



LAMBERT SURVEYORS



Chartered Quantity Surveyors
Claregate Street,
Kildare Town,
Co. Kildare
R51CD89

mlambert@lambertsurveyors.com
www.lambertsurveyors.com
Tel: 045 542698

PRICING DOCUMENT

8th September 2026

Proposed Building Extension and Associated Siteworks

Nun's Cross National School,
Ashford,
Co. Wicklow.



SOCIETY OF
**CHARTERED
SURVEYORS**
IRELAND



RICS

the mark of
property
professionalism
worldwide

Description	Qty	Unit	Rate	€	c
*****PRELIMINERIES***** Amount from summary level.					
BQ/1				To Collection €	

BQ/2

BQ/3

Description		Qty	Unit	Rate	€	c
<u>Services Engineer</u>						
Galileo Energy Services, Unit A6, M4 Business Park, Celbridge, Co. Kildare Tel: 01 6274103			Note			
<u>Project Supervisor for Design Stage</u>						
McLoughlin Architecture, Unit 48, Elm House, Millennium Park, Naas, Co. Kildare. Tel: 045 854 900			Note			
<u>Project Supervisor for Construction Stage</u>						
Successful Contractor			Note			
<u>Consultants Generally</u>						
The Employer's Consultants and any other Consultants appointed from time to time by the Employer will be empowered to visit the site and to supervise all or any of the work. The Contractor shall observe their instructions and directions with regard to same and collaborate with them fully to any extent that may be required, provided always that the Employer's Representative's directions with regard to all or any of the work shall be final and binding.						
Description of the Site						
<u>Boundaries of the Site</u>						
A	Please note that the majority of the works are to proceed during the school academic year within a live environment, the Contractor must note that a teaching / pupil presence will exist within the school throughout this period. As such these teachers / pupils will be visitors to the site and the Contractor will be responsible for their control & safety alike within the environment of the works. A programme / sequence of works shall be agreed in coordination with MCLA and Nun's Cross National School Board of Management. The Contractor shall ensure that his / her employees, Subcontractors or Suppliers shall not trespass beyond the designated site boundaries and access routes. The Contractor shall comply with all requirements of the Local Authority and Garda concerning access. It will be the Contractor's responsibility to make good to the satisfaction of the Employer's Representative / Engineer any damage to existing roads, boundaries and entrances caused by building works. The Contractor must ensure there is no interference with the free flow of traffic on the public road and keep such roads clean at all times.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Site Conditions</u>					
A	Tendering Contractors are strongly advised to visit the site during working hours to ascertain for themselves the conditions under which the works will be carried out; the location of existing overhead and underground services, the condition of the existing building(s), etc. No claim arising as a result of neglecting to carry out such an inspection will be entertained. Tenderers should contact MCLA to arrange a site visit. The Contractor MUST NOTE the particular traffic restrictions and indeed periods of restriction regarding site access. The Contractor must programme his / her works to eliminate deliveries, etc., during these times. It can be assumed that no access will exist to / across the operating (live) school's grounds / parking areas for the Contractor between the following times, without the prior consent of the School's Representative; 8.45 am - 9.30 am (Monday to Friday) 12.30 pm - 15.30 pm (Monday to Friday)	1	Item			
			Note			
B	All heavy deliveries to the site, namely concrete trucks, block deliveries, steel members, precast concrete units, prefabricated timber roof trusses (particularly those requiring crange) must be communicated to the School's Representative 24 hours in advance and consent received therefrom for such a delivery to proceed.	1	Item			
	<u>Access</u>					
C	The Tender Drawings outline the site layout and particular attention is drawn to the Drawings with regard to access restrictions. The Contractor shall refer to the Architect's drawings for details regarding restrictions / designated areas which will be available to the Contractor during the works. The Contractor shall supply, erect, move and maintain as required all necessary temporary fences & hoardings / screening (dust and noise proof) including hoarding tunnels so as to enable safe access to the school including secure gates to the site to ensure the safety of the public, school attendees, staff and visitors all as per Architect's drawing.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Once construction activity has commenced on site access for school staff, children & visitors alike will be required between the existing classrooms and the school grounds, and moreover between the existing building and the temporary accommodation facility. The Contractor shall supply, erect, move and maintain as required all necessary temporary hoardings / fences with secure gates to ensure the safety of the public, school children, staff and visitors within these areas to the satisfaction of the Employer's Representative. Allowance must also be made for maintaining access for emergency services within these areas and the Employer must be indemnified against all charges arising therefrom. Particular attention is drawn to the interface between the "construction site" and these areas. The Contractor must note restrictions to access associated with morning, lunch time and evening drop off / pick up times at the school entrance also. The Contractor must programme his / her works to eliminate deliveries during these times, thus avoiding exasperated traffic congestion and an associated safety hazzard. <u>Working alongside a Live Primary School</u>	1	Item			
			Note			
B	It should be noted that the building will be in constant occupation throughout the majority of the works and the minimum amount of disruption will be allowed to the usage of these buildings. The Tenderer is to include for allowing the occupants of these buildings unlimited access to their premises and disruption for construction or services connections shall be by prior agreement ONLY with the School's Representative. The Contractor must note that access for DEMOLITION Works within the Existing School Building will require consent from the Principal in advance. Removal of all fixtures and fittings remaining the property of the school and their subsequent storage off site / transfer back to the completed building will also have to be co-ordinated with the School's Representative in advance. The Tenderer must include for all associated additional cost herein.	1	Item			
			Note			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Adjoining & adjacent Dwellings / Occupiers</u>						
A	The Contractor shall note the presence of an existing dwelling in close proximity to the works, which will be occupied for the duration of the works. The Contractor shall include in his tender for all costs associated with the safeguarding of the existing occupants and their property and for allowing the uninterrupted access to and from their property for the duration of the contract. The Contractor shall make every effort not to hinder the existing occupants and their working environments for the duration of the works, and to include in his tender for all costs associated with same.	1	Item			
B	The Contractor shall note the importance of keeping all entrance and exit points free from obstructions during the course of the works and include in his tender for all costs associated with same.	1	Item			
C	The Contractor shall ensure that no damage is caused to any existing buildings, structures, or services due to the delivery of materials, the execution of the works or the removal of waste material. The Contractor shall be entirely responsible for any damage due to his failure to comply with this clause.	1	Item			
<u>Site Restrictions</u>						
D	Working hours during construction shall be restricted to 0800 - 17:30 hours on Monday to Fridays and 0800 - 1300 hours on Saturdays. Activities outside these hours shall require prior approval of the Planning Authority and the Employer's Representative. However, the Contractor must note that no deliveries will be allowed to site during times when pupils are being dropped off or picked up at the school in the interest of safety (see above).	1	Item			
E	The working space for the Contractor will be confined to the immediate site and Contractor's compound area as shown on the Architect's drawings. The Contractor should note that he / she will be required to keep the adjoining school & site and adjacent public areas free of debris, muck and the like.	1	Item			
F	The use of tools and plant on a day to day basis shall be carefully monitored and controlled to ensure that all tools are kept within a secure compound when not being used.	1	Item			
G	The storage on site and use of all solvents, adhesives, cutting tools, welding equipment, drilling equipment and materials which the Department of Education & Skills and School Authorities may consider to be of a nature which requires special control shall be stored, issued to employees and returned to storage in an approved manner.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Parking of Contractor's vehicles (which include Contractor's employee's cars) will not be allowed on the public road; the Contractor should make allowance in this item for any costs which he / she may incur in complying with this restriction.	1	Item			
	<u>Drawings and Other Documents</u>					
B	The principal drawings from which this Pricing Document has been prepared are not listed separately with each element but are listed in full on the drawing register forming part of the tender documents, notwithstanding the provisions of the ARM.	1	Item			
C	The Contractor is referred to Volume A (Works Requirements / Specification Sections) for full particulars and will be deemed to have allowed here or in the measurement rates for all costs in connection therewith.	1	Item			
	<u>The following documents which form part of tender will form part of contract;</u>					
	Volume A					
D	Works Requirement Documents; Project Particulars	1	Item			
E	Works Requirement Documents; Architect's Drawings	1	Item			
F	Works Requirement Documents; Architect's Specifications	1	Item			
G	Works Requirement Documents; Structural Engineer's Drawings	1	Item			
H	Works Requirement Documents; Structural Engineer's Specifications	1	Item			
J	Works Requirement Documents; Civil Engineer's Drawings	1	Item			
K	Works Requirement Documents; Civil Engineer's Specifications	1	Item			
L	Works Requirement Documents; Services Engineer's Drawings	1	Item			
M	Works Requirement Documents; Services Engineer's Specifications	1	Item			
	Volume B					
N	Form of Tender and,	1	Item			
P	Schedule Part 1, Part 2 & Part 3 of the Public Works Contract for Minor Building & Civil Engineering Works Designed by the Employer	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Volume C					
A	Pricing Document(s)	1	Item			
	Volume D					
B	Information Pack; GPR Survey Drawing	1	Item			
C	Information Pack; CCTV Drainage Survey & Report	1	Item			
D	Information Pack; Grant of Planning Permission (including conditions)	1	Item			
E	Information Pack; Fire Safety Certificate (including conditions)	1	Item			
F	Information Pack; Disabled Access Certificate (including conditions)	1	Item			
G	Information Pack; Preliminary Health & Safety Plan	1	Item			
	Volume E					
H	Additional Information; Product Matrix Confirmation Form	1	Item			
J	Additional Information: Specialist Supplier & Sub-contractor Matrix Confirmation Form	1	Item			
K	Additional Information: BC(A)R Compliance Strategy	1	Item			
L	Additional Information: Part L Compliance Guidance & Agreement	1	Item			
	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
	<u>Examining the Works Requirements</u>					
M	The Contractor shall carefully examine the drawings and specifications, check all dimensions and satisfy himself as to their accuracy and that they cover the work as proposed. No claims for extra work arising from want of knowledge will be entertained.	1	Item			
					To Collection €	

BQ/10

Description		Qty	Unit	Rate	€	c
Notwithstanding the aforementioned, the Contractor shall note that all general costs (not allowed for within each individual work element) are to be included within the designated preliminary element relating to "Building Regulation Compliance" in connection with his Assignment as Builder under the Building Control (Amendment) Regulations 2013 : (S.I. 80) and the associated Code of Practice; including co-ordinating with the Assigned Certifier in the implementation of the Site Inspection Plan.			Note			
Where reference is made in the Specification or in the Pricing Document to an Irish or British Standard specification or code of practice, the "issue" shall be that of the latest edition as appropriate.			Note			
Period of Validity of Tender						
A	The Contractor shall include for maintaining his / her tender open for acceptance for the period as outlined in the Form of Tender; 120 days.	1	Item			
PRICING DOCUMENT						
B	The Pricing Document has been measured in accordance with the Agreed Rules of Measurement fifth edition 2024, with the Department of Finance approved amendments for the form of Contract set out below - as detailed in "Measurement and Pricing Notes." The Department of Finance approved list of amendments are to be made to the Agreed Rules of Measurement - Issue 3 (ARM5) when the rules are being used on the new Public Works contract Designed by the Employer. NB - Some items have been measured in a composite manner in various sections of the Pricing Document.	1	Item			
C	Items included in the Pricing Document have been measured in accordance with the relevant sections of the ARM5, unless stated otherwise. The Contractor will be deemed to have included in his / her rates and prices for all other work that may be necessary but is not specifically required to be measured.	1	Item			
	Unless otherwise stated, quantities have been measured net as fixed in position.		Note			
D	The Contractor is referred to Section A 'GENERAL RULES' and the measurement clauses in Section B 'PRELIMINARIES' of ARM5.	1	Item			
E	The Contractor at the time of tendering, must furnish the Pricing Document fully priced in ink in Euro. Pricing in pencil is not acceptable. All rates must be extended and all pages must be totalled & carried to the summary pages.	1	Item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
The Contractor will price every item that has a value and use realistic rates to facilitate accurate valuation of payments. Un-priced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Pricing Document will be subject to adjustment in order to achieve a fair and reasonable balance within the Contract document. A Lump Sum Adjustment - if Contractors make a lump sum adjustment in the summary of their tenders (by way of omission of Preliminary Item values or otherwise) this adjustment will be dealt with strictly in accordance with clause 8.5.2.2. of the "Code of Procedure for single stage selective tendering" Published with the Liaison Committee Practice Notes 1994. Modification Any unauthorised modification written by the Contractor against any item in the Pricing Document will render his tender null and void. <u>Ordering materials</u> This pricing document is not to be used for the purpose of ordering materials. Materials shall only be ordered from the Architect's or Engineer's Drawings. <u>Errors in the Pricing Document</u> The Employer may, without any responsibility for this, examine the Pricing Document for errors in addition or extension. If there is an error in extension, the rate will be adjusted, so that the extension remains the same. If there is an error in addition, the amounts added (and the rates making them up) will be adjusted pro-rata to the error, so that the total remains the same. This will apply if the total of the tendered rates and prices, (with value-added tax excluded), does not add up to the tendered Contract Sum. The Employer will decide which amounts and rates are to be adjusted. Instead of adjusting the amounts added the Employer may in his / her discretion adjust an adjustment item. No adjustment made under this paragraph will affect the tendered Contract Sum or the Comparative Cost of the Tender.	1	Note Item Note Note Note			
				To Collection €	

BQ/13

BQ/14

	Description	Qty	Unit	Rate	€	c
A	2.6 Ethics in Public Office	1	Item			
B	2.7 Data Protection	1	Item			
	Clause 3: LOSS, DAMAGE & INJURY					
C	3.1 Employer's Risk of Loss and Damage to the Works	1	Item			
D	3.2 Care of the Works	1	Item			
E	3.3 Insurance of the Works and Other Risk Items	1	Item			
F	3.4 Contractor's Indemnity	1	Item			
G	3.5 Employer's Indemnity	1	Item			
H	3.6 Public Liability and Employer's Liability Insurance	1	Item			
J	3.7 Professional Indemnity Insurance	1	Item			
K	3.8 Existing Facilities and Use or Occupation by Employer	1	Item			
L	3.9 General Requirements Concerning Insurance	1	Item			
M	3.10 Limitation of Liability					
	Clause 4: MANAGEMENT					
N	4.1 Co-operation	1	Item			
P	4.2 Contractor's Representative and Supervisor	1	Item			
Q	4.3 Employer's Representative	1	Item			
R	4.4 Employer's Representative's Communications	1	Item			
S	4.5 Instructions	1	Item			
T	4.6 Works Proposals	1	Item			
U	4.7 Required Contractor Submissions	1	Item			
V	4.8 (not used)	1	Item			
W	4.9 Programme	1	Item			
X	4.10 Progress Reports	1	Item			
Y	4.11 Notice and Time for Employer's Obligations	1	Item			
Z	4.12 Documents	1	Item			
AA	4.13 Contractor's Management	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	4.14 Communications	1	Item			
B	4.15 Meetings	1	Item			
C	4.16 Confidentiality and Secrecy	1	Item			
D	4.17 Contractor's Things Not to be Removed	1	Item			
E	4.18 Contractor's Documents	1	Item			
	Clause 5: CONTRACTOR'S PERSONNEL					
F	5.1 Contractor's Personnel to carry out Contractor's Obligations	1	Item			
G	5.2 Qualifications and Competence	1	Item			
H	5.3 Pay and Conditions of Employment	1	Item			
J	5.4 Sub-Contractors and Specialists	1	Item			
K	5.5 Collateral Warranties	1	Item			
L	5.6 Removal of Workers	1	Item			
M	5.7 Weekly Labour Records	1	Item			
N	5.8 Ancillary Certificates	1	Item			
	Caluse 6: PROPERTY					
P	6.1 Ownership of Work Items	1	Item			
Q	6.2 Infringement of Property Rights	1	Item			
R	6.3 Works Requirements	1	Item			
S	6.4 Rights in Contractor's Documents	1	Item			
	Clause 7: THE SITE					
T	7.1 Lands Made Available for the Works	1	Item			
U	7.2 Trespassers	1	Item			
V	7.3 Contractor Responsible for All Site Operations	1	Item			
W	7.4 Services for Employer's Facilities	1	Item			
X	7.5 Security and Safety of the Site and Nuisance	1	Item			
Y	7.6 Other Contractors	1	Item			
Z	7.7 Setting Out the Works	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	7.8 Archaeological Objects and Human Remains	1	Item			
B	7.9 Access and Facilities	1	Item			
C	7.10 (not used)	1	Item			
D	7.11 (not used)	1	Item			
E	7.12 Charges	1	Item			
	Clause 8: QUALITY, TESTING & DEFECTS					
F	8.1 Standards of Workmanship and Work Items	1	Item			
G	8.2 Quality Assurance	1	Item			
H	8.3 Inspection	1	Item			
J	8.4 Tests	1	Item			
K	8.5 Defects	1	Item			
L	8.6 Defects Period	1	Item			
M	8.7 Defects Certificate	1	Item			
	Clause 9: TIME & COMPLETION					
N	9.1 Starting Date	1	Item			
P	9.2 Suspension	1	Item			
Q	9.3 Delay and Extension of Time	1	Item			
R	9.4 Programme Contingency	1	Item			
S	9.5 Omissions and Reduction of Time	1	Item			
T	9.6 Substantial Completion	1	Item			
U	9.7 (not used)	1	Item			
V	9.8 Liquidated Damages	1	Item			
	Clause 10: CLAIMS & ADJUSTMENTS					
W	10.1 Compensation Event	1	Item			
X	10.2 Contractor to Pay Employer's Cost of Checking Quantities	1	Item			
Y	10.3 Contractor Claims	1	Item			
Z	10.4 Proposed Instructions	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	10.5 Employer's Representative's Determination	1	Item			
B	10.6 Adjustments to the Contract Sum	1	Item			
C	10.7 Delay Cost	1	Item			
D	10.8 Price Variation	1	Item			
E	10.9 Employer's Claims	1	Item			
	Clause 11: PAYMENTS					
F	11.1 Interim Payment	1	Item			
G	11.2 Unfixed Works Items	1	Item			
H	11.3 Retention	1	Item			
J	11.4 Full Payment	1	Item			
K	11.5 Final Statement	1	Item			
L	11.6 Time for Payment and Interest	1	Item			
M	11.7 Value Added Tax	1	Item			
N	11.8 Withholding Tax	1	Item			
	Clause 12: TERMINATION					
P	12.1 Termination on Contractor Default	1	Item			
Q	12.2 Consequences of Default Termination	1	Item			
R	12.3 Suspension by the Contractor	1	Item			
S	12.4 Termination by the Contractor	1	Item			
T	12.5 Termination at Employer's Election	1	Item			
U	12.6 Consequences of Termination by Contractor or at Employer's Election	1	Item			
V	12.7 Survival	1	Item			
W	12.8 Payment	1	Item			
X	12.9 Reference to Conciliation	1	Item			
	Clause 13: DISPUTES					
Y	13.1 Conciliation	1	Item			
Z	13.2 Adjudication	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	13.3 Arbitration	1	Item			
B	13.4 Jurisdiction	1	Item			
C	13.5 Agent for Service	1	Item			
D	13.6 Continuing Obligations	1	Item			
	Clause 14: COVID-19 MANDATORY CLOSURE					
E	14.1 Covid-19 Definitions	1	Item			
F	14.2 Covid-19 General Provisions	1	Item			
G	14.3 Covid-19 Costs	1	Item			
	Clause 15: PRICE VARIATION					
H	15.1 Definitions	1	Item			
J	15.2 Contract Sum Adjustments	1	Item			
K	15.3 Proportions	1	Item			
L	15.4 Change in Law	1	Item			
M	15.5 Failure to Commence by the Start Date	1	Item			
N	15.6 Failure to Complete on Time	1	Item			
P	15.7 Excluded Amounts	1	Item			
Q	15.8 Revisions to the Index Figures	1	Item			
R	15.9 Permitted Increases and Permitted Decreases for Material Categories and Fuel Categories	1	Item			
S	15.10 Adjustments for Labour	1	Item			
T	15.11 Efficiency	1	Item			
	SCHEDULES					
	Nothing in the Specification nor the Pricing Document shall over-ride, modify or affect in any way whatsoever, the application or interpretation of that which is contained in the Conditions of Contract.		Note			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Schedule Part 1</u>					
	Include for all cost arising in connection with Schedule Part 1 - details of Schedule Part 1 Section "A" to "O" - completed by the Employer are set out					
A	[A] Employer's Representative and Communications Details for sending notices under clauses 12 and 13 to the Employer are: Board of Management - Nun's Cross National School Details for sending other notices to the Employer are: For the attention of: Mr. Liam McLoughlin Address: MCLA The Employer's Representative is: MCLA Details for sending notices to the Employer's Representative are: For the attention of: Mr. Liam McLoughlin Address: MCLA Maximum adjustment to the Contract Sum for a single Change Order: €2,000.00, unless approved by the Employer Maximum cumulative value of adjustments to the Contract Sum for Change Orders in any three month period: €10,000.00, unless approved by the Employer	1	Item			
			Note			
			Note			
B	[B] Documents The Works Requirements are: As scheduled and included in Volume A The Pricing Documents are: These Bills of Quantities (3 number) included in Volume C	1	Item			
C	[C] Project Supervisor	1	Item			
D	[D] Insurance	1	Item			
E	[E] Performance Bond	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	[F(i)] Collateral Warranties The Contractor should note that Collateral Warranties are dealt with under a separate section of this Pricing Document.	1	Item			
			Note			
B	[F(ii)] Ancillary Certificates	1	Item			
C	[F(iii)] Named Specialists	1	Item			
D	[G] Date for Substantial Completion; Liquidated Damages; Retention Date for Substantial Completion: 24 months from commencement on site Rate of liquidated damages: € 2400.00 per week	1	Item			
			Note			
			Note			
E	[H] Early Completion The Employer's Representative is required to issue the certificate of Substantial Completion if the Works or a Section reaches Substantial Completion before its Date for Completion.	1	Item			
F	[I] Defects Period The initial Defects Period is 12 months from the date of Substantial Completion of the Works.	1	Item			
G	[J] Random checks for Employment Records Sub-clause 5.3.3A(2) shall be part of the Contract	1	Item			
H	[K] Delay Events; Compensation Events; Program Contingency; Delay Cost; Adjustments Event 1 to 16 - [as laid out within the Schedule to the Form of Tender Delay Event	1	Item			
J	[as laid out within the Schedule to the Form of Tender] Compensation Event		Note			
K	[as laid out within the Schedule to the Form of Tender]		Note			
					To Collection €	

Description	Qty	Unit	Rate	€	c
Event 17 - A difference between the Contract value of the Works according to the quantities and descriptions in a Bill of Quantities in the Pricing Document, if there is one, [taking into account the method of measurement and any amendments identified below] and the Contract value of the Works described in the Works Requirements, because the Bill of Quantities, when compared with the Works Requirements: includes an incorrect quantity or; includes an item that should not have been included or; excludes an item that should have been included or; gives an incorrect item description; and the difference for an item in, or that should have been in, the Bill of Quantities is more than € 500.00 Delay Event NO Compensation Event Yes Event 18 - An Item of Archaeological interest on human remains is found on the site and it was unforeseeable. Delay Event Yes Compensation Event Yes Event 19 - The Contractor encounters on the site unforeseeable ground conditions or man made obstruction in the ground other than utilities. Delay Event Yes Compensation Event Yes Event 20 - The Contractor encounters unforeseeable utilities in the ground on the site. Delay Event Yes		Note			
				To Collection €	

Description		Qty	Unit	Rate	€	c
A	Compensation Event					
	Yes		Note			
	Event 21 - Owners of Utilities on the site do not re-locate or disconnect Utilities as stated in the Works Requirements, when the Contractor has complied with their procedures and the procedures in the contract and the failure is unforeseeable.					
	Delay Event					
	Yes		Note			
	Compensation Event					
	Yes		Note			
	A weather event is when for any month between the Starting Date and the Date for Substantial Completion of the Works, the value for any of the weather data listed below, as measured at the nearest automatic weather station		Note			
	In sub-clause 9.4 the programme contingency threshold is 20 Site Working Days of delay caused by Compensation Events.		Note			
	The definition of craftspersons in part 2E includes the following additional categories:					
	None		Note			
	In sub-clause 10.6.4(3), the rates to be used to determine the cost of plant are the rates in:					
	The "Schedules of Dayworks Carried Out Incidental to Contract Work" published by The Civil Engineering Contractors Association (CECA) modified as follows:		Note			
	Sterling rates to be read as Euros		Note			
	In sub-clause 10.7, the amount to be added for delay cost is the daily rate tendered by the Contractor in the Schedule, part 2E (sub-clause 10.7.1(1))		Note			
	In sub-clause 10.7, the Contractor is to tender in part 2E a single daily rate for delay costs		Note			
	[L] Payment Particulars	1	Item			
	Period for interim payment is monthly.		Note			
	Minimum amount for interim payments, except for release of retention, €5,000.00.		Note			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Up to 90% of the Contract Value of unfixed Works Items may be included in an interim payment, in accordance with sub-clause 11.2.		Note			
	The retention percentage is 5%.		Note			
A	[M] (not used)	1	Item			
B	[N] Conciliation, Adjudication and Arbitration	1	Item			
	Failing agreement, the conciliator will be appointed by the RIAI		Note			
	The person or body to appoint the arbitrator, if not agreed by the parties, is the RIAI		Note			
C	[O] Rights in Contractor's Documents	1	Item			
	<u>Schedule Part 2</u>					
	The Contractor must fill in the appropriate sections of the Contract Schedule Part 2 in order to submit a bonafide Tender					
	Include for all cost arising in connection with Schedule Part 2 - details of Schedule Part 2 Section "A" to "D" - to be completed by the Contractor are set out					
D	[A] Communications	1	Item			
E	[B] (not used)	1	Item			
F	[C] Date for Substantial Completion	1	Item			
G	[D] Adjustments to the Contract Sum including Delay Costs	1	Item			
	<u>Schedule Part 3</u>					
	The Employer will populate the appropriate sections of the Contract Schedule Part 3, after Tender and prior to issue of the Letter of Acceptance					
	Include for all cost arising in connection with Schedule Part 3 - details of Schedule Part 3 Section "A" to "C" - to be completed by the Employer are set out					
H	(A) (not used)	1	Item			
J	(B) Named Specialists	1	Item			
K	(C) (not used)	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Contract Date, Starting Date and Date for Substantial Completion</u>						
The date for Substantial Completion shall be the date arrived at after the time allowed for completing the works is measured from the Contract Date. The 'Starting Date' shall not be the basis of calculating the date for Substantial Completion. The meaning of "Substantial Completion" is detailed in the latest version of the Public Works Contract for Minor Building and Civil Engineering Works Designed by the Employer.			Note			
<u>Fixed Price Contract</u>						
A	This is a Fixed Price Lump Sum Contract based on Volume A (Works Requirements) and Volume C (Pricing Document).	1	Item			
<u>Value Added Tax</u>						
B	The Contractor shall exclude all Value Added Tax in his / her tender submission, the Contractor shall price and will be deemed to have included for all items in the tender exclusive (net) of Value Added Tax. The Contracting Authority (the School Board of Management) will be responsible for the payment of VAT (registering for) and the Contractor will subsequently be paid net certified amounts by the School's Board of Management. In this regard, the Contracting Authority (the School Board of Management) and the Contractor will need to liaise with each other to register with Revenue On-Line (ROS) upon commencement of the works in order to facilitate payment transfer from the Department of Education & Skills. This process may delay the release of the initial payment to the Contractor and so the Tenderer MUST allow herein for all pertinent costs associated with this procedural process.	1	Item			
<u>Conditions Precedent to the Award of Contract</u>						
Tax Clearance						
C	It will be a condition precedent to the award of this Contract that the successful Tenderer must comply with current Tax Clearance Procedures for Public Sector Contracts, Ref: 49/29/84 (available at www.finance.gov.ie).	1	Item			
D	It will be a condition for the award of this contract that a firm must be able to produce promptly a Tax Clearance Certificate. In the case of a non-resident, a statement from the Revenue Commissioners will be required.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Furthermore, it will be the responsibility of the successful Contractor to ensure that any Sub-Contractor employed by him on this contract is in possession of a bona-fide Tax Clearance Certificate and to submit such Certificate in each case for inspection by the Employer's Representative when required to do so. No claims for increased costs will be entertained in respect of Contractor's compliance with this condition. CIF Pension / Sick Pay Scheme	1	Item			
B	Membership of the CIF Pension / Sick Pay Scheme is a condition precedent to the award of the contract. Local Labour	1	Item			
C	Persons engaged upon the works should insofar as practicable and without affecting the efficiency of the work be recruited from the local offices of SOLAS to the extent that the total labour requirement of the contract exceeds the Contractor's core workforce. Construction Management Staff	1	Item			
D	The tenderer shall provide details of the type and qualifications of their proposed construction management and site administration staff, per Clause 4 of the Conditions of Contract.	1	Item			
	<u>DEFINITIONS</u> Approval The expression "Approval" or "Approved" used herein shall mean a specific approval by the Employer's Representative. This should normally be in writing or confirmed by the Contractor in writing to the Employer's Representative. Definitions for Alteration Work To MATCH EXISTING means to use products, materials and methods to closely match all visual characteristics and features of the existing work, with joints between existing and new work as inconspicuous as possible, all to approval and to additional specified requirements. REMOVE means remove existing work so described and all associated accessories, fastenings, linings and bedding materials without damaging adjacent work to be retained, and make good. 'Form' or 'cut' openings, etc., means remove as necessary. RE-FIX means: 1. Carefully remove existing work required to be re-fixed.		Note			
					To Collection €	

Description	Qty	Unit	Rate	€	c
2. Remove fastenings and bedding materials from products / materials and clean and repair as necessary. 3. Set aside and adequately protect until required. 4. Re-locate accurately and fix securely using fixing and jointing materials and methods to match existing, or approved alternatives, and make good. 5. Comply with additional specified requirements. MAKE GOOD means to carry out local remedial work, including the following as appropriate and necessary to leave the work sound and neat for approval: 1. Remove defective parts of existing finishes and components and around any stated features. 2. Fill, dress down, piece-in, patch, extend existing finishes, make minor repairs and adjustments. 3. Re-fix or re-stick. 4. Re-decorate. MAKING GOOD consequent upon alteration, extension and maintenance work is deemed to be included in such items. RENEW means carefully remove existing work and replace: 1. with materials / products identical to those removed or approved substitutes, 2. using methods similar to those used in constructing the removed work or approved alternatives, 3. to meet additional specified requirements. Terms "Approved", "Directed" and "Selected" The terms "approved", "directed", and "selected", shall mean the approval direction and selection of the Employer's Representative (in writing). Term "Supply" Unless otherwise stated the word "supply" shall mean to include the term "provide and fix" as is usually understood. Proprietary Names Wherever a proprietary name is used to specify a material or process it shall be deemed to have the term "or equivalent" appended to it.					
		Note			
		Note			
		Note			
				To Collection €	

BQ/28

Description	Qty	Unit	Rate	€	c
min - minimum <u>The Valuation of Preliminaries for Progress Payments</u> The valuation of preliminaries for progress payments will be calculated in the following manner: (a) Items will, where appropriate, be split into the following 3 categories of cost:- (i) Establishment (ii) Running costs (iii) Removal costs (b) Establishment costs will be paid for when the particular item has been set up on site e.g. erection of cabins, the installation of temporary water supply and the like. (c) Running costs will be paid for as a percentage of Builders' work completed by applying the following formula: (Builders' work in this context shall mean the gross value of all work done on site, at the date of the progress claim, less the value of materials on and off site and contract change orders). $AP = \frac{TVRC}{CV - (TVRC)} \times BW$ where: AP = the amount of the formula adjustment to be inserted into the progress claim TVRC = total value of the running cost preliminaries CV = contract value BW = the total value of Builders' work completed to the date of the progress claim (d) Removal costs will be paid for when the particular item has been removed from site or has been finally completed e.g. removal of fences, final clean up and the like. <u>GENERAL PARTICULARS</u> A selection of Preliminary items are listed hereunder to afford the Contractor the opportunity of allowing against each item for all costs which may be incurred in complying with the terms of Contract and all relevant legislation. GENERAL PLANT, EQUIPMENT & ATTENDANT LABOUR Allow for all costs associated with the plant and equipment necessary to complete the works.					
				To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Establishment	1	Item			
B	Running Costs	1	Item			
C	Removal Costs	1	Item			
	CRANEAGE					
	Allow for all craneage necessary for the proper completion of the works.					
D	Establishment	1	Item			
E	Running Costs	1	Item			
F	Removal Costs	1	Item			
	EXTERNAL SCAFFOLDING					
	Provide all necessary general and specialist temporary scaffolding for executing the works. Allow for adaptations and extensions as necessary to complete the works. Allow for all necessary protection and security for scaffolding on public roads / areas; all in accordance with Statutory Regulations and the Contractor's own Safety Statement. If the Contractor should strike any of this scaffolding before ascertaining whether it is required by a Specialist or Public Authority, he must re-erect it, if so required, at his own expense.					
G	Establishment	1	Item			
H	Running Costs	1	Item			
J	Removal Costs	1	Item			
	ACCESS / HOISTS					
	Provide all necessary access platforms and hoists generally for executing the works.					
K	Establishment	1	Item			
L	Running Costs	1	Item			
M	Removal Costs	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	TEMPORARY FENCING / HOARDINGS, GUARD RAILS & the like					
	Allow for all necessary temporary fencing, hoardings, fans, planked footways, guard rails, gantries and the like for the protection of the site operatives, Public and the occupants of the adjoining Existing Properties, as well as the Live School Complex and for meeting the requirements of any Local Authority, Utility Providers or Health and Safety requirements and later shift or adapt them at any time as necessary. The Contractor shall allow for hoarding the site to prevent trespass by CHILDREN or adults and he shall visit the site to ascertain the positions and extent of all such temporary hoardings.					
A	Establishment	1	Item			
B	Running Costs	1	Item			
C	Removal Costs	1	Item			
	TEMPORARY SCREENS					
D	Provide and maintain all dustproof and weatherproof screens as necessary throughout the duration of the works, where new extension adjoins the existing building; as instructed by the Employer's Representative. The temporary screens shall be erected, removed and re-erected as required.	1	Item			
	TEMPORARY ROADS, TRACKS, CROSSINGS & the like					
	Allow for providing all necessary roads, hard standings and crossings on site and for removal and making good on completion.					
E	Establishment	1	Item			
F	Running Costs	1	Item			
G	Removal Costs	1	Item			
	WORKS BEYOND THE BOUNDARY OF THE SITE					
	Some services connections will take place outside the boundary of the site / school grounds as per the Architect's & Engineer's drawing(s) and the Contractor must allow for all additional inconvenience and cost associated with same.		Note			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Where work is described as being executed beyond the boundary of the site or in the public highway, the Contractor's price shall be deemed to include for the following as required; adequate watching and lighting, traffic signalling, temporary barricades, walking platforms and warning notices sufficient to ensure the safety of all persons, and removing same on completion, giving notice to the Local Authority, paying their fees and charges and carrying out the work to their satisfaction. The Contractor's price shall also include for maintaining in working order all services, conduits, telephone cables, etc., and for making good any damage done thereto, by reason of these works, to the satisfaction of the Authority concerned.					
A	Establishment	1	Item			
B	Running Costs	1	Item			
C	Removal Costs	1	Item			
	PUBLIC ROAD CROSSINGS					
D	Maintaining public and private roads, footpaths kerbs and the like and keeping the approaches to the site clear of mud and general building debris. The Contractor will be totally responsible for making good all damage caused by his own or any Sub-Contractors or Suppliers transport at his own expense or pay all charges in connection therewith. He must also comply with all Garda Siochana regulations.	1	Item			
	SITE ADMINISTRATION					
	Provide all necessary facilities for the provision and keeping of all statutory records on site; including the provision of suitably qualified and experienced staff.					
E	Establishment	1	Item			
F	Running Costs	1	Item			
G	Removal Costs	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	CRITICAL PATH PROGRAMMING					
	The Contractor shall submit a Detailed Programme to the Employer's Representative within 10 days of his receipt of the order to commence, setting out a building programme forecast. Each trade operation and sub-contract, including building services and any Specialists, shall be shown on the Programme in Building sequence and the dates on which they are to start and finish are to be indicated. The Contractor shall allow for reviewing, updating and re-issuing the Detailed Programme as and when required by the Employer's Representative; The actual progress made by each trade operation and sub-contract, including building services and any Specialists, shall be shown against the planned progress; The Detailed Programme shall indicate the identified critical path including the placement of orders for material on special or long delivery. All Programme requirements are to be in accordance with the Contract Conditions (Clause 4.9). The Contractor shall submit weekly records of the resources on site (labour, materials, etc) to the Employer's Representative.					
A	Initial programme	1	Item			
B	Progressive updates	1	Item			
	CONTRACTOR'S METHODOLOGY					
	Tenderers are requested to submit a Construction Methodology and a Preliminary Construction Programme with their Tender indicating their approach to achievement of construction completion within the required period while complying with any Phasing conditions.					
C	Initial methodology	1	Item			
D	Progressive updates	1	Item			
	CASH FLOW					
	Allow for providing a cash flow analysis for the project based upon the Contract Programme. The cash flow analysis shall show expenditure requirements for the course of the project. Allow for updating the cash flow analysis on a monthly basis.					
E	Initial cash flow	1	Item			
F	Progressive updates	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	TEMPORARY SHEDS, SANITARY ACCOMMODATION & the like					
	Allow for providing, maintaining, relocating during the progress of the works as necessary and removing on completion suitable offices for the site Foreman and other Management staff and Sub-Contractors, suitable mess facilities for the workmen, suitable sanitary accommodation and storage facilities for materials liable to damage from the weather. Comply with the requirements of the Factories Act. Provide an adequate secure compound in the location approved by the Employer's Representative for materials entering the site; remove all at completion of the works and make good. All in accordance with current construction standards.					
A	Establishment	1	Item			
B	Running Costs	1	Item			
C	Removal Costs	1	Item			
	TEMPORARY ACCOMMODATION for sole use of Employer's Agents					
	Provide and maintain temporary office accommodation for the site meetings, adequately heated and lit with table and chairs for (10) number people. This accommodation may be used as part of the contractor's own offices provided that it is reasonably well maintained for use as accommodation for site meetings.					
	Provide all protective clothing including (5) number hard hats, (5) number reflective jackets and (5) number pairs of protective boots for the sole use of the Employer's Agents.					
D	Establishment	1	Item			
E	Running Costs	1	Item			
F	Removal Costs	1	Item			
	TEMPORARY WATER SUPPLY					
	Allow for the adequate supply necessary to carry out the works of fresh, clean water; paying all charges and fees in connection therewith, providing all temporary storage, plumbing services, connections, including all clearing away and making good upon completion. All in accordance with current construction standards.					
G	Establishment	1	Item			
H	Running Costs	1	Item			
J	Removal Costs	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	TEMPORARY ELECTRICITY SUPPLY					
	Allow for providing all artificial lighting and power for the works, paying all charges in connection therewith; providing all temporary connections, leads, fittings and the like and clearing away and making good upon completion. All in accordance with current construction standards.					
A	Establishment	1	Item			
B	Running Costs	1	Item			
C	Removal Costs	1	Item			
	TEMPORARY SITE TELEPHONE and Facsimile Services					
	The Contractor shall allow for installing and maintaining temporary telephone, scanner and e-mail facilities to both the General Foreman's offices and the offices of such other Contractor's site staff as may be required for the full period of the works; including removal upon completion of the works. Allowance should include for the payment of all charges and expenses in connection therewith.					
D	Establishment	1	Item			
E	Running Costs	1	Item			
F	Removal Costs	1	Item			
	The Contractor shall allow for installing and maintaining temporary telephone, scanner and e-mail facilities to the Employer's Agent's office for the full period of the works; including removal upon completion of the works. Allowance should include for the payment of all charges and expenses in connection therewith.					
G	Establishment	1	Item			
H	Running Costs	1	Item			
J	Removal Costs	1	Item			
	TEMPORARY SITE SECURITY					
	The Contractor shall include for safeguarding the works, materials and plant from damage by theft including all necessary watching and lighting for the security of the works and the protection of the public. Establishment and maintenance of identifiable site perimeters required as well as providing shelter and fuel for the watchmen.					
K	Establishment	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
A	Running Costs	1	Item			
B	Removal Costs	1	Item			
	PROTECTION OF THE WORKS					
C	Protect all internal finishes & features in areas where intervention will occur (against general damage during construction works); comprising of suitable coverings, placed in position, using appropriate fixings / strutting; Contractor to be responsible for the design of these temporary works, to the satisfaction of the project Architect / Engineer; adhering to all appropriate health & safety legislation; to provide adequate protection from Carpenters, Decorators and the like	1	Item			
	NOTICE BOARD(S)					
	Obtain approval for and provide and maintain in a clean condition for the full period of the works one temporary name board approx 1.80m wide x 1.55m high displaying the title of the Project in 70mm high lettering, name of the Employer in 50mm high lettering, Consultants & Contractor names in 30mm high lettering and if required names of Sub-Contractors; all as per Architect's Drawing; fixed to and including 114.3, 5 galvanised CHS uprights anchored to RC strip foundation using 4 No. M16 chemical anchors per base plate; all as per Engineer's Drawing					
D	Establishment	1	Item			
E	Running Costs	1	Item			
F	Removal Costs	1	Item			
	PUBLICITY & ADVERTISING					
	The Contractor shall not allow the works to be used for any form of publicity or advertisement without the prior approval of the Employer's Representative. No form of advertising shall be allowed to be displayed on site without the consent of the Employer's Representative.		Note			
	FIRE FIGHTING EQUIPMENT					
	The Contractor shall allow for installing, maintaining and removing on completion of the works all fire fighting equipment necessary to comply with the relevant fire regulations.					
G	Establishment	1	Item			
H	Running Costs	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Removal Costs	1	Item			
	PROTECTIVE CLOTHING					
B	Allow for all protective clothing necessary to carry out the works including but not limited to the supply of safety helmets (to BS 2826), "Hi-Vis" vests & boots for the use of all site personnel; including all visitors and representatives attending the site.	1	Item			
	Site Survey					
C	The Contractor shall satisfy himself in respect of the dimensions, composition and construction of the existing buildings: the Employer will make all available information known to the Contractor. However, the Contractor shall make his own enquires and investigations and shall here take notice that the Employer does not in any way whatsoever warrant the accuracy or sufficiency of the information provided.	1	Item			
	Setting out the Works					
D	Allow for setting out the works accurately from the information provided by the Employer's Representative. Inform the Employer's Representative when overall setting out is completed and before commencing construction. The checking of any setting out lines or levels by the Employer's Representative shall not relieve the Contractor of his responsibility for the correctness thereof. Allow for setting up temporary bench marks and 30 metre grids, or alternatively if shown upon the drawings allow for setting out baselines and establishing permanent markers.	1	Item			
	Schedule of Dilapidations					
E	On taking possession of the existing building the Contractor will be required to produce immediately and submit to the Employer's Representative, a photographic record and a detailed schedule of dilapidations, both internally and externally for the existing building. The agreed schedule will be held as a record of the condition of the building when possession was granted.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Existing Services					
A	The Contractor shall fully satisfy himself as to the exact location of all existing services. The Contractor should contact the Electricity Supply Board, other Statutory Undertakings / Public Utilities and the local County Council in relation to power cables, telephone cables, drains, open drains and watermains in advance of any excavation or opening up of work and formulate a contingency plan to ensure an immediate emergency response by the relevant bodies in the event that such services are damaged.	1	Item			
	<u>Overhead Line</u>					
B	The Contractor must ensure that adequate safety precautions are taken when working in the vicinity of overhead lines. Barriers or notices as appropriate should be in place to ensure the safety of personnel in the vicinity of the cables.	1	Item			
	<u>Underground Cables</u>					
C	The Contractor must ensure that adequate safety precautions are taken when working in the vicinity of underground cables. Barriers or notices as appropriate should be in place to ensure the safety of personnel in the vicinity of the cables.	1	Item			
	Maintenance of Existing Services					
D	Existing services known to exist on site are shown on Engineer's drawings. Particulars of all known existing services will be indicated to the Contractor on site. He must also use his best endeavours to determine the position of all existing underground services prior to starting excavations.	1	Item			
	Temporary Closing of Services					
E	Temporary closing of services or any work in making connections to existing services connected to existing buildings on site shall be carried out only after seven days prior written notice to the Employer's Representative and then at such times as he shall agree, following consultation with the Employer's Representative.	1	Item			
	Temporary Road Closures					
F	The Contractor is to allow for all liaison, fees and costs associated with temporary road closures, barriers, signage, lighting, etc., as necessary to work safely on public roads and footpaths.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Damage to Existing Services					
A	Protecting, upholding and maintaining all pipes, ducts, sewers, service mains, overhead cables and the like encountered during the course of the works; the Contractor shall immediately report the matter to the Employer's Representative and make good any damage caused by his own or his sub-contractor's negligence or pay any costs involved in connection therewith.	1	Item			
	Adjoining Property Owners, Local Authorities and Utility Providers					
B	Care shall be exercised to avoid doing anything over which the Contractor has control that may be taken as interfering with the rights of adjoining Property Owners, the Local Authorities and Utility Providers or doing anything that may reasonably be objected to by them.	1	Item			
	Pipe Course					
C	Pipe, cable and wire courses shall be laid out by the Contractor as early as practicable for approval by the Employer's Representative and laying or fixing shall not be commenced without such pre-approval.	1	Item			
D	Existing pipe, cable or wire courses interfered with during the execution of the work shall be reinstated if, when and as required to the Employer's Representative's satisfaction.	1	Item			
	Pollution					
E	Do not deposit deleterious material into surface water channels or lakes. Comply with the requirements of the Rivers and Pollution Act, the Public Health (Ireland) Acts and the Fisheries Acts. The area surrounding the site shall at all times be kept clear of all debris and rubbish associated with the works. The site shall at all times be kept as clean and tidy as possible and the Contractor shall be responsible for removing debris and rubbish on a regular basis.	1	Item			
	Noise Levels / Controls					
F	Provide and maintain all acoustic screens as necessary throughout the duration of the works, where new extension adjoins the existing building; as instructed by the Employer's Representative. The temporary screens shall be erected, removed and re-erected as required.	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
A	The Contractor shall comply with the statutory requirements relating to control of noise levels on site. However, allowance must also be made for working alongside the existing school complex as well as the temporary teaching facilities and the adjoining private dwelling, ensuring that no disturbance is caused to the occupants through poorly managed noise outputs.	1	Item			
B	Noise levels shall be kept to a minimum with special silencers, mufflers and suppressors applied to plant, tools, etc. Close liaison shall be maintained between the Employer, Employer's Representative and Contractor to ensure overall noise levels are maintained to an acceptable level. Particularly noisy activities shall not be carried out between 8.00 p.m. and 8.00 a.m. on any night and before 9.00 a.m. on Saturdays and Sundays. Include for complying with all requirements on Noise Control.	1	Item			
C	The Contractor shall include for compliance with BS 5228 - Noise and Vibration Control on Construction Sites, and for compliance with all current Health and Safety Regulations. Fit all compressors, percussion tools and vehicles with effective silencers of a type recommended by manufacturer's of the compressors, tools or vehicles. The Contractor will be required to liaise closely with the Employer's Representative so as to minimise the nuisance caused by noise and no extra cost will be recoverable for compliance therewith.	1	Item			
D	Where the works are of a noisy nature the Contractor shall inform the Employer's Representative at least one week in advance of his intention to carry out these works.	1	Item			
E	The Contractor shall set up a stringent noise monitoring regime to monitor typical levels of noise at sensitive locations and shall report on same at each site meeting.	1	Item			
F	The Contractor shall nominate a competent and experienced Liaison Officer to deal with matters relating to noise, dust and vibration with the Planning Authority and adjacent dwelling / property owners.	1	Item			
	Waste Management					
G	The site shall at all times be kept as clean and tidy as possible and the Contractor shall be responsible for removing debris and rubbish on a regular basis.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Materials excavated from the site shall unless expressly stated otherwise be removed from site and disposed of at a tip / waste facility to be provided by the Contractor. The Contractor shall ensure that all waste is removed from site by approved waste disposal contractors, to approved facilities. Details of the final destination of all waste shall be furnished to the Employer's Representative quoting the reference number of the Waste Collection Permit issued under the Waste Management (Collection Permit) Regulations 2004. <u>The following items pertain to specific environmental sustainability requirements being invoked on this project;</u> Concrete rubble material generated from the demolition phase, shall be re-used in the proposed development wherever possible. Disposal of this material in landfill is not permitted and instead must be re-used in an environmentally sustainable manner. Generally, the Contractors' attention is drawn to the document; "Best Practice Guidelines for the Preparation of Waste Management Plans for Construction and Demolition Projects". The Contractor shall take these guidelines as mandatory and include for complying therewith as part of an overall waste management plan, thus making provision within his / her tender for same.	1	Item			
			Note			
			Note			
			Note			
B	The Contractor must present a Waste Management Plan, outlining specific approaches to the sustainable re-use of such rubble material, etc., for agreement with the Project Engineer and PSDP, prior to commencement of the works. The waste management plan shall include: 1. A list of proposed authorised waste collection permit holders to be employed. 2. A list of the proposed waste facility permitted sites at which the wastes may be recovered or disposed of. 3. Estimates of the proposed tonnages of construction and demolition (C & D) wastes by type e.g. soil and stone, rubble, wood, metal, and plastic.	1	Item			
C	Any waste materials not being re-used in accordance with the agreed Waste Management Plan shall be removed from site and disposed of at an approved waste facility.	1	Item			
D	The Contractor shall ensure that all waste is removed from site by approved Waste Disposal Contractors, to approved facilities.	1	Item			
E	Details of the final destination of all waste shall be furnished to the Employer's Representative quoting the reference number of the Waste Collection Permit issued under the Waste Management (Collection Permit) Regulations 2004.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Any implications of the above-referenced agreed waste management plan during the build, not included elsewhere, must be allowed for herein <u>Storage of Materials</u>	1	Item			
B	All materials shall be carefully stacked and kept neat and tidy in designated areas.	1	Item			
C	Separate different materials and protect them from dirt, physical damage, reaction with other materials, marking or staining, micro organisms, mildew, fungus and vermin. Do not store materials in a manner which may cause damage to the Works or to the materials or endanger the safety of people or property. <u>Environmental Control</u>	1	Item			
D	Allow for maintaining adequate temperature and humidity levels within the building prior to Substantial Completion to ensure that the requirements of manufacturers are adhered to for materials incorporated into the works or stored within the partially completed works.	1	Item			
E	Allow for drying out the works including floor slab sufficiently to allow laying of floor finishes and other finishes in accordance with the Contractor's programme. <u>Protection</u>	1	Item			
F	Allow for protecting the works from damage by inclement weather, overloading, impact, or any other cause whatsoever. Provide waterproof and frost proof coverings, temporary shelters, temporary drainage and any other necessary protection for this purpose. Make good any damage caused by ineffective protection regardless of the cause. <u>Material Controls</u>	1	Item			
G	All materials and prefabricated items shall be manufactured and tested in accordance with the specified requirements. When evidence of conformance depends solely on inspections and tests performed by a sub-contractor, specialist, manufacturer, supplier or independent inspecting authority, the Contractor shall ensure that such evidence is satisfactory and that appropriate records are maintained.	1	Item			
H	No materials or prefabricated items shall be used in the works until it has been verified that they comply with the specified requirements.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Where appropriate, all materials and prefabricated items delivered to the site shall bear the manufacturer's name, brand name or any other data that may be required to verify the exact nature of the material or item and relate it to the specified requirements.	1	Item			
B	Where applicable, materials and prefabricated items shall be obtained from suppliers and manufacturer's who have been assessed by an independant certification authority accredited by the National Accreditation Council for Certification Bodies.	1	Item			
C	Transportation, handling and storage of materials and prefabricated items shall be controlled to prevent mis-use, damage or deterioration.	1	Item			
D	The Contractor shall operate quarantine procedures for the identification and isolation of materials and prefabricated items that do not comply with the specified requirements.	1	Item			
	<u>Testing materials</u>					
	Notwithstanding the following, the Contractor should note the specific tests pertaining to BC(A)R '14 and Part L '17, as outlined within adjoining elements of this Pricing Document and as detailed within the Works Requirements.		Note			
	Work test certificates shall include, whenever applicable, the location in the works, of the delivery or batch which the sample represents.		Note			
E	Provide for executing all tests and supplying all material for testing as directed by the Employer's Representative. Include for delivery of concrete cube tests to Enterprise Ireland, Glasnevin, Dublin 9 or other approved body. Include for any necessary removal of fixed materials and making good after same. Include for making good after tests and for the provision of all apparatus to fully carry out same. Test results, if requested, to be sent directly to Structural Engineers. (Note: the scope of tests required is outlined in "Volume A - Works Requirements").	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Samples</u>						
If requested by the Employer's Representative, samples of all materials proposed to be used in the works shall be submitted to him, together with the name and address of the supplier, and such information, instructions and directions as the supplier has issued. Samples shall then be subject to the Employer's Representative's approval prior to the delivery of the materials to site. All materials delivered to and used upon the works must be at least equal in quality to the same, and the Contractor shall ensure that he complies with all manufacturer's instructions and recommendations. Any materials condemned by the Employer's Representative as unfit for use in the works shall be immediately removed from the site at the Contractor's expense.			Note			
A	Supply and deliver to the Employer's Representative's office at no extra cost, samples of materials to be used in the works for approval.	1	Item			
Such samples shall not form part of the permanent works.			Note			
<u>Sample panels</u>						
Notwithstanding the following, the Contractor should note the specific samples pertaining to Part L '17 (nZEB), as outlined within adjoining elements of this Pricing Document and as detailed within the Works Requirements.			Note			
Each trade and sub-contractor will be required to prepare one sample of workmanship for approval by the Employer's Representative before going ahead with the work on the particular element or trade.			Note			
B	Allow for constructing sample panels of blockwork, pointing, joinery (including typical door), floor covering, wall tiling, plastering, painting and the like as may be directed by the Employer's Representative for approval.	1	Item			
<u>Inspections</u>						
C	Allow for giving adequate notice to the Architect and Engineer in order to inspect any part of the works to be covered up. Allow for providing all necessary attendances to the Architect and Engineer whilst inspecting the works.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Approvals</u>						
A	Where and to the extent that products, materials or work are specified to be approved or the Employer's Representative instructs or required that they are to be approved, the same must be supplied and executed to comply with all other requirements in respect of the stated or implied characteristics either:	1	Item			
	1. to the express approval of the Employer's Representative or					
	2. to match a sample expressly approved by the Employer's Representative as a standard for the purpose					
B	Inspection or any other action by the Employers Representative must not be taken as approval of materials, products or work unless the Employer's Representative so confirms in writing in express terms referring to:	1	Item			
	1. date of inspection					
	2. part of the work inspected					
	3. respects or characteristics which are approved					
	4. extent and purpose of the approval					
	5. any associated conditions					
<u>Defects in Existing Work</u>						
C	Defects in existing work are to be reported to the Employer's Representative without delay. Obtain instructions before proceeding with work which may:	1	Item			
	1. cover up or otherwise hinder access to defective construction, or					
	2. be rendered abortive by the carrying out of remedial work.					
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Manufacturer's Instructions</u>					
A	The Contractor shall ensure that the manufacturers' instructions and other information are at the site whilst the related work is being executed and shall retain these documents and upon completion of the works hand these instructions over to the Employer's Representative in suitable folders together with a contents list. Should manufacturer's instructions and the specification be at variance, the Contractor shall obtain instructions from the Employer's Representative in writing and shall proceed accordingly.	1	Item			
	<u>Materials and Workmanship</u>					
	Notwithstanding the following, the Contractor should note the specific material controls pertaining to BC(A)R '14, as outlined within adjoining elements of this Pricing Document and as detailed within the Works Requirements.		Note			
B	Materials, goods and workmanship are to be of the best quality of their respective kinds and those for which there is an Irish or British Standard and Code of Practice available, are to comply therewith unless otherwise stated.	1	Item			
C	The Contractor shall provide a copy of any Code of Practice, for use by the Foreman on site, and description of materials, goods or workmanship given in any one trade or section are to apply throughout this Pricing Document unless otherwise stated.	1	Item			
D	All materials delivered to the site, in connection with the works, will be required to have the relevant IS or BS code numbers and manufacturer's name and place of origin stamped thereon. A certificate of treatment for the timber products shall be submitted to the Employer's Representative, from a reputable supplier, before bringing materials on site.	1	Item			
	<u>Compliance with Standards</u>					
E	In the case of an Irish Standard the presence of an Irish Standard Mark under NSAI licence shall be evidence of compliance. Similar marks issued under licence from E.U. National Authorities shall be deemed likewise. An approved IAB mark in the case of Irish Products or equivalent E.U. National Agreement Board Certificates of EOTA in certification in the case of any product shall be evidence of compliance with the Standard so certified.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Unsound Materials</u>					
A	If the Contractor shall introduce any unsound, improper or imperfect work or supply any defective materials, not in accordance with the Works Requirements, then all such work shall be taken down or removed and the work renewed, reformed or re-constructed to the satisfaction of the Employer's Representative. Any material condemned is to be at once removed from the site. The Architect shall have the power to withhold his certificates until the provisions of this clause have been complied with.	1	Item			
B	The Contractor shall allow for giving the Employer's Representative each week a comprehensive list of the materials delivered to site. This list shall include the origin of the materials, type of materials and number and / or quantity of materials.	1	Item			
	Proof of ownership					
C	In connection with the payment for materials on site (where applicable) the Employer's Representative may ask the Contractor for proof of full ownership of goods or materials delivered to the site. If this proof is not forthcoming the Employer's Representative will be entitled to withhold certification of payment in respect of the goods or materials in question.	1	Item			
	<u>Dismissal of workmen and removal of defective materials</u>					
D	The Employer's Representative may require the Contractor to dismiss any persons employed on the works whom he deems to be incompetent or to have misconducted themselves.	1	Item			
E	The Employer's Representative shall have power to direct the removal of all defective materials from the development.	1	Item			
	<u>Decision of the Employer's Representative</u>					
F	The decision of the Employer's Representative on all questions relating to the execution of the works, the meaning of the Drawings and Specification, the manner of the execution of the works or the quality of the materials, the nature, quality of the works executed or what amount was included in the Contract shall be final, conclusive and binding.	1	Item			
	<u>Work Outside the Contract</u>					
G	The Contractor should note that claims for additional works will not be entertained unless specifically requested in writing by the Employer's Representative.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>ON & OFF-SITE MANAGEMENT</u>						
The Contractor will be required as one of the Conditions of Contract to appoint on a full time basis an experienced and competent Project Manager (FOREMAN), approved by the Employer's Representative, whose sole duties will be the management of the project on the Contractor's behalf. The person selected by the Contractor for this position will be a member of the Contractor's staff who has already had experience of acting in a similar capacity on a job of similar size and complexity to that of this particular development. His duties will include the following: (a) The preparation and keeping up to date of a programme which will incorporate the activities of all those participating in the Contract, this programme to be continuously developed and amended as the list of Sub-Contractors grows and agreements on dates and times are made. (b) The organisation of formal site meetings which will be attended by the Employer's Representative, Consultants and any Sub-Contractor whose presence for the discussion of some particular aspect of the job would be desired. The Employer's Representative will be responsible for calling and chairing the formal site meetings and will keep and circulate the minutes. (c) The organisation of ad-hoc informal meetings attended by all or some of the main participants in the project. Such meetings may be called at the instigation / request of the Employer's Representative for the purpose of dealing with problems which may require immediate attention or are of too detailed a nature to be discussed at the site meetings. (d) Liaison between the Employer's Representative and sub-contractors The Contractor shall provide adequate supervisory staff on site and shall constantly supervise and direct the work and ensure good progress of the various trades and sub-contractors and in their proper sequence for the completion of the contract by the due date. The type and qualifications of this supervisory staff shall be approved before commencement of the work by the Employer's Representative who shall be empowered to make reasonable demands as to qualifications in accordance with the extent and complexity of the work.						
A	Set-up Costs	1	Note Item			
B	Running Costs	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Allow for all Off-Site Supervision Costs associated with the Works.	1	Item			
	<u>Progress Photographs</u>					
B	The Contractor shall keep a digital camera on site for the duration of the works, and shall photograph the general progress of the works taken from locations on or about the site, as directed by the Employers Representative (default quantity; 50 photographs at one month intervals). The Contractor shall hold digital records of all photographs on site for inspection by the Employers Representative and the Design Team as required.	1	Item			
C	The Contractor shall in addition submit to the Employers Representative, on a USP device or through a Drop Box portal (in "jpeg" format), up to 20 digital photographs of progress with the site works and drainage daily when the work is at full capacity.	1	Item			
	<u>Quality Management</u>					
D	The Contractor shall comply with the requirements of ISO 9000 in respect of Quality Assurance or demonstrate to the Employer's Representative his ability to ensure the quality of the construction works.	1	Item			
	<u>Handing Over</u>					
E	Allow for notifying the Employer's Representative in writing at least ten working days prior to the anticipated date that substantial completion is to be achieved. Allow for assisting the Architect / Engineer(s) in their final inspection(s) prior to hand over.	1	Item			
	<u>Defect's Liability</u>					
F	Allow for maintaining the works in perfect condition for 12 months after the issue of the Architect's Certificate of Substantial Completion in accordance with the Conditions of Contract.	1	Item			
	<u>Overtime</u>					
G	Allow for some or all of the works being carried out in unsocial working hours in order to comply with the programme and any other restraints. The Contractor shall allow here for any increase in rates of pay which he may incur as a result of such overtime or unsocial working hours. No claim will be allowed for as a consequence of the Contractor's failure to cost this item here.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Work by Archaeologists</u>					
A	The Tenderer's attention is drawn to the fact that the Council Archaeologist may inspect the site during the demolition and excavation stages of the works to ascertain if there are any items of an historical nature present. The Contractor shall allow here for giving adequate notice to this department and assisting with analysis by way of hand digging and the like to small areas as required.	1	Item			
B	The Contractor is to ensure that adequate care is taken to prevent any works being covered up prior to inspection.	1	Item			
	<u>Discovery</u>					
C	All fossils, coins, articles, structures and other remains or things discovered on the site of the works shall be the absolute property of the Employer and the Contractor shall take all precautions to prevent his workmen or any other persons from removing or damaging any such articles or things and shall immediately upon discovery thereof and before removal acquaint the Employer's Representative of such discovery and except insofar as is provided under his Contract for the removal and disposal of rubble, rubbish, demolished materials and the like shall carry out at the expense of the Employer the Employer's Representative's orders as to the disposal of same.	1	Item			
	<u>Charts and Schedules</u>					
D	The Contractor shall allow for preparing and copying to the Employer's Representative all necessary charts and schedules requested by the Employer's Representative to demonstrate the details and method of construction to be used.	1	Item			
	<u>Site Meetings</u>					
E	Allow for the costs associated with the holding and attending of bi-weekly site meetings in the Contractors on-site accommodation which shall be held and for which the Contractor shall be responsible for notifying all his sub-contractors to attend such meetings. Notes of the meetings will be taken and circulated to all parties by the Employer's Representative. The Contractor shall provide for all costs and expenses involved in holding such meetings.	1	Item			
	<u>Access for Visitors</u>					
F	The Contractor shall allow for giving access to the Employer and his representatives at all reasonable times and when all Health and Safety requirements have been considered.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Maintenance Records</u>						
Notwithstanding the following, the Contractor should note the specific maintenance records applying under BC(A)R '14 and Part L '17, as outlined within adjoining elements of this Pricing Document and as detailed within the Works Requirements.			Note			
The Tenderer MUST take notice of the following items and ensure that he / she is unambiguous with regard to the format by which the overall Safety File is to be handed over upon completion of the works. Allowance should be made within the following items for submitting a sample presentation to the Employer's Representative for approval upon commencement of the works.			Note			
A	The Contractor shall give to the Employer's Representative at Substantial Completion stage, two copies of all manufacturer's, suppliers and sub-contractors (particularly Mech & Elect) maintenance instructions (O&M Manuals).	1	Item			
B	The Contractor shall include for preparing an audio visual recording of the handover presentations for the Client at Substantial Completion stage, with particular reference to the Mechanical and Electrical Installations.	1	Item			
C	The Contractor shall provide the Employer's Representative with two copies of drawings on completion showing the works as constructed, including locations of underground and mechanical and electrical services (As-Built Drawings).	1	Item			
<u>Contractor's Site Area</u>						
D	The Contractor's attention is drawn to the fact that he must confine his operations to limited areas of the site as shown on the Architect's drawings.	1	Item			
<u>Trespass</u>						
E	The contractor shall take reasonable precautions to prevent workmen, including those employed by sub-contractors from trespassing on adjoining property or any part of the overall site not connected with the works.	1	Item			
<u>Working Rule Agreement</u>						
F	Allow for all payments in connection with obligations arising under the working rule agreement.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Sub-Letting</u>					
A	The Main Contractor must not assign this Contract or any share or interest therein without the written consent of the Employer, nor sub-let any portion of the Works without the approval of the Employer's Representative. Where consent is given, it shall not relieve the Contractor of his liability in respect of such work. This rule is to be strictly observed on this Contract.	1	Item			
	<u>Registration of Employer's and Sub-Contractor's</u>					
B	By law, employers in the construction industry must register with the Department of Social Welfare all employees whose employment commenced on or after the 1st January 1990. A Sub-Contractor is also legally bound to notify the Department of Social Welfare of any person engaged to perform any service either with him or on his behalf whether under a Contract or any other engagement made or to be made by him.	1	Item			
	<u>Payment of Contractor's Personnel</u>					
C	Strict compliance with the Contractual obligations regarding payment of contractors personnel must be adhered to at all times; please refer to the Contract Conditions Clause 5 for details of same.	1	Item			
	<u>Construction Industry Federation</u>					
D	The successful Contractor must be a member of the Construction Industry Federation Sick Pay / Pension Scheme and employees and sub-contractors engaged by the Contractor must also be members.	1	Item			
	<u>Weeds</u>					
E	Allow for preventing the growth of noxious weeds on the site during the Contract Period. Noxious weeds include thistle, dock, ragwort, common barberry and wild hop.	1	Item			
	<u>Cleaning</u>					
	Allow for cleaning down as follows:-					
F	1. All debris, packing cases, excess materials, plant and materials are to be removed off the site entirely	1	Item			
G	2. All marks, scratches and minor defects are to be made good	1	Item			
H	3. Decoration to be finally inspected and touched up as required	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	4. All windows and glazed doors to be cleaned including paint, putty and grit and finally polished with a proprietary window cleaner	1	Item			
B	5. All fittings such as electrical and sanitary ware to be cleaned down completely	1	Item			
C	6. All hardwood exposed is to be polished	1	Item			
D	7. All floors are to be cleaned out completely	1	Item			
E	8. All tiled surfaces are to be cleaned of all grit washed as directed and polished to manufacturer's recommendations	1	Item			
F	9. All painted work is to be cleaned down and washed	1	Item			
	<u>CLAIMS</u>					
G	The Contractor shall take entire charge of the site from commencement of the works to completion of same, and shall be held responsible for and make good all injuries, damages and repairs occasioned or rendered necessary to same by causes over which the Contractor shall have control. He is to take all risks and hold the Client indemnified from any claims arising from injuries to persons, animals, etc., or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor, his agents or employment during the execution of the works.	1	Item			
	<u>CONSENTS, FEES AND CHARGES</u>					
H	The Contractor shall certify upon completion of the Works that all work carried out by him and his subcontractors is in compliance with the design and that any design work carried out by him is in compliance with the requirements of the Building Regulations.	1	Item			
J	All costs in connection with obtaining any consents, complying with notices and paying taxes, fees & charges, other than those that the Works Requirements state that the Employer is to obtain or pay for, are to be included here. These will include any Local Authority, Utility Provider or Statutory Undertaking associated with the items identified within "Volume A" attached.	1	Item			
K	Allow here for all customs and excise duties and import licence fees and all other duties payable under the Conditions of Contract.	1	Item			
	Should a recognised and responsible officer of a Local Authority desire to see the premises, buildings or documents, the Contractor shall refer him to the Employer.		Note			
					To Collection €	

