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PRICING DOCUMENT

19th August 2026

Proposed SEN Extension and Associated Siteworks

St. Catherine's National School,
Rush,
Co. Dublin.



SOCIETY OF
**CHARTERED
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BQ/3

	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 craneage) 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 hazard. <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 (particular emphasis is placed on the ADJOINING PRIVATE DWELLING). 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 - 1800 hours on Monday to Fridays and 0800 - 1400 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
A	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.		Note			
	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.	1	Item			
	Modification Any unauthorised modification written by the Contractor against any item in the Pricing Document will render his tender null and void.		Note			
	<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.		Note			
	<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.		Note			
To Collection €						

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	Description	Qty	Unit	Rate	€	c
	<u>GENERAL CONDITIONS</u>					
	CONTRACT					
	The form and type of Contract shall be the "Public Works Contract for MINOR BUILDING and CIVIL ENGINEERING WORKS designed by THE EMPLOYER" (Hereinafter referred to as General Conditions of Contract), as issued by the Office of Public Procurement on behalf of the Department of Public Expenditure & Reform, dated 1st May 2024 [Document Reference PW-CF5 v.2.8].					
	The following is a schedule of Clause Headings in the Conditions of Contract and the Contractor shall allow such amounts, (if any) that he / she requires for complying with the Conditions of Contract more fully set out in the above mentioned document; including all associated Clauses, Works Requirements, etc as required to complete the works.		Note			
	Clause 1: THE CONTRACT					
A	1.1 Definitions	1	Item			
B	1.2 Interpretation	1	Item			
C	1.3 Inconsistencies	1	Item			
D	1.4 Pricing Document and Works Proposals	1	Item			
E	1.5 Performance Bond	1	Item			
F	1.6 (not used)	1	Item			
G	1.7 Joint Ventures	1	Item			
H	1.8 Assignment	1	Item			
J	1.9 Miscellaneous	1	Item			
K	1.10 Background Information	1	Item			
	Clause 2: THE LAW					
L	2.1 Law governing the Contract	1	Item			
M	2.2 Compliance with Legal Requirements	1	Item			
N	2.3 Consents	1	Item			
P	2.4 Project Supervisor	1	Item			
Q	2.5 Safety, Health and Welfare at Work Act 2005 and Safety, Health and Welfare at Work (Construction) Regulations 2013	1	Item			
					To Collection €	

	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 - St Catherine's 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			
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			
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			
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		Note			
Compensation Event					
Yes		Note			
Event 18 - An Item of Archaeological interest on human remains is found on the site and it was unforeseeable.					
Delay Event					
Yes		Note			
Compensation Event					
Yes		Note			
Event 19 - The Contractor encounters on the site unforeseeable ground conditions or man made obstruction in the ground other than utilities.					
Delay Event					
Yes		Note			
Compensation Event					
Yes		Note			
Event 20 - The Contractor encounters unforeseeable utilities in the ground on the site.					
Delay Event					
Yes		Note			
				To Collection €	

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	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.		Note			
	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: Carefully remove existing work required to be re-fixed.					
					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 €	

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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			
					To Collection €	

	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			
					<i>To Collection €</i>	

	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			
					<i>To Collection €</i>	

	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			
					<i>To Collection €</i>	

	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			
					To Collection €	

	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. 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	1	Item			
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. 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	1	Item			
	<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. cover up or otherwise hinder access to defective construction, or 2. be rendered abortive by the carrying out of remedial work.	1	Item			
					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. <u>Progress Photographs</u>	1	Item			
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. <u>Quality Management</u>	1	Item			
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. <u>Handing Over</u>	1	Item			
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. <u>Defect's Liability</u>	1	Item			
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. <u>Overtime</u>	1	Item			
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 €	

	Description	Qty	Unit	Rate	€	c
	<u>Works within / adjacent to existing functioning school</u>					
A	The Main Contractor shall be permitted to connect into existing utility services subject to each utility being metered individually and the metering system proposed being approved in writing by the Employer's Representative in consultation with the Building Services Engineer. The metering system, connections, etc proposed must also be in accordance with all current regulations, legislation and Health and Safety requirements. The meter reading for the appropriate utility should be jointly read, recorded and agreed by the Contractor and the School not later than 10 days before an application for payment by the Main Contractor. The amount due from the Contractor to the school (on presentation of an Invoice by the School) should be the number of units consumed in the billing period multiplied by the FULL cost per unit of the particular utility including VAT, to be paid within 30 days. If the Contractor fails to honour a valid invoice the Contract terms should permit the Employer's Representative to deduct the amount so due from any monies owed or which may become due to the Main Contractor.	1	Item			
	<u>OTHER MATTERS</u>					
B	The Contractor is to allow here for any other Preliminary related matters included in the Conditions of Contract or any of the Contract Documents which are not specially mentioned herein but for which the Contractor requires payment.	1	Item			
					<i>To Collection €</i>	

