*optimiser / compensator controller
*Starters for pumps
*single phase fused supply for control circuit
*single phase fused supplies
*On/Off/Auto switch with No.1/No.2 select switch with run and trip lamps for duplicate pump sets
*summer/winter/holiday key switch
*Run/Trip Lamps
* Fire Alarm Shutdown

The control panel shall be manufactured and installed by the controls specialist appointed or approved control panel manufacturer fully conversant with the control equipment selected. The panel and controls to be fully commissioned and demonstrated on completion.

The control panel design will be suitable for three phase operation.

.13 Gas Safety System

As part of the control system a new Gas safety System shall be provided to the boiler room comprising the following:-

Gas Shut off Solenoid Valve
Heat Detector above each Boiler
Emergency Stop Button Adjacent Door
CO and Gas Leak Sensor within boiler room.

2.16 Asbestos Removal

Refer to the refurbishment/demolition survey included within the pre-construction information.

The existing flues, boilers, pipework contain ACMs. The removal of these shall be carried out as part of this contract. This shall be carried out by a licensed contractor as part of the contractor to be appointed by the contractor and included as part of the tender. Works shall be carried out to HSE guidance and regulations. The existing fan convectors are presumed to contain ACMs and shall be disposed of accordingly. Where these are retained, they shall be isolated and left in a safe condition.

2.17 Plantroom Lighting

The existing lighting and wiring within the boiler room is to be stripped out as part of the works. A New 10A 1.5mm circuit is to be provided wired in galvanised conduit to 6 No. Thorn Aquaforce II 6400 Lumen LED Luminaires. 3 No. of these are to contain integral emergency packs. The fittings shall be wired on a single switch circuit, with an emergency key test switch. A new MK Metalclad plus light switch is to be provided adjacent the door.

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SECTION 3

STANDARD TECHNICAL CLAUSES

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SECTION 4

MECHANICAL

SUMMARY OF TENDER

SCHEDULE A

WAKEFIELD COLLEGE, RADCLIFFE BUILDING
REPLACEMENT BOILERPLANT

MECHANICAL SERVICES INSTALLATION

		£	p
1.	Dismantling and Stripping Out Redundant Services		
2.	New Boilers		
3.	New Pumps		
4.	New Flue System		
5.	Automatic Controls		
6.	Thermal Insulation		
7.	Mains Cold Water Supply		
8.	New Radiators and modifications to existing fan Convectors.		
9.	Plantroom Lighting		
10.	Water Treatment		
11	Data Connection to Control Panel.		
12.	Testing, Commissioning and Provision of Record Documentation		
13,	Further Seasonal Commissioning Visit during 12 Months Defects Liability		
14	Builderswork in connection with the Mechanical Installation		
15.	Asbestos removal		

CARRIED FORWARD:

BROUGHT FORWARD:

16. Temporary Heating Provision

17. Any Other Items Not Included Above

_____

Total Carried to Tender Summary

Signed……

Company Name…….

Address……..

……..

Date……..

SCHEDULE B

WAKEFIELD COLLEGE, RADCLIFFE BUILDING REPLACEMENT BOILERPLANT

MECHANICAL SERVICES INSTALLATION

PROVISIONAL SUMS

			£	p
1.0	Provisional Sums to be expended or deducted at the discretion of the Contract Administrator			
	1.01	Include the Provisional Sum of £5,000 (Five Thousand Pounds) for General Contingencies	5,000	00
	1.02	Include the Provisional Sum of £750 (Seven Hundred and Fifty Pounds) for Fire Alarm interface to control panel.	750	00
			5,750	00

Signed……

Company Name…….

Address……..

……..

Date……..

SCHEDULE C

WAKEFIELD COLLEGE, RADCLIFFE BUILDING
REPLACEMENT BOILERPLANT

TENDER SUMMARY FOR MECHANICAL SERVICES

		£	p
1.0	Preliminaries and General Requirements		
2.0	Mechanical Works in Schedule A		
3.0	Provisional Sums in Schedule B	5,750	00
4.0	Any Other Items Not Included Above		

TOTAL CARRIED TO MAIN
CONTRACTOR TENDER SUMMARY

Signed……

Company Name…….

Address……..

……..

Date……..

SCHEDULE D

WAKEFIELD COLLEGE, RADCLIFFE BUILDING
REPLACWEMENT BOILERPLANT

PROPOSED MECHANICAL SERVICES

COMPLIANT TENDERING

Tenderers shall confirm by signature of this document that their Tender is fully compliant and based on the provision of the specified plant and materials, methods of installation and programme of works.

Signed……

Company Name…….

Address……..

……..

Date……..