BQ/54

BQ/55

BQ/56

BQ/57

BQ/58

BQ/59

Description		Qty	Unit	Rate	€	c
<u>[06] GENERAL HEALTH & SAFETY OBLIGATIONS</u>						
<u>Information generally</u>						
1. Please note that notwithstanding the provisions of ARM 5, all General Health & Safety related costs are to be included within the following items and not within the "General Preliminary" section of this Pricing Document.			Note			
2. Please note that the tenderer MUST price for each item within the following or his / her tender will be deemed invalid.			Note			
<u>SAFETY, HEALTH AND WELFARE AT WORK (CONSTRUCTION) REGULATIONS 2013 : (S.I. No. 291 of 2013)</u>						
The Preliminary Safety and Health Plan is included as part of the Works Requirements documents.			Note			
A	The Contractor shall comply in all respects with the Safety and Welfare at Work Act 2010, and with any relevant Statutory Instruments or regulations issues thereunder.	1	Item			
B	The Contractor shall be deemed to have examined the Works Requirements, the site of the work and access thereto, and to have included in the tender figure for all additional work or costs required to allow him carry out the work in compliance with the provisions of the Regulations: Safety, Health & Welfare at Work (Construction) Regulations, 2013 : (S.I. No. 291 of 2013)	1	Item			
C	The Contractor shall comply in all respects with the Factories and Safety in Industry Acts and other Acts amending those acts and with any Statutory Instruments or Regulations issued thereunder.	1	Item			
D	The Contractor shall include for procuring the insurance cover required to be obtained and maintained by the Contractor as per the conditions of the main contract and shall provide indemnity in respect of any claim for bodily injury or property damage which the contractor may incur by reason of the performance of the functions and duties of the Project Supervisor for the Construction Stage of the Project.	1	Item			
<u>To be submitted with Tender Documentation</u>						
E	The Contractor shall submit a Safety Statement and the documents listed below which shall identify hazards and risks arising during the course of the Works and specifying how it is intended to safeguard the safety, health and welfare of parties likely to be affected.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	a) Completed Health and Safety Questionnaire and Declaration of Competence, included in Invitation to Tender (ITT) letter.	1	Item			
B	b) Statement of general company policy with regard to Safety, Health and Welfare at Work. This shall include a declaration signed by the Managing Director of the company.	1	Item			
C	c) Names of persons within the company responsible for Safety, Health and Welfare on the project to which the tender relates.	1	Item			
	<u>To be submitted prior to Commencement of Work on Site</u>					
D	Health and Safety Plan for the Project, which is to be revised and updated as the Work proceeds to take account of evolving hazards and risks.	1	Item			
	The Contractor shall incorporate in his Health and Safety Plan measures to deal with any hazards identified in the Safety Statement, a copy of which shall be made available on request.		Note			
	The Contractor shall comply in all respects with the requirements of current legislation and regulations with respect to his employees, specialists, domestic subcontractors, visitors and other third parties.		Note			
	The safety documentation shall be updated during the course of the Works to include any further hazards which may arise.		Note			
					To Collection €	

BQ/62

Description		Qty	Unit	Rate	€	c
<u>[06] PROJECT SUPERVISOR</u>						
<u>Information generally</u>						
1. Please note that notwithstanding the provisions of ARM 5, all PSCS related costs are to be included within the following items and not within the "General Preliminary" section of this Pricing Document.			Note			
2. Please note that the tenderer MUST price for each item within the following or his / her tender will be deemed invalid.			Note			
<u>SAFETY, HEALTH AND WELFARE AT WORK (CONSTRUCTION) REGULATIONS 2013 : (SI 291)</u>						
A	The Contractor shall provide for all costs in connection with his appointment as Project Supervisor for the Construction Stage (PSCS) herein; including co-operating with the Project Supervisor Design Process in the preparation and hand-over to the Client of the Safety File upon Substantial Completion.	1	Item			
	The Project Supervisor for the Design Process is McLoughlin Architects		Note			
	The Project Supervisor for the Construction Stage (PSCS) shall be the Main Contractor appointed to carry out the Works.		Note			
	The Contractor shall co-operate with the PSDP in the preparation of the Safety File and shall provide all relevant documentation, including all technical manuals, marked up 'as built' drawings and materials safety sheets. The Employer will be unable to take possession of the Works ('Substantial Completion' stage) unless he has received the information and documentation required to allow the Employer comply with his duties in respect of the safe operation of the premises under relevant statutory provisions.		Note			
	The Contractor shall include for a competent person to act as and carry out the duties of Project Supervisor for the duration of the Construction stage as set out in the current Safety, Health and Welfare at work (Construction) Regulations.		Note			
	The Contractor shall ensure that the Project Supervisor for the Construction Stage has the insurances required of the Project Supervisor for the Construction Stage under its appointment.		Note			
	The notification of commencement of construction of the project to the HSA shall be the responsibility of the Project Supervisor for the Construction Stage - the Contractor.		Note			
					To Collection €	

BQ/64

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/63 Page No. BQ/64 [06] PROJECT SUPERVISOR Carried to Summary					
BQ/65					

BQ/66

BQ/67

	Description	Qty	Unit	Rate	€	c
A	Radon Membrane Integrity testing; to be carried out by specialist firm, immediately following radon membrane installation; in accordance with "CIRIA C735:2014 Good practice on the testing and verification of protection systems for buildings against hazardous ground gases"; to include issuing the associated report to the Employer's Representative; depending on the results, remedial work may be necessary to rectify the installation and ultimately demonstrate compliance.	1	Item			
B	Geometrical testing of Hardcore Material; in accordance with I.S. EN 933-1, category 0/31,5 of Table E.2 for Grading (Crushed Rock); all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
C	Geometrical testing of Hardcore Material; in accordance with I.S. EN 933-1, category 0/40 of Table E.2 for Grading (Gravel); all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
D	Geometrical testing of Hardcore Material; in accordance with I.S. EN 933-1, category f7 for determining Fines Content; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
E	Geometrical testing of Hardcore Material; in accordance with I.S. EN 933-1, category 0/125 of Table E.3 for Grading (Crushed Rock or Gravel); all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
F	Geometrical testing of Hardcore Material; in accordance with I.S. EN 933-1, category f9 for determining Fines Content; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
G	Geometrical testing of Hardcore Matterial; in accordance with I.S. EN 933-5, category C50/10 for determining % Crushed or Broken Particles (Gravel only); all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Physical testing of Hardcore Material; in accordance with I.S. EN 1097-2, category LA30 for Los Angeles Coefficient; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
B	Durability testing of Hardcore Material; in accordance with I.S. EN 1097-6, Clause 8, category WA242 for Water Absorption; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
C	Durability testing of Hardcore Material; in accordance with I.S. EN 1367-2, category MS25 for Magnesium Sulfate Soundness; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
D	Chemical testing of Hardcore Material; in accordance with I.S. EN 1744-1, category ASO,2 for Acid Soluble Sulfate; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
E	Chemical testing of Hardcore Material; in accordance with I.S. EN 1744-1, category E.2.4.4, (SR 21) for Total Sulfur; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
F	Geological testing of Hardcore Material; in accordance with I.S. EN 932-3 and E.2.4.3, (SR 21) , category E.2.4.3, (SR 21) for Geogolical Examination; all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
G	Geological testing of Hardcore Material; in accordance with E.2.4.5, (SR 21) , category E.2.4.5, (SR 21) for Petrographic Assessment (Thin Section); all as per S.R.21: Guidance on the use of I.S. EN 13242:2002 + A1 : 2016 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	1	Item			
H	Compaction testing of hardcore filling; to be carried out by specialist firm, prior to laying of tarmac (to proposed carpark areas only)	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	Please note that (1) number complete concrete block needs to be selected from the stock on site and delivered to the laboratory for the following testing;		Note			
A	Chemical testing of Concrete Block; in accordance with TRL 447 testing standard for Water Soluble Sulfate	1	Item			
B	Chemical testing of Concrete Block; in accordance with TRL 447 testing standard for Acid Soluble Sulfate	1	Item			
C	Chemical testing of Concrete Block; in accordance with TRL 447 testing standard for Total Sulfur	1	Item			
D	RICS Stage 1 testing of Concrete Block; to establish soundness and evaluate aggregate type & if visible sulphides are present	1	Item			
	Please note that (6) number complete concrete blocks need to be selected from the stock on site and delivered to the laboratory for the following testing;		Note			
E	Compression testing of Concrete Block; air dried, capped & tested (for 14 days), in accordance with I.S. EN 7720-1, for Compressive Strength	1	Item			
	The following tests will be carried out as agreed with the project Engineer prior to commencement of the works;		Note			
F	Concrete cube test(s); in accordance with the Engineer's requirements	1	Item			
	<u>General Tests & Reports (upon completion)</u>					
	A Radon Protection system is being installed in accordance with the latest Building Regulations and this has been measured within the appropriate section of this Pricing Document. However, testing (before & after the works) must be performed to ensure that the level of indoor radon activity falls within the parameters specified by the Radiological Protection Institute of Ireland.		Note			
G	On-site radon level testing following installation of radon membrane (only if radon detected during pre commencement test); to be carried out by specialist firm, approximately 3 months after the building is occupied; to include setting radon gas detectors, collecting the radon gas detectors & delivering them to the specified testing laboratory and issuing the associated report to the Employer's Representative; depending on the results, a subsequent visit may be necessary to activate the radon protection installation	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Air-tightness test(s) in accordance with appended Guidance Documents; upon completion of the works (to demonstrate compliance with the criteria)	1	Item			
B	Acoustic survey [Sound Reverberation] & report in accordance with appended Guidance Documents; upon completion of the works (to demonstrate compliance with the criteria)	1	Item			
C	Air-monitoring & reporting during removal of Asbestos containing materials (only if Asbestos detected during pre commencement test)	1	Item			
D	Carbon Monoxide testing of constructed building upon completion	1	Item			
E	Mechanical tests (as outlined in attached appendix 1 of "BC(A)R '14 Schedule of Tests & Certificates")	1	Item			
F	Electrical tests (as outlined in attached appendix 2 of "BC(A)R '14 Schedule of Tests & Certificates")	1	Item			
G	Final BER survey & report upon completion of works	1	Item			
H	Drainage Inspection (full CCTV survey of existing and new Foul & Surface drainage upon completion, including report on same)	1	Item			
	<u>General Certificates (during the works)</u>					
J	Certificate of Performance to be provided by Contractor for all materials / products	1	Item			
K	All propriety products to be CE marked and comply with the specification	1	Item			
L	All steel to be CE marked and comply with the specification	1	Item			
M	Manufacturer's or supplier's Certificates of Compliance with standards for imported material / aggregates	1	Item			
N	Notwithstanding Certificate of Conformity, specific clarity on compliance with Pyrite standards should be provided	1	Item			
P	Contractor shall provide certificates for all prefabricated members (roof trusses, concrete slabs, manhole rings, etc.)	1	Item			
Q	All drainage pipes fittings and accessories to have DOP and CE marking in accordance with the work requirements	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Commissioning Tests / Certificates (upon completion)</u>					
A	Fire Alarm	1	Item			
B	Emergency Lighting	1	Item			
C	Gas Detection	1	Item			
D	Gas boiler installation	1	Item			
E	All other (as per attached Mechanical Installation list in Appendix 1 of "BC(A)R '14 Schedule of Tests & Certificates")	1	Item			
F	All other (as per attached Electrical Installation list in Appendix 2 of "BC(A)R '14 Schedule of Tests & Certificates")	1	Item			
	<u>Waste Removal Certificates</u>					
G	Waste Disposal Certificate (general)	1	Item			
H	Asbestos Disposal Certificate	1	Item			
J	Waste Haulage License	1	Item			
	<u>Any Other Items</u>					
K	The Contractor should include here for all other Surveys, Tests or Certificates as outlined in "BC(A)R '14 Schedule of Tests & Certificates" but not specifically mentioned within this section. Details should be included within the tender submission for such items.	1	Item			
L	The Contractor should allow here for any other Surveys, Tests or Certificates he may wish to include a cost for which do not appear elsewhere within the tender documents but which the Contractor feels are applicable in this instance. Details should be included within the tender submission for such items.	1	Item			
	As an on-going control measure, the receipt of all pertinent Test Certificates, Warranties, etc., in relation to a completed item of work will be a pre-requisite to the issuing of the associated payment Certificate pertaining to that specific item of work.		Note			
	The Contractor shall provide to the Assigned Certifier, such documents for which they are responsible, as may assist the Assigned Certifier to collate particulars for the purposes of handover and certification, and/or for further submissions to the Building Control Authority.		Note			
					To Collection €	

BQ/73

BQ/74

Description		Qty	Unit	Rate	€	c
<u>[06] nZEB COMPLIANCE</u>						
<u>Technical Guidance Document Part L of the Building Regulations 2017 (nZEB) [non-dwellings]</u>						
<u>nZEB COMPLIANCE STRATEGY:</u>						
The Contractor shall refer to the nZEB COMPLIANCE GUIDANCE which outlines specifically the requirements in order to comply with Part L (nZEB), including the series of tests and certifications required to prove Part L (nZEB) compliance.			Note			
It also critically outlines the tests and certifications required in the event of an alternative system or product being proposed by the Contractor. The Contractor shall note that a period of time needs to be built into the contract duration to provide for this situation.			Note			
Design compliance requires the deployment of multiple energy and moisture assessments of the building fabric and so any changes to the specification may negatively impact upon such assessment and the associated compliance. Any change, even considered minor in nature, could alter the nature of these assessments and therefore, may require re-assessment to verify compliance. Indeed, any changes undertaken without approval of the design team may necessitate remedial intervention, if found to be in breach of the design and carried out without assessment and the associated approvals.			Note			
<u>Examinations before Tendering</u>						
A	The Contractor shall be deemed to have, before tendering, made a thorough examination of the nZEB Compliance Guidance requirements.	1	Item			
<u>Tests</u>						
B	In particular the Contractor shall ensure that he has allowed in the preliminaries section for all tests associated with achieving the Part L (nZEB) requirement as outlined in the nZEB Compliance Guidance.	1	Item			
C	Part L requires that air pressure testing shall be carried out by a competent person certified by an independent third party. A test report should contain all the information required under section 7 of I.S. EN ISO 9972: 2015.	1	Item			
<u>Samples panels / mock-ups</u>						
D	The Contractor shall construct sample panels / mock-ups on site for inspection by the pertinent Design Team representatives (disciplines) in accordance with pre-agreed specialist scopes.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>CERTIFICATE OF UNDERTAKING</u>						
A	The Contractor shall sign a Part L Certificate of Undertaking prior to commencing each work stage, thus ensuring that the works are undertaken in line with the specification, drawings, details and workmanship requirements to ensure compliance with Part L of the Building Regulations.	1	Item			
<u>LIAISING WITH SUB-CONTRACTORS</u>						
B	All trades and sub-contractors MUST be made aware of the pertinent Part L specification and details, and the importance of their integrity, quality, and continuity, etc. Any defects, damage, removal, etc., must be reported to site management and made-good before any further works or closing up progresses.	1	Item			
<u>QUALITY CONTROL RESOURCES</u>						
C	The Contractor shall provide the Quality Control resources, systems and training to ensure that selected subcontractors have the necessary quality control systems and resources in place, including detailed measures to describe how they validate compliance with the nZEB performance requirements and how this is fully co-ordinated with the Contractor quality system for ensuring compliance with Part L of the Building Regulations.	1	Item			
<u>TECHNICAL SUBMISSION OF PROPOSED PRODUCTS</u>						
D	Timescales: All proposals affecting the nZEB performance requirements, must be proposed 12 weeks prior to commencement of the works, as described in the nZEB compliance guidance, for the external fabric including walls , roofs, and windows - after these dates no further substitutions will be accepted for review and it will be assumed that the original specifications will be adopted.	1	Item			
E	In this regard the contractor should allow a minimum of ten working days for initial submission and comment on drawings and a further ten working days from when revised drawings are resubmitted where required. The Contractor shall programme the works to comply with this requirement, clearly indicating, shop drawing, approval and fabrication / delivery stage timelines within the programme.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>DOCUMENTS PROVIDED BY CONTRACTOR / SUBCONTRACTORS / SUPPLIERS; SUBMISSION OF INFORMATION (SUBMITTALS)</u>					
A	Provide the detailed design and / or complete the design of products and executions in accordance with the specification, specifically showing in detail the nZEB compliance process, including co-ordinating compliance data and checking data in detail for compliance prior to submittal.	1	Item			
	<u>MANAGEMENT OF THE WORKS</u>					
B	The Contractor shall specifically produce Method Statements for specific items of work; compiled by a competent person in that field, and present to the pertinent Design Team member for approval, prior to commencement of that portion of the works. Such specific items of work shall be constantly re-evaluated and agreed between the DT & the Contractor throughout the execution of the works	1	Item			
C	The Method Statement and nZEB performance requirements should confirm the Contractor's management system for ensuring compliance with the Building Regulations	1	Item			
	It should also describe how the Contractor is directly supervising the work to ensure compliance. This should include named individuals who are responsible for the compliance of their respective element of the work. The purpose of this requirement is to ensure that a culture of nZEB compliance is clearly demonstrated across the full Construction team from the selection of the sub-contractor to site tool box briefings on compliance, etc		Note			
D	The Contractor shall allow for performing co-ordinator and supervisory roles in relation to Part L (nZEB), allowing for all associated costs.	1	Item			
	<u>QUALITY STANDARDS / CONTROL COMPLIANCE</u>					
	List of measures / checklists / tests being used by the Contractor to ensure compliance with nZEB performance requirement.		Note			
	Actions taken to close out non -compliances that occur, and prevent their re-occurrence		Note			
	Properties tested.		Note			
	Pass / fail criteria.		Note			
	Test methods and procedures.		Note			
	Identity of testing agency.		Note			
					To Collection €	

Description		Qty	Unit	Rate	€	c
Test dates and times.			Note			
Identities of witnesses.			Note			
Analysis of results.			Note			
<u>CONTRACTOR'S PROGRESS REPORT</u>						
A	Submit a progress report at least two working days before the site meeting. Notwithstanding the Contractor's obligations under the nZEB Compliance Guidance document generally, the Contractor shall compile a Work Stage report (as per the sample report appended), in relation to all work elements / stages outlined in the preliminary Part L Inspection Plan	1	Item			
B	In addition to last the Contractor shall compile a brief report outlining the active supervisory measures that have been taken since the last meeting in order to ensure compliance with the nZEB performance required.	1	Item			
<u>CONTRACTOR'S RECORDS (SUBMITTALS)</u>						
C	Detailed Photographs in relation to each Robust (thermal bridge) Construction Detail being constructed are to be transferred to a designated drop-box link in real time, as the works progresses. In other words, daily progress photographs are required throughout the construction of the specific Robust Details pertaining to the project.	1	Item			
D	The Contractor shall submit all relevant data and record sheets in accordance with Part L compliance at each work stage, it being a pre-requisite to payment processing in association therewith. These are to include test certificates, manufacturer	1	Item			
E	The Contractor shall ensure that all Part L quality control documents and supporting evidence is available within the Part L compliance file and presented to the Design Team for review at Site Meetings and Scheduled Inspections.	1	Item			
<u>COMMISSIONING</u>						
F	The Contractor shall produce a commissioning plan and programme based on BSRIA job book A and BG1/2009 provisions, both of which provide detailed commissioning guidance.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>CERTIFICATE OF COMPLIANCE UPON COMPLETION</u>					
A	The Contractor shall sign a Part L Certificate of Compliance upon completion of each work stage, confirming that they've constructed as planned and in accordance with Part L requirements, this being a pre-requisite to payment processing in association therewith.	1	Item			
	<u>CONTRACTOR'S FINAL REPORTING</u>					
B	Validation of nZEB performance required upon completion. The Contractor shall incorporate a summary of all stage reports throughout the works, as well as an executive report on Part L compliance for the project.	1	Item			
C	Upon completion of the works, the Contractor, shall present the Employers Representative with 2 hard-copy folders of the aforementioned electronic file, with and including all relevant data validating compliance of the completed project with Part L of the Building Regulations.	1	Item			
	<u>nZEB ENERGY COMPLIANCE CERTIFICATE</u>					
	Assessment: iSBEM Undertaken by a person registered with SEAI. Submit registration details and evidence of qualifications when requested.		Note			
	Building Type: Primary School Extension. nZEB.		Note			
	Certificate: To be included within Building Manual.		Note			
	Submit: Before the date for completion stated in the contract.		Note			
	<u>COMPLIANCE GUIDANCE & AGREEMENT</u>					
D	The Contractor must include here for all costs associated with fulfilling the requirements of the above-referenced document, not measured elsewhere.	1	Item			
	<u>nZEB COMPLIANCE GENERALLY (not covered elsewhere)</u>					
E	The Contractor must include here for all costs associated with compliance with the aforementioned nZEB documentation and certification, etc., not measured elsewhere.	1	Item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/75 Page No. BQ/76 Page No. BQ/77 Page No. BQ/78 Page No. BQ/79 [06] nZEB COMPLIANCE Carried to Summary					
BQ/80					

BQ/81

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/81 [06] BOND SECTION Carried to Summary					
BQ/82					

Description	Qty	Unit	Rate	€	c
*****EXTENSION***** Amount from summary level.					
To Collection €					

BQ/84

BQ/85

BQ/86

	Description	Qty	Unit	Rate	€	c
	<u>(19) SUBSTRUCTURES</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
A	Contractor to provide Temporary Works Design for the support of existing foundation adjacent to leanmix foundations	1	Item			
	Information generally					
	1. The work measured hereunder, refers to all works up to and including the ground floor slab associated with the extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. It is imperative that all tendering Contractors carry out an extensive and detailed site visit to familiarize themselves with the conditions and restrictions that all elements of the demolition, alteration and new work will be carried out in accordance with; Contractor to include in his / her rates herein for the nature of the site.		Note			
	3. The Contractor should note limitations on working hours identified in the Preliminaries Section of this Pricing Document		Note			
	<u>EXCAVATION AND EARTHWORK</u>					
	EXCAVATION					
	<u>Excavation</u>					
	Reduce levels					
B	not exceeding 2.00m deep	406	m3			
	Foundation trenches					
C	not exceeding 2.00m deep	142	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> excavation items for					
A	breaking up existing; hard surfaces; concrete paths	209	m2			
	Working space to					
B	foundations; not exceeding 2.00m deep; backfilling with T2 Perm gas permeable layer	119	m2			
	Disposal					
C	surface water; keep the surface of the site free of surface water	1	item			
D	ground water; keeping the excavations free of ground water	1	item			
E	excavated material; off-site	540	m3			
	<u>T2 Perm gas permeable layer in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T2 Perm gas permeable layer					
F	to make up levels; not exceeding 250mm deep	98	m3			
G	to excavations; not exceeding 250mm deep	75	m3			
	<u>T1 Structural subbase in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T1 Structural subbase					
H	to make up levels; not exceeding 250mm deep	73	m3			
	<u>T0 Structural hardcore filling in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T0 Structural hardcore filling					
J	to make up levels; not exceeding 250mm deep	110	m3			
	<u>T3 blind fine sand blinding; filling in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Surfaces treatments					
K	blinding filling; horizontal	485	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Unreinforced in-situ lean mix concrete; Grade C12/15 XC2; in accordance with Engineers Specification</u>					
	Bulk filling					
A	poured on or against earth or unblinded hardcore	93	m3			
	<u>Reinforced in-situ concrete; Grade C28/35 XC2 D20 S2; vibrated; in accordance with Engineers Specification</u>					
	Foundations					
B	reinforced	56	m3			
	<u>Reinforced in-situ concrete; Grade C25/30 XC1 D20 S2; vibrated; in accordance with Engineers Specification</u>					
	Beds					
C	thickness not exceeding 150mm; reinforced	72	m3			
	SUNDRIES					
	<u>20mm PVC Movement Joint Beads (Expansion Joints); Exterior grade impact resistant UV stable unplasticized PVC; 13mm exposed width and 25mm wings each side; 18-22mm render depth.</u>					
	Design joints					
D	movement joint cut in concrete; including mastic sealant or equal and approved sealant	54	m			
E	isolation joint in concrete; including mastic sealant or equal and approved sealant	197	m			
	<u>Surface finish to slabs to engineer's approval</u>					
	Surface finishes					
F	powerfloating	485	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393 grade 500, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
A	horizontal; foundations	143	m2			
	<u>Reinforcement fabric mesh to B.S. 4483; reference A252, weighing 3.95kg/m2; no allowance in measurement for laps</u>					
	Fabric					
B	horizontal; structural slab	485	m2			
	<u>New foundations connection to existing foundations with H16 diameter dowel at 300mm centres</u>					
	Special connections					
C	H16 diameter dowel at 300mm centres	50	nr			
	FORMWORK					
	<u>Formwork generally; Type A plain non-fair faced finish</u>					
	Sides of foundations					
D	exceeding 250mm but not exceeding 500mm high	132	m			
	Edge of beds					
E	not exceeding 250mm	197	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid Concrete Blocks; I.S. 20; compressive strength S13N; to be used with interlaced coursing providing solid blockwork to minimum overall thickness; masonry mortar type M12 1:0.5:4/4.4 (cement: lime: sand); recessed pointing; as Engineers specification</u>					
	Walls in trenches					
F	100mm thick	15	m2			
G	215mm thick	25	m2			
H	350mm thick	15	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Labours					
A	on blockwork	1	item			
	Bonding to other work					
B	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	2	m			
C	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 215mm wide blockwork	4	m			
D	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 350mm wide blockwork	4	m			
	<u>Supply and install 2 no. courses of Roadstone Thermal Liteblock S13N blocks at all floor / rising wall junctions to improve thermal bridge detailing; refer to Architects foundation detail</u>					
	Walls in trenches					
E	100mm thick	15	m2			
F	215mm thick	20	m2			
G	350mm thick	15	m2			
	Labours					
H	on blockwork	1	item			
	Bonding to other work					
J	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	2	m			
K	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 215mm wide blockwork	4	m			
L	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 350mm wide blockwork	4	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	ANCILLARIES TO BRICKWORK/BLOCKWORK					
	<u>Damp proof courses; "Hyload" B.S. 7431 black polythene 2000 gauge; 150mm laps; welded in accordance with manufacturers instructions bedding in cement and sand mortar (1:3); no allowance in measurement for laps</u>					
	Damp proof courses					
A	not exceeding 225mm wide; horizontal	130	m			
B	width exceeding 225mm wide; horizontal	43	m2			
	<u>Ventilation gratings; Galvanized Mild Steel; complete with all accessories and fixings; louvered pattern; building into prepared openings</u>					
	Ventilation gratings					
C	225 x 225mm; pointing with mortar one side	8	nr			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>"RMB Monarflex" RMB 400 or equal and approved radon barrier Irish Agreement Board Certificate No. 98/0075 - 3rd print: 1999-11-05; laid strictly in accordance with the manufacturers instructions on 50mm sand blinding layer; no allowance for laps; tape the radon barrier to the walls and at joints with radon tape in accordance with good practice and homebond house building manual</u>					
	Damp proofing					
D	not exceeding 300mm wide; vertical	197	m			
E	exceeding 300mm wide; vertical	5	m2			
F	exceeding 300mm wide; horizontal	485	m2			
	<u>Collars around pipes, standards and the like; depth of collar to manufacturers recommendations</u>					
	Collars around pipes, posts and the like					
G	PVC drainage pipework; 150mm nominal diameter	8	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Unilin Thin-R XT/ PR_ UF or equivalent manufactured to EN 13165 by Unilin or equivalent, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings.</u>					
	Insulation					
A	thermal; exceeding 300mm wide; laid horizontally; 150mm deep	485	m2			
	<u>Unilin Thin-R XT/ PR_ UF or equivalent manufactured to EN 13165 by Unilin or equivalent, comprising a rigid Polyisocyanurate (PIR) core between low emissivity gas tight facings.</u>					
	Insulation					
B	not exceeding 300mm wide; vertical	197	m			
C	exceeding 300mm wide	5	m2			
	<u>15mm thick Fibre cement board protection to proprietary adhesive vertical DPM (measured elsewhere); to face of step in slab to boiler; refer to Engineers detailed drawings.</u>					
	Sundries					
D	exceeding 300mm wide	5	m2			
	<u>40mm Unilin Perimeter Strips (XT/STR) or equivalent around floor perimeter to provide robust detailing in order to reduce thermal bridging; ensure top of perimeter strip is level with top of floor finish; seal around any service penetrations.; refer to Engineers detailed drawings.</u>					
	Sundries					
E	not exceeding 300mm wide; horizontal	295	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>DRAINAGE</u>					
	DRAINAGE BELOW GROUND					
	<u>Excavating trenches to receive pipes; not exceeding 250mm nominal size; grading bottoms; earthwork support; disposing of surplus excavated material by removing off site</u>					
	Excavating; starting from reduced level; filling in above 400mm thick bed and cover with Type B clause 804 in accordance with Engineer's specification					
A	average depth not exceeding 0.50m	18	m			
	<u>Selected granular material in accordance with Engineer's specification</u>					
	Beds and surrounds					
B	400mm wide x 400mm thick bed and surround; to 110mm pipe	18	m			
	Vertical casings					
C	500mm wide x 500mm thick at blanked radon outlet	5	m			
	<u>uPVC pipes; I.S. 424; air tight welded joints in the running length</u>					
	110mm pipework; in trenches					
D	laid in position horizontal	18	m			
E	laid in position vertical	5	m			
	<u>Extra over</u> pipes on which they occur for					
F	pipe capping	5	nr			
	<u>Monarflex Easi Sump sump complete; including all base supports as required; back fill all around with clean broken stone to Engineer's specification; including all excavation and disposal off site</u>					
	Radon sump					
G	internal size 400 x 400 x 500mm deep; one 110mm diameter opening	5	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Testing and commissioning</u>					
	Testing testing the radon drainage system to the Architects satisfaction as the work proceeds and on completion	1	item			
					To Collection €	

BQ/96

BQ/97

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/97 BUILDING STRUCTURE Carried to Summary					
BQ/98					

Description		Qty	Unit	Rate	€	c
<u>(21) EXTERNAL WALLS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>CONCRETE WORK</u>						
PRECAST CONCRETE						
<u>Killeshal precast lintel beams; refer to drawings for lintel codes with respect to span; lintel beams to have min bearing each side; as Engineers specification</u>						
Lintels						
A	100mm wide x 215mm deep	41	m			
<u>Precast Concrete padstone; 'Killeshal' or equivalent 40N padstones; bedded in gauged mortar</u>						
Padstones						
B	to suit 100mm blockwork walls	38	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Precast concrete cills (100mm face depth to suit wall make-up, extends 100mm horizontally both sides of window jamb) to all proposed windows wrapped with DPC, have 25mm vertical insulation to rear and have concrete backfill/ soap bar; bedded in gauged mortar</u>					
	Window Cills					
A	100mm face x 135mm back x 350mm deep	29	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid Concrete Blocks; I.S. 325 & 20; compressive strength S7.5N; to be used with interlaced coursing providing solid blockwork to minimum overall thickness; masonry mortar type I:0.5:4/4.4 (cement: lime: sand); recessed pointing; as Engineers specification</u>					
	Walls					
B	100mm thick	513	m2			
	<u>Extra over</u> Solid Concrete Blocks					
C	reveals; Mannok or equivalent solid thermal blocks cavity closer blocks with nib returned across cavity; 30 minute minimum fire resistance	84	m			
	Bonding to other work					
D	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	50	m			
	ANCILLARIES TO BRICKWORK / BLOCKWORK					
	<u>Ancon RT2 ties at 450mm centres maximum horizontal and vertical centres, plus additional ties around opening and joints as per Engineers specification and BBA Certification or equal approved; all as per Engineer's Specification</u>					
	Forming cavities					
E	150mm wide; between new walls	210	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Closing cavities; Proprietary cavity closer insulation shall be Unilin close-R (FR) or equivalent; Contractor to close all cavities at wall plate (eaves) and verge Safe-R Close-R or equivalent 150mm (Product Code- XTCLSR1200150) rigid Phenolic core between low emissivity foil facings; to be installed in accordance with instructions issued by Manufacturer.</u> Closing cavities; top of walls A 150 x 25mm Xtratherm proprietary Cavity Closer 67 m <u>Closing cavities; full fill cavity wall cavity closer insulation to all window / door openings shall be 100mm depth Unilin Close-R (FR) or equivalent; the Fire Rated cavity closer insulation shall be Unilin Close-R (FR) or equivalent manufactured by Dacatie, comprising a Rigid PVC-U Outer Profile with encapsulated mineral wool; to be installed in accordance with instructions issued by Manufacturer.</u> Closing cavities; jambs B 150 x 25mm Xtratherm proprietary Cavity Closer 65 m Closing cavities; heads C 150 x 25mm Xtratherm proprietary Cavity Closer 37 m <u>Built-in full fill cavity wall insulation shall be Unilin Thin-R CavityTherm CT/PIR or equivalent manufactured to EN 13165 by Unilin or equivalent, including corner boards and ancillary detail components, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings with engineered HIPS outer skin; 150mm CT/PIR or equivalent with a Agreement declared Lambda value of 0.021 W/mK to achieve a U value of 0.13W/m2K for the wall element; to be installed in accordance with instructions issued by Unilin or equivalent.</u> Insulation D 110mm thick; between new walls 212 m2 E 25mm vertical, to rear of cill 29 m F 25mm horizontal, below window boards 29 m					
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Flexible sheet cavity tray with Code 5 Lead Flashing; all lead work to be carried out in accordance with recommendations of Lead Sheet Association (UK)</u>					
	Cavity trays					
A	150mm cavity; overall girth 390mm; bends - 2 nr; window and door heads	37	m			
	<u>DPCs shall conform to the recommendations of IS 57, BS 743, BS 6398 and BS 6515. Where sheet DPCs span across cavities, to prevent the downward ingress of water these are to be in the maximum possible un-jointed lengths, fully supported over the cavity when horizontal, fixed tightly across the cavity to prevent sagging when stepped, end jointed by welding, double welting or sealing with adhesive tape or compound and carefully protected from perforation and damage</u>					
	Damp proof courses					
B	not exceeding 225mm; horizontal; in walls	37	m			
C	not exceeding 225mm wide; vertical; at jambs	65	m			
D	exceeding 225mm; horizontal; under window cills	15	m2			
	<u>100mm Vents ICON TL100DE or equivalent; 100/150mm background natural ventilation vents as indicated on architects proposed floor plans; final locations can be agreed on site with Architect prior to commencement of works; where indicated in existing construction contractor to include for core in existing construction, installation of wall vent and making good to all finishes internally & externally. and for all attendances and builders work associated with this installation.</u>					
	Sundries					
E	ventilation openings	11	nr			
	<u>'Tescon Pro Clima' or equal approved High-Grade Air-Thightness Tape, taped to blockwork around all window / door openings</u>					
	Air-Thightness Tape					
F	width not exceeding 300mm; to window and doors heads and reveals	102	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>18mm thick; vertical; joint filler for movement joints shall be compressible non-extruding board impregnated with high grade bitumen compound to Clause 1727; two-part polysulphide sealing compound to BS 4254 in selected colour; movement joint cover strips to be extruded aluminium and elastomerictype to Architect's approval; wall ties as specified at 225mm vertical centres each side of joint; refer to Engineer's specification</u> Designed joints movement joints in 100mm blockwork	16	m			
	<u>STRUCTURAL</u>					
	STEELWORK					
	<u>'Steelite lintel or equal approved pressed metal insulated lintel to B.S.2989: 1982; design by manufacturer to be approved by engineer prior to installation; bedded in cement sand and lime mortar (1:1:3); minimum bearing 150mm both sides for spans up to 2250mm and 200mm end bearing for spans in excess of 2250mm; supporting 100mm external leaf blockwork; 100mm internal leaf blockwork with 150mm cavity</u> Lintels					
B	steelite lintel HD (2nr)	9	m			
C	steelite lintel CL (1nr)	5	m			
To Collection €						

BQ/104

Description		Qty	Unit	Rate	€	c
<u>(22) INTERNAL WALLS, PARTITIONS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the internal walls / partitions associated with the extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>CONCRETE WORK</u>						
PRECAST CONCRETE						
<u>Killeshal precast lintel beams; refer to drawings for lintel codes with respect to span; lintel beams to have min bearing each side; as Engineers specification</u>						
Lintels						
A	215mm wide x 215mm deep	19	m			
<u>BRICKWORK AND BLOCKWORK</u>						
BRICKWORK/BLOCKWORK						
<u>Solid textured concrete loadbearing blocks; I.S. EN 771-3:2011; compressive strength S7.5N; stretcher bond in using M4(II) mortar</u>						
Walls						
B	100mm thick	35	m2			
C	215mm thick	218	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	330mm thick <u>Extra over</u> for special bricks/blocks	7	m2			
B	like items; radiator recesses; 1200mm high ANCILLARIES TO BRICKWORK / BLOCKWORK <u>Firestopping; Rockwool firestop or equivalent, fitted to top of blockwork compartment walls Note: Firestopping must be fitted between timber battens and above roofing felt; jointing with intumescent sealer and finishing with fire rated coating; to give 60 minute fire rating; all in accordance with the manufacturers instructions; all in accordance with Architects specification and drawings</u> Firestopping	4	m			
C	approx 150mm high; filling junction between blockwork walls and roof	76	m			
					To Collection €	

BQ/107

	Description	Qty	Unit	Rate	€	c
	<u>(27) ROOF STRUCTURE</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. The work measured hereunder, refers to the roof structure construction associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. The Contractor MUST note that the roof members measured herein are not intended to be an exhaustive list and that the rates herein should make provision for any adjustment so required to achieve a fixed price for the works.		Note			
	3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
A	4. All Roof Steel measured in Element [28] Frame		Note			
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Prefabricated Roof Trusses in accordance with EN14082-1:2016 and shall be sized in accordance with SR 71:2015 timber in construction eurocode 5 - span table and guidelines; stress grades kiln dried timber to comply with current building regulations; double vacuum pressure impregnated with an approved preservative; fixed with galvanised steel toothed plate connectors; all designed and installed in accordance with IS193:1986 and current building regulations to Engineer's approval and Manufacturer's instructions</u>					
B	Prefabricated trusses; span 9000mm - 10000mm; 400mm centres	51	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Structural softwood in accordance with Timber Specification; grading standard to EN 14081-1; strength class C16 to EN 338; approved species and origin; surface finish PAO; preservative treatment in accordance with B. S. 8417</u> Carcassing					
A	flat roofs; 225mm x 44mm C16 joists	759	m			
B	flat roofs; 225mm x 44mm C16 bridgings	241	m			
C	flat roofs; tilting fillets 44mm C16 joists	759	m			
D	pitched roofs; 100mm x 75mm wall plate; fixing by bolting	65	m			
E	trimmers for roof lights; 225 x 44mm C16	105	m			
F	ledger fixed to truss with 8mm x 140mm structural screws at 400mm centres minimum; 60mm embedded into existing truss	48	m			
	BOARDING AND SECOND FIXINGS					
	<u>18mm Plywood generally shall comply with BS 1455; plywood shall be WBP bonded first grade and shall be faced with veneer as specified; one side shall be completely free from joints and surface defects; joints and minor blemishes will be permitted on the reverse side only; where both sides of the plywood are exposed, these shall be totally free of joints and surface defects; all in accordance with Engineers Drawings and Specification</u> Boarding and sheeting					
G	roofs; flat roof; exceeding 300mm wide	305	m2			
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Metal accessories to woodwork in mild steel; purlins to be fixed to trusses with 30 x 2.5mm thick heavy duty, weatherproof galvanised steel l brackets; provide brackets every 4th rafter and stagger locations.</u> Accessories; straps and hangers					
H	pitched roofs; strap trusses and wall plates at 1.8m centres with 750mm long 35.5mm galvanised straps	34	nr			
J	30 x 2.5mm thick heavy duty, weatherproof galvanised steel L brackets	320	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/108 Page No. BQ/109 (27) ROOF STRUCTURE Carried to Summary					
BQ/110					

BQ/111

BQ/112

	Description	Qty	Unit	Rate	€	c
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the supply & installation of all the external windows and doors associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
4. Dimensions are for pricing purposes only - all opes to be surveyed by window manufacturer prior to manufacture			Note			
A	5. Window supplier to include for all associated flashings and drips.	1	Item			
6. All windows to be triple glazed aluminium windows, be designed and manufactured to comply with technical guidance document 021-1 guidance on the specification of windows by the department of education and science.			Note			
7. Thermally broken aluminium open out rebate type doors with Part M compliant wheelchair thresholds and emergency escape panic bolts; openings to be in accordance with latest t.g.d.; complete with ironmongery.			Note			
8. 1 hour or 1/2 hour fire-rating as indicated			Note			
9. The handing of all window opes / doors are as indicated on plans / elevations			Note			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated</u>					
	First fixings					
A	75 x 20mm grounds for window board	14	m			
	BOARDING AND SECOND FIXINGS					
	<u>Window boards to be 19mm softwood; primed and painted with pencil rounded fixed to treated battens with insulation between where appropriate; battens plugged & screwed to lean mix fill to rear of cill.; in accordance with Architects drawings and specification</u>					
	Second fixings					
B	windowboards; 19mm thick	14	m			
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Tescon Pro Clima or equivalent taped and sealed; perimeter seals as required to meet acoustic performance; applied in accordance with manufacturers instructions and recommendations; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
C	air seals; tape to windows and doors	78	m			
	<u>METALWORK</u>					
	NON-STRUCTURAL					
	<u>Triple glazed polyester powder coated; commercial grade; thermally broken aluminium windows and doors specified exceeding D.O.E TGD 021-1; u-value to exceed the performance of 1.2 W/m2K as per 2019 building regulations (nZEB); refer to Architects Specification 28 PROPOSED WINDOWS AND DOORS for specification.</u>					
	Composite items; Doors					
D	Door Type 1; overall size 3000mm wide x 2700mm high; 1200 x 2100mm high single leaf door with glazed side screen and fanlight above; include here for 90 x 90 x 5mm galvanised SHS to corner detail to W01 (measured elsewhere)	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Door Type 2; overall size 2800mm wide x 2700mm high; double leaf door 2100 x 2100mm high with glazed side screens and fanlight above	1	nr			
B	Door Type 4; overall size 2500mm wide x 2700mm high; single leaf door 1200 x 2100mm high with glazed side screen and fanlight above	1	nr			
	Composite item; Windows					
C	windows; 1600mm wide x 2700mm high	1	nr			
D	windows; 1800mm wide x 1500mm high	2	nr			
E	windows; 600mm wide x 900mm high; opaque	4	nr			
F	windows; 1800mm wide x 1500mm high	4	nr			
G	windows; 4300mm wide x 1500mm high	1	nr			
	<u>Extra over</u> for					
H	like item; trickle vent to provide background ventilation in accordance with TGD F 2019	9	m			
	<u>Louvered boiler room door; 74mm thick; aluminium extrusions type 6063-T6 to BS1474 having a minimum thickness of 1.6mm, wide variety of colours and finishes available.</u> <u>construction: louvre blades are inclined at 45degree and mounted at 50mm centres within a 74mm deep angle frame, which is mounted on a box section sub-frame for rigidity; optional galvanised bird & vermin mesh can be supplied; door frame: construction: folded from 1 6mm Zintec/Aluzinc; screw and tab construction with 4no. adjustable fixing feet per jamb, variable subframe supplied as standard to accommodate site tolerance of -0/+30mm; frame is fitted with 3no. Class 13 stainless steel hinges with 2no. security dog bolts; polyester powder coated from standard colour range; refer to Architects Specification 28 PROPOSED WINDOWS AND DOORS for specification.</u>					
	Composite items					
J	doors; double leaf doors; 1800mm wide x 2100mm high FD60	1	nr			

To Collection €

BQ/116

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/113 Page No. BQ/114 Page No. BQ/115 Page No. BQ/116 (31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS Carried to Summary					
BQ/117					

Description	Qty	Unit	Rate	€	c
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS <u>NOTES</u> Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Architect's & Engineer's Drawings / Specification Information generally 1. The work measured hereunder refers to the supply & installation of all the internal doors associated with the new extension and existing building as required. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions. 2. The work measured hereunder refers to the internal doors, frames, architraves, and ironmongery requirement for the project within the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions. 3. Please note that the doors and screens measured hereunder are composite items and the rates quoted should include for the door, frame and glazing beads as described. Door sizes given are indicative only to the blockwork ope size. 4. The composite item is deemed to include all component items outlined in the Architect's specification i.e. slips, stop beads, glass, etc 5. All mortices and holes together with packing material between the frame and structure of all doorsets and framesets are deemed to be included		Note Note Note Note Note Note Note			
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated</u>					
	First fixings					
A	35 x 15mm, fixing to blockwork backgrounds	67	m			
	BOARDING AND SECOND FIXINGS					
	<u>100 x 19mm red deal architraves; in accordance with Architects specifications</u>					
	Second fixings					
B	architraves; 100 x 19mm	134	m			
	COMPOSITE ITEMS					
	<u>60 minute fire rated; solid formica laminate door with vision panel as indicated; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification internal doors and screens details.</u>					
	Composite items					
C	Door Type 13; 54mm thick; with vision panel (measured below); 2200mm wide x 2100mm high structural ope; FD60S (D12)	1	nr			
	<u>Extra over</u> the above for					
D	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	2	nr			
	<u>30 minute fire rated; solid formica laminate door with vision panel as indicated; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification internal doors and screens details.</u>					
	Composite items					
E	Door Type 15; doors with associated frame set; double leaf with vision panels (measured below); 2200mm wide x 2100mm high structural ope; FD30S (D03, D05 & D25)	3	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> the above for					
A	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	6	nr			
	<u>Solid formica laminate door; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification for internal doors and screens details.</u>					
	Composite items					
B	Door Type 10; doors with associated frame set; single leaf; 900mm wide x 2105mm high structural ope; NFR (D07, D08, D09 & D10)	4	nr			
C	Door type 7; doors with associated frame set; single leaf with vision panel (measured below); 1050mm wide x 2105mm high structural ope; NFR (D06, D11, D24 & D28)	4	nr			
	<u>Extra over</u> the above for					
D	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	4	nr			
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Refer to KCC Ironmongery Specification for ironmongery requirements; contractor to include for supply, installation and commissioning of all items and associated works referred to in the specialist Ironmongery Schedule or equal and approved supplier.</u>					
	Double Corridor Door set - FD 60s; refer to ironmongery schedule in architect spec					
E	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	4	nr			
F	KCC or equivalent Floor Mounted Door Stop	2	nr			
G	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	4	nr			
H	KCC Stainless Steel 304 Square Corner Finger Plate; 75mm x 650mm.	2	nr			
J	KCC or equivalent Round Bar Pull Handle. A25 x B600 x C575 x D75. BT Fixing	2	nr			
K	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	12	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	2	nr			
B	Dormakaba or equivalent Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	2	nr			
C	Frisco or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	6	nr			
D	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	2	nr			
	Double door corridor door set - FD30s; refer to ironmongery schedule in architect spec					
E	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	12	nr			
F	KCC or equivalent Floor Mounted Door Stop	6	nr			
G	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	12	nr			
H	KCC Stainless Steel 304 Square Corner Finger Plate; 75mm x 650mm.	6	nr			
J	KCC or equivalent Round Bar Pull Handle; A25 x B600 x C575 x D75. BT Fixing	6	nr			
K	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	36	nr			
L	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	6	nr			
M	Dormakaba or equivalent Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit; 53010001	6	nr			
N	Frisco or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	18	nr			
P	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	6	nr			
	Single doorset for standard W/C; FD Nil; refer to ironmongery schedule in architect spec					
Q	KCC or equivalent Grade 304 Stainless Steel Unisex Symbol	4	nr			
R	Hat & Coat Hook	4	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	KCC or equivalent Floor Mounted Door Stop	4	nr			
B	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm x 900mm wide	8	nr			
C	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	4	nr			
D	KCC or equivalent Stainless Steel 304 Standard Thumb turn & Release. 6mm	4	nr			
E	Frisco Stainless Steel Maintenance Free Self-Lubricating Thrust Bearing Hinge to hEN1935 grade 47614014 and Certifire CF336	12	nr			
F	KCC or equivalent Heavy Duty Modular Bathroom Lock c/w; Anti-Rattle Adjustable Strike Plate to EN12209 grade 3X510F-BG20 and Certifire CF5234	4	nr			
G	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	4	nr			
	<u>60 minute intumescent fire and smoke seals ; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
H	intumescent seals; 15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door	7	m			
	<u>30 minute intumescent fire and smoke seals; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
J	intumescent seals; 15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door	20	m			
	<u>Perimeter seals as required to meet acoustic performance, Maximum 30RW (dB) for airborne sound insulation between circulation spaces and other spaces used by students; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
K	air seals	42	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Access control system to be provided as indicated on architects. Refer to Architects Door Schedule; to be read in conjunction with M&E engineers</u> Access Control A Allow for supply of access control as per Galileo Energy Services design	1	item			
	<u>PAINTING AND DECORATING</u> PAINTING AND DECORATING <u>All joints, nail/screw heads to be filled, fully sanded and cleaned down; fleetwood water based satinwood undercoat 1 no. coats; fleetwood water based satinwood 2no. coats.</u> General surfaces B not exceeding 300mm girth; architraves	134	m			
					To Collection €	

BQ/124

Description		Qty	Unit	Rate	€	c
<u>(37) ROOF COMPLETIONS</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>METALWORK</u>						
NON STRUCTURAL						
<u>Velux roof window to pitched roof; 940mm x 1400mm; electronically top operated; including upstands, flashings, timber framing, plasterboard to inside face and skim on completion; all in accordance with Architects Drawings and Specification</u>						
Composite items						
A	rooflights; size 940mm x 1400mm	4	nr			
<u>Fakro Type Z roof light to flat roof areas; 1200mm x 1200mm; including upstands, flashings, timber framing, plasterboard to inside face and skim on completion; all in accordance with Architects Drawings and Specification</u>						
Composite items						
B	rooflights; size 1200mm x 1200mm	9	nr			
					To Collection €	

BQ/126

BQ/127

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/127 BUILDING FINISHES Carried to Summary					
BQ/128					

BQ/129

	Description	Qty	Unit	Rate	€	c
	<u>20mm PVC Movement Joint Beads (Expansion Joints)</u> <u>Composition; exterior grade impact resistant UV stable</u> <u>unplasticised PVC; dimensions (mm)- 13mm exposed width and</u> <u>25mm wings each side; depth (mm) - 18-22mm render depth;</u> <u>White; all in accordance with Architects Drawings and</u> <u>Specification</u>					
	Sundries					
A	movement joints; 20mm PVC Movement Joint	43	m			
	<u>Stainless steel accessories; fixing with plaster dabs or</u> <u>staples to blockwork/concrete backgrounds; all in accordance</u> <u>with Architects Drawings and Specification</u>					
	Sundries					
B	like items; stop bead; "Expamet Ref 542" or equivalent	78	m			
C	like items; angle bead; "Expamet Ref 545" or equivalent	102	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Contractor to include for painting of all external walls of</u> <u>proposed extension and existing block where alterations are</u> <u>taking place; 3 x no coats DULUX or equivalent trade weather</u> <u>shield finish externally; colour to be approved by architect</u> <u>prior to application.</u>					
	Walls					
D	not exceeding 300mm wide	17	m2			
E	exceeding 300mm wide	243	m2			
					To Collection €	