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. BQ/4					
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Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. BQ/50					

BQ/57

	Description	Qty	Unit	Rate	€	c
	<u>[06] PHASING</u>					
	<u>Information generally</u>					
	1. Please note that notwithstanding the provisions of ARM 5, all Phasing related costs are to be included within the following items and not within the "General Preliminary" section of this Pricing Document.		Note			
	<u>Phasing Work Zones</u>					
	Phasing work zones; the chosen contractor shall include for onsite phasing of work zones as proposed work will take place in active school property. All tendering contractor to include proposed phasing of work and methodology of construction program within the tender submissions and the chosen contractor will liaise and agree project masterplan and phasing with architect prior to commencement of proposed work. Refer to Architects drawings for proposed extent of phased work zones (draft). All work zones and phasing to be prior to commencement on site. - no work shall take place outside the agreed zones of work without prior agreement with architect and client. As mentioned above heras fencing to be erected to separate active school areas from all work zones, temporary access roadway and site compound.		Note			
	Project phasing strategy to be included for proposed work with programme phasing / timing which will include access/ segregation/ noise/ access and compound areas. Proposed work is within active school property, Refer to Architects drawings for provisional phasing layout. Access to existing school building & phasing of work to existing building(s) to be agreed with client and architect for signed off and agreed prior to commencement of work. Measures to be put in place to ensure safety of all students, teachers & visitors at all times including strict traffic management, access to site compound and health / safety regimes. Date particulars to be set out in Articles of Agreement Contract with all parties involved.		Note			
	<u>Refer to Phasing Work Zones Drawings</u>					
A	2101-T006 Proposed Construction Phasing Site Plan 1 of 2	1	item			
B	2101-T007 Proposed Construction Phasing Site Plan 2 of 2	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/58 [06] PHASING Carried to Summary					
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			
					<i>To Collection €</i>	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/60 Page No. BQ/61 [06] GENERAL HEALTH & SAFETY OBLIGATIONS Carried to Summary					
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. The Project Supervisor for the Design Process is Cormac Dooley of Dooley Cummins Engineers LTD. The Project Supervisor for the Construction Stage (PSCS) shall be the Main Contractor appointed to carry out the Works. 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. 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. 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. 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.	1	Item			
			Note			
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					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

	Description	Qty	Unit	Rate	€	c
	The Contractor shall ensure that materials which they select and for which they are responsible comply with the requirements of the Building Regulations.		Note			
	The Contractor must vet all Suppliers & / or Sub-Contractors in relation to their ability to demonstrate "competence" in their specific area of expertise; in accordance with the new Building Control (Amendment) Regulations and associated Code of Practice.		Note			
	The Contractor shall ensure that any design carried out by them or their sub-contractors is certified and submitted.		Note			
	The Contractor must also specifically co-ordinate the collection of all Ancillary Certificates of Compliance from suppliers &/or sub-Contractors and the subsequent submission of same to the Assigned Certifier throughout the works.		Note			
	The Contractor shall allow for carrying out the following NON-EXHAUSTIVE list of tests / surveys as deemed necessary by the Assigned Certifier or other designated inspectors or certifiers providing Ancillary Certificates and must also ensure the co-ordination and provision of all test certificates and confirmations as NON-EXHAUSTIVELY outlined herein;		Note			
	<u>General Tests (during the works)</u>					
A	Preliminary BER survey & report; to be carried out by specialist firm, prior to commencement of works	1	Item			
B	Asbestos survey & report; to be carried out by specialist firm, prior to commencement of works	1	Item			
C	Ground bearing capacity test; to be carried out by specialist firm, prior to commencement of works (to proposed vehicular yard surface areas only)	1	Item			
	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			
D	On-site radon level test; to be carried out by specialist firm, prior to commencement of works; 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	1	Item			
					To Collection €	