BQ/131

Description		Qty	Unit	Rate	€	c
<u>(42) WALL FINISHES INTERNALLY</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FLOOR, WALL AND CEILING FINISHES</u>						
BOARD FINISHES						
<u>Contractor to include for existing external walls which become internal walls to be dry lined using 12.5mm gypsum or equivalent plasterboard board with gyproc or equivalent skim coat finish; products to be used in strict accordance with the manufacturers instructions; contractor to make good and ensure proposed / existing surface finishes are to a high standard approved by architect; dry lining can be fixed using mechanically to 25 x 50mm timber battens; refer to Architects specification 10.</u>						
A	Walls					
	exceeding 300mm wide	308	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	INSITU FINISHES					
	<u>11mm gypsum gyproc hardcoat or equivalent (not plasterboard) to be applied to both sides of internal walls, lightly scratched prior to 2mm gyproc or equivalent Skim coat finish; products to be used in strict accordance with the manufacturers instructions; contractor to allow for all internal walls to be constructed to underside of roof / floor slab and sealed with rockwool linear fire stopping or equivalent / fireproofing sealant where fire rating is required; refer to F.S.C drawings and report attached in Architects appendix documents; Note: where radiator recesses are provided, contractor to provide 215mm structural support over 100mm backing blockwork to Engineers specification; radiator recesses to be co-ordinated in conjunction with galileo M&E drawings and specification with 150mm clear width provided to perimeter.</u>					
	Walls					
A	not exceeding 300mm wide	18	m2			
B	exceeding 300mm wide	444	m2			
	<u>Stainless steel accessories; fixing with plaster dabs or staples to blockwork/concrete backgrounds; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
C	like items; stop bead; "Expamet Ref 542" or equivalent	212	m			
D	like items; angle bead; "Expamet Ref 545" or equivalent	212	m			
	TILE SLAB AND MOSAIC FINISHES					
	<u>Supply and fit Altro Whiterock Satins or equivalent hygienic wall cladding; splashback above all proposed wash hand basins (300mm high) kitchenettes where base unit only is provided a 300mm splashback to be included, including associated product trims, product colour TBC by architect prior to installation; to be installed as per manufactures instructions.</u>					
	Walls					
E	exceeding 300mm wide	3	m2			
					To Collection €	

BQ/134

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/132 Page No. BQ/133 Page No. BQ/134 (42) WALL FINISHES INTERNALLY Carried to Summary					
BQ/135					

	Description	Qty	Unit	Rate	€	c
	<u>(43) FLOOR FINISHES</u>					
	<u>NOTES</u>					
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.		Note			
	2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
	<u>CONCRETE WORK</u>					
	IN SITU FINISHES					
	<u>75mm minimum levelling screed (Kilsaran Cemfloor) on separation layer building paper or 250 Gauge Polythene Membrane unless stated otherwise by screed manufacturer; reinforced insitu concrete; Grade C32/40; vibrated; to Engineers specification.</u>					
A	Screed exceeding 300mm wide	417	m2			
	SUNDRIES					
	<u>Surface finish to slabs to engineer's approval</u>					
B	Surface finishes powerfloating screed	417	m2			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	REINFORCEMENT					
	<u>A193 anti-crack mesh to top with 25mm cover; ; no allowance in measurement for laps; as per Engineers drawings and specification</u>					
	Fabric					
A	horizontal; screed	417	m2			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Contractor to allow for architect approved IAB & BBA certified tanking system to be applied to floor & wall surfaces prior to altro satins splashback in proposed shower room wet room; walls to be tanked to a height of 100mm up-stand provided generally; shower wet areas to be tanked to full height and to a width of minimum 300mm beyond enclosure; all to be constructed entirely in accordance with manufacturer's instructions & recommendations and to be carried out by an approved contractor; allow for appropriate system trims in all showers.</u>					
	Floors					
B	exceeding 300mm wide	21	m2			
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated.</u>					
	First fixings					
C	45 x 22mm treated continuous softwood grounds; fixed to blockwork / concrete	295	m			
	BOARDING AND SECOND FIXINGS					
	<u>19mm red deal; skirtings 150mm high; all fixings shall be recessed with pre drilled, filled and sanded prior to decoration.</u>					
	Second Fixing					
D	150 x 19mm thick	295	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>FLOOR, WALL AND CEILING FINISHES</u>					
	IN SITU FINISHES					
	<u>ARDEX NA or equivalent liquid levelling compound to be applied along with a suitable liquid DPM to floor surface before laying floor finish.</u>					
	Levelling compound					
A	exceeding 300mm wide; to screed for flexible sheet finish	459	m2			
	<u>Isomat or equivalent products to be used; epoxy resin flooring to be used in rooms indicated on floor finishes drawing; all in accordance with Architects Drawings and Specification</u>					
	Floors					
B	exceeding 300mm wide; horizontal	9	m2			
	FLEXIBLE SHEET FINISHES					
	<u>Forbo - Sphera Energetic PUR colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
C	exceeding 300mm wide; horizontal	438	m2			
	<u>Forbo - Surestep PUR colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
D	exceeding 300mm wide; horizontal	21	m2			
					To Collection €	

BQ/139

	Description	Qty	Unit	Rate	€	c
	<u>Matwell frame; 30 x 30 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u>					
	Framing					
A	30 x 30 x 4mm thick	17	m			
	<u>Forming or leaving sinkings in concrete for door mats including all cutting and all leveling screeds required</u>					
	Sundries					
B	1350 x 950mm wide	1	nr			
C	1500 x 800mm wide	1	nr			
D	2800 x 950mm wide	1	nr			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>1nr coat fleetwood or equivalent water based satinwood undercoat; 2nr coats fleetwood or equivalent water based satinwood; all joints, nail/screw heads to be filled, fully sanded and cleaned down.</u>					
	Second Fixing					
E	not exceeding 300mm girth	295	m			
					To Collection €	

BQ/141

BQ/142

	Description	Qty	Unit	Rate	€	c
<u>FLOOR, WALL AND CEILING FINISHES</u>						
SUSPENDED CEILINGS						
<u>600X600mm Acoustic grid ceiling; Contractor to allow for an Armstrong ULTIMA+ or equivalent Suspended ceiling Tile system throughout the proposed extension; new perimeter trim to be provided through, fixed directly to masonry wall; Refer to Architects specification (section 19) for ceiling tile, exposed grid system, main runner and cross tee slots.</u>						
Ceilings						
A	depth exceeding 150mm - not exceeding 500mm	459	m2			
Upstands/downstands						
B	vertical; exceeding 500mm high	74	m2			
Accessories						
C	edge trim; galvanised steel L perimeter trim fixings (1924 HD), baked polyester	377	m			
D	Gyproc Sealant applied around perimeter of ceiling	377	m			
E	Airtightness Barrier	377	m			
<u>Metal Stud Partition system type CasoLine MF or equivalent standard non fire rated system to all lobbies and the Office; Product Substantiation Report (PSR) reference C100016 (Attached in Appendix); Refer to Architects specification (section 19) for performance characteristics, framing components, plasterboard components and finishes.</u>						
Ceilings						
F	depth exceeding 150mm - not exceeding 500mm	10	m2			
Accessories						
G	Gyproc Sealant applied around perimeter of ceiling	12	m			
H	Airtightness Barrier	12	m			
					To Collection €	

BQ/144

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/142 Page No. BQ/143 Page No. BQ/144 (45) CEILING FINISHES Carried to Summary					
BQ/145					

Description		Qty	Unit	Rate	€	c
<u>(47) ROOF FINISHES</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>ROOFING CLADDING AND WATERPROOFING</u>						
MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS						
<u>Supply and fit modified bitumen membrane roof finish; baulderflex roof system or equivalent; including primer, vapour control layer, insulation, waterproof covering etc.; all in accordance with Architects Drawings and Specification</u>						
Coverings						
A	horizontal; exceeding 300mm wide including dressing over parapet	266	m2			
B	vertical; exceeding 300mm wide including dressing over parapet	12	m2			
C	vertical; exceeding 300mm wide including dressing over existing wall	22	m2			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	Skirtings					
A	vertical; girth 150 -300mm girth; including angle fillet; mechanical fixings, sealers, etc	142	m			
	Gutters					
B	girth 600-750mm; bends - 4; including timber filler pieces etc	26	m			
	Collars around pipes, standards and the like					
C	rainwater outlets; 100mm diameter; dressing into opes etc.	7	nr			
	SLATE AND TILE COVERINGS					
	<u>Monier Redland Cambrian Slate grey or equivalent 600 x 300mm to proposed pitched roof; including battens, counter battens, tyvek supro plus or equivalent membrane etc.; all in accordance with Architects Drawings and Specification</u>					
	Coverings					
D	slope not exceeding 45 degrees; exceeding 300mm	232	m2			
	Eaves					
E	double eaves course; proprietary UV resistant eaves carrier	59	m			
F	Glidevale FV250 fascia ventilator; flush eaves ventilator fitted to gutter edge of pitched roof; sarking nailed to softwood rafters and dressed down into gutters	59	m			
G	insect mesh fixed to batten at eaves	59	m			
	Ridges					
H	half round / universal angle ridges, 450mm; mortar pointed using 3:1 sand cement mix with pigment	47	m			
	Ventilation strip					
J	proprietary ventilation strip, see manufacturers specification for installation and fixing	78	nr			
	Like items					
K	sproket board to support breather membrane and prevent sagging	47	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	RIGID SHEET COVERINGS AND DECKING					
	<u>Fascia and soffit to be skyline product supplied by alumasc or equivalent; powder coated aluminium interlocking soffit and fascia systems; soffit to be Profile S0F0 and fascia to be profile SF4; RAL colour to be agreed; including necessary backing boards, fixings etc.; all in accordance with Architects Drawings and Specification</u>					
	Fascia					
A	girth 150-300mm	51	m			
	Soffit					
B	girth 150-300mm	51	m			
	FLEXIBLE SHEET METAL COVERINGS					
	<u>ARECO Roofing system or equal approved; power coated pressed aluminium, 2mm thick; powder coated; selected colour to architects approval to match bauder roofing; including all necessary tie straps, clips, screws, fasteners, cleader angles, mastic bedding and sealant, butyl rubber sealants, tapes, silicone sealants, AWP joint fillers, KZ12-90 EPDM joint fillers, fire rated cannister insulations, etc.; all in accordance with the manufacturers instructions and details</u>					
	Cappings					
C	girth 600 - 750mm; bends -4	36	m			
	<u>Extra over for</u>					
D	formed external / internal corners	8	nr			
	<u>Milled lead; BS 1178; code 5; 150mm lapped joints; fixing with lead tacks and wedges; treated with two coats of patination oil</u>					
	Flashings					
E	150 - 300mm girth; bends -3	103	m			
F	300 - 450mm girth; bends -3	47	m			
	<u>Extra over for</u>					
G	cutting chase into existing wall; bedding and pointing in gauged mortar	103	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>200mm mineral wool / earthwool or equivalent at 0.044W/mk packed between ceiling joists and 200mm mineral wool / earthwool or equivalent at 0.044W/mk laid across perpendicular to joists; all in accordance with Architects Drawings and Specification</u>					
	Insulation					
A	thermal; 400mm thick in 2nr x 200mm layers	232	m2			
	<u>DRAINAGE</u>					
	DISPOSAL ABOVE GROUND					
	<u>Alumasc Aqualine or equivalent Powder Coated Extruded Aluminium gutter & downpipe system to be included throughout, Refer to Architects appendix for product information; refer to Architects specification for further details</u>					
	Gutters					
B	Alumasc Aqualine or equivalent aluminium rainwater system; half round deep run; 110 x 85mm	20	m			
	Pipework					
C	downpipes	24	m			
D	shoes	7	nr			
E	swan necks	7	nr			
F	outlets	7	nr			
	<u>Roof Outlets; site fitted unless otherwise stated. All standard outlets supplied with sealing membrane; standard outlet diameters 100mm or 150mm (ext pipe dimensions); Weir Overflow: Size and location to contractors' drawings. Factory fitted unless otherwise stated.</u>					
	Pipework ancillaries					
G	110mm diameter	7	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/146 Page No. BQ/147 Page No. BQ/148 Page No. BQ/149 (47) ROOF FINISHES Carried to Summary					
BQ/150					

BQ/151

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/151 **BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)** Carried to Summary					
BQ/152					

Description		Qty	Unit	Rate	€	c
<u>(52) DRAINAGE AND REFUSE DISPOSAL</u>						
<u>MECHANICAL INSTALLATIONS</u>						
GENERAL						
<u>Supply, install and commission of Internal Drainage systems in accordance with the General & Particular Mechanical Specification</u>						
A	A system of uPVC soils and waste pipework shall be provided for under this contract for the new ASD unit extension building by the mechanical contractor as indicated on the drawings, for the removal of water-borne soil and waste matter from all sanitary fitments and sinks. This contract includes for soils and waste above the ground floor slab only, up to and including connection to the drain provided by others at ground level. All underground drainage by others.	1	item			
PRIMARY EQUIPMENT						
<u>Connection to Equipment and Sanitaryware</u>						
B	The Mechanical Contractor shall be responsible for the installation and connections of all sanitary fitments, WC's, WHB's, sinks, etc., as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
C	The Mechanical Contractor shall allow for connecting the new uPVC soils and wastes pipework for the new sanitary fitments, kitchen equipment, sinks, etc. to the waste pop-ups in the building as indicated on the drawing; all in accordance with Services Engineers Drawings and Specifications	1	Item			
D	The Mechanical Contractor shall allow for all final uPVC waste connections to all WHB's, sinks, WC's, etc. as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
PIPEWORK						
<u>Exposed waste pipework and waste pipework at L/L in furniture</u>						
E	50mm diameter uPVC waste float pipework at L/L and shall be hidden from view within a box-out/fitted furniture	2	m			
					To Collection €	

Description		Qty	Unit	Rate	€	c
PIPEWORK FITTINGS AND ANCILLARIES						
<u>The mechanical contractor shall also be responsible for the supply and installation of a stainless steel floor gully in the boilerhouse as indicated on the drawing. The floor gully shall be manufactured from 316L stainless steel and shall be supplied complete with heel guards and foul air traps and connected to the local waste system. Gully positions to be agreed before installation commences. Refer to the drawings for locations and quantities of floor gullies required. Floor gully shall be supplied by Kent Stainless, Richmond Trading or equivalent. The floor gully to be installed for the boilerhouse shall be as KVT170/110TPSQ with foul air trap KFT110, grade 316 Stainless steel with Square Perforated Cover Plate. The gully shall be suitable for installation in a concrete finished floor.</u>						
A	150mm x 150mm floor gully. Floor gully shall be connected to new 110mm diameter builders work floor socket. Builders waste floor socket shall be installed by the main contractor	1	Nr			
<u>New soil vent pipes shall be installed by the mechanical contractor as indicated on the drawings for the venting of the water pipework in the building. Soil vent pipes shall rise vertically through the building to terminate above roof level in locations indicated on the drawings. These vent pipes shall be fitted under this contract. Final location to be agreed with the Employer's Representative. All soil vent pipes shall be complete with weathering sleeve and vermin guard.</u>						
B	New 110mm diameter waste floor socket for soil vent pipe (SVP). Builders waste floor socket shall be installed by the main contractor. SVP shall rise to the roof level and extend 1000mm above sea level. Allow for a pipework rise of approximately 4000mm from ground level to roof level.	1	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>The mechanical contractor shall be responsible for the supply and installation of all fire collars for the soils and wastes pipework. Waste pipes shall pop through the floor slab and fire walls in parts of the building as indicated on the drawings. Where these pipes pass through any fire compartment, intumescent fire collars shall be installed on the uPVC pipe and fixed to the floor. Fire collars shall be installed on any plastic waste pipework over or equal to 50mm. These collars shall seal the uPVC pipe in the event of a fire. Where soils and wastes pipework passes through fire compartment walls, intumescent fire collars shall be installed on the uPVC pipe and fixed to the wall. Fire collars shall adhere to the following specifications; have a mild galvanised casing; 2-hour fire rating metal shell produced in two hinged halves and lined with intumescent material. ; surface mounted; lightweight and easy to install; design allows for thermal movement of the pipe; fixing brackets mechanically attached to the collar housing; CE rated; tested to BS476 Part 20 & EN 1366-3; CE marked; suitable for PVC, PVC-U, PE, MDPE & PP pipes. Fire collars shall be installed in accordance with manufacturer's instruction.</u>						
A	Fire collar installed on waste pipework passing through fire compartment floor or wall.	2	Nr			
<u>Clensing eyes shall be installed on all soils and wastes pipework for cleaning blockages as necessary. The contractor shall allow for adequate access to the installation to allow cleaning and testing.</u>						
B	Cleaning eye	2	Nr			
<u>The mechanical contractor shall be responsible for the installation and connections of all sanitary fitments, WC's, WHB's, sinks, etc., in the toilet areas and boilerhouse as indicated on the drawings. All these items shall be supplied free issue by others to the mechanical contractor for fitting. The mechanical contractor shall allow for connecting the new uPVC soils and wastes pipework for the new sanitary fitments, kitchen equipment, sinks, etc. to the waste pop-ups in the building as indicated on the drawing. The mechanical contractor shall allow for all final uPVC waste connections to all WHB's, Sinks, WC's etc. as indicated on the drawings. All sanitary ware shall be supplied free issue to the mechanical contractor by the main contractor.</u>						
C	New 110mm diameter waste pop-up. Contractor shall allow for connecting the 110mm diameter waste pipework from the WC to the 110mm diameter pop-up. Builders waste socket in floor shall be completed by main contractor.	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	New 50mm diameter waste pop-up. Contractor shall allow for connecting the 32mm diameter waster pipework from the WHB to the 50mm diameter pop-up. Builders waste socket in floor shall be completed by main contractor	4	Nr			
B	150mm x 150mm floor gulley. Floor gulley shall be connected to new 110mm diameter builders work floor socket. Builders waste floor socket shall be installed by the main contractor	1	Nr			
C	New 110mm diameter waste floor socket for soil vent pipe (SVP). Builders waste floor socket shall be installed by the main contractor. SVP shall rise to the roof level and extend 1000mm above sea level. Allow for a pipework rise of approximately 4000mm from ground level to roof level.	1	Nr			
D	New 50mm diameter waste pop-up. waste floor socket shall be installed by the main contractor.	1	Nr			
E	New 40mm diameter waste pipework from bath. Waste pipework shall be connected to new 50mm diameter waste float pipework which shall be connected to a new 50mm diameter builders work floor socket. Builders waste socket in floor shall be completed by main contractor	1	Nr			
F	New 40mm diameter waste pipework from kitchen. Waste pipework shall be connected to new 50mm diameter waste float pipework which shall be connected to a new 50mm diameter builders work floor socket. Builders waste socket in floor shall be completed by main contractor	2	Nr			
G	New 40mm diameter waste pipework from sluice. Waste pipework shall be connected to new 50mm diameter waste float pipework which shall be connected to a new 50mm diameter builders work floor socket. Builders waste socket in floor shall be completed by main contractor	1	Nr			
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
H	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
J	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
K	Flush out of new pipework	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Pressure testing of new pipework	1	Item			
B	Sterilisation	1	Item			
C	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
	<u>Commissioning and system validation</u>					
D	Testing and commissioning as detailed in Engineer's specification	1	Item			
E	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
F	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
G	Working drawings	1	Item			
H	Co-ordination drawings	1	Item			
J	As-built drawings	1	Item			
	<u>General Builder's Work</u>					
K	Marking out and supervision of all Builder's Work	1	Item			
L	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

BQ/158

Description		Qty	Unit	Rate	€	c
<u>(53) WATER DISTRIBUTION</u>						
<u>MECHANICAL INSTALLATIONS</u>						
GENERAL						
<u>Supply, install and commission of Water Services Systems in accordance with the General & Particular Mechanical Specification.</u>						
A	Allow for the connecting the new mains water services pipework for the new areas to the existing mains water services pipework in the existing boilerhouse and for all attendances and material in doing so. The material of the incoming pipe is "Class C uPVC pipework and the material of the internal mains water pipework is multi-layer composite plastic pipework.	1	item			
B	supply, install, commission and test of mains water system; must comply fully with the Services Engineers Drawings and Specifications	1	item			
PRIMARY EQUIPMENT						
<u>Connection to Equipment and Sanitaryware</u>						
C	The Mechanical Contractor shall be responsible for the installation and connections of all sanitary fitments, kitchen equipment, sinks etc. as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
D	The Mechanical Contractor shall allow for connecting the new water services pipework to all the new sanitary fitments, kitchen equipment, sinks etc. in the building as indicated on the drawing. Refer to the drawings for locations, sizes of pipework, types of pipework, etc.; all in accordance with Services Engineers Drawings and Specifications	1	Item			
E	The Mechanical Contractor shall allow for connecting the new water services pipework to all the new sanitary ware as indicated on the drawing; all in accordance with Services Engineers Drawings and Specifications	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	TERMINAL EQUIPMENT AND FITTINGS					
	<u>Shower Panels</u>					
A	The contractor shall install 1 anti-viral pre-plumbed shower panel in the disabled toilet as indicated on the drawings. The shower panel for the disabled toilet shall adhere to the following specifications; WRAS approved pre-plumbed shower panel with integral adjustable TMV3 approved thermostatic mixing valve with flow and temperature adjustment and with easy clean single spray handset, flexible hose and slide bar; the shower panel shall have a sliding rail with a flexible hose; user selection of flow and temperature; shall have a satin finish stainless steel panel with hot and cold water pipe entry; the panel shall be supplied with and integrated adjustable temperature selection, feeding a Rada TF503 push button timed flow control and vandal resistant chrome plated shower head with integral strainer, flow regulator and with adjustable spray angle; shower panel as Rada PA-V8F with a satin finish stainless steel panel, or equivalent.	1	Nr			
	PIPEWORK					
	<u>All new internal water service pipework for the hot water services supply pipework to be installed in the new extension building shall be installed in light gauge copper to I.S EN 1057:2006 It shall be suitable for bronze welding. Tubes shall be uniform thickness, smooth, clean and free from internal and external defects. All ends shall cut clean square with the tube axis. All hot water service supply pipework shall be installed in copper. Copper tube for all internal hot water services supply pipework shall be as follows; Irish copper tube; CE marked; compliant with BS EN 1057. Where possible, all the main runs of the hot water services supply pipework shall be installed above ceiling in the ceiling void and as a result, shall be insulated. All hot water services supply pipework shall be sleeved as the pass through floor slabs and internal blockwork walls.</u>					
B	15mm HWSF copper at H/L in ceiling void	46	m			
C	22mm HWSF copper at H/L in ceiling void	6	m			
D	28mm HWSF copper at H/L in ceiling void	36	m			
E	35mm HWSF copper at H/L in ceiling void	2	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>All new internal water services pipework for the hot water services return pipework to be installed in the building shall be installed in light gauge copper to IS EN 1057:2006. It shall be suitable for bronze welding. Tubes shall be to uniform thickness, smooth, clean and free from internal and external defects. All ends shall be cut clean square with tube axis. All hot water services return pipework shall be installed in copper. Copper tube for all internal hot water services return pipework shall be as follows; Irish copper tube; CE marked; compliant with BS EN 1057. Where possible, all the main runs of the hot water services return pipework shall be installed above the ceiling in the ceiling void as a result, shall be insulated. All hot water services return pipework shall be sleeved as the pass through floor slabs and internal blockwork walls.</u>					
A	15mm HWSF copper at H/L in ceiling void	45	m			
B	22mm HWSF copper at H/L in ceiling void	6	m			
C	28mm HWSF copper at H/L in ceiling void	36	m			
D	35mm HWSF copper at H/L in ceiling void	2	m			
	<u>All new internal water services pipework for the cold water services pipework to be installed in the building shall be installed in light gauge copper to I.S EN 1057:2006. It shall be suitable for bronze welding. Tubes shall be uniform thickness, smooth, clean and free from internal and external defects. All ends shall be cut clean square with the tube axis. All cold water services pipework shall be installed in copper. Copper tube for all internal cold water services shall be as follows; Irish copper tube; CE marked; compliant with BS EN 1057; Where possible, all the main runs of the cold water services pipework shall be installed above the ceiling in the ceiling void and as a result, shall be insulated. All cold water services pipework shall be sleeved as the pass through floor slabs and internal blockwork walls.</u>					
E	15mm HWSF copper at H/L in ceiling void	48	m			
F	22mm HWSF copper at H/L in ceiling void	11	m			
G	28mm HWSF copper at H/L in ceiling void	36	m			
H	35mm HWSF copper at H/L in ceiling void	2	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>New pipework for the internal mains water services pipework installation in the building shall be installed in multi-layer composite plastic pipework. Multi-layer composite plastic pipework (MCLP) for all internal mains water services shall be as follows; non-crossed linked polyethylene pipe; 100% diffusion-resistant multi-layer composite pipe; five-layer (PE-RT - adhesive agent - continuously overlapped welded aluminium adhesive agent PE-RT)/PE-RT multilayer barrier pipe, with a PE-RT layer on the outside, a PE-RT layer on the inside and an aluminium pipe in between; the PR-RT multilayer barrier pipe shall be manufactured from high density cross-linked polyethylene plastic with an aluminium foil layer on the outside wall of the pipe which in turn is covered with a layer of polyethylene material; WRAS Scheme approved; suitable for drinking water; pipe shall have an oxygen barrier. The aluminium layer on the outside wall of the pipe shall act as an oxygen barrier; the pipe and fittings shall be certified by the Irish Agreement Board (IAB) Conform to BS 7291-1: 2006 and IS EN 1254 Part 3:1998; the PE-RT multilayer barrier pipe shall be manufactured from high density cross-linked polyethylene plastic with an aluminium foil layer on the outside wall of the pipe which in turn is covered with a layer of polyethylene material; the PE-RT pipe shall meet the requirements of Class 1,2,4 and 5 service systems for hot and cold water installations- Cross-linked polyethylene (PE-X). The minimum wall thickness of the pipe shall be 3.0mm; the pipe shall meet the requirements for Class S service conditions specified in Table 1 of BS 7291-2; 25 year warranty. Pipework shall be as Uponor MCLP pipe or equivalent. Include for the necessary tools and equipment in installing the pipework and fittings.</u>					
A	15mm MWS multi-layer at H/L in ceiling void	70	m			
B	28mm MWS multi-layer at H/L in ceiling void	5	m			
	PIPEWORK FITTINGS AND ANCILLARIES					
	<u>Main Isolation Valves</u>					
C	Allow for the supply and installation of all the necessary isolation valves on the new cold water services pipework to the water tank and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves or equivalent.	11	Nr			
D	Allow for the supply and installation of all the necessary isolation valves on the new hot water services supply pipework to the water heater and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves, or equivalent.	11	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Allow for the supply and installation of all the necessary isolation valves on the new hot water services return pipework to the water heater and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves, or equivalent.	11	Nr			
B	Allow for the supply and installation of all the necessary isolation valves on the new mains water services pipework to the water tank and certain areas in the building as indicated on the drawings. Ensure all isolation valves are suitable for the multi-purpose composite plastic pipe and that all valves can be installed in conjunction with this pipe. Allow for all connections, connectors, compression fittings, fittings etc. in installing the isolation valves to the new pipe. All valves shall be lockable and shall be WRAS Approved for use with mains water supply. Main isolation valves shall be Crane D171 level valves or equivalent	11	Nr			
	<u>Local Ballofix Valves</u>					
C	Allow for the supply and local installation of ballofix isolation valves to all cold water supply pipework to the new sanitary ware fittings as indicated on the drawings so that the cold water supply to each sanitary ware fitting can be easily isolated. Ballofix valves are to be installed on all cold water supplies to all new sanitary ware fittings so that they are capable of independent isolation. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3	11	Nr			
D	Allow for the supply and local installation of ballofix isolation valves to all hot water return pipework to the new sanitary ware fittings as indicated on the drawings so that the hot water return to each sanitary ware fitting can be easily isolated. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3	11	Nr			
E	Allow for the supply and local installation of ballofix isolation valves to all hot water supply pipework to the new sanitary ware fittings as indicated on the drawings so that the hot water supply to each sanitary ware fitting can be easily isolated. Ballofix valves are to be installed on all hot water supplies to all new sanitary ware fittings so that they are capable of independent isolation; Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; Compression ends to BS EN 1254-3	11	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Allow for the supply and local installation of ballofix isolation valves to all mains water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the mains water supply to each sanitary ware fitment can be easily isolated. Ballofix valves to the new multi-layer composite pipe. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3 <u>Thermostatic Mixing Valves</u>	11	Nr			
B	Thermostatic mixing valves (TMV's) shall be fitted at all new wash hand basins and sinks throughout the building to prevent scalding as indicated on the drawings. The mechanical contractor shall allow for the supply and installation of all TMV's/ All TMV's shall be located such that a maximum dead leg of 200mm only is achievable on the blended water supply. All TMV's must adhere to the following specifications; must be TMV 3 and WRAS approved; supplied with 1/2" flat faces union connectors terminating in 15mm compression connections; Suitable for a minimum dynamic supply pressure of 0.15 bar; TMV's must give a flow rate of at least 0.1 litres/second at an inlet head of 1.5 meters; limited to a maximum temperature of 43 degrees celsius to prevent scalding; valve body shall be D7R brass and feature a locked temperature shroud with BS EN 1111 and BS EN 1287 and suitable for use with low pressure systems; be suitable for under basin installation; provide safe thermostatic shutdown; be complete with isolation valves, check valves, easily removable strainers and service free cartridges; shall be suitable for low-pressure loss systems; TMV;s must never be connected to the mains water supply. They must only be connected to the hot water distribution services and cold water distribution services; the body shall be DWR brass nickel plated with a white plastic locking shroud. Suitable valves as Rada 215-t3dk or equivalent <u>Distribution system; including valves, tees and bends</u>	4	Nr			
C	15mm CWS to WC. Pipework shall be concealed within the furniture/ ceiling/ wall throughout	4	Nr			
D	15mm CWS, 15mm HSWF & 15mm HSWR to WHB C/W TMV. Pipework shall be concealed within the furniture/ceiling/wall throughout	4	Nr			
E	15mm MWS, 15mm CWS, 15mm HWSF & 15mm HWSR to sink. Pipework shall be concealed within the furniture/ceiling/wall throughout	1	Nr			
F	15mm CWS to kitchen appliance. Pipework shall be concealed within the furniture/ceiling/wall throughout	1	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	New hot water supply connecting to the electric shower	1	Nr			
B	22mm cold water supply connecting to the electric shower	1	Nr			
C	Include here for any other valves/fixings not expressly listed above but required to complete the works	1	item			
	INSULATION					
	<u>All service water pipework within unoccupied areas shall be insulated. Allow for the fitting, installation and connection of mains water supply to all the sanitary ware and the water storage tank as indicated on the drawings.</u>					
D	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
E	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
F	Flush out of new pipework	1	Item			
G	Pressure testing of new pipework	1	Item			
H	Sterilisation of cold water tank and the water system	1	Item			
	<u>Commissioning and system validation</u>					
J	Testing and commissioning as detailed in Engineer's specification	1	Item			
K	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
L	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
M	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
N	Working drawings	1	Item			
P	Co-ordination drawings	1	Item			
Q	As-built drawings	1	Item			
					To Collection €	

BQ/166

BQ/167

BQ/168

Description		Qty	Unit	Rate	€	c
TERMINAL EQUIPMENT AND FITTINGS						
<u>The contractor shall allow for supplying and installing all new radiators as indicated on the drawings. All new radiators shall be Low-H2O technology radiators. New radiators shall adhere to the following; radiators shall be low surface temperature; outputs of radiators tested and manufactured in accordance with BS EN442 independently by BSRIA; confirms to NHS DN4 which confirms to an average 43 degrees celsius; radiators shall be as manufactured by Merriot or equivalent; surface temperature independently by BRISA/ The casing shall adhere to the following; scratch resistant epoxy polyester powder coat finish in satin white to RAL9016; high UV resistance to ASTM G53; anti-bacterial coating standard on brackets and casing; unit to come with rounder corners to avoid injury; low surface temperatures NHS DN4 compliant at 50?T, maximum flow temperature 80 degrees celsius. Surface temperatures independently tested by BRISA; strong single piece profiled casing in 1.6mm steel with 5mm deep rib detail; easy wipe clean, soft bevelled design to prevent accidental injury; no joints in the casing to gather dirt, dust and potential bacteria; pencil proof bar grilles maximum aperture 7.1mm; integral bottom grille on wall mounted casings to prevent emitter access; security screw locking system to prevent unauthorised access; CE marked to BS EN442 and manufactured under a BS EN ISO 9001:2008 quality system accepted by BSI; 10 year warranty. The emitter shall adhere to the following; low H2O, high output fin coil heat exchanger; low water content from 0.75 litres per metre; non-corrosive 0.2mm aluminium fins & 15mm diameter copper tubes; corrugated aluminium fins to maximise convective surface area; single pipe reverse flow heat exchanger, continuous mass flow for optimum output efficiency; same end connections, reversible heat exchanger can be connected left or right with standard valve, TRV or remote sensor; dual quick-fit bracket system for emitter and casing, supplied with bracket spacing bar; standard connections of 4 x 1/2" with 1/2" blank plug and vent; dirt and dust repellent epoxy polyester powder coat finish in matt graphite grey to RAL7024; working pressure 10Bar, test pressure 13Bar; maximum operating temperature 120 degrees celsius; 30 year warranty; outputs tested in accordance with BS EN442 independently by BSRIA</u>						
A	Maxi WF; MAXW.074.203.230.101/WF type H11; 740mm high by 2030mm long by 230mm depth; output at deltaT30 2733	17	Nr			
B	Maxi WF; MAXW.074.163.230.101/WF type H11; 740mm high by 1830mm long by 230mm depth; output at deltaT30 1765	3	Nr			
C	Maxi WF; MAXW.059.183.230.101/WF type H11; 590mm high by 1830mm long by 230mm depth; output at deltaT30 1524	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Maxi WF; MAXW.059.163.230.101/WF type H11; 590mm high by 1630mm long by 230mm depth; output at deltaT30 1352	1	Nr			
B	Maxi WF; MAXW.074.063.130.101/WF type H11; 740mm high by 2030mm long by 130mm depth; output at deltaT30 1197	1	Nr			
C	Maxi WF; MAXW.059.143.230.101/WF type H11; 590mm high by 1430mm long by 230mm depth; output at deltaT30 1162	2	Nr			
D	Maxi WF; MAXW.059.183.130.101/WF type H11; 590mm high by 1830mm long by 130mm depth; output at deltaT30 821	5	Nr			
E	Maxi WF; MAXW.059.123.130.101/WF type H11; 590mm high by 1230mm long by 130mm depth; output at deltaT30 655	2	Nr			
F	Maxi WF; MAXW.059.830.130.101/WF type H11; 590mm high by 830mm long by 130mm depth; output at deltaT30 316	7	Nr			
	<u>Wall mounted room thermostat (linked to BMS system)</u>					
G	All room stats as indicated that are to be installed in conjunction with the two-port valve to control the heating within the specified rooms shall be digital stats as specified and indicated below	8	Nr			
	PIPEWORK					
H	All new LPHW heating flow and return pipework to be installed throughout the building shall be black steel pipe Class B seamless medium gauge, Blue band to BS EN 10255. All mild steel pipe and tube shall be dual certified to BS EN 10217-1:2002, fully traceable back to the manufacturer and shall be supplied with 3.1 mill test certification. All of our BS EN 10255:2004 steel pipe shall be compliant with the European Pressure Equipment Directive (PED) 2014/68/EU. All new LPHW heating and flow services pipework shall be installed in gun barrel steel. New LPHW heating and flow services pipework shall be supplied throughout the new heat emitters throughout. Pipework shall be as specified in paragraph above. All LPHW flow and return pipework and the LPHW headers in the boilerhouse shall also be as specified above. Where possible, the main runs of heating pipework shall be installed in the ceiling void above the suspended ceiling. All LPHW flow and return heating services pipework shall be supplied, installed, tested and commissioned by the mechanical contractor					
J	15mm dia. flow and return pipe L/L	62	m			
K	20mm dia. flow and return pipe L/L	12	m			
L	15mm dia. flow and return pipe H/L	80	m			
M	20mm dia. flow and return pipe H/L	15	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	25mm dia. flow and return pipe H/L	43	m			
B	32mm dia. flow and return pipe H/L	79	m			
C	15mm dia. flow and return pipe L/L	35	m			
D	16mm dia. flow and return pipe underground	143	m			
E	32mm dia. flow & return pipework at H/L to 1st floor as indicated	51	m			
	PIPEWORK FITTINGS AND ANCILLARIES					
	<u>The contractor shall allow for the supply and fitting of thermostatic radiator control valves (TRV's) radiators as indicated on the drawings. Refer to the drawings and radiator schedule for a list of radiators where TRV's are to be installed on. The TRV's shall be supplied with the radiators as indicated. A special cut-out is required in the radiator casing for the TRV. The contractor shall allow for supplying and installing the TRV in conjunction with the new radiators and shall discuss the location and quantity of TRV's with the radiators and shall discuss the location and quantity of TRV's with the radiator supplier prior to ordering the radiators or the TRV's. TRV's shall conform to the following; conforms to BE EN215-1; maximum operating pressure 10Bar; maximum water temperature 120 degrees celsius; maximum differential pressure 0.6Bar; differential pressure influence 0.5K; water temperature influence 0.5K; water temperature of 26 minutes; liquid filled sensing element; supplied in chrome finish; hysteresis at nominal flow rate:0.5K; frost setting 8 degrees celsius; two way flow engineering; sizes shall be as final size of pipework to radiators. TRV's shall be Herz Ts90 with Herz Thermostatic Head or equal and approved</u>					
F	Thermostatic Radiator Valve	39	Nr			
	<u>Radiators and heating in the majority of the rooms as indicated on the drawings shall be temperature controlled from the BMS control panel. To do this a two-port motorised valve shall be installed on the heating services pipework to the majority of rooms and this motorised valve shall be installed on the heating services pipework to the majority of rooms and this motorised valve shall be linked and controlled by the BMS controls panel. A combined temperature sensor and CO2 sensor shall be installed in the room to control the temperature in the room. This sensor shall also be linked back and controlled by the BMS controls package.</u>					
G	2-port Motorised Valve	8	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Fit automatic air vents at all high points on all heating pipes at high level in the building as indicated on the drawings. Fit automatic air-vents on the highest point of the flow and return pipework in the building as indicated on the drawings. The contractor shall ensure the pipes are laid with the correct gradient to eliminate air locks and to allow for adequate venting. Automatic air-vent shall be as honeywell Vent EA122, or equivalent. The valve shall have the following features; integral stop valve. Enables seat to be cleaned without draining the system; Vacuum break ensures air collection; 3/8" BSP connections; Expanding disc under cap; 1/8" to 1/2" adaptor</u>					
A	Automatic Air Vents	28	Nr			
	<u>Strainers must be installed to protect the two-port valves or circuits as indicated. Strainers shall be cast iron or bronze body, self cleaning "Y" pattern full size, of connecting pipe, designed for 10 bars of water services and heating. Strainers shall be 1/16" perforated SS on water services and 1/32" perforated SS on heating. Strainers 50mm and smaller shall be screwed; strainers larger than 50mm shall be flanged, with blow-down cocks. Strainers must be suitable for the pressures and service of the piping system in which they are to be installed. Strainer bodies for line sizes up to 50mm must be bronze to IS EN 1982: 1999. Strainer pressure ratings must be at least 150% of maximum service pressure in the application. Strainers shall be as Crane D297, Crane FM276 or equivalent</u>					
B	Strainers	8	Nr			
	<u>The contractor shall allow for the supply and installation of flow measuring/ Double Regulating Valves on all pipework and circuits as indicated on the drawings</u>					
C	Regulating Valves	30	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall include in his price for the supply and installation of fixed orifice double regulating valve commissioning sets on the heating circuits to each 2-port valve arrangement. The number and size of valves shall be as indicated on the drawings and where required for satisfactory commissioning, operation and maintenance. The contractor shall ensure that the valves are installed immediately before the two-port valve. Valves shall not be mounted with the test plugs pointing in a downward direction; otherwise they may act as dirt pockets. Measuring devices must provide flow measurement accuracy to within +/- 5% under the design service conditions and must be suitable for the application such that the differential pressure produced is consistent with achieving measurement accuracy. Valves shall be as Crane D931 fixed orifice double regulating valves, or equivalent. Fixed orifice double regulating valves shall be as Crane D931/D933/D934 and shall adhere to the following; fixed orifice performance; hand wheel and pressure tappings oriented for maximum convenience; insertion test points for quick connection; PN25 pressure rating; adaptor kit for use with copper tube.</u>					
A	2-Port Valves	8	Nr			
	<u>Fit control valves on flow and return LPHW pipework to allow isolation of the LPHW heating return pipework in the building. Values shall be full-way pattern with gland surfacing boxes complete with iron hand wheels screwed or flanged as necessary with cast iron bodies, gunmetal wearing parts and bronze seatings. Valves shall be as Crane D151 isolation valves for gate valves or Crane F611 for butterfly valves, or equivalent</u>					
B	Circuit Valves	46	Nr			
	<u>Distribution system; pipework to Service Engineers Specification; exposed pipework to be painted with two coats of inhibitor paint and two coats of red oxide paint</u>					
C	15mm dia. flow and return pipe;bends	82	Nr			
D	15mm dia. flow and return pipe; tees	17	Nr			
E	20mm dia. flow and return pipe; bends	11	Nr			
F	20mm dia. flow and return pipe; tees		Nr			
G	25mm dia. flow and return pipe; bends	10	Nr			
H	25mm dia. flow and return pipe; tees		Nr			
J	32mm dia. flow and return pipe; bends	8	Nr			
K	32mm dia. flow and return pipe; tees		Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
A	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
B	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
C	Flush out of new pipework	1	Item			
D	Pressure testing of new pipework	1	Item			
E	Power flushing	1	Item			
	<u>Commissioning and system validation</u>					
F	Testing and commissioning as detailed in Engineer's specification	1	Item			
G	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
H	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
J	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
K	Working drawings	1	Item			
L	Co-ordination drawings	1	Item			
M	As-built drawings	1	Item			
	<u>General Builder's Work</u>					
N	Marking out and supervision of all Builder's Work	1	Item			
P	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

BQ/175

	Description	Qty	Unit	Rate	€	c
	<u>(57) VENTILATION SERVICES</u>					
	<u>MECHANICAL INSTALLATIONS</u>					
	GENERAL					
	<u>Supply, install and commission of Ventilation Systems in accordance with the General & Particular Mechanical Specification.</u>					
A	The contractor shall be responsible for all ventilation works and shall ensure that the full price for this work is included in the tender price.	1	item			
	TERMINAL EQUIPMENT AND FITTINGS					
	<u>Extract fans shall be installed for the areas indicated on the drawings. These fans shall be supplied and installed by the mechanical contractor under the provision of this contract. The contractor shall allow for all necessary accessories and connections. Supply & fit all extract fans as indicated on the drawings. The contractor shall liaise with the electrical contractor for extract fan power supply locations and wiring details for the wall mounted fan controllers. The contractor shall allow for the supply and installation of the following extract fans. PIR sensor shall be sensitive to infrared radiation emitted by bodies in movement, with a 360 degree detecting angle as CPFL-S or equivalent. The contractor shall ensure that the remote PIR sensor is suitable for the extract fan to be installed. All fans to have a run-off-timer incorporated into the fan; the contractor shall allow for supplying fans to suit the ducting installation, layout and sizes; extract fans to be as supplied by Ventac, Vent Axia, Systemair or equivalent. The in-line extract fan installed in the multi-sensory room shall be controlled from a single phase electronic speed controller. All extract fan must comply with the NZEB/BER assessment. The fan Shall have a SFP (Specific Fan Power) of 0.3w/l/s as outlined in Table 6 from TGD Part L</u>					
B	In-line duct mounted extract fan; 101m ³ /hr at 50PA; CAT no. TD-160/100 NT SILENT ECOWATT; controlled by remote PIR Sensor as CPFL-S c/w 15 min overrun timer	1	Nr			
C	In-line duct mounted extract fan; 240m ³ /hr at 50PA; CAT no. TD-500/150-160; controlled by remote PIR Sensor as CPFL-S c/w 15 min overrun timer	1	Nr			
D	In-line duct mounted extract fan; 130m ³ /hr at 100PA; CAT no. TD EVO-100 ECOWATT	1	Nr			
E	In-line duct mounted extract fan; 130m ³ /hr at 50PA; CAT no. TD EVO-100 ECOWATT; controlled by PIR Sensor as CPFL-S c/w 10 min overrun timer	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	<u>All fans for the toilets shall be controlled by a remote PIR sensor. The PIR sensor shall be sensitive to infrared radiation emitted by bodies in movement, with a 360 degree detecting angle as CPFL-S or equivalent</u> PIR sensors	4	Nr			
B	<u>Supply and install volume control damper valves on the branches of ductwork as indicated on the drawings on the drawings. Sizes shall match the size of the duct where the damper is indicated to be located. Dampers shall be manufactured from aluminium and shall be complete with spigot connections as required. Balancing dampers shall be opposed blade type balancing dampers, complete with operating lever, quadrant and locking device. Manual dampers shall include a device for positioning and locking and damper blades. The positions of all manual dampers, as set after final regulation, shall be indelibly marked at the adjusting devices. Standard volume control dampers for rectangular ductwork shall be as HVW-NCA Series 900 (Model B) for rectangular duct or equivalent as supplied by Lindab or equivalent. Standard volume control dampers for circular ductwork shall be as HVC-NCA Series 900 IModel C) for circular duct or equivalent as supplied by Lindab, or equivalent. All dampers shall adhere to the following specifications; shall be tested to DW144 Class D at a static pressure of 2000 Pa for a minimum time of 15 minutes with negligible leakage recorded; aluminium blades; stainless steel jamb seals.</u> Volume control dampers	4	Nr			
C	<u>The contractor shall allow for the supply and installation of roof termination cowls on the roof as indicated on the drawings. The contractor shall allow for the connecting of the ductwork to the roof termination cowls and for the supply and installation of the roof termination cowls on the roof/ Samples of all cowls to be provided on request; cowls shall consist of direct mount spigot, adaptor kit, roof cowl, deflector and all screws as " Roof Termination Sets - 315mm" as supplied by Vent-Axia, or equivalent. Include for all accessories.</u> Roof termination cowl as "Roof Termination Sets - 100mm"; 100mm diameter neck size; 150mm long x 150mm wide x 100mm high	6	Nr			
D	Roof termination cowl as "Roof Termination Sets - 150mm") 150mm diameter neck size; 200mm long x 200mm wide x 100mm high	2	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Supply and install all internal grilles, diffusers and disc valves as indicated on the drawings. Grilles shall have RAL 9010 colour finish; samples of all grille/diffuser types to be provided on request; all grilles shall be manufactured from sheet metal with a stove enamelled white finish.</u>					
A	Supply air grilles; Disc valves as KI100 supply valve; 100mm diameter neck size; 130mm diameter overall size; the outer body is fitted with a gasket to form an airtight seal with the mounting ring	3	Nr			
B	Extract grilles; Disc valves as KSU exhaust valve; 100mm diameter neck size; 130mm diameter overall size	7	Nr			
	DUCTWORK					
C	All new ventilation ductwork to be installed throughout the building shall be of the best quality galvanised sheet steel fabricated in accordance with good practice in a neat and workmanlike manner, true to size and internally free from sharp edges and obstructions. It shall comply with the provisions of DW/144- Specification for Sheet Metal Ductwork - published by the HVAC in 1982, and when erected be free from vibration and damping, rigid and truly air tight under operating conditions. Standards; class B medium pressure leakage and pressure classification; 1,000 Pa positive, 500 Pa Negative pressures; galvanised ductwork shall be made from continuously hot-dipped zinc coated wide strip sheet/ plate and slit wide strip to BS.EN10142. GradeDX51D+Z, coating type Z275. The material shall be suitable for profiling and bending. All low pressure supply and extract ductwork is to be leakage tested in accordance with DW/143 and the leakage limits in table B16.15 of the CIBSE guide and DW/144. Air leakage limits shall be 0.009 x p ^{0.65} litres/m ² of duct surface area. Where galvanised ductwork is located outdoors and un-insulated, or where the galvanising is broken during the manufacturing process and installation, it shall be treated in accordance with Clause 2.20 of Section 2. All steel ductwork supporting members and flanges shall also be protected in accordance with Clause 2.20. Outdoor ductwork must be protected, weather insulation or any other covering is applied or not, with of chlorinated rubber paint. The surface must be properly de-greased and prepared for paint. Colour of paint to be selected.					
D	100mm diameter extract duct	6	m			
E	125mm diameter extract duct	7	m			
F	150mm diameter extract duct	4	m			
G	100mm diameter passive duct	7	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	DUCTWORK FITTINGS AND ANCILLARIES					
	<u>Distribution system; galvanised steel; installed in accordance with Mechanical Drawings and Specification</u>					
A	100mm diameter extract duct; bends	3	Nr			
B	125mm diameter extract duct; bends	4	Nr			
C	150mm diameter extract duct; bends	2	Nr			
D	150mm diameter extract duct; tees	2	Nr			
E	100mm diameter passive duct; bends	3	Nr			
	IDENTIFICATION					
	<u>Labelling and identification</u>					
F	All items of equipment such as heat recovery units, fans, dampers, etc. whatsoever, supplied and fitted by the Contractor under this section of the contract shall be provided with labels of approximate size 150 mm x 80 mm x 1.63 mm s.w.g. In general, all labels on equipment shall be engraved on rigid plastic plates and secured to the item of equipment by means of screws; all in accordance with Services Engineers Drawings and Specifications	1	Item			
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
G	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
H	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
J	Testing and commissioning as detailed in Engineer's specification	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Commissioning and system validation</u>						
A	The Contractor shall employ a suitably qualified company to carry out the commissioning. This shall include flow rates for each grill and the balancing of the dampers and fans to achieve the required flow rate in each room as indicated on the drawings.	1	Item			
B	Commissioning report confirming the actual flow rate of each grill to the design flow rate and the reason for any discrepancies	1	Item			
C	Warranty requirements as detailed in Engineer's specification	1	Item			
<u>Operation and maintenance manuals</u>						
D	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
<u>Drawing preparation</u>						
E	Working drawings	1	Item			
F	Co-ordination drawings	1	Item			
G	As-built drawings	1	Item			
<u>General Builder's Work</u>						
H	Marking out and supervision of all Builder's Work	1	Item			
J	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

BQ/181

Description		Qty	Unit	Rate	€	c
<u>(58) PROTECTIVE SERVICES</u>						
<u>FITTINGS</u>						
FITTINGS EQUIPMENT AND FURNITURE						
<u>Supply and fit the fire extinguishers and fire fighting equipment for the building as indicated on the drawings. Exact locations to be decided on site in conjunction with the employers representative. All fire extinguishers shall conform to the relevant standards. Allow for supplying the suitable and relevant wall signage for each fire extinguisher which indicates what type of extinguisher it is. The contractor shall also allow for the following; providing wall brackets for all extinguishers and allow for mounting all extinguishers; providing and install wall mounted signage above all fire extinguishers identifying fire point, and extinguisher usage; providing a fire assembly appoint sign and mount externally in the location indicated by the clients representative; agreeing exact locations and mounting heights with client's representative prior to mounting extinguishers.</u> Fire Equipment						
A	Portable fire extinguisher foam (6 litre)	2	nr			
B	Portable fire extinguisher carbon dioxide (2KG)	2	nr			
TESTING AND COMMISSIONING						
<u>Identification</u>						
C	identification plates, labels and the like; as Engineer's specification	1	item			
<u>Testing</u>						
D	testing and commissioning as detailed in Engineer's specification	1	item			
<u>Commissioning and system validation</u>						
E	warranty requirements as detailed in Engineer's specification	1	item			
<u>Operation and maintenance manuals</u>						
F	operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	item			
<u>Drawing preparation</u>						
G	working drawings	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	co-ordination drawings	1	item			
B	as-built drawings	1	item			
	<u>General Builder's Work</u>					
C	marking out and supervision of all Builder's Work	1	item			
D	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/182 Page No. BQ/183 (58) PROTECTIVE SERVICES Carried to Summary					
BQ/184					

(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS

Description	Qty	Unit	Rate	€	c
(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS					
NOTES Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Mechanical & Electrical Engineer's Drawings / Specification Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5. The Contractor shall allow for the full and complete provision of the works associated with these items, including all labour, materials, equipment, cabling, containment, accessories, testing and commissioning, as required by the Contract Drawings and Services Engineer's Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5. The Contractor shall note that notwithstanding the quantities included in this Bill of Quantities, the tendered sum shall be deemed to include for the full and complete execution of the works as described in the Services Engineers Specifications, Drawings and Schedules. The Contractor shall ensure that all plant, equipment, fixtures, ductwork, pipework, valves, dampers, controls, insulation, supports, builders work interfaces and ancillary items, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning mechanical services installation. The Contractor shall not be entitled to additional payment for any item omitted from the BoQ quantities where such item is clearly required by the drawings and/or specifications. Information generally 1. It is brought to the Contractors attention that the proposed alterations to the existing building are SEN's and as such particular attention should be paid to the requirement for concealed pipework and recessed radiators together with any other requirements for an SEN Unit as detailed in the Mechanical & Electrical Engineer's Drawings / Specifications and as demanded by the requirements of a typical SEN unit.		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
2. Allow for bringing and removal on completions all plant required for this element of work			Note			
3. Contractor to include in his tender sum for all general and special attendances required on his mechanical sub-contractor			Note			
<u>MECHANICAL INSTALATIONS</u>						
Testing & Commissioning of Mechanical Systems						
A	Testing, balancing and commissioning of all mechanical services installations, including heating, ventilation, water services and associated controls; complete system testing to demonstrate full compliance with specification and design intent	1	Item			
B	Commissioning of LPHW heating systems, including pipework, pumps, valves and heat emitters, complete with witnessing and provision of commissioning records	1	Item			
C	Commissioning of ventilation systems, including extract, supply and heat recovery systems, complete with air-flow measurements, balancing and commissioning reports confirming design flow rates	1	Item			
D	Testing and commissioning of water services installations, including pressure testing, disinfection, flushing and functional verification as specified	1	Item			
E	Attendance at witness testing by the Employer's Representative and provision of all required test certificates and commissioning documentation	1	Item			
Operation & Maintenance Manuals and Handover						
F	Preparation and submission of Operation & Maintenance (O&M) Manuals for all mechanical services installations, complete with manufacturers' data sheets, test certificates, commissioning records and maintenance instructions	1	Item			
G	Provision of as-installed system descriptions, control philosophies and recommended maintenance schedules within O&M manuals	1	Item			
H	Provision of training and demonstration to the Client's representatives on the correct operation of installed mechanical services systems	1	Item			
J	Final handover of mechanical services installations, including delivery of O&M manuals, certificates, commissioning reports and confirmation of satisfactory system operation	1	Item			
					<i>To Collection €</i>	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/185 Page No. BQ/186 (59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS Carried to Summary					

BQ/188

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/188 **BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)** Carried to Summary					

	Description	Qty	Unit	Rate	€	c
	<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</u>					
	<u>ELECTRICAL INSTALLATIONS</u>					
	GENERAL					
	<u>System; supply, install and commission of LV Electrical Centre and Main Distribution installation, including all switchgear, distribution boards, enclosures, breakers, fuses, glands, switches, meters, transformers, indicators, supports, fixings, hangers, grounds, busbar, loops, casings, plating, isolators and surge protection; including all associated unistrut support framework, bracketing, supports, secondary steelwork, earthing, tags, accessories, etc as required in accordance with the Electrical Drawings 19-052 62(E001) - T1 to 19-052 62(E005) - T1</u>					
A	supply, install, test and commission of Power Distribution system; complete	1	item			
B	The Electrical Contractor shall allow for the supply and installation of a new sub distribution board (NSDB-01)	1	Nr			
	PRIMARY EQUIPMENT					
	<u>Equipment; including all MCB's, RCBO's, contactors, surge arrestors, cable end boxes, interconnections, fuses, traffolyte designation labels and all other items required to complete</u>					
C	Supply and install, connect, test and commission sub distribution electrical board (SDB-01)	1	Item			
D	Supply and install, connect, test and commission sub distribution electrical board (SDB-02)	1	Item			
	<u>Accessories associated with terminal equipment; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.</u>					
E	MCB's	1	item			
F	MCCB's	1	item			
G	RCBO circuit breakers	1	item			
H	circuit breakers	1	item			
J	tap off units	1	item			
K	fuse tp's	1	item			
L	switch fuse sp's	1	item			
M	3-phase ESB CT meter	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	surge protection	1	item			
B	generation meters	1	item			
C	ac isolators	1	item			
D	isolator switches	1	item			
E	multi function meters; RS485 modbus metering interface with BMS	1	item			
F	Include here for any other accessories not expressly listed above but required to complete the works	1	item			
	<u>Accessories associated with electronic surge protection; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.</u>					
G	TP & N incomer on the new Sub Electrical Distribution Board (SDB.01) - (Type 2 combined lightning & SPD).	1	item			
H	TP & N incomer on all the new Sub-Distribution Board (Type 2 combined lightning & SPD).	1	item			
J	SP & N incomer on the new Fire Alarm Panel – (Type 2 combined lightning & SPD).	1	item			
K	SP & N incomer on the PV Panel supply – (Type 2 combined lightning & SPD).	1	item			
	<u>Accessories associated with electrical check meters; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.</u>					
L	Supply and install electricity check meter shall be installed in the new sub electrical boards as indicated on the drawings; PowerLogic PM5000 series , or equivalent; check meter shall be interfaced to the Buildings Management System; all in accordance with the Service Engineers Drawings and Specification	1	Item			
	<u>Supply and install all necessary cabling including all control cabling including isolators, mccb, terminations, testing, monitoring etc. all strictly in accordance with the Service Engineers Drawings and Specification</u>					
	LV Installations Cabling					
M	LV installations cabling	1	item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Final circuits (including points terminations) supply and installation of the following LV services; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc. as required, all as per Engineer's drawings and the Electrical Specification.</u>					
A	circuits to all LV power distribution boards and fittings	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
B	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
C	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
D	commissioning as detailed in Engineer's specification	1	item			
E	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
F	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
G	working drawings	1	item			
H	co-ordination drawings	1	item			
J	as-built drawings	1	item			
	<u>General Builder's Work</u>					
K	marking out and supervision of all Builder's Work	1	item			
L	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/190 Page No. BQ/191 Page No. BQ/192 (61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION Carried to Summary					
BQ/193					

Description		Qty	Unit	Rate	€	c
<u>(62) POWER</u>						
<u>ELECTRICAL INSTALLATIONS</u>						
GENERAL						
<u>The electrical contractor shall supply, install, connect, test and commission the new sub distribution board for the new extension as indicated on the drawings. The existing main electrical board in the electrical room shall supply the new sub-distribution electrical board in the staff room of the new extension so all for the necessary sub-mains cabling from the existing main electrical board to the new sub-distribution electrical board. The new sub-distribution board shall be supplied and installed as indicated on the drawings. The assembly of the board shall adhere to the following specifications and shall have the following specifications; wall mounted; sheet steel cubicle with MCCB type cubical construction. The enclosure protection shall be IP31; shall be supplied with a moulded case circuit breaker incomer; type tested assembly; incoming cables shall be bottom entry and outgoing cables shall be top exit; the board shall be extensible at both ends and shall be of MCCB type wall mounted cubicle construction; all panel sections providing direct access to live assemblies shall be openable only with special tool; all panel sections accessing shrouded MCB's shall be provided with a handle for opening; the sub-distribution electrical board shall be manufactured to "Form 3A (Type 1)" separation in accordance with IS EN 60439; shall be suitable for a voltage of 630/230V (3 phase; electronic surge shall be protection provided on the incoming mains as detailed</u>						
A	New sub-division board for the extension of the building	1	Nr			
TERMINAL EQUIPMENT AND FITTINGS						
<u>The electrical contractor shall supply, install, connect, test and commission the general service wall/floor mounted outlets shall be single or twin switched 13A 3 pin type mounted on suitable conduit boxes. Sockets are to be located 450mm generally above finished floor level and 200mm above worktops. The main earth terminal on all sockets shall be connected to the earth terminal in the conduit box</u>						
B	Twin 13A switched socket outlet	11	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall supply, install, connect, test and commission the general service socket outlets on the dado trunking as indicated on the drawings and schedules. All socket outlets on the dado trunking shall be recessed into dado trunking. Sockets on the dado trunking shall be of the switched type as MK Logic Plus K2746 WHI (2 gangs) or equivalent. Mounting frames/boxes to be VCT-121 WH (1 gang) or VCT-121 WH (2 gang), or Equivalent. All double sockets shall have outboard rocker switches Please note that all sockets shall adhere to Building Regulations Part M. Therefore, all sockets shall adhere to the following specification; all double sockets shall have outboard rocker switches ; all rocker switches shall have neon indicators in the switch rockers to indicate they are on; the rockers on the socket shall contrast with the colour on the socket; the sockets installed shall not match the same colour as the dado trunking compartment</u>					
A	CAT 6A data	8	Nr			
B	Twin 13A switched socket outlet <u>The contractor shall include for the supply, erection and wiring of all new unswitched fused spur outlets for connection to electrical control/equipment panels throughout the building. Unswitched used spur outlets shall comprise single pole 5amp or 13amp fuse and fuse holder, bushed flex outlet and neon indicator. Surface mounted unswitched fused spur outlets shall be from the MK Albany Plus (Brushed Stainless Steel) range as K978BSS (1 gang) or equivalent. Connection to all equipment shall be by fixed spur outlet, mounted in line with the equipment on the drawings. Wiring to the units shall be 2 core 2.5mm² LSZH cable in trunking and conduit. Surface box shall be acceptable in ceiling void provided all cables are in conduit from trunking to outlet.</u>	6	Nr			
C	Single 40A unswitched spur outlet doe the electric shower. Spur outlet installed at approximately 2600mm A.F.F.L	1	Nr			
D	Single 13A unswitched spur outlet installed at high level in the ceiling void for power supply to the emergency call system for the disabled toilet. Mounting height to be confirmed on site	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The electrical contractor shall include for the supply, erection and wiring of all new switched spur outlets for connection to electrical control/equipment panels throughout the building. Switched used spur outlets shall comprise switch, single pole 5amp or 13amp fuse and fuse holder, bushed flex outlet and neon indicator. Surface mounted unswitched fused spur outlets shall be from the MK Albany Plus (Brushed Stainless Steel) range as K971BSS (1 gang), or equivalent. Mounting boxes to be 829 ALM (1 gang), or equivalent. Connection to all equipment shall be by fixed spur outlet, mounted in line with the equipment on the drawings. Wiring to the units shall be 2 core 2.5mm² LSZH cable in trunking and conduit. Surface box shall be acceptable in ceiling void provided all cables are in conduit from trunking to outlet.</u>					
A	Single 13A switched spur outlet for CCTV system	1	Nr			
B	Single 13A switched spur outlet for door access system	1	Nr			
	<u>A number of IT and telephone points shall be installed and recessed in the dado trunking as indicated on the drawings. The contractor shall allow for installing all required back boxes, face plates, RJ45 outlets, etc.</u>					
C	CAT 6A outlet for data	10	Nr			
D	CAT 6A outlet for CCTV cameras	1	Nr			
E	Wireless access network point. Point shall be wired in CAT 6A cable	1	Nr			
	<u>In the Multi-Sensory room, a number of spur outlets shall be wired back to a 12-gang socket control panel for the switching of equipment in this room. The layout and list of equipment for the switching of equipment in this room. The layout and list of equipment for this room is to be finalised with the client. These spurs shall be wired back to the wall mounted control panel to facilitate independent control of each piece of equipment and each spur shall be individually switched from this panel. The spurs shall be located at different heights above floor level and these heights shall be confirmed on site. Allow for installing and wiring the number of spurs for this room as indicated back to a wall mounted 12-gang switch grid/panel. The grid shall be from the MK Albany Plus range and shall be finished in stainless steel. Wiring shall be carried out in 2.5mm sq. from each socket back to the 12-gang grid. There are electrical double sockets to be installed in this room also but these sockets shall be wired back and connected to the main electrical board for that area.</u>					
F	Fused spur outlet 25mm off floor and 300mm from wall	2	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Fused spur outlet 1900mm off floor and 2270mm from floor	2	Nr			
B	Fused spur outlet 1355mm off floor and 350mm from wall	2	Nr			
C	Fused spur outlet 1555mm off floor and 350mm from wall	1	Nr			
D	Fused spur outlet on ceiling 300mm from each wall	1	Nr			
E	Fused spur outlet 1555mm off floor	1	Nr			
F	12-gang wall mounted control panel for sockets/ spurs in sensory room	1	Nr			
	<u>The contractor shall include for the following electrical attendances to each 2-port valve and associated wall stats in the rooms as indicated on the drawings. Allow power supplies to all valves/thermostat and control wiring between all valves/thermostat. The contractor shall include for the following electrical attendances to each 2-port valve located at the heating manifold and thermostat arrangement in the rooms as indicated. 230V power supply via a 13 amp unswitched spur for each 2-port valve which shall be installed above the heating manifold installation. Final location of spur to be conformed with the system installer: 2-core 1.5mm² cable from the wall mounted thermostat to the 2-port valve located beside the heating manifold arrangement. The thermostat shall be located in 1100mm above finished floor-level. Wiring installed in steel conduit from the 2-port valve to the thermostat including for all necessary cable containment. Wiring shall be by the contractor and shall be exactly to supplier's instructions. The contractor shall liaise with the supplier regarding installation of equipment.</u>					
G	2-port motorised valve; Wiring shall be taken from the new electrical boards in the building which are indicated on the drawings.	4	Nr			
H	Wall mounted room stat	7	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The electrical contractor shall allow for the wiring of extract fans for the toilets as indicated on the drawings, which shall be supplied and fitted by the mechanical contractor. Electrical power supplies to each fan shall be 230VAC 50 Hz c/w 13 amp spur and shall be supplied as part of this contract. Each fan shall be controlled via a remote PIR sensor which shall be wired and connected to the fan. Wiring to the extract fan and remote PIR sensor shall be carried out using 2.5mm sq. in LSOH. Wiring shall be exactly to supplier's instructions. For each fan above the ceiling, the contractor shall include for the supply and installation of a fused isolation switch for the fan below the ceiling near where each fan is located and connection of that switch to the fan. Isolation switches shall be a three pole 5 Amp or 13 Amp fuse and fuse holder, bushed flex outlet and neon indicator. All isolators shall be as manufactured by MK Albany Plus and finished in brushed stainless steel, or equivalent</u>					
A	Single 13A switched spur outlet for extract fans	2	Nr			
B	Remote PIR control for the extract fan	2	Nr			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
C	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
D	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
E	commissioning as detailed in Engineer's specification	1	item			
F	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
G	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
H	working drawings	1	item			
J	co-ordination drawings	1	item			
K	as-built drawings	1	item			
					To Collection €	

BQ/199

BQ/200

BQ/201

Description	Qty	Unit	Rate	€	c
TERMINAL EQUIPMENT AND FITTINGS					
<u>All new lighting switches for the ASD of the building shall be "push-to-make" switches and shall be recessed throughout. All lighting switches, unless stated otherwise, shall be located 1100mm generally above finished floor level. All new light switches (unless indicated otherwise) in the ASD unit of the building shall be momentary action light switches. These light switches shall be installed for all areas in ASD unit of the building where manual dimming is installed. Absence detection is not required in the ASD areas. All lighting switches shall be from the MK Grid Albany Plus Range as described above the switch module being white and of the rocker/ push type. These shall be installed in all occupied rooms and corridor in the ASD unit as indicated on the drawings. New lighting switches shall be provided and ganged as indicated on the drawings and shall be either 1-way, 2-way or intermediate as indicated.. Switches for internal use shall be of the 15/20 Amp inductive rating grid switch type. Switches for external use shall be weatherproof IP54. The contractor shall allow for installing a manual dimmer switch in the multi-sensory room as indicated on the drawings. New light switches in the ASD unit of the building shall be from the MK Grid Albany Plus Range and shall be finished in Brushed Stainless Steel (BSS). Include for all switch modules for light switches. Modules shall be white. Include for suitable cover plate, grid and back box for recessing the light switch. All switches to be of brushed stainless steel finish, Where light switches are to be recessed into fire walls, the contractor shall allow for supplying and fitting fire rated inserts into the knock out boxes to protect the fire protection of 120 minutes and shall be tested to BS476 part 20/22:1987 for both the integrity and insulations. Inserts as " Safire Fire Rated Switch Socket Inserts" or equivalent.</u>					
A Two-way "push-to-make" light switch	2	Nr			

To Collection €

BQ/203

Description	Qty	Unit	Rate	€	c
<u>Automatic lighting controls shall be installed for all these rooms in the building as indicated on the drawings. The controls shall incorporate 2 control elements; manual dimming control; automatic detection control (non ASD areas only). The lighting controls in all these rooms shall be based on manual on/off switching, absence detection to turn off lights when no movement is detected and manual dimming of the lighting fittings through the momentary "push-to-make" light switch. A momentary action (bell push) rocker type switch shall be installed for the lighting circuits in all areas. Lighting switches shall be provided and ganged as indicated on the drawings and shall be either 1-way, 2 way or intermediate as indicated. Switches for internal use shall be of the 15/20 Amp inductive rating grid switch type. Absence detection shall be set up so that sensor in each room will require the lighting "push-to-make" light switch to turn the lights on and will time out when the area is left unoccupied and will need re-activation again by the light switch. A remote sensor or sensor incorporated into the light fitting shall be supplied for all the light fittings in each of these rooms and this sensor shall be linked to the light fittings in the room for lighting control. Allow for the necessary control wiring between the light fittings and the relevant sensor in each area/room. See schedule of light fittings and drawings to see what light fittings have the sensor incorporated into the fitting and what light fittings have the sensor remote from the fitting. Operation of lighting system in these areas; the user will enter the room/ area and to press the "push-to-make" bell push switch to bring the lights on. The lights shall then turn on to the required light level only if the detectors sense that the room/area is occupied; the lights will remain on while the room/area is occupied. There is no time limit to this; once the room/area is vacated, the system will time out and switch the lights off. This time-out period shall be set to 10 minutes; if the room/area is entered before the lights have been timed out, the system will reset and stay on until once again the room/area is vacated; if the room/area is entered after the lights have timed out, the user will have to press the "push-to-make" rocker switch to bring the lights back on. The user of each room shall also have the facility to increase or decrease the lighting level of the light through the " push-to-make" rocker switch so that the user has manual dimming control over the light fittings.</u>					
A Standalone recessed daylight absence detector and daylight sensor	2	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall allow for the supply and installation of a remote sensor to control the light fittings in the toilet areas and stores as indicated on the drawings. Please note that the majority of light fittings in these areas will require a remote sensor as indicated on the drawings. Allow for the necessary control wiring between the light fittings and the relevant sensor in each area/room. All motion/presence detectors for use with the light fittings in the toilet areas as indicated shall be as a Eco-Sensor PIR from Thorlux or equivalent. All motion/presence detectors shall adhere to the following specifications; white colour; ceiling mounted (recessed); 360 degree and adjustable detection range from 1 to 6 meters; 230V AC; IP43</u>					
A	Ceiling mounted remote PIR sensor for the lighting controls <u>The electrical contractor shall allow for the supply, installation, cabling and commissioning of all the light fittings listed below. The type of luminaire required for each location is specified in the appropriate schedules. The electrical contractor shall install these luminaires at the locations shown on the drawings. The lighting system shall be fed from the new sub-electrical board for the building as indicated on the drawings. The exact location of each luminaire shall be determined on site in consultation with the employer's representative. All luminaires shall be complete with all necessary control units that shall be used in conjunction with the LED light fittings. Ensure lighting supplier has included for all remote control units. All luminaires to be complete with lamps, spare lamps and necessary items as per specification. All luminaires shall comply with BS4533. All luminaires' photometric data shall comply with BS5225. All luminaires shall be in accordance with IS EN 60079, and IS EN 50014; IS EN 50018 or IS EN 50020 as appropriate. Final connection to luminaires shall be via a "KLIK" type connector junction box with 3 core 1.5sq.mm heat resistant flex as final connection. Luminaires erected prior to the completion of wall, floor and ceiling finishes must be sealed from dust/dirt and protected from damage/ Such luminaires may not be used for temporary lighting of the works unless approved</u>	5	Nr			
B	Surface mounted 37 watt 1520 x 217 x 90mm LED light fitting. Light fitting shall adhere to the following; surface mounted fitting; 37 watt LED; IP44 rated below ceiling; dimmable; white painted steel. End caps; white polycarbonate with a curved, precision extruded clear prismatic polycarbonate diffuser; 21.5 mm diameter cable entry hole in the centre of the black spine with optional cable entry through each end cap. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorn College Prismatic LED (96628920 College LED4650-840 HFIX L1500 or equivalent.	2	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Surface mounted 37 watt 1520 x 217 x 90mm LED light fitting. Light fitting shall adhere to the following; surface mounted fitting; 37 watt LED; IP44 rated below ceiling; white painted steel. End caps; white polycarbonate with a curved, precision extruded clear prismatic polycarbonate diffuser; 21.5 mm diameter cable entry hole in the centre of the black spine with optional cable entry through each end cap. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorn College Prismatic LED (96628920 College LED4650-840 HFIX L1500 or equivalent.	2	Nr			
B	Surface 30 watt 1545mm LED fitting, light fitting shall adhere to the following; surface mounted 30 watt fitting; 30 watt LED; IP40 rated fitting; Steel body finished full polyester, non-yellowing white; shallow profile with co-extruded "Satin-Glo" polycarbonate controller; Screw in end caps; 4000K LED's 5-year warranty for all components. CE Marked. The proposed lighting fitting is Thorlux Jubilee LED (or equivalent)	2	Nr			
C	Surface 43 watt 1545mm LED light fitting. Light fitting shall adhere to the following; surface mounted 43 watt fitting; 43 watt LED; IP40 rated fitting; Steel body finished full polyester, non-yellowing white; shallow profile with co-extruded "Satin-Glo" polycarbonate controller; screw in end caps; 4000K LED's; 5-year warranty for all components. CE Marked. The proposed lighting fitting is Thorlux Jubilee LED or equivalent	2	Nr			
D	Twin 1500mm LED ultraviolet light fitting, surface mounted c/w all fittings as necessary.	2	Nr			
E	External IP66 rated wall mounted light fitting. Light fitting shall adhere to the following; external wall mounted LED light fitting; 35 watt LED; IP66; silver or white finish options; strong die-cast LM2 aluminium body; high efficiency fire retard satin polycarbonate diffuser; photocell option; microwave presence detector option with stand-by light level feature; silver colour. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorlux Cobalt LED or equivalent	2	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>The Contractor shall supply and install the emergency lighting system and emergency light fittings in compliance with IS 3217:2023, BS EN 50172 and IEC 62034. All emergency light fittings for this building shall be EMC compliant, CE Marked and manufactured to IS EN60598-2-22. The emergency lighting system shall operate for a period not less than 3 hours following failure of the normal supply. The system shall include all emergency lights and exit signs, and the contractor shall take responsibility to ensure that all emergency luminaires are compatible with the chosen system. Each emergency luminaire shall have a switching unit which shall automatically switch the luminaire to the emergency circuit in the event of local or mains power failure. The installation shall consist of self-contained maintained emergency exit signs with appropriate running man symbol. Types of luminaires required for the various locations are shown on the drawings and described in the below. The contractor shall ensure that the luminaires are placed on order to suit the installation programme. However, approval of the engineer shall be obtained before placing orders. All luminaires shall be complete with all necessary control units that shall be used in conjunction with the LED light fittings. Ensure lighting supplier has included for all remote control units. All luminaires shall comply with BS4533. All luminaires' photometric data shall comply with BS 5225. All luminaires shall be in accordance with IS EN 60589. The electrical contractor shall ensure that luminaires of similar type have same photometric performance as published data within the tolerances defined by BS5225. All hazardous area luminaires shall comply with IS EN 60079, and IS EN 50014; IS EN 50018 or IS EN50020 as appropriate. Final connection to luminaires shall be via a "KLIK" type connector junction box with 3 core 1.5 sq.mm heat resistant flex as final connection. Luminaires erected prior to the completion of wall, floor and ceiling finished must be sealed from dust/dirt and protected from damage. Such luminaires may not be used for temporary lighting of the works unless approved.</u>					
A IP30 rated ultra slim (blade type) wall/ceiling mounted 4W LED emergency luminaire with 3hr maintained emergency operation c/w status indicator. Light fitting shall adhere to the following; suitable for wall mounting or ceiling mounting, dependant on location; polycarbonate body finished in matt silver with 10mm screen printed acrylic signage panel indicating straight through escape; screen printed legend panel in appropriate European signs directive format pictogram. 4 watt LED in total; self-contained battery; three-hour maintained; 3 year warranty; the light fitting shall conform to the current BS ISO 3864-1 & ISO 7010 S standards. CE marked. The proposed lighting fitting is Thorlux LEx or equivalent)	8	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	IP65 rated self-contained standalone recessed 3W LED emergency light downlighter (Open Area Version). Fitting shall be a high performance LED light fitting. Light fitting shall be a non-maintained emergency operation c/w status indicator. Allow for remote control unit for standalone light fitting. Light fitting shall adhere to the following; recessed for open area version. Supplied with the open plan lens (symmetrical light pattern); self-contained; 3 watt LED; lamp colour - 4500K; lamp power 3.0 watt. 270 lumens in emergency; IP65 rated below the ceiling; IP40 rated above the ceiling; thermally conductive nylon body; polycarbonate bezel finished in white RAL 9016; self-contained battery; three-hour Non-Maintained; class L; status indicator to indicate operational condition; 5 year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed lighting fitting is Thorlux Firefly (Area Version) or equivalent.	2	Nr			
B	IP65 rated self-contained standalone recessed 3W LED emergency light downlighter (Escape Route Version). Fittings shall be a high performance LED light fitting. Light fitting shall be a non-maintained emergency operation c/w status indicator. Allow for remote control unit/ status indicator. Allow for remote control unit for standalone light fittings. Light fittings shall adhere to the following; recessed for escape route version. Supplied with the escape route lens (asymmetrical light pattern). Self-contained. 3 watt LED; lamp colour - 4500K; lamp power - 3.0 watt; 235 lumens in emergency; IP65 rated below the ceiling; IP40 rated above the ceiling; thermally conductive nylon body; polycarbonate bezel finished in White RAL 9016; self-contained battery; three-hour Non-Maintained; class I; status indicator to indicate operational condition; 5-year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed lighting fitting is Thorlux Firefly (Escape Route Version) or equivalent.	13	Nr			
C	IP65 rated wall/ceiling mounted 4W LED emergency bulkhead with 3hr non-maintained emergency operation c/w status indicator. Ceiling or wall mounted version dependant on location/ Light fitting shall adhere to the following; surface mounted IP65 rated bulkhead; self-contained. Offwhite polycarbonate body with clear linear prismatic cover; 4 watt LED; lamp colour - 4000k; three-hour non-maintained; 5 year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed light fitting is Thorlux Mini-8 or equivalent.	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	CABLES					
	<u>All the new light fittings as indicated in the building shall be wired in new cable. Allow for wiring all the new light fittings back to the new electrical boards as indicated on the drawings. Mains wiring for the internal lighting circuits shall be run in 2.5sq.mm, with 2.5sq.mm earth throughout the installation. All lighting circuits shall be protected by MCB's of a minimum size of 10A. The circuits shall be arranged to minimise voltage drop and provide the correct operating voltage for each luminaire. In order to achieve absence detection as required by the system must be connected to at least one normally open momentary action switch wired in parallel. Include for all 1-10V, 2 core 1.5sq.mm LSZH control cabling system selected is compatible with the luminaires selected. This shall include liaising selected. This shall include liaising with the lighting control specialist prior to 1st fix, to ensure the light sensor is located in the optimum location within each room.</u>					
A	Control cabling	11	m			
B	Power Cabling	38	m			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
C	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
D	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
E	commissioning as detailed in Engineer's specification	1	item			
F	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
G	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
H	working drawings	1	item			
J	co-ordination drawings	1	item			
					To Collection €	

BQ/210

BQ/211

Description		Qty	Unit	Rate	€	c
<u>(64) COMMUNICATION SYSTEMS</u>						
<u>ELECTRICAL INSTALLATIONS</u>						
GENERAL						
<u>System; supply, install and commission of DATA/ I.T. installation in accordance with Services Drawing No's. 19-052 62(E001) - T1 to 19-052 62(E005) - T1 and Specification</u>						
A	supply, install, test and commission of DATA/ I.T. installations; complete; including all structured cabling, RJ45 sockets, RJ45 patch panels and cabinets; as per Electrical Services Drawings and Specification	1	Item			
B	The new extension shall be provided with a new independent CAT 6A UTP structured computer wiring system as per the drawings. The system as described below shall be installed in accordance with ISO 11801 and EN 50173. All equipment provided shall be from the same manufacturer to ensure optimum performance. The installed system shall be certified by the specialist Contractor with a twenty-year performance and components warranty.	1	Item			
C	All structural wiring shall be terminated in the new intermediate data cabinet as identified on the electrical drawings. All wiring terminations shall be RJ45 presentation. All new IT and telephone points shall be wired back and connected to this new intermediate comms cabinet. Allow for punching down the data cables.	1	Item			
D	The entire installation shall be carried out by a data specialist Contractor. The specialist Contractor shall be fully trained and certified to install the specified product and fully authorised to issue a warranty certificate.	1	Item			
E	The data horizontal cabling shall consist of CAT 6A UTP (unshielded twisted pair) cable complying with EIA-TIA 568 up to and including 155 Mps. All cable runs on a system of cable trays/conduit to be supplied by the Electrical Contractor; as per Electrical Services Drawings and Specification	1	Item			
F	The data equipment shall be connected to RJ45 socket outlets via Category 6A device cables to EIA/TIA 568A, (SP 2840A), ISO IS 11801 and EN 50178 standards. Cables shall be terminated in RJ45 plugs and shall be 3m long; data outlets shall be supplied and fitted under this contract and shall be modular universals applications RJ45 type to EIA/TIA 568A, ISO IS 11801 and EN 50173 Category 6A; as per Electrical Services Drawings and Specification	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>System; supply, install and commission of Public Address installation in accordance with Services Drawing No's. 19-052 62(E001) - T1 to 19-052 62(E005) - T1 and Specification</u>					
A	supply, install, test and commission of Public Address installations; complete; as per Electrical Services Drawings and Specification	1	Item			
B	Allow for the supply, installation, testing and commissioning of new public address devices to the existing PA system for the existing Girls School main school building and the existing Boys School main school building. The PA system shall be extended to cater for the new devices in the new Girls School extension and new Boys School extension; as per Electrical Services Drawings and Specification	1	Item			
C	Allow for the supply, installation, testing and commissioning of the new public address speakers for the new Girls School extension and new Boys School extension. All speakers as indicated on the drawing are to be linked back to the existing public address control panel in the Girls School main school building and Boys School main school building; as per Electrical Services Drawings and Specification	1	Item			
	PRIMARY EQUIPMENT					
	<u>Intermediate Distribution Frame; to serve School Extension; including all structured cabling, spur outlets, PDU, RJ45 sockets, RJ45 patch panels and cabinets; all in accordance with Services Engineers Drawings and Specifications</u>					
D	Intermediate Distribution Frame	1	nr			
	TERMINATION EQUIPMENT AND FITTINGS					
	<u>Final circuits (including points terminations) supply and installation of the following data and I.T. services; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>					
	All the cabling for the IT points that are to be installed for the CCTV system, door access systems shall be wired back and connected to one of the comms cabinets in the building. Allow for punching down the cabling to all IT points for the CCTV system, door access systems at both ends					
E	IT points for CCTV system	3	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	The data horizontal cabling shall consist of CAT 6A UTP (unshielded twisted pair) cable complying with EIA-TIA 568 up to and including 155Mps. All cable runs on a system of cable tray/conduit to be supplied by the electrical contractor. Each data outlet shall be connected to the RJ45 patch panel. Connect equipment via the above cable in a star topology format. The length of each run shall not exceed 90m and total length from network device to network device including any leads must not exceed 100mts. If necessary, additional cross connects must be provided. UTP cable shall comply with EIA/TIA 568 (SPZ840A) ISO 11801 and EN 50173 standards. UTP cables from each user location shall be terminated at the comms cabinet in each location as indicated Horizontal backbone system	19	m			
	The data equipment shall be connected to RJ45 socket outlets via Category 6A device cables to EIA/TIA 568A, (SP 2840A), ISO IS 11801 and EN 50178 standards. Cables shall be terminated in RJ45 plugs and shall be 3m long. The data outlets shall be supplied and fitted under this contract and shall be modular universals applications RJ45 type to EIA/TIA 568A, ISO IS 11801 and En 50173 Category 6A. Faceplates on dado/skirting trunking shall be selected to match exactly MK dado compartment trunking system as specified earlier in this document. They shall be flush mounted and be of an exact matching colour. Stand-alone RJ45 points shall be fitted with faceplates to match the finish of the electrical sockets as detailed earlier in this specification. Quad faceplates in PVC WHI to match trunking as described above. Work location system	3	m			
					To Collection €	

Description	Qty	Unit	Rate	€	c
The contractor shall allow for the supply and installation of a completed Public Address (PA) system in areas as indicated on the drawings including all speakers, cabling, console system, etc. A specialist sub-contractor shall be employed by the contractor in order to carry out all the final connections, testing and commissioning of the system. The contractor shall allow for the supply, installation, testing and commissioning of a complete public address/music system for the new extension of the building as indicated on the drawings. All areas as indicated on the drawing shall be linked back to a new independent public address control panel which shall be located in the Principals Office. The supply of equipment, final connection of devices and commissioning shall be by the specialist supplier below with all other works performed by the contractor. The contractor shall allow for a complete installation within the tender price. All equipment as supplied by SKS Communications, or equivalent. Classroom switching; the PA system be wired so that the Principal can independently speak to each classroom and office area can talk back to the Principal. The PA system shall be a 2-wat communication system. Therefore, there shall be a dedicated switch for each classroom and office on the main PA console in the Principals Office so that Principal and flick this switch and talk independently to a specific classroom throughout the building without other classrooms or areas hearing the conversation. Subsequently, there shall be a switch on each PA speaker in all Classrooms, Offices, etc. that shall allow the teacher in each room to speak independently to the Principal if required. General area switching; apart from the switching highlighted above, the PA system shall be zoned so that certain areas are grouped together. A separate switch for each zone (zones highlighted below) shall be installed on the main PA console so that the Principal can speak to all the zones separately. Announcement for all areas; a single switch shall be installed on the PA system console that the Principal can make an announcement to all the PA speakers throughout the Junior School Building. Zoning; apart from each classroom and office being independently switched, the PA system shall be zoned as follows; external area (zone 1); corridors (zone 2)					
				To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Wall mounted speakers shall be installed in all Safebase, SET rooms, Offices, Staffroom, etc. as shown on the drawings, allowing 2-way communication from the main console in the Principals Office to these rooms throughout the building. Speakers shall be vandal resistant loudspeakers and shall be mounted 1600mm above finished floor level. Final location of speakers to be agreed with the employers representative. These speakers will be 6watt with power tape of 3/1.5/.75/.3 Watts as a minimum. The speakers will be constructed of metal and shall be white colour. Wall mounted speakers to be CES WAS-6061, or equivalent. Speaker shall be located at the teachers wall and shall have a volume control in addition to the toggle switch.	1	Nr			
B	CD player/tuner for the PA system, as Bosch LBB-1961/00 CD player/tuner, or equivalent. Allow for connecting the cabling for the PA speakers in the new Extension to the new main console. The new main console shall be located in the Principals Office	1	Nr			
C	Power amplifierr for the PA system, as Bosch LBB-1938/00 plena booster 720/480W, or equivalent.	1	Nr			
D	Paging microphone on desk stand with "press-to-talk" button for the PA system to be located within the Principals Office as Bosch LBB-1946 6 zone call station, or equivalent. Final location to be agreed with the client.	1	Nr			
	<u>A suitable Audio Frequency Induction Loop System (AFILS) shall be provided for the following areas as indicated on the drawings; Classroom- Class Base. Allow for supplying and installing Audio Frequency Induction Loop System (AFILS) for the cash desk identified above as AKM1 system from C-EC, or equivalent. Each system shall consist of the following; audio input singa (e.g microphone or other audio source) as APM plated microphone; AFILS fitted sticker; Induction loop amplifier as PDA200E; induction loop cabling/tape; suitable microphone; wall mounted metal enclosure</u>					
E	Induction loop system	1	Nr			
F	Amplifier for induction loop system	1	Nr			
G	Induction loop tape to be installed around the perimeter of the room	10	m			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
H	identification plates, labels and the like; as Engineer's specification	1	item			
					To Collection €	

BQ/217

BQ/218

	Description	Qty	Unit	Rate	€	c
	<u>(66) CONTAINMENT</u>					
	<u>ELECTRICAL INSTALLATIONS</u>					
	GENERAL					
	<u>System; cable ladder/tray/trunking installations; cabling containment; galvanised; including conduits, cable trays, baskets, 3-compartment trunkings, wiring, brackets, supports, fixings, hangers, bends, headers, grounds, casing, covers, plating and mounting in accordance with Drawings and the Electrical Specification.</u>					
A	supply and install of cable ladder/tray/trunking installations; complete	1	item			
	CABLE CONTAINMENT					
	<u>The electrical contractor shall install all final branch runs, risers, offsets, etc. as required to provide a complete containment system in each case. This information is indicative only. The electrical contractor shall provide all bends, tee's and cross-overs that required to meet current ETCI standards, the routes indicated are main routes only and secondary routes into rooms are not indicated. The contractor shall be responsible for the supply and installation of all trunking and tray to ensure the supply and installation of all trunking and tray to ensure the protection of all trunking and tray to ensure the protection of all the cabling. All trunking and trays shall be manufactured from galvanised steel as supplied by unitrunk or equivalent. The contractor must ensure 40% spare capacity is maintained within containment at all times. All exposed wall mounted trays must be clipped/lidded. All cable tray and trunking shall be installed within the ceiling void and shall be hidden. The contractor shall allow for all dado trunking drops and layouts as indicated on the drawings. The contractor shall allow for all electrical items as indicated on the drawings on the dado trunking</u>					
B	75mm tray for sub-mains cable tray	11	m			
C	300mm tray for sub-mains cabling	23	m			
D	Dado trunking	12	m			
E	Conduits	66	m			
	CABLE CONTAINMENT FITTINGS					
	<u>Cable containment fittings</u>					
F	75mm cable tray bends	2	Nr			
G	300mm cable tray nemds	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Dado trunking bends	2	Nr			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
B	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
C	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
D	commissioning as detailed in Engineer's specification	1	item			
E	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
F	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
G	working drawings	1	item			
H	co-ordination drawings	1	item			
J	as-built drawings	1	item			
	<u>General Builder's Work</u>					
K	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/219 Page No. BQ/220 (66) CONTAINMENT Carried to Summary					
BQ/221					

Description		Qty	Unit	Rate	€	c
<u>(68) SECURITY & PROTECTION SERVICES</u>						
<u>ELECTRICAL INSTALLATION</u>						
GENERAL						
<u>System; supply, install and commission of Fire Alarm Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u>						
A	supply, install, test and commission of Fire Alarm Installation; complete; as per Electrical Services Drawing Nr. 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and Specification	1	item			
B	Supply, install and commission by specialist contractor; complete Fire Alarm System including all associated equipment and wiring	1	item			
C	A new fire alarm installation shall be installed for the building as indicated on the drawings. The system to be installed shall be in compliance with I.S. 3218: 2024. All new devices as indicated for the building shall be wired back and connected to the new main fire alarm panel which shall be located in the entrance lobby to the main building.	1	Item			
D	A fully addressable L1 type fire alarm system fully in accordance with I.S. 3218:2024 and as identified in the drawings shall be provided for the building. The system shall comprise ionisation and optical smoke detectors, heat detectors, sounders, combined heat detectors, combined smoke detectors, alarm beacons/ sounders, visual alarm devices, manual call points, fire alarm interfaces, short circuit isolators and similar alarm input devices, located as shown on the drawings. The devices shall be connected in loops to the compact wall mounted addressable control and indicator panel located as indicated on the drawings.	1	Item			
E	Fire alarm systems by the following companies is acceptable; sidemen's; tyco; morley; nulli fire; menveir limited. The fire alarm system for the building shall be an "Open Protocol" system with unrestricted access to replacement components and software so that there is no impediment to its future maintenance by companies selected by the client.	1	Item			
F	The existing main fire alarm panel shall be retained and extended to cater for the new fire alarm devices in the new extension. The panel shall be a compact wall mounted addressable control and indicator panel located at the main entrance to the school. All devices within the new extension building shall be connected in loops, to this panel.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	<u>System; supply, install and commission of Access System Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u> supply, install, test and commission of Access Systems; complete; as per Electrical Services Drawing Nr. 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and Specification <u>The electrical contractor shall be responsible for the supply, cabling, installations, testing and commissioning of the complete CCTV system for the building as indicated on the drawings. The CTV system shall be an IP networked CCTV system and shall be installed and commissioned by the contractor. The electrical contractor shall allow for supplying all necessary power supplies and data points to the CCTV system installation as indicated on the drawings. A fully digital closed circuit television system shall be provided to ISEN50131/1 and IS199. Camera positions and type shall be as indicated on the drawings and as specified in these documents. Recording equipment shall be located in the admin office as indicated on the drawings. The contractor shall employ a suitability qualified ISIA company to install the CCTV system. The specialised CCTV contractor shall design, install and commission a fully digital closed circuit television system, which shall comply to ISO En50131/1 and IS199. The specialised CCTV contractor must be a suitably qualified ISIA company and NSAI accredited.</u>	1	Item			
B	supply, install, test and commission of CCTV System; complete; as per Electrical Services Drawings and Specification <u>System; supply, install and commission of the Emergency Call System; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u>	1	item			
C	supply, install, test and commission of Emergency Call System; complete; as per Electrical Services Drawings and Specification <u>System; supply, install and commission of the Intruder Alarm Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u>	1	item			
D	supply, install, test and commission of Intruder Alarm Installation; complete; as per Electrical Services Drawings and Specification	1	item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	<u>System; supply, install and commission of Induction Loop System in accordance with Service Engineer's Drawing 19-052 62(E001) - T1 to 19-052 62(E005) - T1 and the Electrical Specification</u> supply, install, test and commission of Induction Loop System; complete TERMINAL EQUIPMENT AND FITTINGS <u>The contractor shall allow for the supply and installation of all smoke and heat detectors throughout the building as indicated on the drawings. All new detector heads shall include a condition indicating LED light and the smoke and heat detector sensors shall be complete with bases. Quantities and locations of devices as indicated on the drawings. The contractor shall supply necessary address flags and address labels for all devices. All new automatic fire detectors shall generally be of the optical smoke detectors type. These detectors shall have an address code setting and shall be addressable and suitable for an addressable fire alarm system. Separate addressable plugs for each detector and base with address number. The colour of detectors shall be white. Detectors to be of the optical point type unless otherwise indicated on the drawings and shall be in accordance with BS 5446-1, IS EN 54-7 and IS3218. Sensitivity of the smoke detectors shall be set by the main panel control software. Heat detectors to be of the type indicated on drawings and be in accordance with BS5446-2, IS EN 54-5 and IS3218:2024. Wiring used for detectors shall be in compliance with IS 3218:2024</u>	1	item			
B	Optical smoke detectors <u>The contractor shall allow for the supply and installation of all combined heat/smoke detector and sounder heads throughout the building as indicated on the drawings. Each head shall include a condition indicating LED light and a suitable base for the sounder. All new detector heads shall include a condition indicating LED light and the smoke and heat detectors sensors shall be complete with bases. Quantities and locations of devices as indicated on the drawings. The contractor shall supply necessary address flags and address labels for all devices. Wiring used for detectors shall be in compliance with IS 3218:2024</u>	4	Nr			
C	New combined smoke detector and sounder for the fire alarm system	12	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>New smoke void detectors shall be installed in the building to protect the ceiling void as indicated on the drawings. Detectors above the ceiling shall be complete with remote monitoring indicating LED. Allow for installing detectors in the ceiling spaces and subsequent LED indicators in the ceiling below the detector. The contractor shall supply necessary address flags and address labels for all devices. Wiring used for detectors shall be in compliance with IS 3218: 2024</u>					
A	New smoke detector installed in ceiling void <u>The contractor shall allow for the supply and installation of all manual call points as indicated on the drawing. The supply and installation of the manual call points shall comply with the following standards: IS EN 50130-4, IS En 54-11 and IS 3218. All manual call points shall be fully resettable type via key operation. Break glass units will not be accepted as all manual call points shall be PVC. All call points shall be supplied c/w surface mounting back box to suit. Call points to be installed 1100mm from the finished floor level and 150mm from doorframes. Allow for installing plastic protective covers on all manual call points throughout the Warehouse area of the building. Wiring used for manual call points shall be in compliance with IS 3218:2024.</u>	7	Nr			
B	Manual call points <u>The contractor shall include for the supply and fitting of new magnetic door holders which shall be linked/interfaced to the fire alarm system and power supply units as required. All magnetic door holders shall be completed with manual over-ride switches and power supply units. Door holders shall hold fire doors in the open position in normal operation, releasing the door to swing closed on fire alarm activation or loss of mains power. Door holders shall be wall mounted magnetic type, metal robust construction, supplied with 12 or 24 volt transformer and incorporating a release switch accessible from floor level. Each door holder shall be supplied with a receiver to be mounted on the door, with an articulated joint to ensure holding of the door by the wall magnet. Door holders shall be suitable for releasing fire doors, with rated power sizes of 4 for an 100mm door leaf with shear force of 80kg in accordance with european standards BS-EN: 1155.</u>	3	Nr			
C	Magnetic door holders	3	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>The contractor shall allow for the supply and installation of all fire alarm interface units as indicated on the drawing and for the linking of these to the relevant systems as indicated. Interface units shall be provided as indicated on the system drawings. These shall have separate 230 volt supply provided to them. Short circuit isolators shall be installed where the loop wiring crossed a fire compartment wall and where the wiring enters another fire zone. In addition to the items above, the following items shall be connected and interfaced to the fire alarm system as a result interface I/O units will be required at all equipment; door access systems; MCC controls panel; gas detection system; lift; heat recovery systems. Wiring used for devices shall be in compliance with IS 3218:2024.</u>						
A	Fire alarm interface <u>An emergency call/panic alarm system consisting of a central control station in the office and emergency assist panic pendants worn by staff shall be supplied and installed as part of the electrical installation. The system provided shall cover both the new ASD unit as well as the outdoor spaces associated with this. This shall be an addressable system comprising of mobile pendant/handheld panic button units and a panic controller. The contractor shall allow for providing the school with wireless panic devices as part of the contract. The intention is that a panic button/unit shall be assigned to a staff member and when it is triggered, an alarm will sound and the display unit will digitally indicate a number assigned to the staff member who triggered the alarm. The system shall have two phase panic mode which shall consist of the following; setting 1 will indicate that the person feels threatened; setting 2 indicates that a more serious emergency situation has occurred. The central control addressable unit shall be located in the admin office and all wireless panic buttons shall be linked back via a receiver back to this addressable unit so that in the event of an activation; it will state on the alarm. The wireless panic attack button system shall consist of a belt clip with a transmitter.</u>	4	Nr			
B	Wireless panic button	6	Nr			
C	New panic alarm central control system panel	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Install remote setting digital keypads in the locations as indicated on the drawings. Keypads shall be complete with digital display. Final location of keypads shall be decided in conjunction with the employer's representative. The keypads shall suit the intruder alarm system to be installed and shall adhere to the following specifications; wired version; ABS housing; Hinges lid and hinged cover; high speed keypad bus; graphics LCD with blue back-lighting; audible word library; built-in panic feature "press * and # together"; no DIP switch setting required; keyprox version available for BS8243; approximate size of 167mm x 125mm x 26mm; EN 50131-1 EN Grade 2; Environmental Class II</u>					
A	Combined proximity fob reader and keypad for the door access system <u>All AOV's control panels, fireman breakglasses. etc. shall be supplied by others but shall be handed over to the electrical contractor for installation and wiring. In total, there is 1 AOV control systems to be installed as indicated on the drawings. The electrical contractor shall allow for providing the following electrical attendances to the AOV control system; 13amp 230volt fused spur outlet power supply to each control panel. Height of the panel is highlighted on the drawings. Final location of the spur outlet to be confirmed by the AOV system installer; fire alarm interface (1/0 unit) from the fire alarm system to each AOV control panel at low level. Refer to section 68.01 for further information on the fire alarm interfaces. The door release facility for each system shall also be linked to the fire alarm system so that in the event of fire activation the respective doors shall open. Installation of the AOV control panel and fire man break glass unit in the locations as indicated for each AOV system. All control panels and break glass units shall be supplied by other and handed over free issue to the electrical contractor for wiring and installation; all necessary cabling from each AOV control panel to its associated AOV in the roof; all necessary cable containment for all power supplied to all control panels and fire alarm cabling between devices</u>	2	Nr			
B	Emergency break glass unit	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The electrical contractor shall allow for providing the following electrical attendances to the door access installation. Quantities and locations of all electrical attendances are as indicated on the drawings; 13amp 230volt fused spur outlet power supply at high level above door where each door access system is to be installed. This is for the power supply to the door access system controller. Height of the fused spur is highlighted on the drawings. Final location of the spur outlet to be confirmed in conjunction with the door access system specialist on site; CAT6 data point terminated in a RJ45 outlet to each door access system. Height of the data point is highlighted on the drawings. The CAT6 data point to each door access system shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. The data point for the door access system shall be wired in series back to the comms cabinet in conjunction with all the other data points for the door access systems. Final location of data point to be confirmed in conjunction with the door access system specialist on site; fire alarm interface (1/0 unit) from the fire alarm system to each door access controller at high level above the ceiling. The door release facility for each system shall also be linked to the fire alarm system so that in the event of fire activation the respective doors shall release; all necessary cable containment for all electrical attendances to each door access system; for each door access system the contractor shall allow for installing the necessary back boxes for the door release button, emergency break glass unit, proximity reader or keypad; for each door access system the contractor shall allow for installing the necessary conduit to the back boxes for the door</u>					
A	Attendances to access <u>Final circuits (including points terminations) supply and installation; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>	1	Item			
B	circuits to Emergency call systems cabling	1	item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	<u>Fit internal network dome cameras in the building with the following specificationa; 4MP high resolution network dome camera; IP67; 3D DNR; 1 RJ45 10M/100M self-adaptive ethernet port; 30 meter IR distance; -30 degrees celsius to 60 degree celsius; Hikvision or equivalent. Allow for supplying the following in conjunction with the camera; the necessary brackets for wall or ceiling mounting the camera; allow for supplying and installing all junction boxes and all necessary accessories for installing all the cameras; any other items that the contractor deems necessary</u> Internal CCTV	4	Nr			
B	<u>Fit external network bullet cameras in the building with the following specification; 4MP high resolution network bullet camera; IP67; 3D DNR; 1 RJ45 10M/100M self-adaptive ethernet port; 30 meter IR distance; -30 degrees celsius to 60 degrees celsius; Hikvision or equivalent. Allow for supplying the following in conjunction with the camera; the necessary brackets for wall mounting or pole mounting the camera as advised by the supplier; allow for supplying and installing all junction boxes and all necessary accessories for installing all the cameras; any other items that the contractor deems necessary.</u> External CCTV	4	Nr			
C	<u>The contractor shall allow for the supply and installation of 1 22" LCD flat panel colour monitors in the following areas; admin office. All flat panel monitors shall adhere to the following specifications; LED backlit technology with full HD 1920 x 1080; wide view angle; 170 degrees (H)/ 160 degrees (V); 3D comb filter; 3D De-interlace; 3D noise reduction; Multiple inputs: HDMI, VGA, audio in; built-in speaker. Final locations of the monitors within the rooms are to be agreed with the employer's representative.</u> CCTV monitor	1	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>Supply and install a 32-Camera NVR to receive video output from all cameras. The digital recorder shall be a network recorder and shall be set up so that the system can be accessed via phones and computers. The proposed NVR is a Hikivision DS-9600NI-18 or equivalent. Digital recorder for this project shall adhere to the following specifications; video/audio input; 32-channel audio input; 1-ch RCA two way audio; 4-ch, RCA audio input interface. network; 320 Mbps incoming bandwidth; 256 Mbps outgoing bandwidth; 128 Mbps remote connection. Video/audio output; 4K HDMI output; 12MP recording resolution; 8MP@8fps frame rate; 2-ch, RCA audio output; 12MP playback resolution; 16-channel synchronous playback. Hard disk driver; 8 SATA interfaces interface type; up to 6TB capacity for each HDD; 1 eSATA interface. External interface; 2; RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface network interface. 2 USB 2.0 interface on the front panel 1 USB 3.0 interface on the rear panel USB interface; 16-channel alarm input; 4-channel alarm output. General information; 230V power source; 30W power consumption; IP66.</u>					
CCTV digital recorder	1	Nr			

Description	Qty	Unit	Rate	€	c
<u>The electrical contractor shall allow for providing the following electrical attendances to the CCTV system; Internal cameras in the building; 1 CAT6 data point terminated in a RJ45 outlet to each internal CCTV camera. Height of the data point is highlighted on the drawings. The CAT6 data point to each CCTV system installer. 1 13amp fused spur is highlighted on the drawings. The spur shall be supplied from the new electrical board in the building. Final location of the spur outlet to be confirmed by the CCTV system installer; supply and instalaaion of the CCTV camera and final connection of power supply and IT cable to the camera. External cameras on the building; 1 CAT6 data point terminated in a RJ45 outlet to each internal CCTV camera. Height of the data point is highlighted on the drawings. The Cat6 data point to each CCTV camera shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. Final location of the spur outlet to be confirmed by the CCTV system installer. Supply and installation of the CCTV camera and final connection of power supply and IT cable to the camera. Wall mounted CCTV monitors in the building. Wall mounted CCTV monitors in the building; 1 CAT6 data point terminated in a RJ45 outlet to each wall mounted CCTV monitor in the building. Height of the data point is highlighted on the drawings. The CAT6 data point to the CCTV monitor shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. Final location of data point to be confirmed by the CCTV system installer. 1 13amo signle socket power supply to each CCTV monitor in the building. Height of the single socket is highlighted on the drawings. The socket shall be supplied from the new electrical boards in the building. Final location of the socket to be confirmed by the CCTV system installer. All cabling shall be run in galvanised steel conduit. Conduit runs serving wall mounted CCTV devices shall be provided at each of the CCTV cameras, monitors, multiplexer/recorder and video positions indicated on the drawings. CCTV cabling and devices shall be supplied and installed by the electrical contractor. The electrical contractor shall co-ordinate and optimise the location of the external light fittings with the external CCTV cameras. Where possible, the light source should be above and behind the camera. If this is not possible, the light source shall be at 90 degree to the main viewing axis of the main viewing axis of the camera. Proposed equipment layouts are as shown on the drawings, however all precise locations to be confirmed on site with the employer's representative. All mounting structures and brackets for all devices shall be included for in the tenderer's price.</u>					
A Attendances to CCTV system	1	Item			
				To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Intruder Alarm Installations Cabling</u>					
A	Intruder Alarm Cabling <u>Final circuits (including points terminations) supply and installation; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>	1	Item			
B	circuits to intruder alarm system <u>There are accessible toilets throughout the new extension as indicated on the drawings. For each of these toilets, the contractor shall allow for the supply and installation of an emergency call system consisting of alarm cords, reset button and over door buzzers/light, for the accessible toilets as indicated on the drawings. the reset button for each toilet shall be within each WC to ensure the assistant check the room prior to resetting the alarm. The pull cords for the alarm shall be installed in the immediate vicinity of the WC and the shower in each toilet and this shall be located in the admin office. Wiring shall be carried out in 4-core security cable. The contractor shall allow for the following for each accessible toilet in the building; 1 "one zone" controller; 2 ceiling pull cords; overdoor light with sounder; reset button; accessible WC sticker; call latch module; 12 volt power supply unit cater for each system.. The contractor shall allow for zone controllers in the admin office. This shall cater for all of the new emergency call systems installed in each of the accessible toilets. Allow for a 230Volt 3 amp fused spur switch at the location of each zone controller.</u>	1	item			
C	Pull cord for the emergency call system	2	Nr			
D	Over door sounder for emergency call system	2	Nr			
E	Reset button for emergency call system	2	Nr			
	<u>Emergency Call System Cabling</u>					
F	Emergency Call System Cabling <u>Final circuits (including points terminations) supply and installation; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Electrical drawings and Electrical specification.</u>	1	item			
G	circuits to emergency call system	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall allow for retaining the existing main intruder panel for the building. The location of the panel is located on the drawing. The contractor shall allow for connecting all new connecting all new devices back to this panel and contractor shall also allow for linking the new main fire alarm panel to the existing intruder alarm panel.</u>					
A	Main control panel <u>Install PIR movement detectors as indicated on drawings. Detectors shall be dual technology type incorporating passive infra-red and microwave technologies, an remove walk test facility to enable routing testing. Movement detectors shall be of the Passive Infra-Red/Microwave "Dual Tec" type of sufficient range and coverage for areas indicated. They shall be suitable for Wall or Truss Mounting as appropriate. The sensor shall be suitable for the coverage of the perimeter window areas as indicated on the drawing. All alarm sensors shall be suitable for the areas and locations which they are installed and shall include full anti-tamper facilities. Dual technology sensors shall adhere to the following specifications; dual element pyro-electric sensor; X-band DRO based microwave; Optional lenses 18m and 30m; anti-masking detection; 0-1m adjustable mask detection; selectable EOL resistors; AND/OR technology; patented independent floating thresholds; blue wave technology; auto sensitivity feature; digital temperature compensation; triple LED indication; sealed optics; tamper proof brackets included; ABS plastic; tested and certified to IS EN 50131-2-4</u>	1	Nr			
B	Movement detectors <u>Internal sounders shall be 12volt d.c. electronic "SQR Sounder". As "HKC HN8-ECHOFLR" low profile sounder complete with strobe or equivalent. Sounders shall be configured to silence after 30 minutes in operation. Interanl sounders shall adhere to the following specification; High output dual piezo; variable volume control; housing with tamper switches; sounder shall come with strobe (red or blue). Strobe and sounder shall adhere to the following specifications; 120mA strobe current; 135mA siren current; 1W strobe; EN50131-4; EN Grade 2; Environmental Class II</u>	2	Nr			
C	Internal sounders <u>Magnetic reed contacts for external doors and windows where indicated on the drawings shall be of the double reed magnetic type with shock sensors as required.</u>	2	Nr			
D	Intruder alarm door contact	1	Nr			
E	Intruder alarm window contact	21	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>All intruder alarm cabling to devices and between intruder alarm panels shall be 6-core security alarm cable and shall adhere to the following specifications; 6-core; white jacket colour; maximum resistance less than 155 Ohm/km; BS4737-3.30:2015 Type 3 (Yellow Rip Cord); voltage rating 50Vrms; jacket material lead and tin free PVC; PVC insulation- BS EN 50636-3 TI 1; PVC sheathing- BS EN 50636-4.1 TM1; conductor material tinned copper; external diameter 3.8mm</u>					
A	Intruder alarm cabling	1	item			
	<u>A suitable Audio Frequency Induction Loop System (AFILS) shall be provided for the following areas as indicated on the drawings; Classroom- Class Base. Allow for supplying and installing Audio Frequency Induction Loop System (AFILS) for the cash desk identified above as AKM1 system from C-EC, or equivalent. Each system shall consist of the following; audio input singa (e.g microphone or other audio source) as APM plated microphone; AFILS fitted sticker; Induction loop amplifier as PDA200E; induction loop cabling/tape; suitable microphone; wall mounted metal enclosure</u>					
B	Induction loop system	1	Nr			
C	Amplifier for induction loop system	1	Nr			
	<u>Induction Loop System Cabling</u>					
D	Induction loop tape to be installed around the perimeter of the room	10	m			
	<u>Final circuits (including points terminations) supply and installation of the following Induction Loop System; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>					
E	circuits to all Induction Loop systems	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
F	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
G	testing and commissioning as detailed in Engineer's specification	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Commissioning and system validation</u>					
A	commissioning as detailed in Engineer's specification	1	item			
B	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
C	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
D	working drawings	1	item			
E	co-ordination drawings	1	item			
F	as-built drawings	1	item			
	<u>General Builder's Work</u>					
G	marking out and supervision of all Builder's Work	1	item			
H	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					To Collection €	

BQ/236

Description	Qty	Unit	Rate	€	c
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS					
NOTES Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Mechanical & Electrical Engineer's Drawings / Specification Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5. The Contractor shall allow for the full and complete provision of the works associated with these items, including all labour, materials, equipment, cabling, containment, accessories, testing and commissioning, as required by the Contract Drawings and Services Engineer's Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5. The Contractor shall note that notwithstanding the quantities included in this Bill of Quantities, the tendered sum shall be deemed to include for the full and complete execution of the works as described in the Services Engineers Specifications, Drawings and Schedules. The Contractor shall ensure that all plant, equipment, fixtures, ductwork, pipework, valves, dampers, controls, insulation, supports, builders work interfaces and ancillary items, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning mechanical services installation. The Contractor shall not be entitled to additional payment for any item omitted from the BoQ quantities where such item is clearly required by the drawings and/or specifications. Information generally 1. It is brought to the Contractors attention that the proposed alterations to the existing building are SEN's and as such particular attention should be paid to the requirement for concealed pipework and recessed radiators together with any other requirements for an SEN Unit as detailed in the Mechanical & Electrical Engineer's Drawings / Specifications and as demanded by the requirements of a typical SEN unit.		Note Note Note Note Note Note Note			
				To Collection €	

Description		Qty	Unit	Rate	€	c
2. Allow for bringing and removal on completions all plant required for this element of work			Note			
3. Contractor to include in his tender sum for all general and special attendances required on his mechanical sub-contractor			Note			
<u>Testing & Commissioning of Electrical Systems</u>						
A	Testing, inspection and commissioning of all electrical services installations, including power distribution, lighting, emergency lighting, fire alarm, security, communications and associated controls, complete to demonstrate full compliance with the Contract Drawings, Specifications and relevant Irish Standards.	1	Item			
B	Testing, inspection and commissioning of all electrical services installations, including power distribution, lighting, emergency lighting, fire alarm, security, communications and associated controls, complete to demonstrate full compliance with the Contract Drawings, Specifications and relevant Irish Standards.	1	Item			
C	Provision of all test results, certification and commissioning records, including ETCI / Safe Electric certification, subsystem certificates and specialist system certificates, as applicable.	1	Item			
D	Attendance during commissioning of specialist systems, allowing for coordination with manufacturers, suppliers and system specialists where required by the specification.	1	Item			
E	Attendance at witness testing by the Employer's Representative and provision of all required test certificates and commissioning documentation	1	Item			
<u>Operation & Maintenance Manuals and Handover</u>						
F	Preparation, submission and handover of Operation and Maintenance (O&M) Manuals for the complete electrical installation, compiled in accordance with the specification and contract requirements.	1	Item			
G	O&M Manuals to include, as a minimum; As-installed drawings and schematics; Equipment schedules and manufacturers' data sheets Test certificates and commissioning records System descriptions and control philosophies Maintenance requirements and recommended servicing intervals Warranty information and contact details	1	Item			
H	Provision of client instruction and demonstration for all electrical systems, including lighting controls, fire alarm, security systems and specialist installations, delivered at agreed times prior to handover.	1	Item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
Final handover of electrical services, including submission of all documentation, certification, training records and confirmation that systems are fully operational and compliant.	1	Item			

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/237 Page No. BQ/238 Page No. BQ/239 (69) COMIMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS Carried to Summary					

	Description	Qty	Unit	Rate	€	c
<u>(59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS</u>						
<u>BUILDERS' WORK IN CONNECTION WITH MECHANICAL AND ELECTRICAL INSTALLATIONS</u>						
BUILDERS' WORK						
<u>Forming or cutting openings in walls</u>						
A	75mm Cable tray for solar panel	2	Nr			
B	300mm Cable tray for solar panel	2	Nr			
C	28mm copper pipework	10	Nr			
D	22mm copper pipework	1	Nr			
E	15mm copper pipework	8	Nr			
F	42mm copper pipework	3	Nr			
G	25mm flow and return pipework	2	Nr			
H	32mm flow and return pipework	4	Nr			
J	150mm duct	2	Nr			
K	100mm duct	6	Nr			
<u>Forming or cutting openings in floors</u>						
L	110mm dia. waste pop up	4	Nr			
M	50mm dia. waste pop up	9	Nr			
N	150 x 150mm floor gully	1	Nr			
<u>Forming or cutting openings in roofs</u>						
P	50mm dia. soil vent pipes	1	Nr			
<u>Pipes and duct sleeves, fixed in opening in walls</u>						
Q	28mm copper pipework	10	Nr			
R	22mm copper pipework	1	Nr			
S	15mm copper pipework	8	Nr			
T	42mm copper pipework	3	Nr			
U	25mm flow and return pipework	2	Nr			
V	32mm flow and return pipework	4	Nr			
					<i>To Collection €</i>	

BQ/242

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/241 Page No. BQ/242 (59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS Carried to Summary					
BQ/243					

BQ/244

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/244 BUILDING FITTINGS Carried to Summary					
BQ/245					

Description		Qty	Unit	Rate	€	c
<u>(74) SANITARY FITTINGS GENERALLY</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the new sanitary fittings required within the existing SEN and Mainstream classrooms. These works will largely be carried out within a live environment and all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<u>Supply and Fit the following sanitary fittings; accessible W/Cs to be installed and set out in compliance with TGD Part M 2010 Section 1.4 Diagram 15a & guidelines and standards for sanitary facilities in primary schools; refer to Appendix documents for proposed Doc M Pack sanitary ware and railing systems</u>						
Fittings; sanitary; as per Architects drawings and specification						
A	sanitary ware; Strata close coupled WC, cistern & fixings and soft close seat; refer to Product Data Sheet in Appendix	4	nr			
B	sanitary ware; Strata cloakroom basin, round fronted, 1 tap hole with overflow; refer to Product Data Sheet in Appendix	4	nr			
C	sanitary ware; 1 1/4 inch slotted flush grated waste, no plug	4	nr			
D	sanitary ware; 1 1/4 White plastic bottle trap	4	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	sanitary ware; Intamix Thermostatic Mixing Valve 15mm/22mm, With isolation valve; refer to Product Data Sheet in Appendix	4	nr			
B	sanitary ware; Sequential Lever Operated Basin Mixer Tap; refer to Product Data Sheet in Appendix	4	nr			
C	sanitary ware; WD 8 x 110 Sanitary Fixing for Strata Basins	4	nr			
D	special purpose; 600mm Grab rails with concealed fixings (white); Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces. Refer to Product Data Sheet in Appendix	24	nr			
E	special purpose; 450mm Grab rails with concealed fixings (white); Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces. Refer to Product Data Sheet in Appendix	4	nr			
F	special purpose; Wall Mounted Liquid Soap Dispenser (Satin Finish); Refer to Product Data Sheet in Appendix	4	nr			
G	special purpose; Paper Towel Dispenser (Satin Finish); Refer to Product Data Sheet in Appendix	4	nr			
H	special purpose; Toilet Roll Holder (Satin Finish); Refer to Product Data Sheet in Appendix	4	nr			
J	special purpose; Mirror 1000x400mm, polished edges	4	nr			
K	special purpose; Disposal Bin	4	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/246 Page No. BQ/247 (74) SANITARY FITTINGS GENERALLY Carried to Summary					
BQ/248					

BQ/249

BQ/250

Description		Qty	Unit	Rate	€	c
<u>(71) DISPLAY, CIRCULATION FITTINGS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the permanent signage requirements associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<u>0.03 Aluminium laminate sign face applied to 1/8 thick black acrylic; Sign face includes raised text and silver metal braille beads. Available Finishes: Brushed Aluminium / Satin Aluminium; proposed signage to be bonded directly to wall / door with adhesive, location TBC by architect; colours & text design TBC by Architect prior to manufacture; contractor to provide drawings for approval prior to manufacture; no lighting to be included.</u>						
Fittings						
A	signage; 125mm x 300mm	22	nr			
B	signage; 200mm x 300mm	4	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Each fire extinguisher is to have the correct signage above it; the sign is to indicate what type of extinguisher it is and what type of fire it can be used on; fire extinguishers are to have a clear space of 1000mm in from of them for ease of access in case of a fire; Powder and C02 fire extinguishers to be provided in the locations indicated on architect's signage plan; all signs are to be complaint with internal standard ISO 7010.</u> The following is a non-exhaustive list of signage that is required:						
A	Size: 90 x 280mm; Self-Adhesive; 1.2mm thick; Environmentally Friendly and durable Polypropylene material	5	nr			
B	size 200 x200mm; Aluminium; Weight 0.04 kg; 0.5mm thick	1	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/251 Page No. BQ/252 (71) DISPLAY, CIRCULATION FITTINGS Carried to Summary					
BQ/253					

Description	Qty	Unit	Rate	€	c
<u>(76) STORAGE, SCREENING FITTINGS</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included		Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
Information generally					
1. The work measured hereunder refers to the fitted furniture requirements associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
				<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>Mainstream Classroom Craft Sink Unit; 19.4mm SWISSCDF or equivalent woodfibre boards with all edges sealed with rubio clear dry Oil PURE or equivalent - this must be applied to all edges; all kitchen unit carcass shelving to consist of white melamine birch ply at 18mm thickness; all carcasses are to be elevated from the floor level with a 150mm base constructed beneath units to accommodate any services, faced with SWISSCDF or equivalent 19.4mm as per units; colour of which to be confirmed; all doors to consist of 18mm birch plywood with high pressure POLYREY DURION CLASSIQUE HPL or equivalent facing with birch edges exposed sealed and finished with a suitable lacquer/ seal to prevent moisture damage and any other damage; facings: All SWISSCDF or equivalent 19.4mm with all edges sealed with Rubio clear dry oil PURE or equivalent; 170 x 35mm D handles 10mm diameter by Hafele or equivalent (Ref 117.40.640) brushed stainless steel; Heavy-duty stainless-steel hinges & Door soft closers to be included BLUM or equivalent; 38mm x 600mm omega white quartz Hi-gloss ice white laminate with rounded EDGE profile; anti-fungal mastic joint between splashback and worktop; refer to Architects joinery drawing T403 for details.</u>					
	Equipment					
A	special purpose Mainstream Classroom Kitchen Units; 3000mm wide x 760mm high x 625mm depth	2	nr			
	<u>Extra over</u> the above for					
B	Sonas or equivalent sink pack, inset stainless steel 1.5 bowl and drainer complete with dual control sink 1 taphole mixer, hal inch basket strainer waste range or equal approved ncluding all plumbing, traps etc.; Contractor to measure on site & confirm dimensions prior to ordering of materials	2	nr			
	<u>Coat rail 3000mm minimum length suitable for 30 no. coats, fixed 1000-1200mm above F.F.L in each mainstream class base in proposed rear extension; refer to Architects floor plans for location in each classroom.</u>					
	Furniture, furnishings, details stated					
C	special purpose; coat rail 3000mm long	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Storage unit consisting of sliding door system with 6mm bulletin board material fixed to doors and 11000mm of 600mm deep plus 11000mm of 300mm deep heavy-duty adjustable shelving, no part of shelving should be greater than 2200mm above F.F.L in each mainstream class base in proposed rear extension; refer to Architects joinery drawings T/B 404 & T/G 404 in conjunction with Architects floor plans for location in each classroom.</u> Equipment A storage; 3000mm wide x 600mm deep x 2200mm high <u>Magnetic white boards, fixed 800-900mm above F.F.L, where an interactive board is being supplied (by others) the white board should be reduced to 2400 x 1200mm in each mainstream class base in proposed rear extension.</u> Furniture, furnishings B special purpose; 2400 x 1200mm magnetic white boards <u>Notice board in each mainstream class base in proposed rear extension.; refer to Architects floor plans for location in each classroom.</u> Furniture, furnishings C special purpose; 2400 x 1200mm notice board <u>38mm x 600mm Laminate workstation with rounded edge profile to be provided in each mainstream classroom as indicated on Architects proposed floor plans.</u> Furniture, furnishings D special purpose; Teacher Desk	2	nr			
		4	nr			
		2	nr			
		2	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Contractor to supply & fit Mainstream Classroom with new IT Bench unit to Architects design drawings in accordance with Department of Education Design Guidelines; Contractor to allow for service connections and finishing around this upon completion of fitting; Refer to Architects drawings for location of Mainstream Classroom with IT Bench unit; Contractor to allow for ALL fitted joinery as shown in plan and elevation; Contractors responsibility to make good of any damage caused throughout proposed works to new joinery & fitted furniture at their own expense up until the point of handover; proposed counter shall be 30mm thick moisture resistant MDF worktop with decorative high pressure laminate, rounded edges providing circular-cut outs with PVC grommets cables; all Worktop edges to be provided with C-shaped frame; Worktop unit to be supported and held by 50x 50mm mild steel frame and finished with epoxy powder coated to selected RAL colour; unit to be provided with end caps and adjustable feet to allow for change in height; Colour to be agreed with architect prior to order; melamine faced chipboard will not be permitted in any circumstances; units to comply with BS 6222 and BS EN 1153 & structural performance to BS 6222:part 2, grade H. Surface finishes performance to BS 6222:part 3 & worktop classification to BS 6222:part 3, type 2; Formaldehyde levels to conform to Type Class E1 of product standard EN622-1; refer to Architects drawing T403.</u> Equipment special purpose; IT Bench 2500 x 630mm deep	2	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Proposed storage unit to be constructed using 18mm FSC certified mdf with formaica facing to top, sides and back, colour tbc by architect prior to manufacture of storage unit; all frame fixings to be concealed throughout; 3no. shelves to consist of 18mm FSC certified MDF with formaica facing, supported off powder coated heavyduty steel adjustable shelving racks fixed to storage unit frame; 4 part sliding door system to consist of 18mm FSC certified MDF with formaica facing with with 6mm bulletin board material fixed to external face of all doors; proposed aluminium sliding rail system to include top and bottom aluminium rails; 4 no. recessed brushed stainless steel handles the use of melamine faced chipboard will not be permitted in any circumstances; units to comply with BS 6222 and BS EN 1153 & structural performance to BS 6222:part 2, grade h; surface finishes performance to bs 6222:part 3 & worktop classification to bs 6222:part 3, type 2.; formaldehyde levels to conform to type class E1 of product standard EN622-1; refer to Architects joinery draing T404 for details.</u> Equipment						
A	storage; 3000mm wide x 600mm deep x 850mm high lockable base unit	2	nr			
B	storage; 3000mm wide x 400mm deep x 1350mm high shelving upper unit	2	nr			
					To Collection €	

BQ/259

BQ/260

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/260 *****EXISTING BUILDING WORKS***** Carried to Summary					
BQ/261					

Description	Qty	Unit	Rate	€	c
<u>(--) DEMOLITIONS AND ALTERATIONS</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included		Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
Information generally					
1. Notwithstanding that this Pricing Document has been measured in accordance with Agreed Rules of Measurement 5, the tenderer should note where works measured are not in accordance with ARM.		Note			
2. The work measured hereunder refers to site preparatory works associated with the new extension, including works outside the boundary of the site. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
3. It is imperative that all tendering Contractors carry out an extensive and detailed site visit to familiarise themselves with the conditions and restrictions that all elements of the demolition, alteration and new work will be carried out in accordance with; Contractor to include in his / her rates herein for the nature of the site.		Note			
4. Demolition work shall be carried out in accordance with B.S. 6187.		Note			
5. Protect the public and occupiers of adjoining properties by erection of temporary fences, warning lights, etc before commencing work.		Note			
6. Notify all service authorities and / or owners of adjoining property, not less than one week before commencing operations.		Note			
7. Locate and mark the position of services affected by the work; arrange with the appropriate authorities for the location and marking of the position of mains services.		Note			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
A	8. Prior to demolitions measured hereunder any Specialist Contractor executing the works will have to be approved by the Architect / Engineer for the project (e.g. asbestos removal Subcontractors).		Note			
	9. The Contractor must allow for all necessary segregation of demolition waste and disposal of same in suitably registered tips; including all necessary certificates, licences and permits; all in accordance with current Department of Environment regulations.		Note			
	10. Removals and disposal shall be the full responsibility of the Contractor and shall be carried out in full compliance with The Waste Management Act 1996 and all Regulations thereunder; the European Communities (Protection of Workers) / (Exposure to Asbestos) Regulations, 1989 to 2000; the Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 and in accordance with the requirements of the Local Authority.		Note			
	11. The rates quoted hereunder for demolition or alteration of existing structural elements will be deemed to INCLUDE for all necessary propping and shoring of overhead or surrounding structures during the operation.		Note			
	12. The Contractor should note limitations on working hours identified in the Preliminaries Section of the Pricing Document.		Note			
	13. The contractor is to be aware of live services in the ceiling voids from the first-floor level. Refer to Galileo Energy Services drawings and documents for all information regarding the live services.		Note			
<u>DEMOLITION AND ALTERATIONS</u>						
DEMOLITION						
<u>Demolition of existing section of external walls to allow for proposed new openings; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>						
Demolishing parts of structures						
A	450mm wide external wall	76	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Demolition of existing section of internal walls to allow for proposed internal door; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Demolishing parts of structures					
A	215mm wide internal wall for doors; 1000 x 2100mm high	1	nr			
B	215mm wide internal wall for new layout	52	m2			
	<u>Contractor to allow for the removal of existing ramps and step to allow for new layout shown on architect proposed ground floor plan; including breaking out, disposal off site to a certified disposal facility; all in accordance with Architect's Drawings and Specification</u> Removal					
C	External entrance ramp and steps	1	each			
	<u>Contractor to allow for the removal of existing steps to allow for footprint of proposed extension; including breaking out, disposal off site to a certified disposal facility; all in accordance with Architect's Drawings and Specification</u> Remove					
D	existing external steps	1	each			
	<u>Contractor to allow for removal of existing ramp to allow for footprint of proposed extension; including breaking out, disposal off site to a certified disposal facility; all in accordance with Architect's Drawings and Specification</u> Removal					
E	existing ramp	1	nr			
	<u>Demolition of existing section of internal walls for new layout; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Demolishing parts of structures					
F	100mm wide internal wall to allow for new internal layout	43	m2			
G	1000mm x 2100mm doors	2	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Sanitary Ware (toilets, sink etc) <u>Contractor to allow for the removal of existing window to allow for infill wall; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Removal	2	nr			
B	1800mm wide x 1500mm high windows	2	nr			
C	Infill Area <u>Contractor to allow for the removal of existing window; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Removal	6	m2			
D	420mm wide x 1150mm high <u>Contractor to allow for the removal of existing internal door; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Removal	1	nr			
E	1050mm wide x 2100mm high <u>Contractor to allow for the removal of existing roof slates to allow for new flat roof; roof to be reslated once flat roof is installed; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u> Remove	2	nr			
F	Existing roof to be demolished	1	item			
G	Roof to be reslated	292	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	ALTERATIONS					
	<u>Contractor to allow for the removal of existing external sign and symbols on the existing north elevation where the proposed mainstream classroom is going; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
A	fixtures and fittings; external signage	1	nr			
	<u>Contractor to allow for the removal of existing external door to allow for new proposed internal doors; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
B	fittings and fixtures; external door; size 1500mm x 2100mm high	2	nr			
C	fittings and fixtures; external door; size 1300mm x 2100mm high; 400mm wide screen or wall	1	nr			
D	fittings and fixtures; external door; size 900mm x 2100mm high	1	nr			
	<u>Contractor to allow for the removal of existing window to allow for new triple glazed aluminium windows to be installed; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removal					
E	1800mm wide x 1500mm high	2	nr			
F	1450mm wide x 1500mm high	2	nr			
G	400mm wide x 900mm high	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Contractor to allow for the removal of existing external window & cill to allow for new internal window to be installed; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removal					
A	1100mm wide x 1500mm high	4	nr			
B	1800mm wide x 1500mm high	6	nr			
	<u>Contractor to allow for the removal of existing window and section of wall to allow for proposed internal door; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removal					
C	1800mm wide x 2100mm high; including 600mm section of wall removed under window	1	nr			
	<u>Contractor to allow for the removal of asbestos cisterns; refer to asbestos report in the accompanying tender document</u>					
	Removal					
D	Cisterns to be removed and replaced	6	nr			
	<u>Contractor to allow for the removal of existing window to allow for new proposed window; contractor to build up height of ope to allow for new smaller window; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removal					
E	1800mm wide x 1500mm high window	1	nr			
F	built up height for; 1100mm wide x 1300mm high new windows	2	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Contractor to allow for blocking up existing vent in the wall; including breaking out, disposal off site to a certified disposal facility, making good surrounds, propping and protecting the existing structure; all in accordance with Architect's Drawings and Specification</u>					
	Removal					
A	vent	1	nr			
	<u>Carefully remove existing floor finishes; including removal of any skirting / coved skirting and making good floors; disposal off site at a certified disposal facility; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
B	finishes; existing floor finishes	144	m2			
	TREATMENT/REPAIRS					
	<u>22mm external sponge finish render to be applied as indicated on architectural drawings 22mm; external rendering to comprise of 3-5mm thick 1:1.5-2 cement: sharp sand scud coat; 9mm 1:1:6 cement: lime: sharp sand scratch coat; 9mm 1:1:6 cement: lime: sharp sand float coat with textured finish to be agreed with the architect; all in accordance with Architects Drawings and Specification</u>					
	Render and plaster repairs					
C	exceeding 300mm wide; plaster to gable wall following the removal of canopy roof	13	m2			
	<u>11mm gypsum gyproc hardcoat or equivalent (not plasterboard) to be applied to both sides of internal walls, lightly scratched prior to 2mm gyproc or equivalent Skim coat finish; products to be used in strict accordance with the manufacturers instructions; contractor to allow for all internal walls to be constructed to underside of roof / floor slab and sealed with rockwool linear fire stopping or equivalent / fireproofing sealant where fire rating is required; refer to F.S.C drawings and report attached in Architects appendix documents.</u>					
	Render and plaster repairs					
D	exceeding 300mm wide; plaster to internal walls following replacement of windows and doors	8	m2			
					To Collection €	

BQ/269

BQ/270

BQ/271

Description		Qty	Unit	Rate	€	c
<u>(19) SUBSTRUCTURES</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
A	Contractor to provide Temporary Works Design for the support of existing foundation adjacent to leanmix foundations	1	Item			
Information generally						
1. The work measured hereunder, refers to all works up to and including the ground floor slab associated with the extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. It is imperative that all tendering Contractors carry out an extensive and detailed site visit to familiarize themselves with the conditions and restrictions that all elements of the demolition, alteration and new work will be carried out in accordance with; Contractor to include in his / her rates herein for the nature of the site.			Note			
3. The Contractor should note limitations on working hours identified in the Preliminaries Section of this Pricing Document			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>Excavation</u>						
Reduce levels						
B	not exceeding 2.00m deep; within existing structure; include for excavation and remove to spoil heap for disposal	49	m3			
C	not exceeding 2.00m deep	77	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Foundation trenches					
A	not exceeding 2.00m deep; within existing structure; include for excavation and remove to spoil heap for disposal	74	m3			
B	not exceeding 2.00m deep	42	m3			
	<u>Extra over</u> excavation items for					
C	around existing services; we's and sinks to existing school	4	nr			
D	breaking up existing; hard surfaces; concrete slab within existing school building	127	m2			
	Working space to					
E	foundations; not exceeding 2.00m deep; backfilling with T2 Perm gas permeable layer; within existing structure	132	m2			
F	foundations; not exceeding 2.00m deep; backfilling with T2 Perm gas permeable layer	72	m2			
	Disposal					
G	surface water; keep the surface of the site free of surface water	1	item			
H	ground water; keeping the excavations free of ground water	1	item			
J	excavated material; off-site	242	m3			
	<u>T2 Perm gas permeable layer in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T2 Perm gas permeable layer					
K	to make up levels; not exceeding 250mm deep	15	m3			
L	to excavations; not exceeding 250mm deep	26	m3			
M	to excavations; not exceeding 250mm deep; within existing structure	26	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>T1 Structural subbase in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T1 Structural subbase					
A	to make up levels; not exceeding 250mm deep	13	m3			
	<u>T0 Structural hardcore filling in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; T0 Structural hardcore filling					
B	to make up levels; not exceeding 250mm deep	19	m3			
	<u>T3 blind fine sand blinding; filling in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Surfaces treatments					
C	blinding filling; horizontal	82	m2			
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Unreinforced in-situ lean mix concrete; Grade C12/15 XC2; in accordance with Engineers Specification</u>					
	Bulk filling					
D	poured on or against earth or unblinded hardcore; within existing structure	33	m3			
E	poured on or against earth or unblinded hardcore	27	m3			
	<u>Reinforced in-situ concrete; Grade C28/35 XC2 D20 S2; vibrated; in accordance with Engineers Specification</u>					
	Foundations					
F	reinforced; within existing structure	20	m3			
G	reinforced	17	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Reinforced in-situ concrete; Grade C25/30 XC1 D20 S2; vibrated; in accordance with Engineers Specification</u>					
	Beds					
A	thickness not exceeding 150mm; reinforced; within existing structure	19	m3			
B	thickness not exceeding 150mm; reinforced	12	m3			
	SUNDRIES					
	<u>20mm PVC Movement Joint Beads (Expansion Joints); Exterior grade impact resistant UV stable unplasticized PVC; 13mm exposed width and 25mm wings each side; 18-22mm render depth.</u>					
	Design joints					
C	movement joint cut in concrete; including mastic sealant or equal and approved sealant	75	m			
D	isolation joint in concrete; including mastic sealant or equal and approved sealant	91	m			
	<u>Surface finish to slabs to engineer's approval</u>					
	Surface finishes					
E	powerfloating	220	m2			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393 grade 500, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
F	horizontal; foundations	101	m2			
	<u>Reinforcement fabric mesh to B.S. 4483; reference A252, weighing 3.95kg/m2; no allowance in measurement for laps</u>					
	Fabric					
G	horizontal; structural slab	220	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>New foundations connection to existing foundations with H16 diameter dowel at 300mm centres</u>					
	Special connections					
A	H16 diameter dowel at 300mm centres	34	nr			
	FORMWORK					
	<u>Formwork generally; Type A plain non-fair faced finish</u>					
	Sides of foundations					
B	exceeding 250mm but not exceeding 500mm high	158	m			
	Edge of beds					
C	not exceeding 250mm	91	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid Concrete Blocks; I.S. 20; compressive strength S13N; to be used with interlaced coursing providing solid blockwork to minimum overall thickness; masonry mortar type M12 I:0.5:4/4.4 (cement: lime: sand); recessed pointing; as Engineers specification</u>					
	Walls in trenches					
D	100mm thick	7	m2			
E	215mm thick	31	m2			
F	350mm thick	14	m2			
	Labours					
G	on blockwork	1	item			
	Bonding to other work					
H	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	1	m			
J	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 215mm wide blockwork	4	m			
K	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 350mm wide blockwork	1	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Supply and install 2 no. courses of Roadstone Thermal Liteblock S13N blocks at all floor / rising wall junctions to improve thermal bridge detailing; refer to Architects foundation detail</u>					
	Walls in trenches					
A	100mm thick	7	m2			
B	215mm thick	17	m2			
	Labours					
C	on blockwork	1	item			
	Bonding to other work					
D	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	1	m			
E	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 215mm wide blockwork	2	m			
	ANCILLARIES TO BRICKWORK/BLOCKWORK					
	<u>Damp proof courses; "Hyload" B.S. 7431 black polythene 2000 gauge; 150mm laps; welded in accordance with manufacturers instructions bedding in cement and sand mortar (1:3); no allowance in measurement for laps</u>					
	Damp proof courses					
F	not exceeding 225mm wide; horizontal	27	m			
G	width exceeding 225mm wide; horizontal	18	m2			
	<u>Ventilation gratings; Galvanized Mild Steel; complete with all accessories and fixings; louvered pattern; building into prepared openings</u>					
	Ventilation gratings					
H	225 x 225mm; pointing with mortar one side	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>"RMB Monarflex" RMB 400 or equal and approved radon barrier Irish Agreement Board Certificate No. 98/0075 - 3rd print: 1999-11-05; laid strictly in accordance with the manufacturers instructions on 50mm sand blinding layer; no allowance for laps; tape the radon barrier to the walls and at joints with radon tape in accordance with good practice and homebond house building manual</u>					
	Damp proofing					
A	not exceeding 300mm wide; vertical	91	m			
B	exceeding 300mm wide; horizontal	220	m2			
	<u>Collars around pipes, standards and the like; depth of collar to manufacturers recommendations</u>					
	Collars around pipes, posts and the like					
C	PVC drainage pipework; 150mm nominal diameter	2	nr			
	<u>Fibre cement board protection to vertical DPM</u>					
	Damp Proofing					
D	15mm thick	9	m2			
	<u>WOODWORK</u>					
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Unilin Thin-R XT/ PR_ UF or equivalent manufactured to EN 13165 by Unilin or equivalent, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings.</u>					
	Insulation					
E	thermal; exceeding 300mm wide; laid horizontally; 150mm deep	220	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Unilin Thin-R XT/ PR UF or equivalent manufactured to EN 13165 by Unilin or equivalent, comprising a rigid Polyisocyanurate (PIR) core between low emissivity gas tight facings.</u> Insulation not exceeding 300mm wide; vertical	91	m			
A	<u>40mm Unilin Perimeter Strips (XT/STR) or equivalent around floor perimeter to provide robust detailing in order to reduce thermal bridging; ensure top of perimeter strip is level with top of floor finish; seal around any service penetrations.; refer to Engineers detailed drawings.</u> Sundries not exceeding 300mm wide; horizontal	178	m			
	<u>DRAINAGE</u> DRAINAGE BELOW GROUND <u>Excavating trenches to receive pipes; not exceeding 250mm nominal size; grading bottoms; earthwork support; disposing of surplus excavated material by removing off site</u> Excavating; starting from reduced level; filling in above 400mm thick bed and cover with Type B clause 804 in accordance with Engineer's specification					
C	average depth not exceeding 0.50m <u>Selected granular material in accordance with Engineer's specification</u> Beds and surrounds	3	m			
D	400mm wide x 400mm thick bed and surround; to 110mm pipe Vertical casings	3	m			
E	500mm wide x 500mm thick at blanked radon outlet <u>uPVC pipes; I.S. 424; air tight welded joints in the running length</u> 110mm pipework; in trenches	1	m			
F	laid in position horizontal	3	m			
G	laid in position vertical	1	m			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	<u>Extra over</u> pipes on which they occur for pipe capping <u>Monarflex Easi Sump sump complete; including all base supports as required; back fill all around with clean broken stone to Engineer's specification; including all excavation and disposal off site</u> Radon sump	1	nr			
B	internal size 400 x 400 x 500mm deep; one 110mm diameter opening <u>Testing and commissioning</u> Testing	1	nr			
C	testing the radon drainage system to the Architects satisfaction as the work proceeds and on completion	1	item			
					<i>To Collection €</i>	

BQ/281

BQ/282

BQ/283

Description		Qty	Unit	Rate	€	c
<u>(21) EXTERNAL WALLS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>CONCRETE WORK</u>						
PRECAST CONCRETE						
<u>Killeshal precast lintel beams; refer to drawings for lintel codes with respect to span; lintel beams to have min bearing each side; as Engineers specification</u>						
Lintels						
A	100mm wide x 215mm deep	9	m			
<u>Precast concrete cills (100mm face depth to suit wall make-up, extends 100mm horizontally both sides of window jamb) to all proposed windows wrapped with DPC, have 25mm vertical insulation to rear and have concrete backfill/ soap bar; bedded in gauged mortar</u>						
Window Cills						
B	100mm face x 135mm back x 350mm deep	7	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid Concrete Blocks; I.S. 325 & 20; compressive strength S7.5N; to be used with interlaced coursing providing solid blockwork to minimum overall thickness; masonry mortar type I:0.5:4/4.4 (cement: lime: sand); recessed pointing; as Engineers specification</u>					
	Walls					
A	100mm thick	227	m2			
	<u>Extra over</u> Solid Concrete Blocks					
B	reveals; Mannok or equivalent solid thermal blocks cavity closer blocks with nib returned across cavity; 30 minute minimum fire resistance	19	m			
	Bonding to other work					
C	tying new rising walls to existing with Ancon stafix wall starter system or equal and approved; 100mm wide blockwork	14	m			
	ANCILLARIES TO BRICKWORK / BLOCKWORK					
	<u>Ancon RT2 ties at 450mm centres maximum horizontal and vertical centres, plus additional ties around opening and joints as per Engineers specification and BBA Certification or equal approved; all as per Engineer's Specification</u>					
	Forming cavities					
D	150mm wide; between new walls	114	m2			
	<u>Closing cavities; Proprietary cavity closer insulation shall be Unlin close-R (FR) or euivalent; Contractor to close all cavities at wall plate (eaves) and verge Safe-R Close-R or equivalent 150mm (Product Code- XTCLSR1200150) rigid Phenolic core between low emissivity foil facings; to be installed in accordance with instructions issued by Manufacturer.</u>					
	Closing cavities; top of walls					
E	150 x 25mm Xtratherm proprietary Cavity Closer	55	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Closing cavities; full fill cavity wall cavity closer insulation to all window / door openings shall be 100mm depth Unilin Close-R (FR) or equivalent; the Fire Rated cavity closer insulation shall be Unilin Close-R (FR) or equivalent manufactured by Dacatie, comprising a Rigid PVC-U Outer Profile with encapsulated mineral wool; to be installed in accordance with instructions issued by Manufacturer.</u> Closing cavities; jambs A 150 x 25mm Xtratherm proprietary Cavity Closer Closing cavities; heads B 150 x 25mm Xtratherm proprietary Cavity Closer <u>Built-in full fill cavity wall insulation shall be Unilin Thin-R CavityTherm CT/PIR or equivalent manufactured to EN 13165 by Unilin or equivalent, including corner boards and ancillary detail components, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings with engineered HIPS outer skin; 150mm CT/PIR or equivalent with a Agreement declared Lambda value of 0.021 W/mK to achieve a U value of 0.13W/m2K for the wall element; to be installed in accordance with instructions issued by Unilin or equivalent.</u> Insulation C 110mm thick; between new walls D 25mm vertical, to rear of cill E 25mm horizontal, below window boards <u>Flexible sheet cavity tray with Code 5 Lead Flashing; all lead work to be carried out in accordance with recommendations of Lead Sheet Association (UK)</u> Cavity trays F 150mm cavity; overall girth 390mm; bends - 2 nr; window and door heads	11	m			
		8	m			
		114	m2			
		4	m			
		4	m			
		8	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>DPCs shall conform to the recommendations of IS 57, BS 743, BS 6398 and BS 6515. Where sheet DPCs span across cavities, to prevent the downward ingress of water these are to be in the maximum possible un-jointed lengths, fully supported over the cavity when horizontal, fixed tightly across the cavity to prevent sagging when stepped, end jointed by welding, double welting or sealing with adhesive tape or compound and carefully protected from perforation and damage</u> Damp proof courses A not exceeding 225mm; horizontal; in walls 55 m B not exceeding 225mm wide; vertical; at jambs 11 m C exceeding 225mm; horizontal; under window cills 5 m2 <u>100mm Vents ICON TL100DE or equivalent; 100/150mm background natural ventilation vents as indicated on architects proposed floor plans; final locations can be agreed on site with Architect prior to commencement of works; where indicated in existing construction contractor to include for core in existing construction, installation of wall vent and making good to all finishes internally & externally. and for all attendances and builders work associated with this installation.</u> Sundries D ventilation openings 2 nr <u>'Tescon Pro Clima' or equal approved High-Grade Air-Thightness Tape, taped to blockwork around all window / door openings</u> Air-Thightness Tape E width not exceeding 300mm; to window and doors heads and reveals 19 m <u>18mm thick; vertical; joint filler for movement joints shall be compressible non-extruding board impregnated with high grade bitumen compound to Clause 1727; two-part polysulphide sealing compound to BS 4254 in selected colour; movement joint cover strips to be extruded aluminium and elastomerictype to Architect's approval; wall ties as specified at 225mm vertical centres each side of joint; refer to Engineer's specification</u> Designed joints F movement joints in 100mm blockwork 18 m					
To Collection €						

BQ/288

BQ/289

	Description	Qty	Unit	Rate	€	c
	<u>(22) INTERNAL WALLS, PARTITIONS</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. The work measured hereunder refers to the internal walls / partitions associated with the works to the existing Mainstream classrooms. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
	<u>CONCRETE WORK</u>					
	PRECAST CONCRETE					
	<u>Killeshal precast lintel beams; refer to drawings for lintel codes with respect to span; lintel beams to have min bearing each side; as Engineers specification</u>					
	Lintels					
A	215mm wide x 215mm deep	17	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid textured concrete loadbearing blocks; I.S. EN 771-3:2011; compressive strength S7.5N; stretcher bond in using M4(II) mortar</u>					
	Walls					
B	215mm thick	216	m2			
C	330mm thick	20	m2			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Extra over</u> for special bricks/blocks					
	like items; radiator recesses; 1200mm high	4	m			
ANCILLARIES TO BRICKWORK / BLOCKWORK						
B	<u>Firestopping; Rockwool firestop or equivalent, fitted to top of blockwork compartment walls Note: Firestopping must be fitted between timber battens and above roofing felt; jointing with intumescent sealer and finishing with fire rated coating; to give 60 minute fire rating; all in accordance with the manufacturers instructions; all in accordance with Architects specification and drawings</u>					
	Firestopping approx 150mm high; filling junction between blockwork walls and roof	72	m			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/290 Page No. BQ/291 (22) INTERNAL WALLS, PARTITIONS Carried to Summary					
BQ/292					

	Description	Qty	Unit	Rate	€	c
	<u>(27) ROOF STRUCTURE</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. The work measured hereunder, refers to the roof structure construction associated with existing building. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. The Contractor MUST note that the roof members measured herein are not intended to be an exhaustive list and that the rates herein should make provision for any adjustment so required to achieve a fixed price for the works.		Note			
	3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
A	4. All Roof Steel measured in Element [28] Frame		Note			
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Prefabricated Roof Trusses in accordance with EN14082-1:2016 and shall be sized in accordance with SR 71:2015 timber in construction eurocode 5 - span table and guidelines; stress grades kiln dried timber to comply with current building regulations; double vacuum pressure impregnated with an approved preservative; fixed with galvanised steel toothed plate connectors; all designed and installed in accordance with IS193:1986 and current building regulations to Engineer's approval and Manufacturer's instructions</u>					
	Prefabricated trusses					
B	span 8000mm - 9000mm; 600mm centres	16	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Structural softwood in accordance with Timber Specification;</u> <u>grading standard to EN 14081-1; strength class C16 to EN</u> <u>338; approved species and origin; surface finish PAO;</u> <u>preservative treatment in accordance with B. S. 8417</u> Carcassing					
A	pitched roofs; valley rafters 225mm x 44mm C16	23	m			
B	pitched roofs; jack rafters 225mm x 44mm C16	91	m			
C	pitched roofs; 100mm x 75mm wall plate; fixing by bolting	53	m			
D	trimmers for roof lights; 225 x 50mm C16	6	m			
	IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Metal accessories to woodwork in mild steel; purlins to be</u> <u>fixed to trusses with 30 x 2.5mm thick heavy duty,</u> <u>weatherproof galvanised steel l brackets; provide brackets</u> <u>every 4th rafter and stagger locations.</u> Accessories; straps and hangers					
E	30 x 2.5mm thick heavy duty, weatherproof galvanised steel L brackets	107	nr			
F	18mm ply gusset nailed at 50mm centres to truss	41	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/293 Page No. BQ/294 (27) ROOF STRUCTURE Carried to Summary					
BQ/295					

Description		Qty	Unit	Rate	€	c
<u>(28) FRAMES</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder, refers to the structural frame associated with the existing building. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor MUST note that the structural members measured herein are not intended to be an exhaustive list and that the rates herein should make provision for any adjustment so required to achieve a fixed price for the works.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>CONCRETE WORK</u>						
PRECAST CONCRETE						
<u>Precast Concrete padstone; 'Killeshal' or equivalent 40N padstones; bedded in gauged mortar</u>						
Padstones						
A	450 x 215 x 215mm	4	nr			
B	450 x 215 x 100mm	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>STRUCTURAL</u>					
	STEELWORK					
	<u>Fabricated; weldable steel; Grade S275; B.S.10025; hot rolled sections B.S. 4: Part 1: 1972; weldable fabrications and bolted site connections in accordance with B.S. 449: Part 2; all steel to be hot dipped galvanised; include for temporary propping where existing walls have been broken out; all in accordance with the Structural Engineers specification</u>					
	Fabricated members					
A	beams; member profile 50-100kg/m (UB 406x178x67)	0.51	tonne			
B	beams; member profile 25-50kg/m (UB 254x146x31)	0.41	tonne			
C	beams; member profile 25-50kg/m (UB 203x102x23)	0.12	tonne			
D	beams; member profile 25-50kg/m (UB203x133x25)	0.19	tonne			
	Fittings					
E	add 15% for all plates, cleats, haunches etc in the connections with all Structural Steelwork	0.19	tonne			
	SURFACE TREATMENTS OFF SITE					
	<u>Preparing; shot blasting to Swedish Standard Sa 2 1/2 of B.S. 7079 part A1; blast primer of 1 coat H.G.W. 2 pack epoxy zinc rich primer Ref. A5214 shall be applied to a D.F.T. of 25 microns; spot priming all bare metal with blast primer; site holding primer to be a high build zinc phosphate modified alkyd primer applied by airless spray to a D.F.T. of 75 microns; touching up on site in making good to bolts, welds, etc; all in accordance with the structural engineers specification</u>					
	Structural steelwork					
F	general surfaces	41	m2			
					To Collection €	

BQ/298

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/296 Page No. BQ/297 Page No. BQ/298 (28) FRAMES Carried to Summary					
BQ/299					

[illegible]

BQ/301

	Description	Qty	Unit	Rate	€	c
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the supply & installation of all the external windows and doors associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
4. Dimensions are for pricing purposes only - all opes to be surveyed by window manufacturer prior to manufacture			Note			
A	5. Window supplier to include for all associated flashings and drips.	1	Item			
6. All windows to be triple glazed aluminium windows, be designed and manufactured to comply with technical guidance document 021-1 guidance on the specification of windows by the department of education and science.			Note			
7. Thermally broken aluminium open out rebate type doors with Part M compliant wheelchair thresholds and emergency escape panic bolts; openings to be in accordance with latest t.g.d.; complete with ironmongery.			Note			
8. 1 hour or 1/2 hour fire-rating as indicated			Note			
9. The handing of all window opes / doors are as indicated on plans / elevations			Note			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated</u>					
	First fixings					
A	75 x 20mm grounds for window board	16	m			
	BOARDING AND SECOND FIXINGS					
	<u>Window boards to be 19mm softwood, primed and painted with pencil rounded fixed to treated battens with insulation between where appropriate; battens plugged & screwed to lean mix fill to rear of cill.; in accordance with Architects drawings and specification</u>					
	Second fixings					
B	windowboards; 19mm thick	16	m			
	INSULATION, IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Tescon Pro Clima or equivalent taped and sealed; perimeter seals as required to meet acoustic performance; applied in accordance with manufacturers instructions and recommendations; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
C	air seals; to windows and doors	63	m			
	<u>METALWORK</u>					
	NON-STRUCTURAL					
	<u>Triple glazed polyester powder coated; commercial grade; thermally broken aluminium windows and doors specified exceeding D.O.E TGD 021-1; u-value to exceed the performance of 1.2 W/m2K as per 2019 building regulations (nZEB); refer to Architects Specification 28 PROPOSED WINDOWS AND DOORS for specification.</u>					
	Composite items; Doors					
D	Door Type 5; External thermal broken aluminium door; 1200mm wide x 2100mm high; FDNIL (D29)	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Door Type 6; External thermal broken aluminium door; fixed thermal broken aluminium glazing; with connecting window ope (measured below); 1200mm wide x 2400mm high structural door ope; FDNIL (D18); 2800mm wide x 1500mm high structural window ope	1	nr			
	Composite items; Windows					
B	Window Type 2; 1800mm wide x 1500mm high structural ope (W10, W11)	2	nr			
C	Window Type 4; 1800mm wide x 1500mm high structural ope (W15)	1	nr			
D	Window Type 7; 1400mm wide x 1430mm high structural ope (W27, W28, W31)	3	nr			
E	Window Type 10; 420mm wide x 1150mm high structural ope; opaque window (W29, W30)	2	nr			
F	Window Type 11; 2170mm wide x 740mm high structural ope (W32)	1	nr			
	<u>Extra over for</u>					
G	like item; trickle vent to provide background ventilation in accordance with TGD F 2019	6	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>1nr coat fleetwood or equivalent water based satinwood undercoat; 2nr coats fleetwood or equivalent water based satinwood; all joints, nail/screw heads to be filled, fully sanded and cleaned down.</u>					
	General surfaces					
H	not exceeding 300mm girth; window boards	16	m			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/302 Page No. BQ/303 Page No. BQ/304 (31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS Carried to Summary					
BQ/305					

Description	Qty	Unit	Rate	€	c
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS					
<u>NOTES</u> Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Architect's & Engineer's Drawings / Specification Information generally 1. The work measured hereunder refers to the supply & installation of all the internal doors associated with the new extension and existing building as required. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions. 2. The work measured hereunder refers to the internal doors, frames, architraves, and ironmongery requirement for the project within the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions. 3. Please note that the doors and screens measured hereunder are composite items and the rates quoted should include for the door, frame and glazing beads as described. Door sizes given are indicative only to the blockwork ope size. 4. The composite item is deemed to include all component items outlined in the Architect's specification i.e. slips, stop beads, glass, etc 5. All mortices and holes together with packing material between the frame and structure of all doorsets and framesets are deemed to be included		Note Note Note Note Note Note Note			
				To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated</u>					
	First fixings					
A	35 x 15mm, fixing to blockwork backgrounds	97	m			
	BOARDING AND SECOND FIXINGS					
	<u>100 x 19mm red deal architraves; in accordance with Architects specifications</u>					
	Second fixings					
B	architraves; 100 x 19mm	194	m			
	COMPOSITE ITEMS; Doors					
	<u>30 minute fire rated; solid formica laminate door; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T401 and specification internal doors and screens details.</u>					
	Composite items					
C	Door Type 9; single leaf; 1050mm wide x 2100mm high structural ope; FD30S; (D17, D21)	2	nr			
	<u>Solid Formica Laminate door with vision panel as indicated; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T401 and specification internal doors and screens details.</u>					
	Composite items					
D	Door Type 7; single leaf and half leaf with vision panel (measured below); 1050mm wide x 2105mm high structural ope; FDNIL (D14, D16, D19, D20, D30, D33, D34, D35)	8	nr			
E	Door Type 12; single leaf and half leaf with vision panel (measured below); 1600mm wide x 2100mm high structural ope; FDNIL (D13 & D15)	2	nr			
F	Door Type 14; glazed door with glazed screen; include for required manifestations; 1800mm wide x 2100mm high structural ope; FDNIL (D02)	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> the above for					
A	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	10	nr			
	<u>Solid Formica Laminate door; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T401 and specification for internal doors and screens details.</u>					
	Composite items					
B	Door Type 8; single leaf; 1050mm wide x 2100mm high structural ope; FDN/A (D22, D26, D27, D36)	4	nr			
C	Door Type 11; single leaf; 1250mm wide x 2100mm high structural ope; FDN//A (D23)	1	nr			
	COMPOSITE ITEMS; Windows					
	<u>Internal Window; single toughened glazed timber window system; window system to be fixed and frame to be powder coated; refer to proposed window schedule and architect specification</u>					
D	Window Type 6; Opaque; 1100mm wide x 800mm high structural ope; cill height 1440mm above finish floor level	3	nr			
E	Window Type 7; 1800mm wide x 1500mm high structural ope; cill height 800mm above finish floor level	7	nr			
F	Window Type 8; 1100mm wide x 1300mm high structural ope; cill height 950mm above finish floor level	1	nr			
	IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Refer to KCC Ironmongery Specification for ironmongery requirements; contractor to include for supply, installation and commissioning of all items and associated works referred to in the specialist Ironmongery Schedule or equal and approved supplier.</u>					
	Single door set - FD30s; refer to ironmongery schedule in architect spec					
G	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	4	nr			
H	KCC or equivalent Floor Mounted Door Stop	2	nr			
J	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	4	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Fire Rated Interdens Based Intumescent KCC or equivalent Lock Protector, 1mm, White	2	nr			
B	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	12	nr			
C	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	2	nr			
D	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950, 24VDC 1amp	2	nr			
E	Dormakaba or equivalent Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit; 53010001	2	nr			
F	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 378B030B	2	sets			
G	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon. 5mm	4	nr			
H	Frisco or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	6	nr			
J	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3x510F3BC20 and Certifire CF5234	2	nr			
K	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	2	nr			
	Single Door Set - FDNIL; (WC) standard; refer to ironmongery schedule in architect spec					
L	KCC or equivalent Grade 304 Stainless Steel Unisex Symbol	3	nr			
M	Hat & Coat Hook	3	nr			
N	KCC or equivalent Floor Mounted Door Stop	3	nr			
P	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	6	nr			
Q	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	3	sets			
R	KCC or equivalent Stainless Steel 304 Standard Thumb turn & Release. 6mm	3	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Frisko Stainless Steel Maintenance Free Self-Lubricating Thrust Bearing Hinge to hEN1935 grade 47614014 and Certifire CF336	9	nr			
B	KCC or equivalent Heavy Duty Modular Bathroom Lock c/w; Anti-Rattle Adjustable Strike Plate to EN12209 grade 3X510F-BG20 and Certifire CF5234	3	nr			
C	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	3	sets			
	Single doorset for standerd; FD Nil; refer to ironmongery schedule in architect spec					
D	KCC or equivalent Floor Mounted Door Stop	12	nr			
E	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	24	nr			
F	Interdens Based Intumescent KCC or equivalent Lock Protector, 1mm, White	12	nr			
G	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	72	nr			
H	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	12	nr			
J	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950, 24VDC 1amp	12	nr			
K	Dormakaba or equivalent Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit; 53010001	12	nr			
L	KCC or equivalent Tubular Stainless Steel 304 19mm unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	12	nr			
M	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon 5mm	24	nr			
N	Frisko or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	36	nr			
P	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	12	nr			
Q	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	12	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Single Door Set - FDNIL (changing places); refer to ironmongery schedule in architect spec					
A	Grade 304 Stainless Steel Changing Place Symbol	1	nr			
B	Hat & Coat Hook	1	nr			
C	KCC or equivalent Floor Mounted Door Stop	1	nr			
D	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate; 150mm high	2	nr			
E	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	1	nr			
F	KCC or equivalent Stainless Steel 304 Standard Thumb turn & Release. 6mm	1	nr			
G	Frisco Stainless Steel Maintenance Free Self-Lubricating Thrust Bearing Hinge Each 1 to hEN1935 476114014 and Certifire CF336	3	nr			
H	KCC or equivalent Heavy Duty Modular Bathroom Lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade Each 3 Each 3X510F-BG20 and Certifire CF5234	1	nr			
J	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	1	nr			
K	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	1	nr			
L	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	1	nr			
	<u>30 minute intumescent fire and smoke seals; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
M	15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door	6	m			
	<u>Perimeter seals as required to meet acoustic performance, Maximum 30RW (dB) for airborne sound insulation between circulation spaces and other spaces used by students; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
N	perimeter seal	82	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Access control system to be provided as indicated on architects; refer to Architects Door Schedule; to be read in conjunction with M&E engineers</u> Access Control A Allow for supply of access control as per Galileo Energy Services design	1	item			
	<u>PAINTING AND DECORATING</u> PAINTING AND DECORATING <u>All joints, nail/screw heads to be filled, fully sanded and cleaned down; fleetwood water based satinwood undercoat 1 no. coats; fleetwood water based satinwood 2no. coats.</u> General surfaces B not exceeding 300mm girth; architraves	194	m			
					To Collection €	

BQ/313

Description		Qty	Unit	Rate	€	c
<u>(37) ROOF COMPLETIONS</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>METALWORK</u>						
NON STRUCTURAL						
<u>Velux roof window to pitched roof; 940mm x 1400mm; electronically top operated; including upstands, flashings, timber framing, plasterboard to inside face and skim on completion; all in accordance with Architects Drawings and Specification</u>						
Composite items						
A	rooflights; size 940mm x 1400mm	1	nr			
					To Collection €	

BQ/315

BQ/316

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/316 BUILDING FINISHES Carried to Summary					
BQ/317					

Description		Qty	Unit	Rate	€	c
<u>(41) WALL FINISHES EXTERNALLY</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FLOOR, WALL AND CEILING FINISHINGS</u>						
IN SITU FINISHES						
<u>22mm external sponge finish render to be applied as indicated on Architectural drawings; external rendering to comprise of 3-5mm thick 1:1.5-2 cement: sharp sand scud coat; 9mm 1:1:6 cement: lime: sharp sand scratch coat; 9mm 1:1:6 cement: lime: sharp sand float coat with textured finish to be agreed with the architect; all in accordance with Architects Drawings and Specification</u>						
Walls						
A	not exceeding 300mm wide	4	m2			
B	not exceeding 300mm wide (existing building)	6	m2			
C	exceeding 300mm wide	114	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>20mm PVC Movement Joint Beads (Expansion Joints)</u> <u>Composition; exterior grade impact resistant UV stable</u> <u>unplasticised PVC; dimensions (mm)- 13mm exposed width and</u> <u>25mm wings each side; depth (mm) - 18-22mm render depth;</u> <u>White; all in accordance with Architects Drawings and</u> <u>Specification</u>					
	Sundries					
A	movement joints; 20mm PVC Movement Joint	18	m			
	<u>Stainless steel accessories; fixing with plaster dabs or</u> <u>staples to blockwork/concrete backgrounds; all in accordance</u> <u>with Architects Drawings and Specification</u>					
	Sundries					
B	like items; stop bead; "Expamet Ref 542" or equivalent	51	m			
C	like items; angle bead; "Expamet Ref 545" or equivalent	63	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Contractor to include for painting of all external walls of</u> <u>proposed extension and existing block where alterations are</u> <u>taking place; 3 x no coats DULUX or equivalent trade weather</u> <u>shield finish externally; colour to be approved by architect</u> <u>prior to application.</u>					
	Walls					
D	not exceeding 300mm wide	4	m2			
E	not exceeding 300mm wide (existing building)	6	m2			
F	exceeding 300mm wide	114	m2			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/318 Page No. BQ/319 (41) WALL FINISHES EXTERNALLY Carried to Summary					
BQ/320					

Description		Qty	Unit	Rate	€	c
<u>(42) WALL FINISHES INTERNALLY</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FLOOR, WALL AND CEILING FINISHES</u>						
BOARD FINISHES						
<u>Contractor to include for existing external walls which become internal walls to be dry Lined using 12.5mm gypsum or equivalent plasterboard board with gyproc or equivalent skim coat finish; products to be used in strict accordance with the manufacturers instructions; contractor to make good and ensure proposed / existing surface finishes are to a high standard approved by architect; drylining can be fixed using mechanically to 25 x 50mm Timber battens; refer to Architects specification 10.</u>						
Walls						
A	exceeding 300mm wide	82	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	INSITU FINISHES					
	<u>11mm gypsum gyproc hardcoat or equivalent (not plasterboard) to be applied to both sides of internal walls, lightly scratched prior to 2mm gyproc or equivalent Skim coat finish; products to be used in strict accordance with the manufacturers instructions; contractor to allow for all internal walls to be constructed to underside of roof / floor slab and sealed with rockwool linear fire stopping or equivalent / fireproofing sealant where fire rating is required; refer to F.S.C drawings and report attached in Architects appendix documents; Note: where radiator recesses are provided, contractor to provide 215mm structural support over 100mm backing blockwork to Engineers specification; radiator recesses to be co-ordinated in conjunction with galileo M&E drawings and specification with 150mm clear width provided to perimeter.</u>					
	Walls					
A	exceeding 300mm wide	504	m2			
B	not exceeding 300mm wide	4	m2			
C	not exceeding 300mm wide (existing building)	6	m2			
	<u>Stainless steel accessories; fixing with plaster dabs or staples to blockwork/concrete backgrounds; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
D	like items; stop bead; "Expamet Ref 542" or equivalent	41	m			
E	like items; angle bead; "Expamet Ref 545" or equivalent	91	m			
	TILE SLAB AND MOSAIC FINISHES					
	<u>Supply and fit altro whiterock satins or equivalent hygienic wall cladding; contractor to supply & fit altro whiterock satins or equivalent hygienic wall cladding splashback above all proposed wash hand basins (300mm High) kitchenettes where base unit only is provided a 300mm splashback to be included, including associated product trims; product colour TBC by Architect prior to installation; to be installed as per manufactures instructions.</u>					
	Walls					
F	exceeding 300mm wide	1	m2			
					To Collection €	

BQ/323

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/321 Page No. BQ/322 Page No. BQ/323 (42) WALL FINISHES INTERNALLY Carried to Summary					
BQ/324					

BQ/325

	Description	Qty	Unit	Rate	€	c
	REINFORCEMENT					
	<u>A193 anti-crack mesh to top with 25mm cover; ; no allowance in measurement for laps; as per Engineers drawings and specification</u>					
	Fabric					
A	horizontal; screed	199	m2			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Contractor to allow for Architect approved IAB & BBA certified tanking system to be applied to floor & wall surfaces prior to altro satins splashback in proposed shower room wet room; walls to be tanked to a height of 100mm up-stand provided generally; shower wet areas to be tanked to full height and to a width of minimum 300mm beyond enclosure - all to be constructed entirely in accordance with manufacturer's instructions & recommendations and to be carried out by an approved contractor; allow for appropriate system trims in all showers.</u>					
	Floors					
B	exceeding 300mm wide	34	m2			
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated.</u>					
	First fixings					
C	45 x 22mm treated continuous softwood grounds; fixed to blockwork / concrete	161	m			
	BOARDING AND SECOND FIXINGS					
	<u>19mm red deal; skirtings 150mm high; all fixings shall be recessed with pre drilled, filled and sanded prior to decoration.</u>					
	Second Fixing					
D	150 x 19mm thick	161	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>FLOOR, WALL AND CEILING FINISHES</u>					
	IN SITU FINISHES					
	<u>ARDEX NA or equivalent liquid levelling compound to be applied along with a suitable liquid DPM to floor surface before laying floor finish.</u>					
	Levelling compound					
A	exceeding 300mm wide	197	m2			
	FLEXIBLE SHEET FINISHES					
	<u>Forbo - Sphera Energetic PUR colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
B	exceeding 300mm wide; horizontal	163	m2			
	<u>Forbo - Surestep PUR colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
C	exceeding 300mm wide; horizontal	33	m2			
	<u>Forbo - Safe Step colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
D	exceeding 300mm wide; horizontal	15	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Quantum Profile Systems reference QCF35 - 35mm radius tapered to architraves; securely bond to base and background using contact adhesive; accurately mitre at corners; capping strip: quantum profile systems UCS2 PVC capping strip; where wall finish is ceramic tiles use quantum profiles QCT1; securely bond to background using contact adhesive, with top edge straight and parallel with floor; turn flooring material up wall, securely bond to cove former and background using adhesive specified for fixing to base, and ease top of material into edge trim; accurately mitre at corners; all joints to be hot welded in accordance with the manufacturer</u> Cove Skirtings					
A	girth less than or equal to 150mm	26	m			
	<u>Pro Clima Tescon Profil adhesive tape or equal & approved to create an airtight perimeter seal; surfaces to be carefully dusted down for removal of dust & debris prior to application; install membranes with sufficient slack at perimeter to facilitate movement within the building structure; all in accordance with Architect's specification and drawings</u> Sundries					
B	airtight seal	187	m			
	<u>Dividing Strips; between floor finishes</u> Sundries					
C	dividing strip	12	m			
	FITTED CARPETING <u>Esplanade 6000 or equivalent Matting - 12mm Closed Construction with Boulevard 6000 Wipers as indicated on architect's drawings.</u> Entrance mats					
D	1515 x 800mm wide	1	nr			
	<u>Matwell frame; 30 x 30 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u> Framing					
E	30 x 30 x 4mm thick	5	m			
To Collection €						

BQ/329

BQ/330

Description	Qty	Unit	Rate	€	c
<u>(44) STAIRS, RAMPS FINISHES</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
Information generally					
1. The work measured hereunder refers to the floor finishes associated with the new extension and within existing buildings. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
2. The Contractor should allow in the rates quoted hereunder, for any additional floor levelling compound & sanding that may be required to achieve a satisfactory background for the finishes as detailed within the new build.		Note			
3. The Contractor should allow in the rates quoted hereunder, for any dpm that may be required to achieve a satisfactory moisture content for the laying of finishes as detailed.		Note			
4. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
5. The Contractor should allow in the rates quoted hereunder, for any dpm that may be required to achieve a satisfactory moisture content for the laying of finishes as detailed.		Note			
				<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	STRUCTURAL AND FIRST FIXINGS					
	<u>Softwood to BS 1186; white deal; pressure impregnated with an approved preservative; sawn unless otherwise stated.</u>					
	First fixings					
A	45 x 22mm treated continuous softwood grounds; fixed to blockwork / concrete	19	m			
	BOARDING AND SECOND FIXINGS					
	<u>19mm red deal; skirtings 150mm high; all fixings shall be recessed with pre drilled, filled and sanded prior to decoration.</u>					
	Second Fixing					
B	150 x 19mm thick	19	m			
	<u>FLOOR, WALL AND CEILING FINISHINGS</u>					
	IN SITU FINISHES					
	<u>ARDEX NA or equivalent liquid levelling compound to be applied along with a suitable liquid DPM to floor surface before laying floor finish.</u>					
	Levelling compound					
C	exceeding 300mm wide	13	m2			
	FLEXIBLE SHEET FINISHES					
	<u>Forbo - Sphera Energetic PUR colours TBC; all materials for welding must be overlapped and grooved; laid by a specialist firm in accordance with BS 8203:2001 and the manufacturers recommendations and with an approved adhesive; including necessary preparation works; all in accordance with Architects Drawings and Specification</u>					
	Floors					
D	exceeding 300mm wide; horizontal	13	m2			
					To Collection €	

Description		Qty	Unit	Rate	€	c
FITTED CARPETING						
<u>Esplanade 6000 or equivalent matting - 12mm closed construction with boulevard 6000 wipers as indicated on architect's drawings.</u>						
Entrance mats						
A	1515 x 800mm wide	1	nr			
<u>Matwell frame; 30 x 30 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u>						
Framing						
B	30 x 30 x 4mm thick	4	m			
<u>Forming or leaving sinkings in concrete for door mats including all cutting and all leveling screeds required</u>						
Sundries						
C	1515 x 800mm wide	1	nr			
<u>PAINTING AND DECORATING</u>						
PAINTING						
<u>1nr coat fleetwood or equivalent water based satinwood undercoat; 2nr coats fleetwood or equivalent water based satinwood; all joints, nail/screw heads to be filled, fully sanded and cleaned down.</u>						
Second Fixing						
D	not exceeding 300mm girth	19	m			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/331 Page No. BQ/332 Page No. BQ/333 (44) STAIRS, RAMPS FINISHES Carried to Summary					
BQ/334					

BQ/335

	Description	Qty	Unit	Rate	€	c
<u>FLOOR, WALL AND CEILING FINISHES</u>						
SUSPENDED CEILINGS						
<u>Metal Stud Partition system type CasoLine MF or equivalent standard non fire rated system to all lobbies and the Office; Product Substantiation Report (PSR) reference C100016 (Attached in Appendix); Refer to Architects specification (section 19) for performance characteristics, framing components, plasterboard components and finishes</u>						
Ceilings						
A	suspended ceiling system; ceiling depth not exceeding 150mm	77	m2			
<u>Extra over</u> for						
B	Moisture board Ceilings to be provided in all wet room areas, to be installed as per manufactures installation and guidelines	32	m2			
Accessories						
C	Gyproc Sealant applied around perimeter of ceiling	96	m			
D	Airtightness Barrier	96	m			
<u>Metal Stud Partition system type CasoLine MF or equivalent standard 30 fire rated system to the class store rooms; GypCeiling MF suspended ceiling framework comprising Gypframe MF7 at 600mm centres and Gypframe MF5 at 400mm centres fixed to structure and lined with four layers of Gyproc FireLine 15mm with 150mm stone mineral wool roll (22kg/m3) laid over Gypframe MF5 Ceiling sections; Refer to Architects specification (section 19) for performance characteristics, framing components, plasterboard components and finishes</u>						
Ceilings						
E	suspended ceiling system; ceiling depth not exceeding 150mm	11	m2			
Accessories						
F	Gyproc Sealant applied around perimeter of ceiling	13	m			
G	Airtightness Barrier	13	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Acoustic ceilings shall be installed to the, Classroom Base, Multi Activity Room, 2no SET rooms and the Quiet space to the specification below and indicated on Architects drawing No.T107; Refer to Architects specification (section 19) for performance characteristics, framing components, plasterboard components and finishes</u> Ceilings					
A	suspended ceiling system; ceiling depth not exceeding 150mm	112	m2			
B	suspended ceiling system; vertical; TO FARKO type Z roof lights	6	m2			
	Accessories					
C	Gyproc Sealant applied around perimeter of ceiling	73	m			
D	Airtightness Barrier	73	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Fleetwood premium acrylic matt emulsion brilliant white or equivalent; fleetwood or equivalent primer sealer undercoat as recommended by manufacturer, 1no. coat; fleetwood premium acrylic matt emulsion brilliant white or equivalent; 2no.coats; refer to Architects specification 27.3.2.</u> Ceilings					
E	exceeding 300mm wide	164	m2			
F	exceeding 300mm wide; vertical	6	m2			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/335 Page No. BQ/336 Page No. BQ/337 (45) CEILING FINISHES Carried to Summary					
BQ/338					

Description		Qty	Unit	Rate	€	c
<u>(47) ROOF FINISHES</u>						
<u>NOTES</u>						
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM.			Note			
2. The work measured hereunder refers to the external wall scope associated with the new extension. These works will largely be carried out adjacent to a live environment and all necessary precautions should be taken to ensure the safety of the adjacent building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>ROOFING CLADDING AND WATERPROOFING</u>						
SLATE AND TILE COVERINGS						
<u>Monier Redland Cambrian Slate grey or equivalent 600 x 300mm to proposed pitched roof; including battens, counter battens, tyvek supro plus or equivalent membrane etc.; all in accordance with Architects Drawings and Specification</u>						
Coverings						
A	slope not exceeding 45 degrees; exceeding 300mm	154	m2			
B	slope not exceeding 45 degrees; exceeding 300mm (re slate existing roof)	301	m2			
Eaves						
C	double eaves course; proprietary UV resistant eaves carrier	20	m			
D	Glidevale FV250 fascia ventilator; flush eaves ventilator fitted to gutter edge of pitched roof; sarking nailed to softwood rafters and dressed down into gutters	87	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	insect mesh fixed to batten at eaves	53	m			
	Ridges					
B	half round / universal angle ridges, 450mm; mortar pointed using 3:1 sand cement mix with pigment	26	m			
	Valleys					
C	Code 5 Lead flashing to be lapped over closure flashing and dressed in to blockwork, refer to Architects drawings for further detail; Tapcon fixing or equivalent with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres to be used to firmly fix verge flashing to the proposed blockwork wall	20	m			
	RIGID SHEET COVERINGS AND DECKING					
	<u>Fascia and soffit to be skyline product supplied by alumasc or equivalent; powder coated aluminium interlocking soffit and fascia systems; soffit to be Profile S0F0 and fascia to be Profile SF4; RAL colour to be agreed; including necessary backing boards, fixings etc.; all in accordance with Architects Drawings and Specification</u>					
	Fascia					
D	girth 150-300mm	78	m			
	Soffit					
E	girth 150-300mm	78	m			
	FLEXIBLE SHEET METAL COVERINGS					
	<u>Milled lead; BS 1178; code 5; 150mm lapped joints; fixing with lead tacks and wedges; treated with two coats of patination oil</u>					
	Flashings					
F	150 - 300mm girth; bends -3	19	m			
G	300 - 450mm girth; bends -3	67	m			
	<u>Extra over</u> for					
H	cutting chase into existing wall; bedding and pointing in gauged mortar	39	m			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>WOODWORK</u>					
	IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>200mm mineral wool / earthwool or equivalent at 0.044W/mk packed between ceiling joists and 200mm mineral wool / earthwool or equivalent at 0.044W/mk laid across perpendicular to joists; all in accordance with Architects Drawings and Specification</u>					
	Insulation					
A	thermal; 400mm thick in 2nr x 200mm layers	134	m2			
	<u>DRAINAGE</u>					
	DISPOSAL ABOVE GROUND					
	<u>Alumasc Aqualine or equivalent Powder Coated Extruded Aluminium gutter & downpipe system to be included throughout, Refer to Architects appendix for product information; refer to Architects specification for further details</u>					
	Gutters					
B	Alumasc Aqualine or equivalent aluminium rainwater system; half round deep run; 110 x 85mm	11	m			
	Pipework					
C	downpipes	15	m			
D	shoes	5	nr			
E	swan necks	5	nr			
F	outlets	5	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/339 Page No. BQ/340 Page No. BQ/341 (47) ROOF FINISHES Carried to Summary					
BQ/342					

BQ/343

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/343 **BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)** Carried to Summary					
BQ/344					

BQ/345

Description	Qty	Unit	Rate	€	c
TERMINAL EQUIPMENT AND FITTINGS					
<u>Pressurisation unit; as per Service Engineers Schedules</u>					
A The contractor shall allow for the supply and installation of a new pressurisation unit in the boilerhouse for the new boilers and heating system. The new pressurisation unit shall be as follows; 2 Grundfos PHT AT180 or equivalent with a 15m static head and a maximum working pressure of 20m. The pressurisation unit shall be as follows; twin pressurisation unit; the pressurisation unit must be capable of serving both sides of the plate heat exchanger; 17.5 litre break tank; MODBUS communication output; security coded user interface; low water sensor and high water sensor; durable powder coated enclosure; long life, gun metal pump casings; WRAS approved components; pressurisation unit shall be a fully packaged two pump automatic pressurisation unit; pressurisation units shall be suitable for an electricity supply of 230V/1Ph/50Hz; the unit must be capable of maintaining the required cold fill pressure in the heating water system; the cold fill pressure must be controlled by means of a pressure regulating valve or a system pressure switch, as indicated; the pressure regulating valve must be adjustable to maintain the required system pressure. The unit must have duplicate pumps; units shall have a 12 month warranty; pressurisation units shall be provided with volt free contacts to monitor high low level cut-outs to suit BMS/MCC control requirements. The maximum operation conditions of the unit shall be as follows; maximum system temperature 85 degrees celsius; ambient temperature up to 40 degrees celsius; relative humidity 95% on-condensing	1	Item			
To Collection €					

Description		Qty	Unit	Rate	€	c
<u>Circulating Pumps; as per Service Engineers Schedules</u>						
A	The contractor shall allow for the supply, installation, fitting and commissioning of the following pumps in the boilerhouse; 2 Grundfos Magna 3D 32/120f twin head or equivalent, 40mm diameter, 230-1-50 electric supply; 3 Grundfos Magna3D 32/120F twin head or equivalent, 32mm dia, 230-1-50 electricity supply. Pumps shall fulfil the following criteria; all circulating pumps for heating zones shall be provided with built in pressure controlled variable speed drives. Variable speed pumps to have built in controls to maintain constant pressure drop; all pumps shall be "A" rated and the motors shall be "IE2" energy efficiency class based on IEC standard; all pump mounted inverter drive shall be suitable for BMS/MCC connection; graphical pump display with rotatable display horizontal and vertical module mounting, for display of operating status, control mode, rotation speed setpoint and fault/ warning signals; housing made of cast iron with cataphoretic coating, impeller made of glass-fiber reinforced plastic, stainless steel shaft with metal impregnated carbon plain bearings; Pumps must be installed in accordance with the manufacturer's recommendations and must comply with the requirements of IS/ EN 60335-2-n51, BS 4082:1969 and BS 5257:1975 as applicable; pumps must be "type" tested in accordance with IS EN ISO 9906:2012 and BS EN 5198:1999. Pump curves must be submitted to indicate performance under all likely operating conditions; flexible connections must be provided on the suction and discharge side of all pumps with end connections over 50mm and elsewhere as indicated. Each pump must be installed with isolating valves on the inlet and outlet connections; provide test certs for all pumps. Nameplates shall be installed on the pumps to show test and working pressure of each pump.	1	Item			
<u>Condensate neutraliser; as per Service Engineers Schedules</u>						
B	The contractor shall allow for installing a condensate neutraliser on the main condensate pipe from the boilers and the flues before it exits into drain outside the boilerhouse as indicated on the drawings. This neutraliser shall safely neutralise acid waste from the items in question so that the condensate can be safely discharged to the drain. The condensate neutraliser shall increase the PH level of the condensate captured from the boilers/water heater to a valve of between 6.5 and 9. Once treated in this way, the condensate can be disposed off through the normal municipal drain/ sewer network. The condensate neutraliser shall be fitting in line with the condensate discharge pipe.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Connection kit with pump; as per Service Engineers Schedules</u>						
A	For each of the 3 boilers, the contractor shall include for a connection kit to be supplied with each boiler to connect to the pre-assembled cascade header arrangement, The boiler connection kit service shut-off valves in the flow, return and gas pipes and also include pipes between boiler and main pipes. Each kit shall comprise of the following; flow connection consisting of a pipe connection with isolation valve to the boiler and pre-assembled cascade header arrangement; return connection consisting of a pipe connection with isolation valve to the boiler and pre-assembled cascade header arrangement, speed-controlled high efficiency circulation pump, overflow, non-return valve, expansion vessel connection and drain cock; gas connection consisting of a pipe connection with isolation valve to the boiler and pre-assembled cascade header arrangement; extension module AGU2.551 for 0-10V control of a modulating pump and/or boiler capacity feedback to the building management system; thermal insulation on each connection set	1	Item			
<u>Frames; as per Service Engineers Schedules</u>						
B	The 2 boilers and cascade header arrangement shall be installed on a wall mounted or free-standing frame. The frames shall consist of a combination of I-poles with an intermediate frame. One intermediate frame is needed per boiler. The top of the frame can be used as a cableway	1	Item			
PIPEWORK FITTINGS AND ANCILLARIES						
<u>Connecting the existing mains pipework to the new pressurisation unit; as per Service Engineers Schedules</u>						
C	There is an existing 28mm mains water services pipework in the boiler house and contractor shall allow for taking a 22mm mains water connection of this existing mains water pipework in the boilerhouse and extending this to connect to the new pressurisation unit. All existing mains water service pipework in the boilerhouse is copper and all new water services pipework to be installed in the boilerhouse shall be copper	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Expansion Vessels (Primary) ;as per Service Engineers Schedules</u>					
A	A new expansion vessel shall be installed in the boilerhouse for the primary side of the heating system and shall be installed on the primary side of the heat exchanger. The contractor shall supply and install the following expansion vessel for the heating system; GT-HR-50 PN6 R3/V or equivalent with a volume of 50 litres, 22mm connection and a 10 bar maximum working pressure. Each vessel shall have the following features; each vessel comprises a high strength carbon steel shell; each vessel shall have a non-replaceable SBR rubber diaphragm and liquid compartment with a polypropylene liner; each vessel fitted according to DIN EN 13831. Approval according to Pressure Equipment Directive 2014/68/EC; dimensions of each vessel is 740mm diameter by 1102mm high; weight when empty 60kg; durable epoxy resin coating; non-replaceable diaphragm according to DIN EN 13831; for antifreeze additive of at least 25-50%; with threaded connections; max. permissible system temperature 120 degrees celsius; max working pressure 6bar; max operating temperature 70 degrees celsius; CE compliant and WRAS approved.	1	Item			
	<u>Expansion Vessels (Secondary) ;as per Service Engineers Schedules</u>					
B	Two new expansion vessels shall be installed in the boilerhouse for the secondary side of the heating system and shall be installed on the secondary side of the heat exchanger. The contractor shall supply and install the following expansion vessels for the secondary side of the heating system; 1 GT-HR-100 PN6 R1V or equivalent with a 100 litre volume, 22mm connection and 10 bar maximum working pressure. Each vessel shall have the following features; each vessel comprises a high strength carbon steel shell; each vessel shall have a non-replaceable SBR rubber diaphragm and liquid compartment with a polypropylene liner; each vessel fitted according to DIN EN 13831. Approval according to Pressure Equipment Directive 2014/68/EC; dimensions of each vessel is 740mm diameter by 1102mm high; weight when empty 60kg; durable epoxy resin coating; non-replaceable diaphragm according to DIN EN 13831; for antifreeze additive of at least 25-50%; with threaded connections; max. permissible system temperature 120 degrees celsius; max working pressure 6bar; max operating temperature 70 degrees celsius; CE compliant and WRAS approved.	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Flues; as per Service Engineers Schedules</u>						
A	The contractor shall allow for a new flue from each new gas boiler to exit the building vertically through the existing roof of the boilerhouse as indicated on the drawings. A flue from each boiler shall be brought out independently from each boiler vertically through the existing flat roof of the boilerhouse. It is the responsibility of the installer to install the flues and flucades to comply with the current regulations and standards. The flue for each boiler shall be supplied by the boiler supplier and shall be compatible with the proposed boiler. All flue terminals and CLV kits shall be supplied with a condensate drain/siphon, that must be connected within one metre of the boiler flue connection. Make sure that any flue gas outlet pipe towards the boiler has a sufficient gradient and that there is a sufficient condensate collector. Flue components are constructed from a white painted metal outer and plastic inner. Plume kit external components are aluminium or plastic and are painted black. All flue components shall be CE approved. A new plastic concentric flue shall be installed for each new gas boiler as indicated on the drawings. The flue kit shall be as KT216, or equivalent. This flue kit includes the following: 1 vertical terminal; 1 universal roof seal pack. The flue from each boiler shall be 100/150mm diameter concentric flue that shall rise from each boiler to exit the building vertically through the existing roof of the boilerhouse to terminate externally. All changes of direction in the flue must be limited to a maximum angle of 45 degrees. Each flue branch shall be fitted with explosion relief doors and shall be fitted with pocket test points to facilitate flue gas analysis testing and temperature reading. Allow for a condensate drain from each flue with a 32mm to a drain outside the boilerhouse	1	Item			
<u>Automatic Air Vents; as per Service Engineers Schedules</u>						
B	Fit automatic air vents at all high points on all heating pipes at high level in the boilerhouse as indicated on the drawings. Fit automatic air vents on the highest point of the flow and return pipework in the boilerhouse as indicated on the drawings. The contractor shall ensure that pipes are laid with the correct gradient to eliminate air locks and to allow for adequate venting. Automatic air-vent shall be Honeywell Vent EA122 or equivalent	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Circuit Valves; as per Service Engineers Schedules</u>						
A	Fit control valves on flow return LPHW pipework to allow isolation of the heating flow and return pipework. Valves shall be full-way pattern with gland surfacing boxes complete with iron hand wheels screwed or flanged as necessary with cast iron bodies, gunmetal wearing parts and bronze seatings. Valves shall be crane D151 isolation valves for gate valves or Crane F611 for butterfly valves, or equivalent.	1	Item			
<u>Regulating Valves; as per Service Engineers Schedules</u>						
B	The contractor shall allow for the supply and installation of flow measuring/ double regulating valves on all pipework circuits as indicated on the drawings	1	Item			
<u>Commissioning Valves; as per Service Engineers Schedules</u>						
C	The contractor shall include for the supply and installation of fixed orifice double regulating valve commissioning sets on the heating circuits in the boilerhouse as indicated on the schematic. The number and size of valves shall be as indicated on the drawings and where required for satisfactory commissioning, operation and maintenance. Valves shall not be mounted with the test plugs pointing in a downward direction; otherwise they may act as dirt pockets. Measuring devices must provide flow measurement accuracy to within +/- 5 % under design service conditions and must be suitable for the application such that the differential pressure produced is consistent with achieving measurement accuracy. Valves shall be as Crane D931 fixed orifice double regulating valves, or equivalent. Fixed orifice double regulating valves shall be as Crane D931/D933.D934 and shall adhere to the following; fixed orifice performance; hand wheel and pressure tappings orientated for maximum convenience. Insertion test points for quick connection. PN25 pressure rating. Adaptor kit use with copper tube	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Strainers; as per Service Engineers Schedules</u>					
A	Strainers must be installed to protect the heating circuits and heating equipment in the boilerhouse as indicated. Strainers shall be cast iron or bronze body, self cleaning "Y" pattern full size, of connecting pipe, designed for 10 bars of sater services and heating. Strainer shall be 1/16" perforated SS on water services and 1/32" perforated SS on heating. Strainers 50mm and smaller shall be screwed; strainers larger than 50mm shall be flanged, with blow-down cocks. Strainers must be suitable for the pressures and service of the piping system in which they are to be installed. Strainer bodies for line sizes up to 50mm must be of bronze to IS EN 1982:1999. Strainer pressure ratings must be at least 150% of maximum service pressure in the application. Size of strainers shall match the pipe size of the circuit where the strainer is to be installed. Strainers shall be as Crane D297, Crane FM276 or equivalent	1	Item			
	<u>Non-return valves; as per Service Engineers Schedules</u>					
B	The contractor shall allow for the supply and installation of the non-return valves on the pipework as indicated on the drawings. The drawing and size of these valves shall be as indicated on the drawings. The non-return valves shall be bronze swing check valve with resilient disc. The valve shall permit flow in one direction only and close automatically if flow reverses. The valve shall be entirely automatic in action, depending upon pressure and velocity of flow within the line to perform their functions of opening and closing. Valves shall be as Crane D140, or equivalent	1	Item			
	<u>Pressure Gauges; as per Service Engineers Schedules</u>					
C	The contractor shall allow for the supply and installation of pressure gauges on pipework as indicated on the drawings. The pressure gauges shall have the following features; 100mm face diameter; 0 to 6 bar range; bottom entry; bourdon tube copper alloy; black steel case; acrylic window; chrome plated bezel; 3/82 BSP bottom entry male connection; direct mounting; dual scale bar and psi; accuracy class 1.6 to BS EN 837-1:1998	1	Item			
	<u>Temperature Gauges; as per Service Engineers Schedules</u>					
D	The contractor shall allow for the supply and installation of temperature gauges on the pipework as indicated on he drawings. The temperature gauges shall have the following features: 100mm face diameter; 0 to 120 degree celsius range; bottom entry; black steel case; acrylic window; chrome plated bezel; 50mm immersion length c/w BSP 1/2" pocket; pocket for 100mm dial - push fit; dual scale C* and F*	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Systematic Valve Charts; as per Service Engineers Schedules</u>						
A	All valves supplied and fitted by the contractor in the plantroom/boilerhouse, excluding radiator valves, shall be fitted with circular plastic labes with black lettering on a white background, which shall be fixed between the wheel and the nut securing the wheel to the valve spindle. Each valve shall be numbered in accordance with a corresponding valve chart schedule. the valve chart shall indicate clearly the function of each valve so numbered. A valve chart shall be completed for the boilerhouse and which shall be laminated and diplayed in a suitable location within the boilerhouse.	1	Item			
<u>Dosing Pot; as per Service Engineers Schedules</u>						
B	The mechanical contractor shall allow for the supply and installation of a 6 litre dosing pot on the heating services pipework in the boilerhouse as indicated on the drawings. The dosing pot shall adhere to the following specifications; 6 litre capacity; mild steel welded construction; exterior finishings, epoxy powder coating-red RAL 3002; supplied fully assembled; the unit shall be complete with a tundish, vessel, airvent, inlet, outlet and drain valves; vessel with inlet (return) and outlet (flow) valves; valve size 25mm BSP female; welded to BS EN 287; drain valve; filling valve; tundish; air release valve; wall mounting brackets; max operating pressure is 16 bar; min operating pressure is 0.5 bar; max operating temperature is 82 degrees celsius; min operating temperature is 1 degree celsius; designed to PD 5500:2009 category 3; CE marked; dimensions of unit is 670mm high by 225mm wide by 225mm diameter	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Plate heat exchanger; as per Service Engineers Schedules</u>					
A	The contractor shall allow for the supply and installation of a stainless steel plate exchanger on the heating system in the boilerhouse to hydraulically separate the primary heating side from the existing secondary heating side. The plate heat exchanger shall be as follows; cipriani SE#0300+067M95PNPV0AA11 or equivalent. Supplier to confirm exact size of heat exchanger required; plate exchanger shall be suitable to supply 120kW at 80 degree/ 60 degree temperatures; gasket type stainless steel; plate material must be made from AISI 316L with a minimum thickness of 0.4mm; carbon steel; NBR/ glue-free Plug-in design; DN80 connection size; studded ports EN connection type; rubber lining connection material; 1 pass; counter current direction of fluids; primary F&R 80/60 degrees; secondary F&R 75/55 degrees; 101 max number of plates; insulation jacket to be supplied with the unit; frame to be supplied with the unit. Frame shall be in mild steel and shall be epoxy painted; max operating power of 15 bar; max pressure drop of 4.3kPa; flow rate of 5.22 litres/ sec; WRAS,ACS,OHSAS 18001; 1124mm high by 933mm long by 509mm wide; 354/405 kg	1	Item			
	<u>Distribution system; including valves, tees and bends</u>					
B	LPHW pipework system (Low Pressure Hot Water) to Boiler House; pipework material as specified; screwed joints in running length; including supports, fittings, accessories, isolating valves, check valves, strainers, gauges, sleeves, decorative plates, expansion loops, anchors and guides; all in accordance with Services Engineers Drawings and Specifications	1	item			
C	LPHW pipework system (Low Pressure Hot Water); pipework material as specified; screwed joints in running length; including supports, fittings, accessories, isolating valves, check valves, strainers, gauges, sleeves, decorative plates, expansion loops, anchors and guides; all in accordance with Services Engineers Drawings and Specifications	1	Item			
D	Include here for any other valves/fixings not expressly listed above but required to complete the works	1	item			
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
E	pipework; generally	1	item			
					To Collection €	

BQ/355

BQ/356

Description		Qty	Unit	Rate	€	c
<u>(52) DRAINAGE AND REFUSE DISPOSAL</u>						
<u>MECHANICAL INSTALLATIONS</u>						
GENERAL						
<u>Supply, install and commission of Internal Drainage systems in accordance with the General & Particular Mechanical Specification</u>						
A	A system of uPVC soils and waste pipework shall be provided for under this contract for the new ASD unit extension building by the mechanical contractor as indicated on the drawings, for the removal of water-borne soil and waste matter from all sanitary fitments and sinks. This contract includes for soils and waste above the ground floor slab only, up to and including connection to the drain provided by others at ground level. All underground drainage by others.	1	item			
PRIMARY EQUIPMENT						
<u>Connection to Equipment and Sanitaryware</u>						
B	The Mechanical Contractor shall be responsible for the installation and connections of all sanitary fitments, WC's, WHB's, sinks, etc., as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
C	The Mechanical Contractor shall allow for connecting the new uPVC soils and wastes pipework for the new sanitary fitments, kitchen equipment, sinks, etc. to the waste pop-ups in the building as indicated on the drawing; all in accordance with Services Engineers Drawings and Specifications	1	Item			
D	The Mechanical Contractor shall allow for all final uPVC waste connections to all WHB's, sinks, WC's, etc. as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
PIPEWORK FITTINGS AND ANCILLARIES						
<u>The mechanical contractor shall also be responsible for the supply and installation of a stainless steel floor gully in the boilerhouse as indicated on the drawing. The floor gully shall be manufactured from 316L stainless steel and shall be supplied complete with heel guards and foul air traps and connected to the local waste system. Gully positions to be agreed before installation commences. Refer to the drawings for locations and quantities of floor gullies required. Floor gully shall be supplied by Kent Stainless, Richmond Trading or equivalent. The floor gully to be installed for the boilerhouse shall be as KVT170/110TPSQ with foul air trap KFT110, grade 316 Stainless steel with Square Perforated Cover Plate. The gully shall be suitable for installation in a concrete finished floor.</u>						
A	150mm x 150mm floor gully. Floor gully shall be connected to new 110mm diameter builders work floor socket. Builders waste floor socket shall be installed by the main contractor <u>New soil vent pipes shall be installed by the mechanical contractor as indicated on the drawings for the venting of the water pipework in the building. Soil vent pipes shall rise vertically through the building to terminate above roof level in locations indicated on the drawings. These vent pipes shall be fitted under this contract. Final location to be agreed with the Employer's Representative. All soil vent pipes shall be complete with weathering sleeve and vermin guard.</u>	1	Nr			
B	New 110mm diameter waste floor socket for soil vent pipe (SVP). Builders waste floor socket shall be installed by the main contractor. SVP shall rise to the roof level and extend 1000mm above sea level. Allow for a pipework rise of approximately 4000mm from ground level to roof level.	2	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>The mechanical contractor shall be responsible for the supply and installation of all fire collars for the soils and wastes pipework. Waste pipes shall pop through the floor slab and fire walls in parts of the building as indicated on the drawings. Where these pipes pass through any fire compartment, intumescent fire collars shall be installed on the uPVC pipe and fixed to the floor. Fire collars shall be installed on any plastic waste pipework over or equal to 50mm. These collars shall seal the uPVC pipe in the event of a fire. Where soils and wastes pipework passes through fire compartment walls, intumescent fire collars shall be installed on the uPVC pipe and fixed to the wall. Fire collars shall adhere to the following specifications; have a mild galvanised casing; 2-hour fire rating metal shell produced in two hinged halves and lined with intumescent material. ; surface mounted; lightweight and easy to install; design allows for thermal movement of the pipe; fixing brackets mechanically attached to the collar housing; CE rated; tested to BS476 Part 20 & EN 1366-3; CE marked; suitable for PVC, PVC-U, PE, MDPE & PP pipes. Fire collars shall be installed in accordance with manufacturer's instruction.</u>					
A Fire collar installed on waste pipework passing through fire compartment floor or wall.	3	Nr			
<u>The mechanical contractor shall be responsible for the installation and connections of all sanitary fittings, WC's, WHB's, sinks, etc., in the toilet areas and boilerhouse as indicated on the drawings. All these items shall be supplied free issue by others to the mechanical contractor for fitting. The mechanical contractor shall allow for connecting the new uPVC soils and wastes pipework for the new sanitary fittings, kitchen equipment, sinks, etc. to the waste pop-ups in the building as indicated on the drawing. The mechanical contractor shall allow for all final uPVC waste connections to all WHB's, Sinks, WC's etc. as indicated on the drawings. All sanitary ware shall be supplied free issue to the mechanical contractor by the main contractor.</u>					
B New 110mm diameter waste pop-up. Contractor shall allow for connecting the 110mm diameter waste pipework from the WC to the 110mm diameter pop-up. Builders waste socket in floor shall be completed by main contractor.	4	Nr			
C New 50mm diameter waste pop-up. Contractor shall allow for connecting the 32mm diameter waste pipework from the WHB to the 50mm diameter pop-up. Builders waste socket in floor shall be completed by main contractor	4	Nr			
To Collection €					

	Description	Qty	Unit	Rate	€	c
A	New 50 mm diameter waste pop-up. Contractor shall allow for connecting the 40mm diameter waste pipework from the sink to the 50mm diameter pop-up. Builders waste socket in floor shall be completed by main contractor	3	Nr			
B	150mm x 150mm floor gulley. Floor gulley shall be connected to new 110mm diameter builders work floor socket. Builders waste floor socket shall be installed by the main contractor	1	Nr			
C	New 110mm diameter waste floor socket for soil vent pipe (SVP). Builders waste floor socket shall be installed by the main contractor. SVP shall rise to the roof level and extend 1000mm above sea level. Allow for a pipework rise of approximately 4000mm from ground level to roof level.	2	Nr			
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
D	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
E	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
F	Flush out of new pipework	1	Item			
G	Pressure testing of new pipework	1	Item			
H	Sterilisation	1	Item			
J	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
	<u>Commissioning and system validation</u>					
K	Testing and commissioning as detailed in Engineer's specification	1	Item			
L	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
M	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
					To Collection €	

BQ/361

BQ/362

Description		Qty	Unit	Rate	€	c
<u>(53) WATER DISTRIBUTION</u>						
<u>MECHANICAL INSTALLATIONS</u>						
GENERAL						
<u>Supply, install and commission of Water Services Systems in accordance with the General & Particular Mechanical Specification.</u>						
A	Allow for the connecting the new mains water services pipework for the new areas to the existing mains water services pipework in the existing boilerhouse and for all attendances and material in doing so. The material of the incoming pipe is "Class C uPVC pipework and the material of the internal mains water pipework is multi-layer composite plastic pipework.	1	item			
B	supply, install, commission and test of mains water system; must comply fully with the Services Engineers Drawings and Specifications	1	item			
PRIMARY EQUIPMENT						
<u>Connection to Equipment and Sanitaryware</u>						
C	The Mechanical Contractor shall be responsible for the installation and connections of all sanitary fitments, kitchen equipment, sinks etc. as indicated on the drawings; all in accordance with Services Engineers Drawings and Specifications	1	Item			
D	The Mechanical Contractor shall allow for connecting the new water services pipework to all the new sanitary fitments, kitchen equipment, sinks etc. in the building as indicated on the drawing. Refer to the drawings for locations, sizes of pipework, types of pipework, etc.; all in accordance with Services Engineers Drawings and Specifications	1	Item			
E	The Mechanical Contractor shall allow for connecting the new water services pipework to all the new sanitary ware as indicated on the drawing; all in accordance with Services Engineers Drawings and Specifications	1	Item			
<u>1 Indirect hot water calorifier; stainless steel cylinder AISI 316L C/W single fixed coil as Joule 250L Cyclone Air Indirect or equal approved; nominal output of 23kW; 5Bar max operating pressure; 250 litres storage capacity; 5400mm by 1785mm high/ The calorifier shall be supplied with the following; electronic anode with impressed current; electronic unit control; electrical resistance attack 1" 1/2 thermostat; thermometer.</u>						
F	Indirect hot water calorifier	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	PIPEWORK					
	<u>All new internal water service pipework for the hot water services supply pipework to be installed in the new extension building shall be installed in light gauge copper to I.S EN 1057:2006 It shall be suitable for bronze welding. Tubes shall be uniform thickness, smooth, clean and free from internal and external defects. All ends shall cut clean square with the tube axis. All hot water service supply pipework shall be installed in copper. Copper tube for all internal hot water services supply pipework shall be as follows; Irish copper tube; CE marked; compliant with BS EN 1057. Where possible, all the main runs of the hot water services supply pipework shall be installed above ceiling in the ceiling void and as a result, shall be insulated. All hot water services supply pipework shall be sleeved as the pass through floor slabs and internal blockwork walls.</u>					
A	15mm HWSF copper at H/L in ceiling void	14	m			
B	28mm HWSF copper at H/L in ceiling void	20	m			
C	42mm HWSF copper at H/L in ceiling void	14	m			
	<u>All new internal water services pipework for the hot water services return pipework to be installed in the building shall be installed in light gauge copper to IS EN 1057:2006. It shall be suitable for bronze welding. Tubes shall be to uniform thickness, smooth, clean and free from internal and external defects. All ends shall be cut clean square with tube axis. All hot water services return pipework shall be installed in copper. Copper tube for all internal hot water services return pipework shall be as follows; Irish copper tube; CE marked; compliant with BS EN 1057. Where possible, all the main runs of the hoy water services return pipework shall be installed above the ceiling in the ceiling void as a result, shall be insulated. All hot water services return pipework shall be sleeved as the pass through floor slabs and internal blockwork walls.</u>					
D	15mm HWSF copper at H/L in ceiling void	13	m			
E	28mm HWSF copper at H/L in ceiling void	20	m			
F	42mm HWSF copper at H/L in ceiling void	14	m			
					To Collection €	

BQ/365

	Description	Qty	Unit	Rate	€	c
	<u>New pipework for the internal mains water services pipework installation in the building shall be installed in multi-layer composite plastic pipework. Multi-layer composite plastic pipework (MCLP) for all internal mains water services shall be as follows; non-crossed linked polyethylene pipe; 100% diffusion-resistant multi-layer composite pipe; five-layer (PE-RT - adhesive agent - continuously overlapped welded aluminium adhesive agent PE-RT)/PE-RT multilayer barrier pipe, with a PE-RT layer on the outside, a PE-RT layer on the inside and an aluminium pipe in between; the PR-RT multilayer barrier pipe shall be manufactured from high density cross-linked polyethylene plastic with an aluminium foil layer on the outside wall of the pipe which in turn is covered with a layer of polyethylene material; WRAS Scheme approved; suitable for drinking water; pipe shall have an oxygen barrier. The aluminium layer on the outside wall of the pipe shall act as an oxygen barrier; the pipe and fittings shall be certified by the Irish Agreement Board (IAB) Conform to BS 7291-1: 2006 and IS EN 1254 Part 3:1998; the PE-RT multilayer barrier pipe shall be manufactured from high density cross-linked polyethylene plastic with an aluminium foil layer on the outside wall of the pipe which in turn is covered with a layer of polyethylene material; the PE-RT pipe shall meet the requirements of Class 1,2,4 and 5 service systems for hot and cold water installations- Cross-linked polyethylene (PE-X). The minimum wall thickness of the pipe shall be 3.0mm; the pipe shall meet the requirements for Class S service conditions specified in Table 1 of BS 7291-2; 25 year warranty. Pipework shall be as Uponor MCLP pipe or equivalent. Include for the necessary tools and equipment in installing the pipework and fittings.</u>					
A	15mm MWS copper at H/L in ceiling void	9	m			
B	22mm MWS copper at H/L in ceiling void	17	m			
C	28mm MWS copper at H/L in ceiling void	14	m			
	PIPEWORK FITTINGS AND ANCILLARIES					
	<u>Main Isolation Valves</u>					
D	Allow for the supply and installation of all the necessary isolation valves on the new cold water services pipework to the water tank and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves or equivalent.	13	Nr			
E	Allow for the supply and installation of all the necessary isolation valves on the new hot water services supply pipework to the water heater and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves, or equivalent.	7	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Allow for the supply and installation of all the necessary isolation valves on the new hot water services return pipework to the water heater and certain areas in the building as indicated on the drawings. Main isolation valves shall be Crane D171 level valves, or equivalent.	7	Nr			
B	Allow for the supply and installation of all the necessary isolation valves on the new mains water services pipework to the water tank and certain areas in the building as indicated on the drawings. Ensure all isolation valves are suitable for the multi-purpose composite plastic pipe and that all valves can be installed in conjunction with this pipe. Allow for all connections, connectors, compression fittings, fittings etc. in installing the isolation valves to the new pipe. All valves shall be lockable and shall be WRAS Approved for use with mains water supply. Main isolation valves shall be Crane D171 level valves or equivalent	5	Nr			
	<u>Local Ballofix Valves</u>					
C	Allow for the supply and local installation of ballofix isolation valves to all cold water supply pipework to the new sanitary ware fittings as indicated on the drawings so that the cold water supply to each sanitary ware fitting can be easily isolated. Ballofix valves are to be installed on all cold water supplies to all new sanitary ware fittings so that they are capable of independent isolation. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3	13	Nr			
D	Allow for the supply and local installation of ballofix isolation valves to all hot water return pipework to the new sanitary ware fittings as indicated on the drawings so that the hot water return to each sanitary ware fitting can be easily isolated. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3	7	Nr			
E	Allow for the supply and local installation of ballofix isolation valves to all hot water supply pipework to the new sanitary ware fittings as indicated on the drawings so that the hot water supply to each sanitary ware fitting can be easily isolated. Ballofix valves are to be installed on all hot water supplies to all new sanitary ware fittings so that they are capable of independent isolation; Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; Compression ends to BS EN 1254-3	7	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Allow for the supply and local installation of ballofix isolation valves to all mains water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the mains water supply to each sanitary ware fitment can be easily isolated. Ballofix valves to the new multi-layer composite pipe. Ballofix valves shall be as follows; chrome plated brass isolation valve; supplied with a simple screwdriver slot operation for isolation; compression ends to BS EN 1254-3 <u>Thermostatic Mixing Valves</u>	5	Nr			
B	Thermostatic mixing valves (TMV's) shall be fitted at all new wash hand basins and sinks throughout the building to prevent scalding as indicated on the drawings. The mechanical contractor shall allow for the supply and installation of all TMV's/ All TMV's shall be located such that a maximum dead leg of 200mm only is achievable on the blended water supply. All TMV's must adhere to the following specifications; must be TMV 3 and WRAS approved; supplied with 1/2" flat faces union connectors terminating in 15mm compression connections; Suitable for a minimum dynamic supply pressure of 0.15 bar; TMV's must give a flow rate of at least 0.1 litres/second at an inlet head of 1.5 meters; limited to a maximum temperature of 43 degrees celsius to prevent scalding; valve body shall be D7R brass and feature a locked temperature shroud with BS EN 1111 and BS EN 1287 and suitable for use with low pressure systems; be suitable for under basin installation; provide safe thermostatic shutdown; be complete with isolation valves, check valves, easily removable strainers and service free cartridges; shall be suitable for low-pressure loss systems; TMV;s must never be connected to the mains water supply. They must only be connected to the hot water distribution services and cold water distribution services; the body shall be DWR brass nickel plated with a white plastic locking shroud. Suitable valves as Rada 215-t3dk or equivalent <u>Distribution system; including valves, tees and bends</u>	7	Nr			
C	15mm CWS to WC. Pipework shall be concealed within the furniture/ ceiling/ wall throughout	4	Nr			
D	15mm CWS, 15mm HSWF & 15mm HSWR to WHB C/W TMV. Pipework shall be concealed within the furniture/ceiling/wall throughout	4	Nr			
E	15mm MWS, 15mm CWS, 15mm HWSF & 15mm HWSR to sink C/W TMV. Pipework shall ne concealed within the furniture/ceiling/ wall throughout	3	Nr			
F	New cold water storage tank installed in the ceiling void of the building. Discuss with structural engineer for supports	2	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Include here for any other valves/fixings not expressly listed above but required to complete the works	1	item			
	INSULATION					
	<u>All service water pipework within unoccupied areas shall be insulated. Allow for the fitting, installation and connection of mains water supply to all the sanitary ware and the water storage tank as indicated on the drawings.</u>					
B	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
C	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
D	Flush out of new pipework	1	Item			
E	Pressure testing of new pipework	1	Item			
F	Sterilisation of cold water tank and the water system	1	Item			
	<u>Commissioning and system validation</u>					
G	Testing and commissioning as detailed in Engineer's specification	1	Item			
H	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
J	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
K	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
L	Working drawings	1	Item			
M	Co-ordination drawings	1	Item			
N	As-built drawings	1	Item			
					To Collection €	

BQ/370

BQ/371

BQ/372

Description		Qty	Unit	Rate	€	c
TERMINAL EQUIPMENT AND FITTINGS						
<u>The contractor shall allow for supplying and installing all new radiators as indicated on the drawings. All new radiators shall be Low-H2O technology radiators. New radiators shall adhere to the following; radiators shall be low surface temperature; outputs of radiators tested and manufactured in accordance with BS EN442 independently by BSRIA; confirms to NHS DN4 which confirms to an average 43 degrees celsius; radiators shall be as manufactured by Merriot or equivalent; surface temperature independently by BRISA/ The casing shall adhere to the following; scratch resistant epoxy polyester powder coat finish in satin white to RAL9016; high UV resistance to ASTM G53; anti-bacterial coating standard on brackets and casing; unit to come with rounder corners to avoid injury; low surface temperatures NHS DN4 compliant at 50?T, maximum flow temperature 80 degrees celsius. Surface temperatures independently tested by BRISA; strong single piece profiled casing in 1.6mm steel with 5mm deep rib detail; easy wipe clean, soft bevelled design to prevent accidental injury; no joints in the casing to gather dirt, dust and potential bacteria; pencil proof bar grilles maximum aperture 7.1mm; integral bottom grille on wall mounted casings to prevent emitter access; security screw locking system to prevent unauthorised access; CE marked to BS EN442 and manufactured under a BS EN ISO 9001:2008 quality system accepted by BSI; 10 year warranty. The emitter shall adhere to the following; low H2O, high output fin coil heat exchanger; low water content from 0.75 litres per metre; non-corrosive 0.2mm aluminium fins & 15mm diameter copper tubes; corrugated aluminium fins to maximise convective surface area; single pipe reverse flow heat exchanger, continuous mass flow for optimum output efficiency; same end connections, reversible heat exchanger can be connected left or right with standard valve, TRV or remote sensor; dual quick-fit bracket system for emitter and casing, supplied with bracket spacing bar; standard connections of 4 x 1/2" with 1/2" blank plug and vent; dirt and dust repellent epoxy polyester powder coat finish in matt graphite grey to RAL7024; working pressure 10Bar, test pressure 13Bar; maximum operating temperature 120 degrees celsius; 30 year warranty; outputs tested in accordance with BS EN442 independently by BSRIA</u>						
A	Maxi WF; MAXW.074.203.230.101/WF type H11; 740mm high by 2030mm long by 230mm depth; output at deltaT30 2733	11	Nr			
B	Maxi WF; MAXW.074.163.230.101/WF type H11; 740mm high by 1830mm long by 230mm depth; output at deltaT30 1765	2	Nr			
C	Maxi WF; MAXW.059.183.130.101/WF type H11; 590mm high by 1830mm long by 130mm depth; output at deltaT30 821	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall install a suitably sized flow and return manifold with all necessary outlets on the manifold for all underflow heating circuits in the building as indicated on the drawings. The manifold shall supply all the circuits via underground F&R pipework so all areas shall be individually connected back to the F&R manifold. The flow and return manifold shall be supplied with a drain valve on the header and all connections to the F&R manifold shall have isolation valves. Underfloor heating manifolds to be constructed from Nickel plated brass with pin operation valve to return manifold with lock shield and set value facility to each heating loop. Isolation valves, union valve and temperature gauges to all manifold connections on both flow and return connection. All manifolds to be fitted with flushing points, valve and cap to both flow and return. Manifolds for the underfloor heating system shall be fitted inside white powdered coated galvanised steel cabinets with flush or surface mounting. Manifold cabinets shall be sized to hold electrical smart box control and EuroFast floor mechanical manifold. Manifolds shall be as Eurotech Eurofast manifolds as supplied by Eurotech Group, or equivalent. The contractor shall allow for restriction valves on the flow pipework to manifolds 1-3 reduce the temperature of the water passing through the pipework. This will ensure that the new concrete floor don't crack.</u>					
A	Flow and Return heating manifold	1	Nr			
	<u>Wall mounted room thermostat (linked to BMS system)</u>					
B	All room stats as indicated that are to be installed in conjunction with the two-port valve to control the heating within the specified rooms shall be digital stats as specified and indicated below	2	Nr			
					To Collection €	

BQ/375

BQ/376

	Description	Qty	Unit	Rate	€	c
	<u>Fit automatic air vents at all high points on all heating pipes at high level in the building as indicated on the drawings. Fit automatic air-vents on the highest point of the flow and return pipework in the building as indicated on the drawings. The contractor shall ensure the pipes are laid with the correct gradient to eliminate air locks and to allow for adequate venting. Automatic air-vent shall be as honeywell Vent EA122, or equivalent. The valve shall have the following features; integral stop valve. Enables seat to be cleaned without draining the system; Vacuum break ensures air collection; 3/8" BSP connections; Expanding disc under cap; 1/8" to 1/2" adaptor</u>					
A	Air Vents	14	Nr			
	<u>The contractor shall allow for the supply and installation of flow measuring/ Double Regulating Valves on all pipework and circuits as indicated on the drawings</u>					
B	Regulating Valves	39	Nr			
	<u>Strainers must be installed to protect the two-port valves or circuits as indicated. Strainers shall be cast iron or bronze body, self cleaning "Y" pattern full size, of connecting pipe, designed for 10 bars of water services and heating. Strainers shall be 1/16" perforated SS on water services and 1/32" perforated SS on heating. Strainers 50mm and smaller shall be screwed; strainers larger than 50mm shall be flanged, with blow-down cocks. Strainers must be suitable for the pressures and service of the piping system in which they are to be installed. Strainer bodies for line sizes up to 50mm must be bronze to IS EN 1982: 1999. Strainer pressure ratings must be at least 150% of maximum service pressure in the application. Strainers shall be as Crane D297, Crane FM276 or equivalent</u>					
C	Strainers	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall include in his price for the supply and installation of fixed orifice double regulating valve commissioning sets on the heating circuits to each 2-port valve arrangement. The number and size of valves shall be as indicated on the drawings and where required for satisfactory commissioning, operation and maintenance. The contractor shall ensure that the valves are installed immediately before the two-port valve. Valves shall not be mounted with the test plugs pointing in a downward direction; otherwise they may act as dirt pockets. Measuring devices must provide flow measurement accuracy to within +/- 5% under the design service conditions and must be suitable for the application such that the differential pressure produced is consistent with achieving measurement accuracy. Valves shall be as Crane D931 fixed orifice double regulating valves, or equivalent. Fixed orifice double regulating valves shall be as Crane D931/D933/D934 and shall adhere to the following; fixed orifice performance; hand wheel and pressure tappings oriented for maximum convenience; insertion test points for quick connection; PN25 pressure rating; adaptor kit for use with copper tube.</u>					
A	Commissioning Valves	2	Nr			
	<u>Fit control valves on flow and return LPHW pipework to allow isolation of the LPHW heating return pipework in the building. Values shall be full-way pattern with gland surfacing boxes complete with iron hand wheels screwed or flanged as necessary with cast iron bodies, gunmetal wearing parts and bronze seatings. Valves shall be as Crane D151 isolation valves for gate valves or Crane F611 for butterfly valves, or equivalent</u>					
B	Circuit Valves	43	Nr			
	<u>Distribution system; pipework to Service Engineers Specification; exposed pipework to be painted with two coats of inhibitor paint and two coats of red oxide paint</u>					
C	15mm dia. flow and return pipe;bends	25	Nr			
D	16mm dia. flow and return pipe; tees	14	Nr			
E	16mm dia. flow and return pipe; tees	15	Nr			
F	20mm dia. flow and return pipe; bends	20	Nr			
G	20mm dia. flow and return pipe; tees	8	Nr			
H	25mm dia. flow and return pipe; bends	2	Nr			
J	32mm dia. flow and return pipe; bends	12	Nr			
K	40mm dia. flow and return pipe; bends	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	40mm dia. flow and return pipe; tees	2	Nr			
B	50mm dia. flow and return pipe; bends	6	Nr			
	INSULATION					
	<u>Insulation; in accordance with the Service Engineers Specification</u>					
C	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
D	Identification plates, labels and the like; as Engineer's specification	1	Item			
	<u>Testing</u>					
E	Flush out of new pipework	1	Item			
F	Pressure testing of new pipework	1	Item			
G	Power flushing	1	Item			
	<u>Commissioning and system validation</u>					
H	Testing and commissioning as detailed in Engineer's specification	1	Item			
J	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
K	Warranty requirements as detailed in Engineer's specification	1	Item			
	<u>Operation and maintenance manuals</u>					
L	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
M	Working drawings	1	Item			
N	Co-ordination drawings	1	Item			
P	As-built drawings	1	Item			
	<u>General Builder's Work</u>					
Q	Marking out and supervision of all Builder's Work	1	Item			
					To Collection €	

BQ/380

BQ/381

	Description	Qty	Unit	Rate	€	c
	<u>(57) VENTILATION SERVICES</u>					
	<u>MECHANICAL INSTALLATIONS</u>					
	GENERAL					
	<u>Supply, install and commission of Ventilation Systems in accordance with the General & Particular Mechanical Specification.</u>					
A	The contractor shall be responsible for all ventilation works and shall ensure that the full price for this work is included in the tender price.	1	item			
	TERMINAL EQUIPMENT AND FITTINGS					
	<u>Extract fans shall be installed for the areas indicated on the drawings. These fans shall be supplied and installed by the mechanical contractor under the provision of this contract. The contractor shall allow for all necessary accessories and connections. Supply & fit all extract fans as indicated on the drawings. The contractor shall liaise with the electrical contractor for extract fan power supply locations and wiring details for the wall mounted fan controllers. The contractor shall allow for the supply and installation of the following extract fans. PIR sensor shall be sensitive to infrared radiation emitted by bodies in movement, with a 360 degree detecting angle as CPFL-S or equivalent. The contractor shall ensure that the remote PIR sensor is suitable for the extract fan to be installed. All fans to have a run-off-timer incorporated into the fan; the contractor shall allow for supplying fans to suit the ducting installation, layout and sizes; extract fans to be as supplied by Ventac, Vent Axia, Systemair or equivalent. The in-line extract fan installed in the multi-sensory room shall be controlled from a single phase electronic speed controller. All extract fan must comply with the NZEB/BER assessment. The fan Shall have a SFP (Specific Fan Power) of 0.3w/l/s as outlined in Table 6 from TGD Part L</u>					
B	In-line duct mounted extract fan; 101m ³ /hr at 50PA; CAT no. TD-160/100 NT SILENT ECOWATT; controlled by remote PIR Sensor as CPFL-S c/w 15 min overrun timer	4	Nr			
	<u>All fans for the toilets shall be controlled by a remote PIR sensor. The PIR sensor shall be sensitive to infrared radiation emitted by bodies in movement, with a 360 degree detecting angle as CPFL-S or equivalent</u>					
C	PIR sensors	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall allow for the supply and installation of roof termination cowls on the roof as indicated on the drawings. The contractor shall allow for the connecting of the ductwork to the roof termination cowls and for the supply and installation of the roof termination cowls on the roof/ Samples of all cowls to be provided on request; cowls shall consist of direct mount spigot, adaptor kit, roof cowl, deflector and all screws as "Roof Termination Sets - 315mm" as supplied by Vent-Axia, or equivalent. Include for all accessories.</u>					
A	Roof termination cowl as "Roof Termination Sets - 100mm"; 100mm diameter neck size; 150mm long x 150mm wide x 100mm high	1	Nr			
B	Roof termination cowl as "Roof Termination Sets - 150mm") 150mm diameter neck size; 200mm long x 200mm wide x 100mm high	4	Nr			
	<u>Supply and install all internal grilles, diffusers and disc valves as indicated on the drawings. Grilles shall have RAL 9010 colour finish; samples of all grille/diffuser types to be provided on request; all grilles shall be manufactured from sheet metal with a stove enamelled white finish.</u>					
C	Supply air grilles; Disc valves as KI100 supply valve; 100mm diameter neck size; 130mm diameter overall size; the outer body is fitted with a gasket to form an airtight seal with the mounting ring	1	Nr			
D	Extract grilles; Disc valves as KSU exhaust valve; 100mm diameter neck size; 130mm diameter overall size	4	Nr			
	<u>The mechanical contractor shall allow for the supply and installation of the following external louvres; louvres shall have a metal aluminium finish; louvres shall have a stainless steel bird mesh; include for plenum on back of louvre for ductwork connection; suitable for external use; samples of all grille/diffuser types to be provided on request; all louvres shall be spray painted to a RAL colour to a RAL colour to match the proposed window frames and or rainwater goods. The grilles shall be finished with a polyester powder coating to RAL. colour to match the external cladding on the building. Therefore, the contractor shall allow for the powder coating of the grilles to the selected RAL colour which is to be approved by the architect/client. Include for spray painting the grilles as highlighted above; samples of all grille/diffuser types to be provided on request</u>					
E	CL-150 from Series CL circular cast external louvres; 125mm diameter ductwork connection to louvre; 150mm diameter size of neck connection on grille; 150mm overall size of grille	6	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Salutem external wall hood; 250mm diameter ductwork connection to louver; 683mm wide x 470mm high x 270mm deep overall dimensions; made from aluminium-zinc plated sheet steel painted to a RAL colour to match the proposed window frames and or rainwater goods; RAl colour 7021 Environmental Class C4; installation 250mm diameter connections fitted with rubber seal rings <u>The mechanical contractor shall allow for the supply and installation of motorised back draft dampers on the fresh and stale air ductwork to and from each heat recovery units. The damper shall be powered directly from the heat recovery unit. Allow for and enable signal from the heat recovery unit to each of the motorised dampers. The dampers shall open when the unit is activated and shall close when the unit is not in use. The mechanical contractor shall allow for the supplied and installation of these back draft dampers as follows; shut off damper with electric motor LM24A-F, LM230A-F, CM23F or CM230 F; consists of a DTU damper with 24 or 230 V motor added; has a low height to fit in narrow spaces; in outdoor installation, the motor shall be protected from direct UV radiation; fulfills pressure class C in closed position. Damper shall be as "DTBLU 315" as supplied by Lindab or equivalent</u>	3	Nr			
B	Motorised back draught damper <u>Controller for the Heat Recovery Unit. exact location to be agreed on site</u>	6	Nr			
C	<u>The contractor shall allow for the supply, installation and testing of the following heat recovery units in each of the rooms indicated on the drawings; Versatile Salutem or equivalent; airflow range of 300-1440m3/hr; 2114mm high x 788mm deep x 906mm wide; ducting diameter of 2no. 250mm diameter; ePM150%7 filter; RECONomic type heat exchanger; panel colour RAL 9002</u>	3	Nr			
D	Floor standing heat recovery units	3	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	DUCTWORK					
A	All new ventilation ductwork to be installed throughout the building shall be of the best quality galvanised sheet steel fabricated in accordance with good practice in a neat and workmanlike manner, true to size and internally free from sharp edges and obstructions. It shall comply with the provisions of DW/144- Specification for Sheet Metal Ductwork - published by the HVAC in 1982, and when erected be free from vibration and damping, rigid and truly air tight under operating conditions. Standards; class B medium pressure leakage and pressure classification; 1,000 Pa positive, 500 Pa Negative pressures; galvanised ductwork shall be made from continuously hot-dipped zinc coated wide strip sheet/ plate and slit wide strip to BS.EN10142. GradeDX51D+Z, coating type Z275. The material shall be suitable for profiling and bending. All low pressure supply and extract ductwork is to be leakage tested in accordance with DW/143 and the leakage limits in table B16.15 of the CIBSE guide and DW/144. Air leakage limits shall be $0.009 \times p^{0.65}$ litres/m ² of duct surface area. Where galvanised ductwork is located outdoors and un-insulated, or where the galvanising is broken during the manufacturing process and installation, it shall be treated in accordance with Clause 2.20 of Section 2. All steel ductwork supporting members and flanges shall also be protected in accordance with Clause 2.20. Outdoor ductwork must be protected, weather insulation or any other covering is applied or not, with of chlorinated rubber paint. The surface must be properly de-greased and prepared for paint. Colour of paint to be selected.					
B	100mm diameter extract duct	8	m			
C	250mm diameter fresh air duct	2	m			
D	250mm diameter stale air duct	2	m			
E	100mm diameter passive duct	3	m			
	DUCTWORK FITTINGS AND ANCILLARIES					
	<u>Distribution system; galvanised steel; installed in accordance with Mechanical Drawings and Specification</u>					
F	100mm diameter extract duct ; bends	4	Nr			
G	100mm diameter passive duct; bends	1	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
IDENTIFICATION						
<u>Labelling and identification</u>						
A	All items of equipment such as heat recovery units, fans, dampers, etc. whatsoever, supplied and fitted by the Contractor under this section of the contract shall be provided with labels of approximate size 150 mm x 80 mm x 1.63 mm s.w.g. In general, all labels on equipment shall be engraved on rigid plastic plates and secured to the item of equipment by means of screws; all in accordance with Services Engineers Drawings and Specifications	1	Item			
INSULATION						
<u>Insulation; in accordance with the Service Engineers Specification</u>						
B	pipework; generally	1	item			
TESTING AND COMMISSIONING						
<u>Identification</u>						
C	Identification plates, labels and the like; as Engineer's specification	1	Item			
<u>Testing</u>						
D	Testing and commissioning as detailed in Engineer's specification	1	Item			
<u>Commissioning and system validation</u>						
E	The Contractor shall employ a suitably qualified company to carry out the commissioning. This shall include flow rates for each grill and the balancing of the dampers and fans to achieve the required flow rate in each room as indicated on the drawings.	1	Item			
F	Commissioning report confirming the actual flow rate of each gill to the design flow rate and the reason for any discrepancies	1	Item			
G	Warranty requirements as detailed in Engineer's specification	1	Item			
<u>Operation and maintenance manuals</u>						
H	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
					To Collection €	

BQ/387

BQ/388

Description		Qty	Unit	Rate	€	c
<u>(58) PROTECTIVE SERVICES</u>						
<u>FITTINGS</u>						
FITTINGS EQUIPMENT AND FURNITURE						
<u>Fire Equipment</u>						
Supply and fit the fire extinguishers and fire fighting equipment for the building as indicated on the drawings. Exact locations to be decided on site in conjunction with the employers representative. All fire extinguishers shall conform to the relevant standards. Allow for supplying the suitable and relevant wall signage for each fire extinguisher which indicates what type of extinguisher it is. The contractor shall also allow for the following; providing wall brackets for all extinguishers and allow for mounting all extinguishers; providing and install wall mounted signage above all fire extinguishers identifying fire point, and extinguisher usage; providing a fire assembly appoint sign and mount externally in the location indicated by the clients representative; agreeing exact locations and mounting heights with client's representative prior to mounting extinguishers.						
A	Portable fire extinguisher foam (6 litre)	5	nr			
B	Portable fire extinguisher carbon dioxide (2KG)	5	nr			
TESTING AND COMMISSIONING						
<u>Identification</u>						
C	identification plates, labels and the like; as Engineer's specification	1	item			
<u>Testing</u>						
D	testing and commissioning as detailed in Engineer's specification	1	item			
<u>Commissioning and system validation</u>						
E	warranty requirements as detailed in Engineer's specification	1	item			
<u>Operation and maintenance manuals</u>						
F	operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	item			
<u>Drawing preparation</u>						
G	working drawings	1	item			
					To Collection €	

BQ/390

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/389 Page No. BQ/390 (58) PROTECTIVE SERVICES Carried to Summary					
BQ/391					

(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS

Description	Qty	Unit	Rate	€	c
(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS					
NOTES Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Mechanical & Electrical Engineer's Drawings / Specification Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5. The Contractor shall allow for the full and complete provision of the works associated with these items, including all labour, materials, equipment, cabling, containment, accessories, testing and commissioning, as required by the Contract Drawings and Services Engineer's Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5. The Contractor shall note that notwithstanding the quantities included in this Bill of Quantities, the tendered sum shall be deemed to include for the full and complete execution of the works as described in the Services Engineer's Specifications, Drawings and Schedules. The Contractor shall ensure that all plant, equipment, fixtures, ductwork, pipework, valves, dampers, controls, insulation, supports, builders' work interfaces and ancillary items, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning mechanical services installation. The Contractor shall not be entitled to additional payment for any item omitted from the BoQ quantities where such item is clearly required by the drawings and/or specifications.		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
Information generally						
1. It is brought to the Contractors attention that the proposed alterations to the existing building are SEN's and as such particular attention should be paid to the requirement for concealed pipework and recessed radiators together with any other requirements for an SEN Unit as detailed in the Mechanical & Electrical Engineer's Drawings / Specifications and as demanded by the requirements of a typical SEN unit.			Note			
2. Allow for bringing and removal on completions all plant required for this element of work			Note			
3. Contractor to include in his tender sum for all general and special attendances required on his mechanical sub-contractor			Note			
<u>MECHANICAL INSTALATIONS</u>						
Testing & Commissioning of Mechanical Systems						
A	Testing, balancing and commissioning of all mechanical services installations, including heating, ventilation, water services and associated controls; complete system testing to demonstrate full compliance with specification and design intent	1	Item			
B	Commissioning of LPHW heating systems, including pipework, pumps, valves and heat emitters, complete with witnessing and provision of commissioning records	1	Item			
C	Commissioning of ventilation systems, including extract, supply and heat recovery systems, complete with air-flow measurements, balancing and commissioning reports confirming design flow rates	1	Item			
D	Testing and commissioning of water services installations, including pressure testing, disinfection, flushing and functional verification as specified	1	Item			
E	Attendance at witness testing by the Employer's Representative and provision of all required test certificates and commissioning documentation	1	Item			
Operation & Maintenance Manuals and Handover						
F	Preparation and submission of Operation & Maintenance (O&M) Manuals for all mechanical services installations, complete with manufacturers' data sheets, test certificates, commissioning records and maintenance instructions	1	Item			

To Collection €

5.9. COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS

[illegible]

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/392 Page No. BQ/393 Page No. BQ/394 (59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS Carried to Summary					

BQ/396

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/396 **BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)** Carried to Summary					
BQ/397					

	Description	Qty	Unit	Rate	€	c
	<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</u>					
	<u>GENERAL</u>					
	System; supply, install and commission of LV Electrical Centre and Main Distribution installation, including all switchgear, distribution boards, enclosures, breakers, fuses, glands, switches, meters, transformers, indicators, supports, fixings, hangers, grounds, busbar, loops, casings, plating, isolators and surge protection; including all associated unistrut support framework, bracketing, supports, secondary steelwork, earthing, tags, accessories, etc as required in accordance with the Electrical Drawings 19-052 62(E001) - T1 to 19-052 62(E005) - T1					
A	supply, install, test and commission of Power Distribution system; complete	1	item			
B	The Electrical Contractor shall allow for the supply and installation of a new sub distribution board (NSDB-01)		Nr			
	<u>PRIMARY EQUIPMENT</u>					
	Equipment; including all MCB's, RCBO's, contactors, surge arrestors, cable end boxes, interconnections, fuses, traffolyte designation labels and all other items required to complete					
C	Supply and install, connect, test and commission sub distribution electrical board (SDB-01)	1	Item			
D	Supply and install, connect, test and commission sub distribution electrical board (SDB-02)	1	Item			
	Accessories associated with terminal equipment; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.					
E	MCB's	1	item			
F	MCCB's	1	item			
G	RCBO circuit breakers	1	item			
H	circuit breakers	1	item			
J	tap off units	1	item			
K	fuse tp's	1	item			
L	switch fuse sp's	1	item			
M	3-phase ESB CT meter	1	item			
N	surge protection	1	item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
A	generation meters	1	item			
B	ac isolators	1	item			
C	isolator switches	1	item			
D	multi function meters; RS485 modbus metering interface with BMS	1	item			
E	Include here for any other accessories not expressly listed above but required to complete the works	1	item			
	Accessories associated with electronic surge protection; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.					
F	TP & N incomer on the new Sub Electrical Distribution Board (SDB.01) - (Type 2 combined lightning & SPD).	1	item			
G	TP & N incomer on all the new Sub-Distribution Board (Type 2 combined lightning & SPD).	1	item			
H	SP & N incomer on the new Fire Alarm Panel – (Type 2 combined lightning & SPD).	1	item			
J	SP & N incomer on the PV Panel supply – (Type 2 combined lightning & SPD).	1	item			
	Accessories associated with electrical check meters; supply and install accessories, all as per Engineer's Drawings and the Electrical Specification.					
K	Supply and install electricity check meter shall be installed in the new sub electrical boards as indicated on the drawings; PowerLogic PM5000 series , or equivalent; check meter shall be interfaced to the Buildings Management System; all in accordance with the Service Engineers Drawings and Specification	1	Item			
	Supply and install all necessary cabling including all control cabling including isolators, mccb, terminations, testing, monitoring etc. all strictly in accordance with the Service Engineers Drawings and Specification					
	<u>LV Installations Cabling</u>					
L	LV installations cabling	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Final circuits (including points terminations) supply and installation of the following LV services; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc. as required, all as per Engineer's drawings and the Electrical Specification.					
A	circuits to all LV power distribution boards and fittings	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
B	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
C	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
D	commissioning as detailed in Engineer's specification	1	item			
E	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
F	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
G	working drawings	1	item			
H	co-ordination drawings	1	item			
J	as-built drawings	1	item			
	General Builder's Work					
K	marking out and supervision of all Builder's Work	1	item			
L	fire stopping; the Contractor shall identify openings where fire stopping is required, to complete building in around containment trays and conduits, which fire stopping shall be certified by specialists	1	item			
					<i>To Collection €</i>	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/398 Page No. BQ/399 Page No. BQ/400 (61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION Carried to Summary					
BQ/401					

Description		Qty	Unit	Rate	€	c
<u>(62) POWER</u>						
<u>GENERAL</u>						
The electrical contractor shall supply, install, connect, test and commission the new sub distribution board for the new extension as indicated on the drawings. The existing main electrical board in the electrical room shall supply the new sub-distribution electrical board in the staff room of the new extension so all for the necessary sub-mains cabling from the existing main electrical board to the new sub-distribution electrical board. The new sub-distribution board shall be supplied and installed as indicated on the drawings. The assembly of the board shall adhere to the following specifications and shall have the following specifications; wall mounted; sheet steel cubicle with MCCB type cubical construction. The enclosure protection shall be IP31; shall be supplied with a moulded case circuit breaker incomer; type tested assembly; incoming cables shall be bottom entry and outgoing cables shall be top exit; the board shall be extensible at both ends and shall be of MCCB type wall mounted cubicle construction; all panel sections providing direct access to live assemblies shall be openable only with special tool; all panel sections accessing shrouded MCB's shall be provided with a handle for opening; the sub-distribution electrical board shall be manufactured to "Form 3A (Type 1)" separation in accordance with IS EN 60439; shall be suitable for a voltage of 630/230V (3 phase; electronic surge shall be protection provided on the incoming mains as detailed						
A	New sub-division board for the extension of the building	1	Nr			
<u>TERMINAL EQUIPMENT AND FITTINGS</u>						
The electrical contractor shall supply, install, connect, test and commission the general service wall/floor mounted outlets shall be single or twin switched 13A 3 pin type mounted on suitable conduit boxes. Sockets are to be located 450mm generally above finished floor level and 200mm above worktops. The main earth terminal on all sockets shall be connected to the earth terminal in the conduit box						
B	Single 13A switched socket outlet	12	Nr			
C	Twin 13A switched socket outlet	23	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	The electrical contractor shall allow for the supply and installation of photovoltaic panels (PV panels) on the roof of the building for supplementary electrical supply to the building. The school shall have 24 PV Panels located on the roof as shown on the drawings. The electrical contractor shall employ a specialist PV installer the PV panel array as indicated on the drawings. The PV installer must include for the coordination works associated with the installation of this PV system and liaising with ESB Network Ireland. The PV installer shall be a SEAI registered installer for the supply and installation of the PV Panels. Our recommended PV specialist would be as follows; PV Green Energy Saving Ltd. Donacarney, Mornington, Co.Meath. The PV panels shall be high-performance solar module. The PV panels shall have a performance output of up to 370Wp and shall have a static front load of up to 6,000Pa. The contractor shall also require that the panels shall have a warrantee of 25 years. The contractor shall ensure that the busbar on the panels are located on the rear of the cells and this will ensure that the front of the cells are fully exposed to light. This shall also allow for additional busbars to be installed on each module instead of the busbar being installed on the front of the PV panels.	24	Nr			
	Where sockets are to be located below counters and in presses, the contractor shall include for the supply and installation of a fused isolation switch for each socket above the counter and connection of that switch to the socket for isolation. Isolation switched shall be three pole 5 Amp or 13 Amp fuse and fuse holder, bushed flex outlet and neon indicator. All isolators shall be as manufactured by MK Albany Plus and finished in brushed stainless steel, or equivalent.					
B	Below counter twin socket with over counter double pole isolation switch c/w neon indicator for isolation	9	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	The contractor shall supply, install, connect, test and commission the general service socket outlets on the dado trunking as indicated on the drawings and schedules. All socket outlets on the dado trunking shall be recessed into dado trunking. Sockets on the dado trunking shall be of the switched type as MK Logic Plus K2746 WHI (2 gangs) or equivalent. Mounting frames/boxes to be VCT-121 WH (1 gang) or VCT-121 WH (2 gang), or Equivalent. All double sockets shall have outboard rocker switches Please note that all sockets shall adhere to Building Regulations Part M. Therefore, all sockets shall adhere to the following specification; all double sockets shall have outboard rocker switches ; all rocker switches shall have neon indicators in the switch rockers to indicate they are on; the rockers on the socket shall contrast with the colour on the socket; the sockets installed shall not match the same colour as the dado trunking compartment					
A	CAT 6A data	10	Nr			
B	Twin 13A switched socket outlet	12	Nr			
	The electrical contractor shall include for the supply, erection and wiring of all new switched spur outlets for connection to electrical control/equipment panels throughout the building. Switched used spur outlets shall comprise switch, single pole 5amp or 13amp fuse and fuse holder, bushed flex outlet and neon indicator. Surface mounted unswitched fused spur outlets shall be from the MK Albany Plus (Brushed Stainless Steel) range as K971BSS (1 gang), or equivalent. Mounting boxes to be 829 ALM (1 gang), or equivalent. Connection to all equipment shall be by fixed spur outlet, mounted in line with the equipment on the drawings. Wiring to the units shall be 2 core 2.5mm² LSZH cable in trunking and conduit. Surface box shall be acceptable in ceiling void provided all cables are in conduit from trunking to outlet.					
C	Single 13A switched spur outlet for CCTV system	2	Nr			
D	Single 13A switched spur outlet for door access system	4	Nr			
E	Single 13A switched spur outlet for heat recovery unit	3	Nr			
F	Single 13A switched spur outlet for the hot water boiler	2	Nr			
	A number of IT and telephone points shall be installed and recessed in the dado trunking as indicated on the drawings. The contractor shall allow for installing all required back boxes, face plates. RJ45 outlets, etc.					
G	CAT 6A outlet for data	16	Nr			
H	CAT 6A outlet for CCTV cameras	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Wireless access network point. Point shall be wired in CAT 6A cable The electrical contractor shall allow for the wiring of extract fans for the toilets as indicated on the drawings, which shall be supplied and fitted by the mechanical contractor. Electrical power supplies to each fan shall be 230VAC 50 Hz c/w 13 amp spur and shall be supplied as part of this contract. Each fan shall be controlled via a remote PIR sensor which shall be wired and connected to the fan. Wiring to the extract fan and remote PIR sensor shall be carried out using 2.5mm sq. in LSOH. Wiring shall be exactly to supplier's instructions. For each fan above the ceiling, the contractor shall include for the supply and installation of a fused isolation switch for the fan below the ceiling near where each fan is located and connection of that switch to the fan. Isolation switches shall be a three pole 5 Amp or 13 Amp fuse and fuse holder, bushed flex outlet and neon indicator. All isolators shall be as manufactured by MK Albany Plus and finished in brushed stainless steel, or equivalent	2	Nr			
B	Single 13A switched spur outlet for extract fans	4	Nr			
C	Remote PIR control for the extract fan The contractor shall include for the following electrical attendances to each 2-port valve and associated wall stats in the rooms as indicated on the drawings. Allow power supplies to all valves/thermostat and control wiring between all valves/thermostat. The contractor shall include for the following electrical attendances to each 2-port valve located at the heating manifold and thermostat arrangement in the rooms as indicated. 230V power supply via a 13 amp unswitched spur for each 2-port valve which shall be installed above the heating manifold installation. Final location of spur to be conformed with the system installer; 2-core 1.5mm² cable from the wall mounted thermostat to the 2-port valve located beside the heating manifold arrangement. The thermostat shall be located in 1100mm above finished floor-level. Wiring installed in steel conduit from the 2-port valve to the thermostat including for all necessary cable containment. Wiring shall be by the contractor and shall be exactly to supplier's instructions. The contractor shall liaise with the supplier regarding installation of equipment.	4	Nr			
D	2-port motorised valve; ensure that the steel conduit is recessed and flush mounted into the wall; wiring shall be taken from the new sub-electrical board in the building which are indicated on the drawings	20	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	2-port motorised valve; Wiring shall be taken from the new electrical boards in the building which are indicated on the drawings.	2	Nr			
B	Wall mounted room stat	2	Nr			
	The electrical contractor shall allow for the installation of hand-dryers c/w a switched fused spur in the toilet areas as indicated on the drawings. The hand-dryers are located as indicated on the drawings but final locations shall be finalised with the client on site. Hand-dryers shall adhere to the following specification; Atc Panther High Speed; steel cover; matt stainless steel finish; 5 year warranty; supplied with dust filters; automatic activation;					
C	Hand-dryer c/w switched spur		Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
D	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
E	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
F	commissioning as detailed in Engineer's specification	1	item			
G	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
H	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
J	working drawings	1	item			
K	co-ordination drawings	1	item			
L	as-built drawings	1	item			
	General Builder's Work					
M	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

BQ/407

BQ/408

Description		Qty	Unit	Rate	€	c
<u>(63) LIGHTING</u>						
<u>ELECTRICAL INSTALLATIONS</u>						
GENERAL						
<u>System; supply, install and commission of Lighting installation in accordance with Electrical Drawings and Specification</u>						
A	supply, install, test and commission of internal and external lighting installations; complete; as per Electrical Services Drawings and Specification	1	item			
B	supply, install, test and commission of emergency lighting installations; complete; to IS3217:2013; as per Electrical Services Drawings and Specification	1	item			
TERMINAL EQUIPMENT AND FITTINGS						
<u>All new lighting switches for the general areas of the building shall be "push-to-make" switches and shall be surface mounted. All lighting switches, unless stated otherwise, shall be located 1100mm generally above finished floor level. All lighting switches shall be from the MK Grid Albany Plus Range as described above the switch module being white and of the rocker/ push type. New lighting switches shall be provided and ganged as indicated on the drawings and shall be either 1-way, 2-way or intermediate as indicated. Switches for internal use shall be of the 15/20 Amp inductive rating grid switch type. Switches for external use shall be white. Include for suitable cover plate, grid and back box. All switches to be of brushed stainless steel finish. Mounting boxes to be supplied without knock-outs.</u>						
C	One-way " push-to-make" light switch	3	Nr			
D	Two-way "push-to-make" light switch	4	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>Automatic lighting controls shall be installed for all these rooms in the building as indicated on the drawings. The controls shall incorporate 2 control elements; manual dimming control; automatic detection control (non ASD areas only). The lighting controls in all these rooms shall be based on manual on/off switching, absence detection to turn off lights when no movement is detected and manual dimming of the lighting fittings through the momentary "push-to-make" light switch. A momentary action (bell push) rocker type switch shall be installed for the lighting circuits in all areas. Lighting switches shall be provided and ganged as indicated on the drawings and shall be either 1-way, 2 way or intermediate as indicated. Switches for internal use shall be of the 15/20 Amp inductive rating grid switch type. Absence detection shall be set up so that sensor in each room will require the lighting "push-to-make" light switch to turn the lights on and will time out when the area is left unoccupied and will need re-activation again by the light switch. A remote sensor or sensor incorporated into the light fitting shall be supplied for all the light fittings in each of these rooms and this sensor shall be linked to the light fittings in the room for lighting control. Allow for the necessary control wiring between the light fittings and the relevant sensor in each area/room. See schedule of light fittings and drawings to see what light fittings have the sensor incorporated into the fitting and what light fittings have the sensor remote from the fitting. Operation of lighting system in these areas; the user will enter the room/ area and to press the "push-to-make" bell push switch to bring the lights on. The lights shall then turn on to the required light level only if the detectors sense that the room/area is occupied; the lights will remain on while the room/area is occupied. There is no time limit to this; once the room/area is vacated, the system will time out and switch the lights off. This time-out period shall be set to 10 minutes; if the room/area is entered before the lights have been timed out, the system will reset and stay on until once again the room/area is vacated; if the room/area is entered after the lights have timed out, the user will have to press the "push-to-make" rocker switch to bring the lights back on. The user of each room shall also have the facility to increase or decrease the lighting level of the light through the " push-to-make" rocker switch so that the user has manual dimming control over the light fittings.</u>					
A Standalone recessed daylight absence detector and daylight sensor	4	Nr			
To Collection €					

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall allow for the supply and installation of a remote sensor to control the light fittings in the toilet areas and stores as indicated on the drawings. Please note that the majority of light fittings in these areas will require a remote sensor as indicated on the drawings. Allow for the necessary control wiring between the light fittings and the relevant sensor in each area/room. All motion/presence detectors for use with the light fittings in the toilet areas as indicated shall be as a Eco-Sensor PIR from Thorlux or equivalent. All motion/presence detectors shall adhere to the following specifications; white colour; ceiling mounted (recessed); 360 degree and adjustable detection range from 1 to 6 meters; 230V AC; IP43</u>					
A	Ceiling mounted remote PIR sensor for the lighting controls <u>The electrical contractor shall allow for the supply, installation, cabling and commissioning of all the light fittings listed below. The type of luminaire required for each location is specified in the appropriate schedules. The electrical contractor shall install these luminaires at the locations shown on the drawings. The lighting system shall be fed from the new sub-electrical board for the building as indicated on the drawings. The exact location of each luminaire shall be determined on site in consultation with the employer's representative. All luminaires shall be complete with all necessary control units that shall be used in conjunction with the LED light fittings. Ensure lighting supplier has included for all remote control units. All luminaires to be complete with lamps, spare lamps and necessary items as per specification. All luminaires shall comply with BS4533. All luminaires' photometric data shall comply with BS5225. All luminaires shall be in accordance with IS EN 60079, and IS EN 50014; IS EN 50018 or IS EN 50020 as appropriate. Final connection to luminaires shall be via a "KLIK" type connector junction box with 3 core 1.5sq.mm heat resistant flex as final connection. Luminaires erected prior to the completion of wall, floor and ceiling finishes must be sealed from dust/dirt and protected from damage/ Such luminaires may not be used for temporary lighting of the works unless approved</u>	15	Nr			
B	Surface mounted 37 watt 1520 x 217 x 90mm LED light fitting. Light fitting shall adhere to the following; surface mounted fitting; 37 watt LED; IP44 rated below ceiling; dimmable; white painted steel. End caps; white polycarbonate with a curved, precision extruded clear prismatic polycarbonate diffuser; 21.5 mm diameter cable entry hole in the centre of the black spine with optional cable entry through each end cap. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorn College Prismatic LED (96628920 College LED4650-840 HFIX L1500 or equivalent.	2	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Surface mounted 37 watt 1520 x 217 x 90mm LED light fitting. Light fitting shall adhere to the following; surface mounted fitting; 37 watt LED; IP44 rated below ceiling; white painted steel. End caps; white polycarbonate with a curved, precision extruded clear prismatic polycarbonate diffuser; 21.5 mm diameter cable entry hole in the centre of the black spine with optional cable entry through each end cap. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorn College Prismatic LED (96628920 College LED4650-840 HFIX L1500 or equivalent.	2	Nr			
B	Surface 30 watt 1545mm LED fitting, light fitting shall adhere to the following; surface mounted 30 watt fitting; 30 watt LED; IP40 rated fitting; Steel body finished full polyester, non-yellowing white; shallow profile with co-extruded "Satin-Glo" polycarbonate controller; Screw in end caps; 4000K LED's 5-year warranty for all components. CE Marked. The proposed lighting fitting is Thorlux Jubilee LED (or equivalent)	2	Nr			
C	Surface 43 watt 1545mm LED light fitting. Light fitting shall adhere to the following; surface mounted 43 watt fitting; 43 watt LED; IP40 rated fitting; Steel body finished full polyester, non-yellowing white; shallow profile with co-extruded "Satin-Glo" polycarbonate controller; screw in end caps; 4000K LED's; 5-year warranty for all components. CE Marked. The proposed lighting fitting is Thorlux Jubilee LED or equivalent	2	Nr			
D	Twin 1500mm LED ultraviolet light fitting, surface mounted c/w all fittings as necessary.	2	Nr			
E	External IP66 rated wall mounted light fitting. Light fitting shall adhere to the following; external wall mounted LED light fitting; 35 watt LED; IP66; silver or white finish options; strong die-cast LM2 aluminium body; high efficiency fire retard satin polycarbonate diffuser; photocell option; microwave presence detector option with stand-by light level feature; silver colour. 4000K LED's; 5-year warranty for all components; CE Marked. The proposed lighting fitting is Thorlux Cobalt LED or equivalent	2	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>The Contractor shall supply and install the emergency lighting system and emergency light fittings in compliance with IS 3217:2023, BS EN 50172 and IEC 62034. All emergency light fittings for this building shall be EMC compliant, CE Marked and manufactured to IS EN60598-2-22. The emergency lighting system shall operate for a period not less than 3 hours following failure of the normal supply. The system shall include all emergency lights and exit signs, and the contractor shall take responsibility to ensure that all emergency luminaires are compatible with the chosen system. Each emergency luminaire shall have a switching unit which shall automatically switch the luminaire to the emergency circuit in the event of local or mains power failure. The installation shall consist of self-contained maintained emergency exit signs with appropriate running man symbol. Types of luminaires required for the various locations are shown on the drawings and described in the below. The contractor shall ensure that the luminaires are placed on order to suit the installation programme. However, approval of the engineer shall be obtained before placing orders. All luminaires shall be complete with all necessary control units that shall be used in conjunction with the LED light fittings. Ensure lighting supplier has included for all remote control units. All luminaires shall comply with BS4533. All luminaires' photometric data shall comply with BS 5225. All luminaires shall be in accordance with IS EN 60589. The electrical contractor shall ensure that luminaires of similar type have same photometric performance as published data within the tolerances defined by BS5225. All hazardous area luminaires shall comply with IS EN 60079, and IS EN 50014; IS EN 50018 or IS EN50020 as appropriate. Final connection to luminaires shall be via a "KLIK" type connector junction box with 3 core 1.5 sq.mm heat resistant flex as final connection. Luminaires erected prior to the completion of wall, floor and ceiling finished must be sealed from dust/dirt and protected from damage. Such luminaires may not be used for temporary lighting of the works unless approved.</u>					
A IP30 rated ultra slim (blade type) wall/ceiling mounted 4W LED emergency luminaire with 3hr maintained emergency operation c/w status indicator. Light fitting shall adhere to the following; suitable for wall mounting or ceiling mounting, dependant on location; polycarbonate body finished in matt silver with 10mm screen printed acrylic signage panel indicating straight through escape; screen printed legend panel in appropriate European signs directive format pictogram. 4 watt LED in total; self-contained battery; three-hour maintained; 3 year warranty; the light fitting shall conform to the current BS ISO 3864-1 & ISO 7010 S standards. CE marked. The proposed lighting fitting is Thorlux LEx or equivalent)	10	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	IP65 rated self-contained standalone recessed 3W LED emergency light downlighter (Open Area Version). Fitting shall be a high performance LED light fitting. Light fitting shall be a non-maintained emergency operation c/w status indicator. Allow for remote control unit for standalone light fitting. Light fitting shall adhere to the following; recessed for open area version. Supplied with the open plan lens (symmetrical light pattern); self-contained; 3 watt LED; lamp colour - 4500K; lamp power 3.0 watt. 270 lumens in emergency; IP65 rated below the ceiling; IP40 rated above the ceiling; thermally conductive nylon body; polycarbonate bezel finished in white RAL 9016; self-contained battery; three-hour Non-Maintained; class L; status indicator to indicate operational condition; 5 year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed lighting fitting is Thorlux Firefly (Area Version) or equivalent.	14	Nr			
B	IP65 rated self-contained standalone recessed 3W LED emergency light downlighter (Escape Route Version). Fittings shall be a high performance LED light fitting. Light fitting shall be a non-maintained emergency operation c/w status indicator. Allow for remote control unit/ status indicator. Allow for remote control unit for standalone light fittings. Light fittings shall adhere to the following; recessed for escape route version. Supplied with the escape route lens (asymmetrical light pattern). Self-contained. 3 watt LED; lamp colour - 4500K; lamp power - 3.0 watt; 235 lumens in emergency; IP65 rated below the ceiling; IP40 rated above the ceiling; thermally conductive nylon body; polycarbonate bezel finished in White RAL 9016; self-contained battery; three-hour Non-Maintained; class I; status indicator to indicate operational condition; 5-year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed lighting fitting is Thorlux Firefly (Escape Route Version) or equivalent.	9	Nr			
C	IP65 rated wall/ceiling mounted 4W LED emergency bulkhead with 3hr non-maintained emergency operation c/w status indicator. Ceiling or wall mounted version dependant on location/ Light fitting shall adhere to the following; surface mounted IP65 rated bulkhead; self-contained. Offwhite polycarbonate body with clear linear prismatic cover; 4 watt LED; lamp colour - 4000k; three-hour non-maintained; 5 year warranty; CE marked; fully compliant to EN 60598.2.22. The proposed light fitting is Thorlux Mini-8 or equivalent.	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	CABLES					
	<u>All the new light fittings as indicated in the building shall be wired in new cable. Allow for wiring all the new light fittings back to the new electrical boards as indicated on the drawings. Mains wiring for the internal lighting circuits shall be run in 2.5sq.mm, with 2.5sq.mm earth throughout the installation. All lighting circuits shall be protected by MCB's of a minimum size of 10A. The circuits shall be arranged to minimise voltage drop and provide the correct operating voltage for each luminaire. In order to achieve absence detection as required by the system must be connected to at least one normally open momentary action switch wired in parallel. Include for all 1-10V, 2 core 1.5sq.mm LSZH control cabling system selected is compatible with the luminaires selected. This shall include liaising selected. This shall include liaising with the lighting control specialist prior to 1st fix, to ensure the light sensor is located in the optimum location within each room.</u>					
A	Control cabling	19	m			
B	Power Cabling	101	m			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
C	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
D	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
E	commissioning as detailed in Engineer's specification	1	item			
F	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
G	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
H	working drawings	1	item			
J	co-ordination drawings	1	item			

To Collection €

BQ/416

BQ/417

Description		Qty	Unit	Rate	€	c
<u>(64) COMMUNICATION SYSTEMS</u>						
<u>ELECTRICAL INSTALLATIONS</u>						
GENERAL						
<u>System; supply, install and commission of DATA/ I.T. installation in accordance with Services Drawing No's. 19-052 62(E001) - T1 to 19-052 62(E005) - T1 and Specification</u>						
A	supply, install, test and commission of DATA/ I.T. installations; complete; including all structured cabling, RJ45 sockets, RJ45 patch panels and cabinets; as per Electrical Services Drawings and Specification	1	Item			
B	The new extension shall be provided with a new independent CAT 6A UTP structured computer wiring system as per the drawings. The system as described below shall be installed in accordance with ISO 11801 and EN 50173. All equipment provided shall be from the same manufacturer to ensure optimum performance. The installed system shall be certified by the specialist Contractor with a twenty-year performance and components warranty.	1	Item			
C	All structural wiring shall be terminated in the new intermediate data cabinet as identified on the electrical drawings. All wiring terminations shall be RJ45 presentation. All new IT and telephone points shall be wired back and connected to this new intermediate comms cabinet. Allow for punching down the data cables.	1	Item			
D	The entire installation shall be carried out by a data specialist Contractor. The specialist Contractor shall be fully trained and certified to install the specified product and fully authorised to issue a warranty certificate.	1	Item			
E	The data horizontal cabling shall consist of CAT 6A UTP (unshielded twisted pair) cable complying with EIA-TIA 568 up to and including 155 Mps. All cable runs on a system of cable trays/conduit to be supplied by the Electrical Contractor; as per Electrical Services Drawings and Specification	1	Item			
F	The data equipment shall be connected to RJ45 socket outlets via Category 6A device cables to EIA/TIA 568A, (SP 2840A), ISO IS 11801 and EN 50178 standards. Cables shall be terminated in RJ45 plugs and shall be 3m long; data outlets shall be supplied and fitted under this contract and shall be modular universals applications RJ45 type to EIA/TIA 568A, ISO IS 11801 and EN 50173 Category 6A; as per Electrical Services Drawings and Specification	1	Item			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>System; supply, install and commission of Public Address installation in accordance with Services Drawing No's. 19-052 62(E001) - T1 to 19-052 62(E005) - T1 and Specification</u>					
A	supply, install, test and commission of Public Address installations; complete; as per Electrical Services Drawings and Specification	1	Item			
B	Allow for the supply, installation, testing and commissioning of new public address devices to the existing PA system for the existing Girls School main school building and the existing Boys School main school building. The PA system shall be extended to cater for the new devices in the new Girls School extension and new Boys School extension; as per Electrical Services Drawings and Specification	1	Item			
C	Allow for the supply, installation, testing and commissioning of the new public address speakers for the new Girls School extension and new Boys School extension. All speakers as indicated on the drawing are to be linked back to the existing public address control panel in the Girls School main school building and Boys School main school building; as per Electrical Services Drawings and Specification	1	Item			
	PRIMARY EQUIPMENT					
	<u>New intermediate wall mounted comms cabinet shall be supplied and installed in the Store for the localised wiring of all IT points throughout the new extension of the building. The cabinet shall be as follows; IP21 rated, wall mounted 800mm wide x 800mm deep 120-way. Cat 6A, RJ45 presentation in a 16U lockable enclosure. Cabinet shall be installed such that all equipment, including patch panels may be installed and serviced from the front. The contractor shall provide MOF's as indicated on the electrical drawings (size to be confirmed by specialised IT Contractor); the cabinet shall be located at high level in the store as indicated on the drawings. Final locations to be agreed on site; provide a 6-way 230V 3-pin power block within the cabinet; 19" rack mounting type, frame shall be of minimum 2mm steel, doors and panels of minimum 1.5mm sheet steel, seam-welded; glass door with cylindrical lock; allow for adequate number of 24-port patch panels to suit the number of IT points required for the building; supplied fully assembled; the comms cabinets shall adhere to the following standards IEC 297-2, DIN 41494-7, DIN 41491-1, BS 5840/3192</u>					
D	Communication cabinet	1	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
TERMINAL EQUIPMENT AND FITTINGS <u>The contractor shall allow for the supply and installation of a completed Public Address (PA) system in areas as indicated on the drawings including all speakers, cabling, console system, etc. A specialist sub-contractor shall be employed by the contractor in order to carry out all the final connections, testing and commissioning of the system. The contractor shall allow for the supply, installation, testing and commissioning of a complete public address/music system for the new extension of the building as indicated on the drawings. All areas as indicated on the drawing shall be linked back to a new independent public address control panel which shall be located in the Principals Office. The supply of equipment, final connection of devices and commissioning shall be by the specialist supplier below with all other works performed by the contractor. The contractor shall allow for a complete installation within the tender price. All equipment as supplied by SKS Communications, or equivalent. Classroom switching; the PA system be wired so that the Principal can independently speak to each classroom and office area can talk back to the Principal. The PA system shall be a 2-wat communication system. Therefore, there shall be a dedicated switch for each classroom and office on the main PA console in the Principals Office so that Principal and flick this switch and talk independently to a specific classroom throughout the building without other classrooms or areas hearing the conversation. Subsequently, there shall be a switch on each PA speaker in all Classrooms, Offices, etc. that shall allow the teacher in each room to speak independently to the Principal if required. General area switching; apart from the switching highlighted above, the PA system shall be zoned so that certain areas are grouped together. A separate switch for each zone (zones highlighted below) shall be installed on the main PA console so that the Principal can speak to all the zones separately. Announcement for all areas; a single switch shall be installed on the PA system console that the Principal can make an announcement to all the PA speakers throughout the Junior School Building. Zoning; apart from each classroom and office being independently switched, the PA system shall be zoned as follows; external area (zone 1); corridors (zone 2)</u>					
				To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Wall mounted speakers shall be installed in all Safebase, SET rooms, Offices, Staffroom, etc. as shown on the drawings, allowing 2-way communication from the main console in the Principals Office to these rooms throughout the building. Speakers shall be vandal resistant loudspeakers and shall be mounted 1600mm above finished floor level. Final location of speakers to be agreed with the employers representative. These speakers will be 6watt with power tape of 3/1.5/.75/.3 Watts as a minimum. The speakers will be constructed of metal and shall be white colour. Wall mounted speakers to be CES WAS-6061, or equivalent. Speaker shall be located at the teachers wall and shall have a volume control in addition to the toggle switch.	4	Nr			
B	Power amplifierr for the PA system, as Bosch LBB-1938/00 plena booster 720/480W, or equivalent.	4	Nr			
	<u>Final circuits (including points terminations) supply and installation of the following data and I.T. services; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u> The data horizontal cabling shall consist of CAT 6A UTP (unshielded twisted pair) cable complying with EIA-TIA 568 up to and including 155Mps. All cable runs on a system of cable tray/conduit to be supplied by the electrical contractor. Each data outlet shall be connected to the RJ45 patch panel. Connect equipment via the above cable in a star topology format. The length of each run shall not exceed 90m and total length from network device to network device including any leads must not exceed 100mts. If necessary, additional cross connects must be provided. UTP cable shall comply with EIA/TIA 568 (SPZ840A) ISO 11801 and EN 50173 standards. UTP cables from each user location shall be terminated at the comms cabinet in each location as indicated					
C	Horizontal backbone system	22	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	The data equipment shall be connected to RJ45 socket outlets via Category 6A device cables to EIA/TIA 568A, (SP 2840A), ISO IS 11801 and EN 50178 standards. Cables shall be terminated in RJ45 plugs and shall be 3m long. The data outlets shall be supplied and fitted under this contract and shall be modular universals applications RJ45 type to EIA/TIA 568A, ISO IS 11801 and En 50173 Category 6A. Faceplates on dado/skirting trunking shall be selected to match exactly MK dado compartment trunking system as specified earlier in this document. They shall be flush mounted and be of an exact matching colour. Stand-alone RJ45 points shall be fitted with faceplates to match the finish of the electrical sockets as detailed earlier in this specification. Quad faceplates in PVC WHI to match trunking as described above.					
A	Work location system	9	m			
B	circuits to all data / IT installations complete	1	item			
C						
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
D	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
E	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
F	commissioning as detailed in Engineer's specification	1	item			
G	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
H	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
J	working drawings	1	item			
K	co-ordination drawings	1	item			
L	as-built drawings	1	item			
					To Collection €	

BQ/423

BQ/424

	Description	Qty	Unit	Rate	€	c
	<u>(66) CONTAINMENT</u>					
	<u>ELECTRICAL INSTALLATIONS</u>					
	GENERAL					
	<u>System; cable ladder/tray/trunking installations; cabling containment; galvanised; including conduits, cable trays, baskets, 3-compartment trunkings, wiring, brackets, supports, fixings, hangers, bends, headers, grounds, casing, covers, plating and mounting in accordance with Drawings and the Electrical Specification.</u>					
A	supply and install of cable ladder/tray/trunking installations; complete	1	item			
	CABLE CONTAINMENT					
	<u>The electrical contractor shall install all final branch runs, risers, offsets, etc. as required to provide a complete containment system in each case. This information is indicative only. The electrical contractor shall provide all bends, tee's and cross-overs that required to meet current ETCI standards, the routes indicated are main routes only and secondary routes into rooms are not indicated. The contractor shall be responsible for the supply and installation of all trunking and tray to ensure the supply and installation of all trunking and tray to ensure the protection of all trunking and tray to ensure the protection of all the cabling. All trunking and trays shall be manufactured from galvanised steel as supplied by unitrunk or equivalent. The contractor must ensure 40% spare capacity is maintained within containment at all times. All exposed wall mounted trays must be clipped/lidded. All cable tray and trunking shall be installed within the ceiling void and shall be hidden. The contractor shall allow for all dado trunking drops and layouts as indicated on the drawings. The contractor shall allow for all electrical items as indicated on the drawings on the dado trunking</u>					
B	75mm tray for sub-mains cable tray	7	m			
C	300mm tray for sub-mains cabling	3	m			
D	Dado trunking	5	m			
E	Conduits	126	m			
	CABLE CONTAINMENT FITTINGS					
	<u>Cable containment fittings</u>					
F	75mm cable tray bends	1	Nr			
G	Dado trunking bends	2	Nr			

To Collection €

Description		Qty	Unit	Rate	€	c
TESTING AND COMMISSIONING						
<u>Identification</u>						
A	identification plates, labels and the like; as Engineer's specification	1	item			
<u>Testing</u>						
B	testing and commissioning as detailed in Engineer's specification	1	item			
<u>Commissioning and system validation</u>						
C	commissioning as detailed in Engineer's specification	1	item			
D	warranty requirements as detailed in Engineer's specification	1	item			
<u>Operation and maintenance manuals</u>						
E	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
<u>Drawing preparation</u>						
F	working drawings	1	item			
G	co-ordination drawings	1	item			
H	as-built drawings	1	item			
<u>General Builder's Work</u>						
J	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/425 Page No. BQ/426 (66) CONTAINMENT Carried to Summary					
BQ/427					

Description		Qty	Unit	Rate	€	c
<u>(68) SECURITY & PROTECTION SERVICES</u>						
<u>ELECTRICAL INSTALATION</u>						
GENERAL						
<u>System; supply, install and commission of Fire Alarm Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u>						
A	supply, install, test and commission of Fire Alarm Installation; complete; as per Electrical Services Drawing Nr. 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and Specification	1	item			
B	Supply, install and commission by specialist contractor; complete Fire Alarm System including all associated equipment and wiring	1	item			
C	A new fire alarm installation shall be installed for the building as indicated on the drawings. The system to be installed shall be in compliance with I.S. 3218: 2024. All new devices as indicated for the building shall be wired back and connected to the new main fire alarm panel which shall be located in the entrance lobby to the main building.	1	Item			
D	A fully addressable L1 type fire alarm system fully in accordance with I.S. 3218:2024 and as identified in the drawings shall be provided for the building. The system shall comprise ionisation and optical smoke detectors, heat detectors, sounders, combined heat detectors, combined smoke detectors, alarm beacons/ sounders, visual alarm devices, manual call points, fire alarm interfaces, short circuit isolators and similar alarm input devices, located as shown on the drawings. The devices shall be connected in loops to the compact wall mounted addressable control and indicator panel located as indicated on the drawings.	1	Item			
E	Fire alarm systems by the following companies is acceptable; sidemen's; tyco; morley; nulli fire; menveir limited. The fire alarm system for the building shall be an "Open Protocol" system with unrestricted access to replacement components and software so that there is no impediment to its future maintenance by companies selected by the client.	1	Item			
F	The existing main fire alarm panel shall be retained and extended to cater for the new fire alarm devices in the new extension. The panel shall be a compact wall mounted addressable control and indicator panel located at the main entrance to the school. All devices within the new extension building shall be connected in loops, to this panel.	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	<u>System; supply, install and commission of Access System Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u> supply, install, test and commission of Access Systems; complete; as per Electrical Services Drawing Nr. 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and Specification <u>The electrical contractor shall be responsible for the supply, cabling, installations, testing and commissioning of the complete CCTV system for the building as indicated on the drawings. The CTV system shall be an IP networked CCTV system and shall be installed and commissioned by the contractor. The electrical contractor shall allow for supplying all necessary power supplies and data points to the CCTV system installation as indicated on the drawings. A fully digital closed circuit television system shall be provided to ISEN50131/1 and IS199. Camera positions and type shall be as indicated on the drawings and as specified in these documents. Recording equipment shall be located in the admin office as indicated on the drawings. The contractor shall employ a suitability qualified ISIA company to install the CCTV system. The specialised CCTV contractor shall design, install and commission a fully digital closed circuit television system, which shall comply to ISO En50131/1 and IS199. The specialised CCTV contractor must be a suitably qualified ISIA company and NSAI accredited.</u>	1	Item			
B	supply, install, test and commission of CCTV System; complete; as per Electrical Services Drawings and Specification <u>System; supply, install and commission of the Intruder Alarm Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification</u>	1	item			
C	supply, install, test and commission of Intruder Alarm Installation; complete; as per Electrical Services Drawings and Specification	1	item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	PRIMARY EQUIPMENT <u>The contractor shall allow for the supply and installation of all smoke and heat detectors throughout the building as indicated on the drawings. All new detector heads shall include a condition indicating LED light and the smoke and heat detector sensors shall be complete with bases. Quantities and locations of devices as indicated on the drawings. The contractor shall supply necessary address flags and address labels for all devices. All new automatic fire detectors shall generally be of the optical smoke detectors type. These detectors shall have an address code setting and shall be addressable and suitable for an addressable fire alarm system. Separate addressable plugs for each detector and base with address number. The colour of detectors shall be white. Detectors to be of the optical point type unless otherwise indicated on the drawings and shall be in accordance with BS 5446-1, IS EN 54-7 and IS3218. Sensitivity of the smoke detectors shall be set by the main panel control software. Heat detectors to be of the type indicated on drawings and be in accordance with BS5446-2, IS EN 54-5 and IS3218:2024. Wiring used for detectors shall be in compliance with IS 3218:2024</u>					
A	Optical smoke detectors	10	Nr			
	<u>The contractor shall allow for the supply and installation of all combined heat/smoke detector and sounder heads throughout the building as indicated on the drawings. Each head shall include a condition indicating LED light and a suitable base for the sounder. All new detector heads shall include a condition indicating LED light and the smoke and heat detectors sensors shall be complete with bases. Quantities and locations of devices as indicated on the drawings. The contractor shall supply necessary address flags and address labels for all devices. Wiring used for detectors shall be in compliance with IS 3218:2024</u>					
B	New combined smoke detector and sounder for the fire alarm	9	Nr			
C	New combined heat detector and sounder for the fire alarm	1	Nr			
	<u>New smoke void detectors shall be installed in the building to protect the ceiling void as indicated on the drawings. Detectors above the ceiling shall be complete with remote monitoring indicating LED. Allow for installing detectors in the ceiling spaces and subsequent LED indicators in the ceiling below the detector. The contractor shall supply necessary address flags and address labels for all devices. Wiring used for detectors shall be in compliance with IS 3218: 2024</u>					
D	New smoke detector installed in ceiling void	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>The contractor shall include for the supply and fitting of new magnetic door holders which shall be linked/interfaced to the fire alarm system and power supply units as required. All magnetic door holders shall be completed with manual over-ride switches and power supply units. Door holders shall hold fire doors in the open position in normal operation, releasing the door to swing closed on fire alarm activation or loss of mains power. Door holders shall be wall mounted magnetic type, metal robust construction, supplied with 12 or 24 volt transformer and incorporating a release switch accessible from floor level. Each door holder shall be supplied with a receiver to be mounted on the door, with an articulated joint to ensure holding of the door by the wall magnet. Door holders shall be suitable for releasing fire doors, with rated power sizes of 4 for an 100mm door leaf with shear force of 80kg in accordance with european standards BS-EN: 1155.</u>					
A	Door holders	5	Nr			
	<u>The contractor shall allow for the supply and installation of all fire alarm interface units as indicated on the drawing and for the linking of these to the relevant systems as indicated. Interface units shall be provided as indicated on the system drawings. These shall have separate 230 volt supply provided to them. Short circuit isolators shall be installed where the loop wiring crossed a fire compartment wall and where the wiring enters another fire zone. In addition to the items above, the following items shall be connected and interfaced to the fire alarm system as a result interface I/O units will be required at all equipment; door access systems; MCC controls panel; gas detection system; lift; heat recovery systems. Wiring used for devices shall be in compliance with IS 3218:2024.</u>					
B	Fire alarm interface	7	Nr			
	<u>The contractor shall allow for installing a laminated A3 drawing of the fire alarm system installation and devices in the building at the main fire alarm panel location to indicate where all fire alarm devices are located throughout the building. This drawing shall indicate and identify the location of the fire alarm devices throughout the building i.e. on the alarm panel if it identifies that the device 45 has gone into alarm, you should be able to see on the drawing where device 45 is located.</u>					
C	A3 fire plan	1	Nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>The contractor shall allow for the supply and installation of all manual call points as indicated on the drawing. The supply and installation of the manual call points shall comply with the following standards: IS EN 50130-4, IS En 54-11 and IS 3218. All manual call points shall be fully resettable type via key operation. Break glass units will not be accepted as all manual call points shall be PVC. All call points shall be supplied c/w surface mounting back box to suit. Call points to be installed 1100mm from the finished floor level and 150mm from doorframes. Allow for installing plastic protective covers on all manual call points throughout the Warehouse area of the building. Wiring used for manual call points shall be in compliance with IS 3218:2024.</u>						
A	Manual call points	7	Nr			
<u>Install remote setting digital keypads in the locations as indicated on the drawings. Keypads shall be complete with digital display. Final location of keypads shall be decided in conjunction with the employer's representative. The keypads shall suit the intruder alarm system to be installed and shall adhere to the following specifications; wired version; ABS housing; Hinges lid and hinged cover; high speed keypad bus; graphics LCD with blue back-lighting; audible word library; built-in panic feature "press * and # together"; no DIP switch setting required; keyprox version available for BS8243; approximate size of 167mm x 125mm x 26mm; EN 50131-1 EN Grade 2; Environmental Class II</u>						
B	Combined proximity fob reader and keypad for the door access system	12	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>All AOV's control panels, fireman breakglasses. etc. shall be supplied by others but shall be handed over to the electrical contractor for installation and wiring. In total, there is 1 AOV control systems to be installed as indicated on the drawings. The electrical contractor shall allow for providing the following electrical attendances to the AOV control system; 13amp 230volt fused spur outlet power supply to each control panel. Height of the panel is highlighted on the drawings. Final location of the spur outlet to be confirmed by the AOV system installer; fire alarm interface (1/0 unit) from the fire alarm system to each AOV control panel at low level. Refer to section 68.01 for further information on the fire alarm interfaces. The door release facility for each system shall also be linked to the fire alarm system so that in the event of fire activation the respective doors shall open. Installation of the AOV control panel and fire man break glass unit in the locations as indicated for each AOV system. All control panels and break glass units shall be supplied by other and handed over free issue to the electrical contractor for wiring and installation; all necessary cabling from each AOV control panel to its associated AOV in the roof; all necessary cable containment for all power supplied to all control panels and fire alarm cabling between devices</u>					
A Emergency break glass unit for door access system	6	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>The electrical contractor shall allow for providing the following electrical attendances to the door access installation. Quantities and locations of all electrical attendances are as indicated on the drawings; 13amp 230volt fused spur outlet power supply at high level above door where each door access system is to be installed. This is for the power supply to the door access system controller. Height of the fused spur is highlighted on the drawings. Final location of the spur outlet to be confirmed in conjunction with the door access system specialist on site; CAT6 data point terminated in a RJ45 outlet to each door access system. Height of the data point is highlighted on the drawings. The CAT6 data point to each door access system shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. The data point for the door access system shall be wired in series back to the comms cabinet in conjunction with all the other data points for the door access systems. Final location of data point to be confirmed in conjunction with the door access system specialist on site; fire alarm interface (1/0 unit) from the fire alarm system to each door access controller at high level above the ceiling. The door release facility for each system shall also be linked to the fire alarm system so that in the event of fire activation the respective doors shall release; all necessary cable containment for all electrical attendances to each door access system; for each door access system the contractor shall allow for installing the necessary back boxes for the door release button, emergency break glass unit, proximity reader or keypad; for each door access system the contractor shall allow for installing the necessary conduit to the back boxes for the door</u>					
A	Attendances to access system <u>Final circuits (including points terminations) supply and installation; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>	1	Item			
B	circuits to Emergency call systems cabling	1	item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	<u>Fit internal network dome cameras in the building with the following specificationa; 4MP high resolution network dome camera; IP67; 3D DNR; 1 RJ45 10M/100M self-adaptive ethernet port; 30 meter IR distance; -30 degrees celsius to 60 degree celsius; Hikvision or equivalent. Allow for supplying the following in conjunction with the camera; the necessary brackets for wall or ceiling mounting the camera; allow for supplying and installing all junction boxes and all necessary accessories for installing all the cameras; any other items that the contractor deems necessary</u> Internal CCTV	6	Nr			
B	<u>Fit external network bullet cameras in the building with the following specification; 4MP high resolution network bullet camera; IP67; 3D DNR; 1 RJ45 10M/100M self-adaptive ethernet port; 30 meter IR distance; -30 degrees celsius to 60 degrees celsius; Hikvision or equivalent. Allow for supplying the following in conjunction with the camera; the necessary brackets for wall mounting or pole mounting the camera as advised by the supplier; allow for supplying and installing all junction boxes and all necessary accessories for installing all the cameras; any other items that the contractor deems necessary.</u> External CCTV camera	5	Nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
<u>The electrical contractor shall allow for providing the following electrical attendances to the CCTV system; Internal cameras in the building; 1 CAT6 data point terminated in a RJ45 outlet to each internal CCTV camera. Height of the data point is highlighted on the drawings. The CAT6 data point to each CCTV system installer. 1 13amp fused spur is highlighted on the drawings. The spur shall be supplied from the new electrical board in the building. Final location of the spur outlet to be confirmed by the CCTV system installer; supply and instalaaion of the CCTV camera and final connection of power supply and IT cable to the camera. External cameras on the building; 1 CAT6 data point terminated in a RJ45 outlet to each internal CCTV camera. Height of the data point is highlighted on the drawings. The Cat6 data point to each CCTV camera shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. Final location of the spur outlet to be confirmed by the CCTV system installer. Supply and installation of the CCTV camera and final connection of power supply and IT cable to the camera. Wall mounted CCTV monitors in the building. Wall mounted CCTV monitors in the building; 1 CAT6 data point terminated in a RJ45 outlet to each wall mounted CCTV monitor in the building. Height of the data point is highlighted on the drawings. The CAT6 data point to the CCTV monitor shall be supplied from the comms cabinet in the staffroom as indicated on the drawings. Final location of data point to be confirmed by the CCTV system installer. 1 13amo signle socket power supply to each CCTV monitor in the building. Height of the single socket is highlighted on the drawings. The socket shall be supplied from the new electrical boards in the building. Final location of the socket to be confirmed by the CCTV system installer. All cabling shall be run in galvanised steel conduit. Conduit runs serving wall mounted CCTV devices shall be provided at each of the CCTV cameras, monitors, multiplexer/recorder and video positions indicated on the drawings. CCTV cabling and devices shall be supplied and installed by the electrical contractor. The electrical contractor shall co-ordinate and optimise the location of the external light fittings with the external CCTV cameras. Where possible, the light source should be above and behind the camera. If this is not possible, the light source shall be at 90 degree to the main viewing axis of the main viewing axis of the camera. Proposed equipment layouts are as shown on the drawings, however all precise locations to be confirmed on site with the employer's representative. All mounting structures and brackets for all devices shall be included for in the tenderer's price.</u>					
A Attendances to CCTV system	1	Item			
				To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Intruder Alarm Installations Cabling</u>					
A	Intruder Alarm Cabling <u>Final circuits (including points terminations) supply and installation; including all wiring, concealed conduits, back boxes, glanding, terminating, earthing, bonding and the like etc required all as per Engineer's drawings and the Electrical Specification.</u>	1	Item			
B	circuits to intruder alarm system <u>Install PIR movement detectors as indicated on drawings. Detectors shall be dual technology type incorporating passive infra-red and microwave technologies, an remove walk test facility to enable routing testing. Movement detectors shall be of the Passive Infra-Red/Microwave "Dual Tec" type of sufficient range and coverage for areas indicated. They shall be suitable for Wall or Truss Mounting as appropriate. The sensor shall be suitable for the coverage of the perimeter window areas as indicated on the drawing. All alarm sensors shall be suitable for the areas and locations which they are installed and shall include full anti-tamper facilities. Dual technology sensors shall adhere to the following specifications; dual element pyro-electric sensor; X-band DRO based microwave; Optional lenses 18m and 30m; anti-masking detection; 0-1m adjustable mask detection; selectable EOL resistors; AND/OR technology; patented independent floating thresholds; blue wave technology; auto sensitivity feature; digital temperature compensation; triple LED indication; sealed optics; tamper proof brackets included; ABS plastic; tested and certified to IS EN 50131-2-4</u>	1	item			
C	Dual tech passive infra-red motion detection <u>Internal sounders shall be 12volt d.c. electronic "SQR Sounder". As "HKC HN8-ECHOFLR" low profile sounder complete with strobe or equivalent. Sounders shall be configured to silence after 30 minutes in operation. Interanl sounders shall adhere to the following specification; High output dual piezo; variable volume control; housing with tamper switches; sounder shall come with strobe (red or blue). Strobe and sounder shall adhere to the following specifications; 120mA strobe current; 135mA siren current; 1W strobe; EN50131-4; EN Grade 2; Environmental Class II</u>	4	Nr			
D	New internal alarm sounder	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Magnetic reed contacts for external doors and windows where indicated on the drawings shall be of the double reed magnetic type with shock sensors as required.</u>					
A	Intruder alarm door contact	6	Nr			
B	Intruder alarm window contact	12	Nr			
	<u>All intruder alarm cabling to devices and between intruder alarm panels shall be 6-core security alarm cable and shall adhere to the following specifications; 6-core; white jacket colour; maximum resistance less than 155 Ohm/km; BS4737-3.30:2015 Type 3 (Yellow Rip Cord); voltage rating 50Vrms; jacket material lead and tin free PVC; PVC insulation- BS EN 50636-3 TI 1; PVC sheathing- BS EN 50636-4.1 TM1; conductor material tinned copper; external diameter 3.8mm</u>					
C	Intruder alarm cabling	1	Item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
D	identification plates, labels and the like; as Engineer's specification	1	item			
	<u>Testing</u>					
E	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
F	commissioning as detailed in Engineer's specification	1	item			
G	warranty requirements as detailed in Engineer's specification	1	item			
	<u>Operation and maintenance manuals</u>					
H	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	<u>Drawing preparation</u>					
J	working drawings	1	item			
K	co-ordination drawings	1	item			
L	as-built drawings	1	item			
					To Collection €	

BQ/439

BQ/440

(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS

Description	Qty	Unit	Rate	€	c
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS					
NOTES Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Mechanical & Electrical Engineer's Drawings / Specification Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5. The Contractor shall allow for the full and complete provision of the works associated with these items, including all labour, materials, equipment, cabling, containment, accessories, testing and commissioning, as required by the Contract Drawings and Services Engineer's Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5. The Contractor shall note that notwithstanding the quantities included in this Bill of Quantities, the tendered sum shall be deemed to include for the full and complete execution of the works as described in the Services Engineer's Specifications, Drawings and Schedules. The Contractor shall ensure that all plant, equipment, fixtures, ductwork, pipework, valves, dampers, controls, insulation, supports, builders' work interfaces and ancillary items, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning mechanical services installation. The Contractor shall not be entitled to additional payment for any item omitted from the BoQ quantities where such item is clearly required by the drawings and/or specifications.		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
Information generally						
1. It is brought to the Contractors attention that the proposed alterations to the existing building are SEN's and as such particular attention should be paid to the requirement for concealed pipework and recessed radiators together with any other requirements for an SEN Unit as detailed in the Mechanical & Electrical Engineer's Drawings / Specifications and as demanded by the requirements of a typical SEN unit.			Note			
2. Allow for bringing and removal on completions all plant required for this element of work			Note			
3. Contractor to include in his tender sum for all general and special attendances required on his mechanical sub-contractor			Note			
<u>Testing & Commissioning of Electrical Systems</u>						
A	Testing, inspection and commissioning of all electrical services installations, including power distribution, lighting, emergency lighting, fire alarm, security, communications and associated controls, complete to demonstrate full compliance with the Contract Drawings, Specifications and relevant Irish Standards.	1	Item			
B	Testing, inspection and commissioning of all electrical services installations, including power distribution, lighting, emergency lighting, fire alarm, security, communications and associated controls, complete to demonstrate full compliance with the Contract Drawings, Specifications and relevant Irish Standards.	1	Item			
C	Provision of all test results, certification and commissioning records, including ETCI / Safe Electric certification, subsystem certificates and specialist system certificates, as applicable.	1	Item			
D	Attendance during commissioning of specialist systems, allowing for coordination with manufacturers, suppliers and system specialists where required by the specification.	1	Item			
E	Attendance at witness testing by the Employer's Representative and provision of all required test certificates and commissioning documentation	1	Item			
<u>Operation & Maintenance Manuals and Handover</u>						
F	Preparation, submission and handover of Operation and Maintenance (O&M) Manuals for the complete electrical installation, compiled in accordance with the specification and contract requirements.	1	Item			
					To Collection €	

COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS

Description		Qty	Unit	Rate	€	c
A	O&M Manuals to include, as a minimum; As-installed drawings and schematics; Equipment schedules and manufacturers' data sheets Test certificates and commissioning records System descriptions and control philosophies Maintenance requirements and recommended servicing intervals Warranty information and contact details	1	Item			
B	Provision of client instruction and demonstration for all electrical systems, including lighting controls, fire alarm, security systems and specialist installations, delivered at agreed times prior to handover.	1	Item			
C	Final handover of electrical services, including submission of all documentation, certification, training records and confirmation that systems are fully operational and compliant.	1	Item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/441 Page No. BQ/442 Page No. BQ/443 (69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS Carried to Summary					

BQ/445

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/445 (59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS EXTENSION Carried to Summary					

BQ/447

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/447 BUILDING FITTINGS Carried to Summary					
BQ/448					

Description		Qty	Unit	Rate	€	c
<u>(74) SANITARY FITTINGS GENERALLY</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the new sanitary fittings required within the existing SEN and Mainstream classrooms. These works will largely be carried out within a live environment and all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<u>Supply and Fit the following sanitary fittings; All Products below available through SONAS or equal approved products and should refer back to their specification.</u>						
Fittings; changing place sanitary ware; as per Architects drawings and specification						
A	sanitary ware; Sonas or Equivalent Close Coupled Doc M WC; Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces; Refer to product data sheet for alternative options where required. Refer to Product Data Sheet in Appendix	1	nr			
B	sanitary ware; Padded Doc M Shower Seat (Dark Blue); Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces. refer to product data sheet for alternative options where required. Refer to Product Data Sheet in Appendix	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	sanitary ware; Height Adjustable Wall Mounted Wash Basin for Changing Place, with height adjusting Mirror and Soap Dispenser Refer to Product Data Sheet in Appendix	1	nr			
B	special purpose; 450mm Grab rails with concealed fixings - 600mm (white); Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces; Refer to product data sheet for alternative options where required.	1	nr			
C	special purpose; 600mm Grab rails with concealed fixings - 600mm (white); Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces; Refer to product data sheet for alternative options where required.	4	nr			
D	special purpose; Stainless Steel Lift & Lock Hinged Support Rail 650mm; Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces. Refer to product data sheet for alternative options where required.	4	nr			
E	special purpose; Paper Towel Dispenser (Satin Finish); Refer to Product Data Sheet in Appendix	1	nr			
F	special purpose; Toilet Roll Holder (Satin Finish); Refer to Product Data Sheet in Appendix	1	nr			
	<u>Supply and Fit the following sanitary fittings; All Products below available through SONAS or equal approved products and should refer back to their specification.</u>					
	Fittings; universal access toilets; sanitary ware; as per Architects drawings and specification					
G	sanitary ware; Sonas or Equivalent Close coupled Doc M Pack; Note: Product code varies based on the railing colour for TGD Part M Visual contrast with the wall surfaces. Refer to product data sheet for alternative options where required; Refer to Product Data Sheet in Appendix	3	nr			
H	special purpose; Soap Dispenser (Satin Finish) Refer to Product Data Sheet in Appendix	3	nr			
J	special purpose; Paper Towel Dispenser (Satin Finish) Refer to Product Data Sheet in Appendix	3	nr			
K	special purpose; Toilet Roll Holder (Satin Finish) Refer to Product Data Sheet in Appendix	3	nr			
L	special purpose; Single Clothes Hook (Dark Blue)	3	nr			
M	special purpose; Mirror 1000 x 400mm, polished edges	3	nr			
					To Collection €	

BQ/451

BQ/452

BQ/453

BQ/454

Description		Qty	Unit	Rate	€	c
<u>(71) DISPLAY, CIRCULATION FITTINGS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the permanent signage requirements associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<u>0.03 Aluminium laminate sign face applied to 1/8 thick black acrylic; Sign face includes raised text and silver metal braille beads. Available Finishes: Brushed Aluminium / Satin Aluminium; proposed signage to be bonded directly to wall / door with adhesive, location TBC by architect; colours & text design TBC by Architect prior to manufacture; contractor to provide drawings for approval prior to manufacture; no lighting to be included.</u>						
Fittings						
A	signage; 125mm x 300mm	22	nr			
B	signage; 200mm x 300mm	4	nr			
					To Collection €	

BQ/456

Description	Qty	Unit	Rate	€	c
<u>(76) STORAGE, SCREENING FITTINGS</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included		Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
Information generally					
1. The work measured hereunder refers to the fitted furniture requirements associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
				<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>Class Base Classroom Craft Sink Unit; 19.4mm SWISSCDF or equivalent woodfibre boards with all edges sealed with rubio clear dry Oil PURE or equivalent - this must be applied to all edges; all kitchen unit carcass shelving to consist of white melamine birch ply at 18mm thickness; all carcasses are to be elevated from the floor level with a 150mm base constructed beneath units to accommodate any services, faced with SWISSCDF or equivalent 19.4mm as per units; colour of which to be confirmed; all doors to consist of 18mm birch plywood with high pressure POLYREY DURION CLASSIQUE HPL or equivalent facing with birch edges exposed sealed and finished with a suitable lacquer/ seal to prevent moisture damage and any other damage; facings: All SWISSCDF or equivalent 19.4mm with all edges sealed with Rubio clear dry oil PURE or equivalent; 170 x 35mm D handles 10mm diameter by Hafele or equivalent (Ref 117.40.640) brushed stainless steel; Heavy-duty stainless-steel hinges & Door soft closers to be included BLUM or equivalent; 38mm x 600mm omega white quartz Hi-gloss ice white laminate with rounded EDGE profile; anti-fungal mastic joint between splashback and worktop; refer to Architects joinery drawing T403 for details.</u> Equipment					
A	special purpose Mainstream Classroom Kitchen Units; 3000mm wide x 760mm high x 625mm depth	1	nr			
	<u>Extra over</u> the above for					
B	Sonas or equivalent sink pack, inset stainless steel 1.5 bowl and drainer complete with dual control sink 1 taphole mixer, hal inch basket strainer waste range or equal approved ncluding all plumbing, traps etc.; Contractor to measure on site & confirm dimensions prior to ordering of materials	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>SEN Classbase Storage Unit; proposed storage unit to be constructed using 18mm FSC certified MDF with formica facing to top, sides and back, colour tbc by architect prior to manufacture of storage unit; all frame fixings to be concealed throughout; formica carcass colour polar white; all carcasses are to be elevated from the floor level with a 150mm base constructed with kick boarding with formica finish; 2no. shelves consisting of 18mm FSC certified MDF with formica facing, supported off powder coated heavy-duty steel adjustable shelving racks fixed to storage unit frame; 1 no. shelf consisting of 18mm FSC certified MDF with formica facing shall be provided in base unit; formica shelving colour polar white; 4 part sliding door system to consist of 18mm FSC certified MDF with formica facing with 6mm bulletin board material fixed to external face of all doors; proposed aluminium sliding rail system to include top and bottom aluminium rails. 4 no. recessed brushed stainless steel handles; the use of melamine faced chipboard will not be permitted in any circumstances; units to comply with BS 6222 and BS EN 1153 & structural performance to BS 6222:part 2, grade H. Surface finishes performance to BS 6222:part 3 & worktop classification to BS 6222:part 3, type 2; refer to Architects spec.</u> Equipment					
A	storage; 1500mm wide x 600mm deep x 760mm high lockable base unit	1	nr			
B	storage; 1500mm wide x 400mm deep x 1440mm high sliding door storage upper unit	1	nr			
	<u>Proposed storage unit to be constructed using powder coated steel frame with bracings at the sides securely fixed; colour tbc by Architect prior to manufacture of storage unit; 4no. shelves to consist of 18mm OSB board shelves with surrounding powder coated steel frame; the steel frame to be supported off storage unit frame; the use of melamine faced chipboard will not be permitted in any circumstances; units to comply with BS 6222 and BS EN 1153 & structural performance to BS 6222:part 2, grade H; surface finishes performance to BS 6222:part 3 & worktop classification to BS 6222:part 3, type 2; formaldehyde levels to conform to type class E1 of product standard EN622-1; refer to Architects joinery drawing T403 for details.</u> Equipment					
C	storage; 2100mm wide x 600mm deep x 2000mm high	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Office Fitted Furniture (storage); proposed storage unit to be constructed using 18mm FSC certified MDF with formica facing to top, sides and back, colour tbc by Architect prior to manufacture of storage unit; all frame fixings to be concealed throughout; 3no. shelves to consist of 18mm FSC certified MDF with formica facing, supported off powder coated heavyduty steel adjustable shelving racks fixed to storage unit frame; 4 part sliding door system to consist of 18mm FSC certified MDF with formica facing with with 6mm bulletin board material fixed to external face of all doors; proposed aluminium sliding rail system to include top and bottom aluminium rails; 4 no. recessed brushed stainless steel handles the use of melamine faced chipboard will not be permitted in any circumstances; units to comply with BS 6222 and BS EN 1153 & structural performance to BS 6222:part 2, grade H; surface finishes performance to BS 6222:part 3 & worktop classification to BS 6222:part 3, type 2; formaldehyde levels to conform to type class E1 of product standard EN622-1; refer to Architects joinery drawing T403 for details.</u>					
	Equipment					
A	storage; 3500mm wide x 600mm deep x 850mm high lockable base unit	1	nr			
B	storage; 3500mm wide x 400mm deep x 1350mm high shelving upper unit	1	nr			
	<u>Coat rail 3000mm minimum length suitable for 30 no. coats, fixed 1000-1200mm above F.F.L in each mainstream class base in proposed rear extension; refer to Architects floor plans for location in each classroom.</u>					
	Furniture, furnishings, details stated					
C	special purpose; coat rail 3.0m long	1	nr			
	<u>Magnetic white boards, fixed 800-900mm above F.F.L, where an interactive board is being supplied (by others) the white board should be reduced to 2400 x 1200mm in each mainstream class base in proposed rear extension.</u>					
	Furniture, furnishings, details stated					
D	special purpose; 2400 x 1200mm non-interactive	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Notice board in each mainstream class base in proposed rear extension.; refer to Architects floor plans for location in each classroom.</u>					
	Furniture, furnishings, details stated					
A	special purpose; 2400 x 1200mm notice board	1	nr			
	<u>38mm x 600mm Laminate workstation with rounded edge profile to be provided in each mainstream classroom as indicated on Architects proposed floor plans.</u>					
	Furniture, furnishings					
B	special purpose; Teacher Desk	1	nr			
	<u>Sluice sink units shall consist of 18mm FSC Certified MDF Woodfibre boards with all edges sealed with Rubio Clear Dry Oil PURE or equivalent - this must be applied to all edges; Sluice sink unit Carcass shelving to consist of White Melamine Birch Ply at 18mm thickness; all Carcasses are to be elevated from the floor level with a 150mm Base constructed beneath units to accommodate any services, faced with SWISSCDF or equivalent 19.4mm as per units; colour of which to be confirmed. doors to consist of 18mm Birch Plywood with high pressure POLYREY DURION CLASSIQUE HPL or equivalent facing with Birch Edges exposed sealed and finished with a suitable lacquer/ seal to prevent moisture damage and any other damage; Facings: All SWISSCDF or equivalent 19.4mm with all edges sealed with Rubio Clear Dry Oil PURE or equivalent; 170 x 35mm D handles 10mm diameter by Hafele or equivalent (Ref 117.40.640) brushed stainless steel; Heavy-duty stainless-steel hinges & Door soft closers to be included BLUM or EQA; 38mm x 600mm Omega White Quartz Hi-gloss Ice white Laminate with rounded EDGE profile; Anti-fungal mastic joint between splashback and worktop; shelving 350mm depth, 2000mm height, refer to plan for length; Frame material: steel; no. of shelves: 5 tier, 12mm plywood shelves; shelving to be fixed to perimeter walls with mechanical fixings; refer to Architects drawing T403.</u>					
	Equipment					
C	storage; 2010mm wide x 600mm deep x 2200mm high	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> for					
A	High back cleaners sink to proposed sluice room; Stainless Steel Sink Packs with drainer section with suitable 1 x Single lever Mixer Tap as indicated at all sink stations/ locations on the Architects drawings; all sinks to include sealed plastic bottle traps; all sinks shall have a second Drinking water tap included.	1	nr			
	<u>Sluice room shelving; Contractor to provide Heavy duty commercial type shelving as indicated on proposed floor plan T105 - Proposed Floor Plan; Size: 350mm depth, 2000mm height, refer to plan for length; Frame material: steel; No. of shelves: 5 tier, 12mm plywood shelves Shelving to be fixed to perimeter walls with mechanical fixings; refer to Architects specification for details.</u>					
	Fittings					
B	special purpose; 2000mm wide x 350mm deep x 2200mm high	1	nr			
	<u>Contractor shall provide and install appliances to proposed sluice room, installed in a stacked arrangement within proposed joiner unit; Proposed Appliances shall be Energy efficiency Class A; Proposed appliances shall include a minimum 9kg drum; Equipment shall be Durable and Safe for School Use; refer to Architects specification for details.</u>					
	Equipment					
C	special purpose; freestanding type washing machine	1	nr			
D	special purpose; freestanding type Drier	1	nr			
	<u>High back cleaners sink complete pack with 310mm high splash back. Includes legs & bearers, cantilever brackets, bucket grating, 1.5 inch unslotted grid waste CP, 0.5 inch lever action* bib taps and 150mm extension tubes and wall plates (*cross head bib taps available); material : Enamelled Fireclay; Colour : White; Manufacture: Twyford Bathrooms or equivalent; Fixing: Legs and bearers with sink screwed to wall included; Product Dimensions: H525 x W470 x D400; Standards : EN 13310; Additional Information: Screw to wall brackets are not suitable to support this fixture; Build in brackets can be used when fixing to masonry walls. Overall height including legs 830mm.</u>					
	Fittings					
E	sanitary; 525 x 470 x 400mm deep	1	each			
To Collection €						

BQ/463

BQ/464

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/464 *****SITEWORKS***** Carried to Summary					
BQ/465					

Description	Qty	Unit	Rate	€	c
<u>(10) PREPARED SITE</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
Information generally					
1. The work measured hereunder refers to site preparatory works associated with the new extension, including works outside the boundary of the site. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
2. It is imperative that all tendering Contractors carry out an extensive and detailed site visit to familiarise themselves with the conditions and restrictions that all elements of the demolition, alteration and new work will be carried out in accordance with; Contractor to include in his / her rates herein for the nature of the site.		Note			
3. Demolition work shall be carried out in accordance with B.S. 6187.		Note			
4. Protect the public and occupiers of adjoining properties by erection of temporary fences, warning lights, etc before commencing work.		Note			
5. Notify all service authorities and / or owners of adjoining property, not less than one week before commencing operations.		Note			
6. Locate and mark the position of services affected by the work; arrange with the appropriate authorities for the location and marking of the position of mains services.		Note			
7. Prior to demolitions measured hereunder any Specialist Contractor executing the works will have to be approved by the Architect / Engineer for the project (e.g. asbestos removal Subcontractors).		Note			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
8. The Contractor must allow for all necessary segregation of demolition waste and disposal of same in suitably registered tips; including all necessary certificates, licences and permits; all in accordance with current Department of Environment regulations.			Note			
9. Removals and disposal shall be the full responsibility of the Contractor and shall be carried out in full compliance with The Waste Management Act 1996 and all Regulations thereunder; the European Communities (Protection of Workers) / (Exposure to Asbestos) Regulations, 1989 to 2000; the Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 and in accordance with the requirements of the Local Authority.			Note			
10. The rates quoted hereunder for demolition or alteration of existing structural elements will be deemed to INCLUDE for all necessary propping and shoring of overhead or surrounding structures during the operation.			Note			
11. The Contractor should note limitations on working hours identified in the Preliminaries Section of the Pricing Document.			Note			
<u>DEMOLITION AND ALTERATIONS</u>						
DEMOLITION						
<u>Contractor to allow for the removal of existing section of front boundary wall as indicated on architects demo plan; refer to Architects proposed site layout for layout of new boundary wall</u>						
Demolishing individual structures						
A	boundary wall; 1200mm high approximetally	42	m			
<u>Allowance for decommissioning of existing surface and foul drainage and allowing for diversions during the works; removal of all existing pipework; including all excavating, disposal off site, grubbing up and filling with suitable imported fill material; all in accordance with the tender documentation that accompany this Pricing Document; refer to Engineers drawing T1000 for locations.</u>						
Removing						
B	mechanical installations; surface water drainage diversion and removal	1	nr			
C	mechanical installations; foul water drainage diversion and removal	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	ALTERATIONS					
	<u>Contractor to allow for the removal of existing vehicular and pedestrian gates; refer to architects proposed site plan for the location of the new vehicular and pedestrian access gates.</u>					
	Removing					
A	fittings and fixtures; entrance gates	1	nr			
B	fittings and fixtures; pedestrian gates	1	nr			
	<u>Existing 4no. flag poles to be removed and disposed off site.</u>					
	Demolish and remove					
C	fittings and fixtures; 4 no. flag poles	1	item			
	<u>Contractor is to allow for the removal of existing bike racks; including breaking out, disposal off site to a certified disposal facility, making good surrounds; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
D	fittings; bike racks	1	nr			
	<u>EXCAVATION AND EARTHWORK</u>					
	EXCAVATION					
	<u>Contractor to fully remove tree including stump and roots to allow for proposed extension; including disposal.</u>					
	Removing					
E	girth exceeding 450mm not exceeding 1500mm; back fill will excavated top soil	18	nr			
	<u>Excavation</u>					
	Topsoil for preservation					
F	average depth 200mm	856	m2			
	Reduce levels					
G	not exceeding 2.00m deep (soft play area)	32	m3			
H	not exceeding 2.00m deep (bike shelter area)	18	m3			
J	not exceeding 2.00m deep (ramp and steps area)	8	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	not exceeding 2.00m deep (gas tank plinth)	4	m3			
B	not exceeding 2.00m deep (concrete areas)	248	m3			
C	not exceeding 2.00m deep (tarmacadam areas)	238	m3			
	<u>Extra over</u> excavation for underground services					
D	breaking up existing; hard surfaces; concrete footpath and paved areas	731	m2			
	FILLING					
	<u>Hardcore; clause 804 material certified pyrite free in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u>					
	Filling; to make up levels					
E	average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	287	m3			
					To Collection €	

BQ/470

Description		Qty	Unit	Rate	€	c
<u>(20) SITE STRUCTURES (SOFT PLAY AREA)</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the soft play area. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>Excavation</u>						
<u>Hardcore formed to give a 1: 50 falls from the centre of the play area to the outside edges; 225mm min. sub-base layer compacted hardcore to clause 804; in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u>						
Filling; clause 804						
A	average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	11	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>400mm min. 6F2 capping layer; in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u> Filling; 6F2 capping layer A average thickness exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification <u>ROOFING, CLADDING AND WATERPROOFING</u> MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS <u>Thrace 40/40 geogrid or equivalent under subbase layer; in accordance with Engineers Specification.</u> Geotextile membranes B horizontal; exceeding 300mm wide <u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u> IN-SITU SURFACE PAVINGS <u>Wearing course / layer is constructed from a 1-4mm EPDM (ethylene propylene diene monomer) rubber course 20mm; base layer or shock pad layer (30mm) is constructed from 2-6mm SBR (styrene butadiene rubber) rubber crumb, which is screeded to the appropriate depth and allowed to cure; level access is to be provided at all gate along the perimeter area; refer to Architects Specification 72.</u> Soft Play C 20mm EPDM; 30mm shock pad layer	19	m3			
		48	m2			
		48	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	FENCING					
	<u>Paladin Anti Climb fencing to proposed external secure soft play area as indicated on architects proposed site & below specification; To BS1722-14 category 1; Irfen Paladin Mesh Fence System is a striped mesh using 6mm horizontal wire generally at 195mm centres reducing to 50mm centres on the v crimp; it has 4mm wires structured with 2 wires at 40mm centres and 4 wires at 24mm centres to give the striped effect; finished in Polyester Powder Coating to BS 6497; Posts: 60 x 60 x 2mm galvanised and subsequently electrostatically powder coated in a plant complying to EN 1722Part 16; Post Centres: Maximum 3030mm; Fixings: Irfen Steel Clips with 8mm Anti Vandal Bolts; erect posts plumb and level in 25n concrete bases minimum size 350 x 350 x 600mm or as recommended by supplier, set 100mm below ground level; submit manufacturers and installer certificates to BS 1722-14</u>					
	Fencing					
A	Paladin Anti Climb fencing; 2400mm high	20	m			
	<u>Extra over</u> the above for					
B	1200 x 2400mm high pedestrian single leaf gate to be included and connected on keypad; note the proposed external gate must have a fail-safe connection to the fire alarm system which will allow the gate to be manually opened upon activation of the fire alarm system.	1	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/471 Page No. BQ/472 Page No. BQ/473 (20) SITE STRUCTURES (SOFT PLAY AREA) Carried to Summary					
BQ/474					

Description		Qty	Unit	Rate	€	c
<u>(20) SITE STRUCTURES (BIKE SHELTERS)</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase “or equivalent” is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the new bike shelter. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>350mm 6F2 capping stone layer in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness</u>						
Filling; 6F2 capping stone						
A	to make up levels; average thickness not exceeding 250mm	9	m3			
<u>150mm sub-base layer compacted hardcore to clause 804; in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u>						
Filling; clause 804						
B	to make up levels; average thickness not exceeding 250mm	4	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Proposed concrete base to be provided in the locations indicated on architects site plan; provide reinforced In-situ concrete; grade C40N20; slab edges to be bullnosed with float finish including working around AJ covers, manhole covers, gully traps etc.; refer to plan to see extent of new pathways; in accordance with Engineers Specification.</u>					
	Slab					
A	not exceeding 150mm	4	m3			
	SUNDRIES					
	<u>20mm PVC Movement Joint Beads (Expansion Joints); Exterior grade impact resistant UV stable unplasticized PVC; 13mm exposed width and 25mm wings each side; 18-22mm render depth.</u>					
	Designed joints					
B	movement joint cut in concrete; including mastic sealant or equal and approved sealant	4	m			
	<u>Surface finish to slabs to Engineer's approval</u>					
	Surface finishes					
C	brushed; to falls and crossfalls	24	m2			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
D	laps and reference (6.16kg/m2) stated; horizontal	24	m2			
	FORMWORK					
	<u>Formwork; generally; finish as Architects specification</u>					
	Edge of beds					
E	not exceeding 250mm high	20	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Thrace 40/40 geogrid or equivalent under subbase layer; in accordance with Engineers Specification.</u>					
	Geotextile membranes					
A	horizontal; exceeding 300mm wide	24	m2			
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>Proposed Bicycle Shelter to be galvanised steel frame unit with powder coated finish; RAL colour finish TBC by architect prior to purchase; Proposed Malford Cycle Shelter to be made of 6no. bays, each bay to be size of 4800mm (L) x 2400mm (H) x 4500mm (W); Total length of the Shelter to be 14400mm; Civil Engineer to determine suitable fixing method; The Shelter to be surface fixed or bolted down below finished grade; Fixing bolts by others - 14 mm dia. holes (use M12 bolts); Size of concrete foundation and concrete mix to be determined on site taking ground conditions into account and any risk of wind exposure; Number of bays can be matched to cycle parking requirements, specify in coding method; Roof covering in 10 mm Twinwall opaque polycarbonate; Cycle rack shown is the Sheffield Toast Rack (MCR201) to BREEAM 2006 (20 cycles per bay) also available to BREEAM 2008 on request (16 cycles per bay) Refer to Langley Design detail and specification for Proposed bicycle parking, Shelters and associated works; Proposed layout is to be approved and signed off by architect before installation; refer to Architects drawing for details.</u>					
	Fittings					
B	special purpose, details stated; bike shelter; 4800mm x 4500mm x 2400mm high	1	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Sheffield bicycle rack specification; Stainless Steel stand to be built with 50mm diameter stainless steel frame; 1no. head stand, allowing for maximum 2no. bicycle capacity; 800mm total height, with 150x150mm rectangular base; base is mechanically bolt-down fixed to the ground surfac; shop drawings to be submitted to architect before manufacture for approval; refer to Architects drawing for details.</u>					
	Fittings special purpose, details stated; Sheffield bike stands; 800mm height X 650mm wide x 750mm c/c apart	10	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/475 Page No. BQ/476 Page No. BQ/477 Page No. BQ/478 (20) SITE STRUCTURES (BIKE SHELTERS) Carried to Summary					
BQ/479					

Description		Qty	Unit	Rate	€	c
<u>(20) SITE STRUCTURES (RAMPS)</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the new external ramps. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>300mm clause 808 compacted hardcore layer in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness</u>						
Filling; clause 808 hardcore						
A	average thickness exceeding 250mm	8	m3			
<u>150mm sub-base layer compacted hardcore to clause 804; in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u>						
Filling; Clause 804						
B	average thickness not exceeding 250mm	4	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Proposed concrete base to be provided in the locations indicated on architects site plan; provide reinforced In-situ concrete; grade C40N20; slab edges to be bullnosed with float finish including working around AJ covers, manhole covers, gully traps etc.; refer to plan to see extent of new pathways; in accordance with Engineers Specification.</u>					
	Paths					
A	not exceeding 150mm thick	3	m3			
	Stairflight (1nr)					
B	1300mm wide; 3nr 185mm high risers	1	m3			
	Upstands and the like					
C	cross sectional area not exceeding 0.10m2	1	m3			
	SUNDRIES					
	<u>Surface finish to slabs to Engineer's approval</u>					
	Surface finishes					
D	power floating to falls	24	m2			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
E	laps and reference (6.16kg/m2) stated; horizontal	24	m2			
	FORMWORK					
	<u>Formwork; generally; finish as Architects specification</u>					
	Edge of beds					
F	not exceeding 100mm high	28	m			
	Sides of upstands and steps in top surface					
G	height not exceeding 250mm	4	m			
H	height exceeding 500mm	16	m2			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>METALWORK</u>						
NON STRUCTURAL						
<u>50mm diameter Galvanised Steel & Powder Coated finish;</u> <u>Handrails to be provided 900mm along with a 2nd lower 50mm</u> <u>handrail mounted at 600mm (over ramp/landing levels); all</u> <u>lower handrails shall be fixed with a cranked support</u> <u>brackets mounted to the underside of the proposed handrails;</u> <u>there shall be 50mm clearance between the handrail and the</u> <u>supporting surfacing; all Handrails to extend a minimum of</u> <u>300mm past the top and bottom edges of ramps; proposed</u> <u>handrail shall be continuous between flights and level</u> <u>landings; all proposed railing shall include infill guard</u> <u>railing consisting of 70x 15mm galvanised steel framing with</u> <u>12mm diameter vertical galvanised steel rods (circular), the</u> <u>guarding shall be constructed that a 100 mm diameter sphere</u> <u>cannot pass through any openings; 1100mm Guardrail shall be</u> <u>provided to edge of new landing area (connected to new</u> <u>access railing); refer to Architects drawings for design</u> <u>drawings and setting out; Shop drawings to be submitted to</u> <u>Architect before manufacture for approval, any external</u> <u>ramps and railing systems which are not in compliance with</u> <u>the Current Irish Building Regulations will not be approved</u> <u>by the Architect and will need to be regularized at the</u> <u>contractors expense; Finish: Galvanised to BS EN ISO 1461 &</u> <u>polyester powder coated, RAL colour TBC by Architect.</u>						
Composite Items						
A	balustrade; 900mm high; raking	5	m			
B	balustrade; 900mm high; horizontal	3	m			
C	handrail; 600mm high; raking	5	m			
D	handrail; 600mm high; horizontal	3	m			
Extra on balustrades, handrails or railings for						
E	ends	4	nr			
F	ramps	4	nr			
<u>50mm diameter stainless steel handrail; 12mm diameter</u> <u>stainless steel support welded to 8 x 50mm diameter</u> <u>mildsteel plate screw fixed to the wall;</u>						
Composite Items						
G	balustrade; 900mm high; raking	5	m			
H	balustrade; 900mm high; horizontal	3	m			
					To Collection €	

BQ/483

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/480 Page No. BQ/481 Page No. BQ/482 Page No. BQ/483 (20) SITE STRUCTURES (RAMPS) Carried to Summary					
BQ/484					

Description		Qty	Unit	Rate	€	c
<u>(20) SITE STRUCTURES (GAS TANK COMPOUND)</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the new bike shelter. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>Filling; to make up levels; Sub-base layer compacted hardcore to clause 804 type B material; to Engineers Specification.</u>						
Filling						
A	average thickness; exceeding 250mm	2	m3			
<u>CONCRETE WORK</u>						
IN-SITU CONCRETE						
<u>Provide 150mm thick 37.5N air entrained paving quality concrete base; in accordance with Engineers Specification</u>						
Slab						
B	not exceeding 150mm	1	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	FORMWORK					
	<u>Formwork generally; Type A plain non-fair faced finish</u>					
	Edge of beds					
A	not exceeding 250mm high	13	m			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
B	horizontal; foundations	8	m2			
	SUNDRIES					
	<u>Surface finishes</u>					
C	powerfloating	8	m2			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>1.8mm 1000 gauge geotextile membrane; 300mm laps as required; as Engineers Specification</u>					
	Sundries					
D	separating membrane	8	m2			
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>					
	FENCING					
	<u>Tank compound must be surrounded by a fence of minimum height 1800mm and located 1000mm from the tank; fence shall be 12 gauge 52mm x 52mm welded mesh or chain link steel fence; include for all required ground work support for a structurally secure fence.</u>					
	Fencing					
E	1800mm high	22	m			
	<u>Extra over</u> the above for					
F	gate to be installed in fence for gas compound; gate must open outwards and be non self lockingm.	1	nr			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/485 Page No. BQ/486 (20) SITE STRUCTURES (GAS TANK COMPOUND) Carried to Summary					

Description		Qty	Unit	Rate	€	c
(30) SITE ENCLOSURES (BOUNDARY WALL AND GATES)						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to site enclosures. Construction of these works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>EXCAVATION AND EARTHWORK</u>						
EXCAVATION						
<u>Excavation</u>						
Foundation trenches						
A	not exceeding 2.00m deep	21	m3			
Isolated pits						
B	not exceeding 2.00m deep	22	m3			
Disposal						
C	surface water; keep the surface of the site free of surface water	1	Item			
D	ground water; keeping the excavations free of ground water	1	Item			
E	excavated material; off-site	43	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Unreinforced in-situ lean mix concrete; Grade C12/15 XC2; in accordance with Engineers Specification</u>					
	Bulk filling					
A	poured on or against earth or unblinded hardcore	2	m3			
	<u>Reinforced in-situ concrete; Grade C28/35; vibrated; in accordance with Engineers Specification</u>					
	Foundations					
B	reinforced, poured against blinding layer	6	m3			
	Isolated foundations					
C	reinforced, poured against blinding layer	6	m3			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
D	horizontal; foundations	36	m2			
	FORMWORK					
	<u>Formwork generally; Type A plain non-fair faced finish</u>					
	Sides of foundations					
E	exceeding 250mm but not exceeding 500mm high	101	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BLOCKWORK					
	<u>Proposed new boundary wall shall consist of 215 x 100 x 440mm Solid blockwork; S7.5N/mm2 solid concrete block in M6 (II) mortar; Refer to T503 for a full extent and further details.</u>					
	Walls in trenches					
F	215mm wide	16	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Walls					
A	215mm wide	24	m2			
B	450mm wide	1	m2			
	Piers					
C	New masonry pillars to be constructed as 1000mm x 440mm x 440mm size and have new coping 565mm x 565mm x 100mm (150mm max height) on top of pillar.	8	nr			
	ANCILLARIES TO BRICKWORK / BLOCKWORK					
	<u>Expansion joints shall be provided at Max 6 centres consisting of the following; 20mm PVC Movement Joint Beads (Expansion Joints); Composition - Exterior grade impact resistant UV stable unplasticized PVC; Dimensions (mm)- 13mm exposed width and 25mm wings each side; Depth (mm) - 18-22mm render depth; Stock Colours- White</u>					
	Designed joints					
D	movement joints in 215mm blockwork	15	m			
	<u>STONework</u>					
	CUT NATURAL STONework					
	<u>Contractor shall provide stone wall coping with drips both sides to proposed new boundary wall, refer to Architects drawings for extents; Proposed capping shall match existing stone copings</u>					
	Coping					
E	330 x 330 x 85mm stone coping	27	m			
	Pier Cappings					
F	565 x 565mm wide	8	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>FLOOR, WALL AND CEILING FINISHINGS</u>					
	IN SITU FINISHES					
	<u>22mm External Sponge Finish Render to be applied to proposed boundary wall followed by paint finish to architects specification, colour to be confirmed by Architect prior to application; Render to be applied to concrete blockwork and shall consist of sand/cement scud coat, sand/cement float coat with final sponge finish; Proposed External Render shall consist of an overall thickness 22 mm to comprise of the following; 3-5mm thick 1:1.5-2 cement: sharp sand scud coat; 9mm 1:1:6 cement: lime: sharp sand scratch coat; 9mm 1:1:6 cement: lime: sharp sand float coat with textured finish to be agreed with the architect</u>					
A	Walls exceeding 300mm wide	62	m2			
	<u>Stainless steel accessories; fixing with plaster dabs or staples to blockwork/concrete backgrounds; all in accordance with Architects Drawings and Specification</u>					
B	Sundries like items; stop bead; "Expamet Ref 542" or equivalent	67	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Contractor shall apply 3 No. coats of DULUX trade Weather shield or equivalent to new External Render finish to both sides of proposed boundary wall; alternative paint brands shall be proposed to Architect and pricing of same is to be outlined as such in Tender Return; colours to be confirmed by Architect prior to application.</u>					
C	Walls exceeding 300mm wide	62	m2			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>						
FENCING						
<u>Proposed Electric Sliding Gate; Car entrance gate to be a motor operated sliding gate, made out of shs galvanised steel frame with infill solid round bars; gates frame to be 120 x 60mm galvanised steel with polyester powder-coated finish; selected ral colour, approved by architect; contractor to maintain clear width of 6000mm between masonry pillars; shs mitred corners with fully welded joints, infill to be affixed to frame by full welds; infilled with vertical 20mm diameter solid round bar; gate to be operated via motor on a sliding track; proposed gate to have single phase supply 240v, 50hz, 10amps motor; compliant to bs en 12453; 3 - 6 seconds per metre speed; shop drawings to be presented to architect prior to production commencement; to be provided with manual release mechanism which requires no tools in the event of power failure; refer to Architects drawing T504 for details.</u>						
Gates						
A	frame height 900mm; frame width 6000mm (not including engine & structural posts	1	nr			
<u>Extra over</u> the above for						
B	Contractor to include for level concrete base for sliding gate track to be installed on	1	nr			
C	Gate to be held by structural post and frames to allow for safety and stability to the gate	1	nr			
D	Contractor to include for fencing around automation box to prevent from any damage to motor as indicated in Architectural drawings	1	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Proposed pedestrian swing gate; proposed pedestrian entrance gate to be installed adjacent to car entrance; gate with new surrounding masonry pillars matching existing; new opening to provide clear width of 1500mm as indicated on the architects drawings; gates frame to be 80 x 80mm galvanised steel with polyester powder-coated finish; selected ral colour chosen by architect; shs frame with mitred corners to be fully welded joint, infill to be affixed to frame by full welds; infilled with vertical 20mm diameter solid round bar; gate to be fixed between 2no. 100 x 100mm galvanised steel posts with hangers and sliding bolt locking system; contractor to include for drop bolts and receivers, adjustable hangers and sliding bolt & drop bolts locking system; shop drawings to be presented to architect prior to production commencement; refer to Architects drawing T504 for details.</u> Gates frame height 900mm; frame width 1500mm	2	nr			
					To Collection €	

BQ/494

	Description	Qty	Unit	Rate	€	c
	<u>(40) ROADS, PATHS AND PAVINGS</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase "or equivalent" is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. The work measured hereunder refers to the concrete footpaths, car parking, associated with the car park extension. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
	<u>EXCAVATION AND EARTHWORK</u>					
	FILLING					
	<u>6F1/6F2 capping layer in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness; as per Engineers drawings and specification</u>					
	Filling; 6F1/6F2 capping layer					
A	average thickness; exceeding 250mm; concrete areas	134	m3			
B	average thickness; exceeding 250mm; tarmacadam areas	50	m3			
	<u>150mm thick granular sub-base material to Clause 804 of the NRA Specification for Roadworks which shall be spread and compacted to the required thickness; compaction shall be carried out in accordance with Clause 802 of the NRA Specification and in accordance with Table 8.1 of the Engineers specification</u>					
	Filling; Clause 804					
C	average thickness; not exceeding 250mm; concrete areas	58	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>150mm thick granular sub-base material to Clause 808 of the NRA Specification for Roadworks which shall be spread and compacted to the required thickness; compaction shall be carried out in accordance with Clause 802 of the NRA Specification and in accordance with Table 8.1 of the Engineers specification</u> Filling; Clause 808 average thickness; not exceeding 250mm; bituminous areas	60	m3			
A						
	CONCRETE WORK					
	INSITU CONCRETE					
	<u>150mm thick XF3 C25/30 concrete footpath with 1:60 crossfalls; path edges to be bullnosed with float finish including working around AJ covers, manhole covers, gully traps etc.; refer to plan to see extent of new pathways; all as per Engineers drawings and specification.</u> Paths not exceeding 150mm thick; reinforced	39	m3			
B						
	REINFORCEMENT					
	<u>Reinforcement fabric mesh; B142 mesh; as per Architects specification</u> Fabric horizontal	381	m2			
C						
	FORMWORK					
	<u>Formwork; generally; finish as Architects specification</u> Edges of beds not exceeding 250mm high	460	m			
D						
	SUNDRIES					
	<u>Designed joints; transverse contraction joints at 3000mm c/c's comprising of a double layer of roofing felt to IS 15; formed in concrete footpaths</u> Designed joints transverse contraction joints; depth not exceeding 150mm	116	m			
E						
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Surface finish to slabs to engineer's approval</u>					
	Surface finishes					
A	brushed; to falls and crossfalls	346	m			
	PRECAST CONCRETE					
	<u>Precast concrete kerbs to be 450x250x125 precast concrete kerb to I.S. 146 laid on 100mm concrete bed & haunch.</u>					
	Kerbs					
B	450 x 250 x 125mm precast kerb	205	m			
	ROOFING, CLADDING AND WATERPROOFING					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Thrace 40/40 geogrid or equivalent under subbase layer; in accordance with Engineers Specification.</u>					
	Geotextile membranes					
C	horizontal; exceeding 300mm wide	777	m2			
	SURFACE PAVINGS, FENCING AND LANDSCAPING					
	IN-SITU SURFACE PAVINGS					
	<u>Three-course bituminous macadam surfacing shall be laid over the sub-base where specified; consisting of 40mm minimum thickness SMA10 Surf 70/100 DES surface course to IS EN 13108 and NSAI's S28; on 60mm min thickness AC20 dense BIN 70/100 DES binder course to IS EN 13108 and NSAI's S28; on 100mm thick AC32 dense base 70/100 DES base to IS EN 13108 and NSAI's S28; all in accordance with the Engineers drawings and Specification</u>					
	Roads					
D	200mm deep bituminous macadam; surface course 40mm; binder course 60mm; base course 100mm	397	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Bituminous macadam in accordance with BS 4987 is to be laid over and rolled with a power roller to a consolidated thickness of 60mm stone mastic to clause 811; allow for patch repair of existing court where required following removal of temporary accomodation; final finished ground levels to be agreed with architect; all in accordance with the Architects drawings and specifications</u>					
	Roads					
A	60mm deep stone mastic asphalt layer; basketball court	290	m2			
	<u>Thermoplastic road markings; to BS 3262; applied evenly at a rate of 400-500g/m; all in accordance with DOE Traffic Signals Manual</u>					
	Line marking					
B	100mm wide; continuous lines	180	m			
C	hatching to disabled parking; yellow	19	m2			
	Letters and figures					
D	disabled parking bays symbol; overall size 1200mm wide x 2500mm long	1	nr			
E	directional arrow; 3.20m long	4	nr			
F	yield triangles; 980mm long	1	nr			
G	single digit numbers	9	nr			
H	double digit numbers	3	nr			
	Like items					
J	basketball court; contractor to submit proposed product to architect for approval before application	1	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/495 Page No. BQ/496 Page No. BQ/497 Page No. BQ/498 (40) ROADS, PATHS AND PAVINGS Carried to Summary					
BQ/499					

	Description	Qty	Unit	Rate	€	c
(40) ROADS, PATHS, PAVINGS (WORKS OUTSIDE SITE BOUNDARY)						
	<u>NOTES</u> The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared For detailed description of workmanship see Architect's & Engineer's Drawings / Specification Information generally 1. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement Fifth Edition 2024, the tenderer should note the following where works measured are not in accordance with ARM. 2. The work measured hereunder refers to the concrete footpaths, set down area and all associated works outside the site boundary. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions. 3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document. 4. The Contractor should note all existing drainage prior to demolition of existing structures and retain and maintain as required.					
	<u>EXCAVATION AND EARTHWORK</u> EXCAVATION <u>Excavation</u> Reduce Levels A not exceeding 2.00m deep	68	m3			
	<u>Extra over</u> for B breaking up existing road surface	122	m2			
	C breaking up existing footpath	72	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Disposal</u>					
	Excavated material					
A	off site	68	m3			
	<u>350mm 6F2 capping layer in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness</u>					
	Filling; 6F2 capping layer					
B	average thickness; exceeding 250mm; concrete areas	26	m3			
	<u>150mm thick granular sub-base material to Clause 804 of the NRA Specification for Roadworks which shall be spread and compacted to the required thickness; compaction shall be carried out in accordance with Clause 802 of the NRA Specification and in accordance with Table 8.1 of the Engineers specification</u>					
	Filling; Clause 804					
C	average thickness; not exceeding 250mm; bituminous areas	19	m3			
D	average thickness; not exceeding 250mm; concrete areas	11	m3			
	<u>CONCRETE WORK</u>					
	INSITU CONCRETE					
	<u>Proposed Concrete footpaths to be provided in the locations indicated on architects site plan; provide reinforced In-situ concrete; grade C40N20; path edges to be bullnosed with float finish including working around AJ covers, manhole covers, gully traps etc.; refer to plan to see extent of new pathways; 100mm exposed aggregate in-situ concrete increasing to 150mm in areas with vehicular access</u>					
	Paths					
E	not exceeding 150mm thick; reinforced	11	m3			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh; B142 mesh; as per Architects specification</u>					
	Fabric					
F	horizontal	72	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	FORMWORK					
	<u>Formwork; generally; finish as Architects specification</u>					
	Edges of beds					
A	not exceeding 250mm high	73	m			
	SUNDRIES					
	<u>Designed joints; transverse contraction joints at 3000mm c/c's comprising of a double layer of roofing felt to IS 15; formed in concrete footpaths</u>					
	Designed joints					
B	transverse contraction joints; depth not exceeding 150mm	24	m			
	<u>Surface finish to slabs to engineer's approval</u>					
	Surface finishes					
C	brushed; to falls and crossfalls	72	m			
	PRECAST CONCRETE					
	<u>Precast concrete kerbs to be 450x250x125 precast concrete kerb to I.S. 146 laid on 100mm concrete bed & haunch.</u>					
	Kerbs					
D	450 x 250 x 125mm precast kerb	38	m			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Thrace 40/40 geogrid or equivalent under subbase layer; in accordance with Engineers Specification.</u>					
	Geotextile membranes					
E	horizontal; exceeding 300mm wide	194	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>					
	IN-SITU SURFACE PAVINGS					
	<u>Two-course bituminous macadam surfacing shall be laid over the sub-base where specified; consisting of a macadam base course in accordance with BS 4987 rolled with a power roller to a consolidated thickness of 63mm; second course of bituminous macadam in accordance with BS 4987 is to be laid over and rolled with a power roller to a consolidated thickness of 25mm giving 88mm consolidated for the two layers; all in accordance with the Architects drawings and specifications</u>					
	Roads					
A	88mm deep bituminous macadam; base course 63mm; wearing course 25mm	122	m2			
	Like items					
B	speed bumps on road surface; road markings are to 100mm wide and the contractor is to submit proposed product to architect for approval; 100mm high treatment ramp (PMSMA finish) with traffic calming triangles on the ramps; 5000mm wide and 4500mm in length	2	nr			
	<u>Thermoplastic road markings; to BS 3262; applied evenly at a rate of 400-500g/m; all in accordance with DOE Traffic Signals Manual</u>					
	Line marking					
C	100mm wide; continuous lines	18	m			
	Letters and figures					
D	yellow letters 'SCOIL' 650mm long	2	nr			
E	bus set down area symbol	1	nr			
F	directional arrow; 3.20m long	2	nr			
G	yeild triangles; 980mm long	1	nr			
H	custom colourful circles on road adjacent to school	18	nr			
					To Collection €	

BQ/504

BQ/505

BQ/506

	Description	Qty	Unit	Rate	€	c
	Disposal					
A	ground water	1	item			
B	surface water	1	item			
	<u>Gravel bed and surround; free draining single size washed gravel chippings; nominal size 10-20mm; as per Engineer's specification</u>					
	Beds and surrounds					
C	600mm wide x 700mm thick; to 150mm pipe	253	m			
	<u>Pipes; uPVC pipes; to comply with BS 4660 and BS 5482; flexible spigot and socket joints in the running length</u>					
	Pipes					
D	150mm nominal diameter	253	m			
	<u>Extra over</u> pipes on which they occur for					
E	bends		nr			
F	tees		nr			
	<u>Aco channel strip along external perimeter of external play area as indicated in architects drawings connected to proposed drainage system drawings connected to proposed drainage system; including cast iron heavy duty ductile lockable grating; include for Grade C25 concrete bed and surround as required; all in accordance with the Engineer's drawings and specification</u>					
	Sundries					
G	channels; 1250mm long; MD150 Aco Drain	4	nr			
H	channels; 2000mm long; MD150 Aco Drain	2	nr			
J	channels; 2500mm long; MD150 Aco Drain	1	nr			
K	channels; 6250mm long; MD150 Aco Drain	1	nr			
L	channels; 9500mm long; MD150 Aco Drain	1	nr			
M	like items; outlet connections	9	nr			
N	like items; sump units	9	nr			
P	like items; stop ends	18	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Concrete road gullies complete, precast concrete gully set complying with BS 5911; bedded and surrounded in 150mm thick Grade C20 concrete; cleaning eye stopper and galvanised chain, brick seating; lockable grating and frame to Group 4 (min. class D 400) to IS EN 124; including excavation, earthwork support, hardcore, backfilling, disposal of surplus spoil; as per Engineers specification</u>					
	Pipe accessories					
A	450mm diameter x 850mm deep complete with heavy duty lockable ductile iron grating and frame; include for all ends required to connect gully to 150mm pipework; set in position	6	nr			
	<u>Armstrong junctions; "Wavin" or equivalent; galvanised cast iron cover and frame; 300 x 300mm square top, set and surrounded in Grade C20 concrete; jointing to uPVC pipework; including excavation, disposal etc.</u>					
	uPVC accessories					
B	3 nr 150mm inlet; 1 nr 150mm outlet; depth 0.50 - 1.00m	1	nr			
C	1 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	3	nr			
D	2 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	2	nr			
E	3 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	2	nr			
	<u>Manholes complete; all in accordance with Engineers specification; precast concrete chamber to B.S. 5911-3, reinforcement to B.S. 4449 and B.S. 4482; min 150mm thick grade 35N20 concrete surround walls; 500mm deep insitu concrete base on 75mm thick blinding; precast concrete cover slab; forming 675 x 675mm ope in slab; rendered C20 concrete benching finished with 2:1 sand cement mortar; single or double oblique curved channels; galvanised step irons to B.S. 729 at 300mm centres vertically, 1st step 665mm from cover ; heavy duty lockable grade A ductile iron manhole cover and frame bedded in cement mortar bed with one to three courses of brickwork to I.S. 261; lifting keys; safety chain; forming all necessary pipe entry openings in walls; forming curved channels as required; rocker pipe connections; include for all excavation and earthwork support, working space, disposal of excavated material off site; all as Engineers Drawings and Specification</u>					
	Manholes					
F	internal size 1200mm diameter; 500mm - 1000mm deep; including all channels required; associated branch connections	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	internal size 1200mm diameter; 1000mm - 1500mm deep; including all channels required; associated branch connections	4	nr			
B	internal size 1200mm diameter; 1500mm - 2000mm deep; including all channels required; associated branch connections	4	nr			
C	internal size 1200mm diameter; 2000mm - 2500mm deep; including all channels required; associated branch connections	1	nr			
D	internal size 1200mm diameter; 2500mm - 3000mm deep; including all channels required; associated branch connections	1	nr			
	<u>Extra over</u> the above for					
E	back drop manhole	1	nr			
	<u>Connecting to existing live surface water manhole; include for breaking into existing manhole and forming new inlet pipe; provide for all necessary bypass pumping as required; apply for and pay for associated connection fees; include for all connections and fittings required; all to the satisfaction of the Engineer and Local Authority</u>					
	Connections					
F	1500mm - 2000mm deep; including all channels required; associated branch connections including making good and backfilling	1	nr			
	<u>Provide new soakaway to consist of STORMTECH MC3500 stormwater storage modules with isolator row all to manufacturers details and instructions; storage volume to be confirmed on site by BRE 365 soakaway testing; contractor to allow for excavating test trenches and for provisions of test water; all disturbed areas are to be made good on completion</u>					
	Soakaways					
G	proprietary units; 3 no. storage module	1	nr			
H	proprietary units; 12 no. storage module	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Kingspan NSBP003 Petrol oil bypass separator; allow for excavation; filling and testing; all in accordance with manufacturers details and instructions</u>					
	Like items					
A	proprietary units; petrol oil bypass separator	1	nr			
	<u>Testing and commissioning</u>					
	Cleaning					
B	provide for cleaning of all existing manholes and existing sewers on site so that new sewers connecting will flow correctly to the satisfaction of the Engineer	1	item			
	CCTV Survey					
C	provide for CCTV survey before commencement of surface water drainage works	1	item			
D	provide for CCTV survey of surface water drainage upon completion	1	item			
	<u>DRAINAGE (FOUL WATER)</u>					
	DRAINAGE BELOW GROUND					
	<u>Excavating trenches to receive pipes; starting from existing ground level filling over bed and surround with pyrite free clause 804 in accordance with Engineers specification, compacted in 150mm maximum layers; grading bottoms; earthwork support; disposing of surplus excavated material off site</u>					
	Excavating trenches; pipes not exceeding 250mm nominal diameter					
E	average depth; 0.50 - 1.00m (connections)	64	m			
F	average depth; 1.00 - 1.50m	99	m			
G	average depth; 2.00 - 2.50m	20	m			
	Disposal					
H	ground water	1	item			
J	surface water	1	item			
	<u>Extra over</u> excavating trenches irrespective of depth for					
K	next to existing buildings	1	item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	next/alongside existing services <u>Gravel bed and surround; free draining single size washed gravel chippings; nominal size 10-20mm; as per Engineer's specification</u> Beds and surrounds	1	item			
B	500mm wide x 500mm thick; to 150mm pipe <u>Pipes; uPVC pipes; to comply with BS 4660 and BS 5482; flexible spigot and socket joints in the running length</u> Pipes	183	m			
C	150mm nominal diameter <u>Extra over</u> pipes on which they occur for;	183	m			
D	bends		nr			
E	thrust blocks; size to suit requirements		nr			
F	popups <u>Armstrong junctions; "Wavin" or equivalent; cast iron heavy duty double sealed cover and frame; 225 x 225mm, set and surrounded in Grade 20 concrete; jointing to uP.V.C. pipework; including excavation, disposal etc.</u> uPVC accessories		nr			
G	1 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	1	nr			
H	2 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	2	nr			
J	3 nr 150mm inlet; 1 nr 150mm outlet; depth 1.00 - 1.50m	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Manholes complete; all in accordance with Engineers specification; precast concrete chamber to B.S. 5911-3, reinforcement to B.S. 4449 and B.S. 4482; min 150mm thick grade 35N20 concrete surround walls; 500mm deep insitu concrete base on 75mm thick blinding; precast concrete cover slab; forming 675 x 675mm ope in slab; rendered C20 concrete benching finished with 2:1 sand cement mortar; single or double oblique curved channels; galvanised step irons to B.S. 729 at 300mm centres vertically, 1st step 665mm from cover ; heavy duty lockable grade A ductile iron manhole cover and frame bedded in cement mortar bed with one to three courses of brickwork to I.S. 261; lifting keys; safety chain; forming all necessary pipe entry openings in walls; forming curved channels as required; rocker pipe connections; include for all excavation and earthwork support, working space, disposal of excavated material off site; all as Engineers Drawings and Specification</u>					
	Manholes					
A	internal size 1200mm diameter; 1000mm - 1500mm deep; including all channels required; associated branch connections	10	nr			
B	internal size 1200mm diameter; 1500mm - 2000mm deep; including all channels required; associated branch connections	2	nr			
	<u>Connecting to existing live foul water manhole; include for breaking into existing manhole and forming new inlet pipe; provide for all necessary bypass pumping as required; apply for and pay for associated connection fees; include for all connections and fittings required; all to the satisfaction of the Engineer and Local Authority</u>					
	Connection to					
C	1000mm - 1500mm deep; including making good and backfilling	2	nr			
D	2000mm - 2500mm deep; including making good and backfilling	1	nr			
	<u>Provide new Klargester Aquapump PU vertical package pumping station with 24 hours storage capacity (8.72 m3); wet well to be size to prevent septicity; rising main to connect to existing foul drainage line via discharge manhole to Irish Water standard detail; all disturbed areas to be made good on completion.</u>					
	Like items					
E	proprietary units; Klargester pump	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Testing and commissioning</u>					
	Cleaning					
A	provide for cleaning of all existing manholes and existing sewers on site so that new sewers connecting will flow correctly to the satisfaction of the Engineer	1	item			
	CCTV Survey					
B	provide for CCTV survey before commencement of foul water drainage works	1	item			
C	provide for CCTV survey of foul water drainage upon completion	1	item			
	<u>BUILDERS WORK IN CONNECTION WITH MECHANICAL AND ELECTRICAL INSTALLATIONS AND MOVEMENT SYSTEMS</u>					
	GAS INSTALLATIONS					
	<u>Excavating trenches to receive pipes; starting from existing ground level filling over bed and surround with pyrite free clause 804 in accordance with Engineers specification, compacted in 150mm maximum layers; grading bottoms; earthwork support; disposing of surplus excavated material off site</u>					
	Excavating trenches; pipes not exceeding 250mm nominal diameter					
D	average depth; 1.00 - 1.50m	33	m			
	Disposal					
E	ground water	1	item			
F	surface water	1	item			
	<u>Extra over</u> excavating trenches irrespective of depth for					
G	next to existing buildings	1	item			
H	next/alongside existing services	1	item			
	<u>Gravel bed and surround; free draining single size washed gravel chippings; nominal size 10-20mm; as per Engineer's specification</u>					
	Beds and surrounds					
J	600mm wide x 600mm thick; 150mm diameter pipe	33	m			
					To Collection €	

BQ/514

Description	Qty	Unit	Rate	€	c
<u>(60) SITE SERVICES (MAINLY ELECTRICAL)</u>					
<u>NOTES</u>					
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included		Note			
For detailed description of workmanship see Service Engineer's Drawings / Specification		Note			
Site Services Builders Works Attendances					
1. All opes to be made good, fire stopped as per building regulations and painted to match new colour proposed for that area.		Note			
2. The Main Contractor to allow in programme for all builders work associated with the electrical installation.		Note			
3. The Electrical Contractor shall provide all ladders, towers, etc to accommodate high level services installation.		Note			
4. The Main Contractor to allow for all fire stopping of all opes associated with electrical installation in compartment walls and floors.		Note			
5. The Main Contractor to allow for all roof opes to accommodate electrical services.		Note			
6. All roof opes shall be complete with minimum roof level to allow for weather purling box details complete with timber frame around opes for fixing and weathering collars.		Note			
7. The Main Contractor to allow for timber grounds for various M&E equipment.		Note			
Information generally					
1. The work measured hereunder refers to the fitted furniture requirements associated with the new extension. These works will largely be carried out adjacent to a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
				<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALLATION</u>					
	SUNDRIES AND BUILDERS WORK					
	<u>Excavating trenches; starting from stripped ground level; including 75mm concrete bed; including 150mm cover and surround with concrete; backfilling with remainder with compacted Clause 804 hardcore; including relevant warning tape at a depth of 300mm below finished ground level; all in accordance with the ESB and Engineers Drawings and Specification</u>					
	Service trenches					
A	average depth 1000mm - 1500mm	210	m			
	<u>Disposal of ground water and surface water following excavations; all in accordance with Engineers Drawings and Specification</u>					
	Disposal					
B	ground water	1	Item			
C	surface water	1	Item			
	<u>Ducts; uPVC pipes; red to ESB Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB details; all in accordance with the ESB and Engineers Drawings and Specification</u>					
	Cable ducts					
D	150mm diameter duct; 1nr	210	m			
	<u>Draw Chambers; reinforced concrete grade 35N in 150mm thick bed; 215mm concrete block walls; waterproof; formwork; excavation; disposal off site and backfilling with selected material; class D access cover and frame bedded in cement and sand mortar; all in accordance with the ESB and Engineers Drawings and Specification</u>					
	Chambers					
E	internal size 910mm x 480mm x 800mm deep; complete with carriage lid	6	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<u>Provide for all testing and commissioning as per the Local Authority Requirements; all in accordance with Engineers Drawings and Specification</u>					
	Testing and Commissioning provide for all testing and commissioning as per the Local Authority Requirements	1	Item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/515 Page No. BQ/516 Page No. BQ/517 (60) SITE SERVICES (MAINLY ELECTRICAL) Carried to Summary					
BQ/518					

	Description	Qty	Unit	Rate	€	c
	<u>(70) SITE FITTINGS</u>					
	<u>NOTES</u>					
	Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included		Note			
	The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared		Note			
	For detailed description of workmanship see Architect's & Engineer's Drawings / Specification		Note			
	Information generally					
	1. The work measured hereunder refers to site fittings. Installation of these works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.		Note			
	2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>Flags to be 6m long, hollow poles with minimum 3mm wall thickness; 65mm top diameter and 101mm base diameter; each flag pole to be set into concrete base to ensure for stability; flag poles to be set into ground minimum of 600mm depth; refer to suppliers specification for proper installation.</u>					
	Fittings					
A	special purpose; flag poles; 6m long	3	nr			
	<u>Proposed guard rails beside main entrance door; in accordance with TGD M Guard rails are required either side of a door that opens out into a pedestrian walkway; refer to Architects DAC drawings and document; Guard rails are to be Stainless Steel and colour of guard rail is to be confirmed with the architect before ordering; refer to Architects specification 81.</u>					
	Fittings					
B	special purpose; guard rails; 1000mm x 1000mm high	2	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Signage to be included at the back of each of the accessible car parking spaces; aluminium composite sign; sign is to be centrally located at the back of the car parking; bottom of the sign is to be 1000mm from the ground floor level; refer to Architects specification 64 for details.</u> Fittings A signage; 400 x 600mm 1 nr	1	nr			
	<u>Signage to be included at both entrances to the school site indicating solar panels on the roof for the fire brigade; the signs are to have a white background; minimum size is to be A3; signs are to be UV solar proof, waterproof and fixed in a firm and well visible location</u> Fittings B signage; minimum size A3 2 nr	2	nr			
	<u>Contractor shall provide 1 No. Set Down area sign mounted to a 76mm diameter Galvanized Steel Sign Post; Proposed Post-mounted signs should be at least 450mm wide x 450mm high and positioned 1500 to 2500mm to the centreline from ground level; material for external signage shall be tough, durable, non-brittle, non-corrosive, vandal resistant, cast aluminium alloy, complying with LM4 (EN 1706 AC-45200) - Aluminium Casting Alloy cast; the frame shall be made up to 3mm gauge; refer to Architects specification 66 for details.</u> Fittings C signage; 300 x 400mm 1 nr	1	nr			
To Collection €						

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/519 Page No. BQ/520 (70) SITE FITTINGS Carried to Summary					
BQ/521					

Description		Qty	Unit	Rate	€	c
<u>(80) LANDSCAPING, PLAY AREAS</u>						
<u>NOTES</u>						
Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included			Note			
The Tenderer's attention is drawn to the "Works Requirements within Volume A" attached, from which this element has been prepared			Note			
For detailed description of workmanship see Architect's & Engineer's Drawings / Specification			Note			
Information generally						
1. The work measured hereunder refers to the landscaping and associated works. These works will largely be carried out within a live environment and so all necessary precautions should be taken to ensure the safety of the building occupants. The Contractor MUST include herein for all costs associated with such precautions.			Note			
2. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.			Note			
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>						
GRASSING AND PLANTING						
<u>Imported topsoil, multi purpose grade to BS:3883; free from all inorganic materials and impurities; treated with weed killer</u>						
Topsoil						
A	imported; 300mm thick	33	m3			
<u>Cultivation to architects approval; break up any compacted topsoil to full depth; reduce top 100mm of all topsoil to a tilth suitable for blade grading (10 mm down particles); remove undesirable material brought to the surface including stones and clay balls, roots, tufts of grass and foreign matter</u>						
Preparation						
B	rotivating ground prior to seeding	109	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Fertiliser to be applied three to five days before seeding/</u> <u>turfing and before final cultivation; the following</u> <u>fertilisers are to be applied; each at 50g/sq m, in</u> <u>transverse directions: Superphosphate with a minimum of 18%</u> <u>water soluble phosphoric acid; A sulphate of ammonia with a</u> <u>minimum of 20% nitrogen</u> Surface applications A to all grass areas	109	m2			
	<u>Grass seed to all areas to be general purpose hardwearing</u> <u>grass seed to Architects approval; sow seed only after</u> <u>consultation with the Architect; spread seed evenly at the</u> <u>specified rate(s) applied in two equal sowings in transverse</u> <u>directions; lightly harrow or rake; light soils roll and</u> <u>cross roll after seeding using a lightweight roller</u> Seeding B amenity grass	109	m2			
	<u>Trees sourced from nurseries with robust biosecurity</u> <u>polocies; trees should have a straight leader and a well</u> <u>balanced branch system; the base of the planting pit should</u> <u>be firm to prevent settling; refer to landscape Architects</u> <u>plans Drawing number TS_TPL_10_1_25 for locations and</u> <u>specifications</u> Trees C Alnus glutinosa (Ag)	8	nr			
	D Prunus padus (Pp)	5	nr			
	E Betula pendula (Bp)	4	nr			
	F Sorbus aria (SorA)	4	nr			
	G Sorbus aucuparia (Sa)	2	nr			
	H Sambucus nigra (Sn)	5	nr			
	Hedge J Arbutus unedo (Aun)	33	nr			
	K Crataegus monogyna (Ca)	58	nr			
	L Corylus avellana (Cav)	13	nr			
	M Ilex aquifolium (Ilaq)	13	nr			
To Collection €						

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/522 Page No. BQ/523 (80) LANDSCAPING, PLAY AREAS Carried to Summary					
BQ/524					

(i)

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
(45) CEILING FINISHES	BQ/145				
(47) ROOF FINISHES	BQ/150				
BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)	BQ/152				
(52) DRAINAGE AND REFUSE DISPOSAL	BQ/158				
(53) WATER DISTRIBUTION	BQ/167				
(56) SPACE HEATING	BQ/175				
(57) VENTILATION SERVICES	BQ/181				
(58) PROTECTIVE SERVICES	BQ/184				
(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS	BQ/187				
BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)	BQ/189				
(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION	BQ/193				
(62) POWER	BQ/200				
(63) LIGHTING EXISTING	BQ/211				
(64) COMMUNICATION SYSTEMS	BQ/218				
(66) CONTAINMENT	BQ/221				
(68) SECURITY & PROTECTION SERVICES	BQ/236				
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS	BQ/240				
(59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS	BQ/243				
BUILDING FITTINGS	BQ/245				
(74) SANITARY FITTINGS GENERALLY	BQ/248				
FITTED FIXED FURNITURE	BQ/250				
(71) DISPLAY, CIRCULATION FITTINGS	BQ/253				

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
(76) STORAGE, SCREENING FITTINGS	BQ/259				
*****EXISTING BUILDING WORKS*****	BQ/261				
(--) DEMOLITIONS AND ALTERATIONS	BQ/269				
BUILDING SUBSTRUCTURE	BQ/271				
(19) SUBSTRUCTURES	BQ/281				
BUILDING STRUCTURE	BQ/283				
(21) EXTERNAL WALLS	BQ/289				
(22) INTERNAL WALLS, PARTITIONS	BQ/292				
(27) ROOF STRUCTURE	BQ/295				
(28) FRAMES	BQ/299				
BUILDING STRUCTURE COMPLETIONS	BQ/301				
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/305				
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/313				
(37) ROOF COMPLETIONS	BQ/315				
BUILDING FINISHES	BQ/317				
(41) WALL FINISHES EXTERNALLY	BQ/320				
(42) WALL FINISHES INTERNALLY	BQ/324				
(43) FLOOR FINISHES	BQ/330				
(44) STAIRS, RAMPS FINISHES	BQ/334				
(45) CEILING FINISHES	BQ/338				
(47) ROOF FINISHES	BQ/342				
BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)	BQ/344				
(51) HEATING CENTRE	BQ/356				

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
(52) DRAINAGE AND REFUSE DISPOSAL	BQ/362				
(53) WATER DISTRIBUTION	BQ/371				
(56) SPACE HEATING	BQ/381				
(57) VENTILATION SERVICES	BQ/388				
(58) PROTECTIVE SERVICES	BQ/391				
(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS	BQ/395				
BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)	BQ/397				
(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION	BQ/401				
(62) POWER	BQ/408				
(63) LIGHTING	BQ/417				
(64) COMMUNICATION SYSTEMS	BQ/424				
(66) CONTAINMENT	BQ/427				
(68) SECURITY & PROTECTION SERVICES	BQ/440				
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS	BQ/444				
(59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS EXTENSION	BQ/446				
BUILDING FITTINGS	BQ/448				
(74) SANITARY FITTINGS GENERALLY	BQ/452				
FITTED FIXED FURNITURE	BQ/454				
(71) DISPLAY, CIRCULATION FITTINGS	BQ/456				
(76) STORAGE, SCREENING FITTINGS	BQ/463				
*****SITWORKS*****	BQ/465				
(10) PREPARED SITE	BQ/470				

(iiii)



LAMBERT SURVEYORS

Chartered Quantity Surveyors
Claregate Street,
Kildare Town,
Co. Kildare
R51CD89

mlambert@lambertsurveyors.com
www.lambertsurveyors.com
Tel: 045 542698



SOCIETY OF
**CHARTERED
SURVEYORS**
IRELAND



RICS

the mark of
property
professionalism
worldwide