	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					

Description		Qty	Unit	Rate	€	c
[06] BOND SECTION						
<u>Contractor's Performance Bond</u>						
A performance bond is required. Provide for paying premium required by an approved Insurance Company, Bank or other appropriate Body for a Surety Bond of 12.5% of the amount of the tender. The amount of the performance bond shall be 12.5% of the initial contract sum up to certification of Substantial Completion of the Works, and 6.25% of the initial Contract Sum for the subsequent period stated in the form of in the works requirements. The Bond shall expire 450 days after the date of Substantial Completion of the Works as certified by the Employers Representative appointed under the Contract. The amount provided will not be subject to any adjustment; and this amount or the amount of the premium whichever is the lesser shall be included in the first payment on account after the Bond has been executed. A Contractor that proposes a bond issued by foreign financial institution must ensure that it contains a provision that ensures that it is subject to the exclusive jurisdiction of the Irish Courts. The sole law governing of the bond will be Irish Law. The contractor will not be allowed to commence on site until the original Bond, signed and sealed by both Surety and Contractor is produced. A copy, or a scanned copy or a letter will not be accepted. The Institution providing a bond must, if it is an insurance company, be authorised by the Financial Regulator to write guarantee business in Ireland or passported into Ireland. The form of performance bond shall be as per the current model form for Public Works Construction Contracts, as issued by the Office of Public Procurement on behalf of the Department of Public Expenditure & Reform.			Note			
			Note			
			Note			
			Note			
A	The Contractor must include here for all costs associated with obtaining the aforementioned Performance Bond	1	Item			
					To Collection €	

BQ/82

	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>					
	Excavating trenches to receive foundations; starting from reduced level					
B	not exceeding 2.00m deep	84	m3			
	Excavating isolated pits to receive foundations; starting from reduced level					
C	not exceeding 2.00m deep	11	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Disposal					
A	surface water; keep the surface of the site free of surface water	1	Item			
B	ground water; keeping the excavations free of ground water	1	Item			
	Excavated material					
C	off site	95	m3			
	<u>Hardcore Clause 804 blinded broken limestone filling in accordance with Engineers Specification SR 21: Annexure E; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; to excavations					
D	average thickness exceeding 250mm	47	m3			
	Filling; to make up levels					
E	T0 Struc' average thickness not exceeding 250mm	54	m3			
	<u>S21 Annex E stone granular fill (hardcore) material is an all-in graded aggregate (0-32 mm) or gravel (0/40 mm) to facilitate placing and compatibility; depositing and compacting in layers maximum 225mm thickness</u>					
	Filling; to make up levels					
F	average thickness exceeding 250mm	68	m3			
	Surfaces treatments; blinding filling					
G	50mm thick fine sand blinding	245	m2			
	<u>CONCRETE WORK</u>					
	IN-SITU CONCRETE					
	<u>Unreinforced in-situ lean mix concrete; Grade C20/25; in accordance with Engineers Specification</u>					
	Lean Mix					
H	foundations	8	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Reinforced in-situ concrete; Grade C30/37; vibrated; in accordance with Engineers Specification</u>					
	Bed					
A	not exceeding 150mm	41	m3			
	Foundations					
B	reinforced, poured against blinding layer	63	m3			
	Isolated foundations					
C	reinforced, poured against blinding layer	8	m3			
	FORMWORK					
	<u>Formwork generally; Type A plain non-fair faced finish</u>					
	Sides of foundations					
D	exceeding 250mm but not exceeding 500mm high	269	m			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh to B.S. 4483; reference A393, weighing 6.16kg/m2; no allowance in measurement for laps</u>					
	Fabric					
E	horizontal; foundations	298	m2			
	<u>Reinforcement fabric mesh to B.S. 4483; reference A252, weighing 3.95kg/m2; no allowance in measurement for laps</u>					
	Fabric					
F	horizontal; structural slab	270	m2			
	SUNDRIES					
	<u>Design joints</u>					
G	saw cut movement joint in concrete; including mastic sealant or equal and approved sealant	55	m			
H	isolation joint in concrete; including mastic sealant or equal and approved sealant	167	m			
	<u>Surface finishes</u>					
J	powerfloating	245	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid Concrete Blocks; I.S. 20; compressive strength 13N/mm²; 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 in trenches					
A	100mm wide	43	m2			
B	215mm thick	19	m2			
C	465mm thick	35	m2			
	Labours					
D	on blockwork	1	Item			
	Bonding to other work					
E	tying new rising walls to existing	16	m			
	<u>Roadstone Therma Block; blocks at all floor / rising wall junctions to improve thermal bridge detailing; refer to Architects foundation detail</u>					
	Walls in trenches					
F	215mm thick	25	m2			
	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					
G	not exceeding 225mm wide; horizontal	232	m			
H	width exceeding 225mm wide; horizontal	70	m2			
	<u>Ventilation gratings; Galvanized Mild Steel; complete with all accessories and fixings; louvered pattern; building into prepared openings</u>					
J	225 x 225mm; pointing with mortar one side	4	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 225mm wide; vertical	117	m			
B	exceeding 225mm wide; horizontal	245	m2			
	Collars around pipes, standards and the like; depth of collar to manufacturers recommendations					
C	PVC drainage pipework; 150mm nominal diameter	4	nr			
	<u>DRAINAGE</u>					
	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					
D	average depth not exceeding 0.50m	30	m			
	<u>Selected granular material in accordance with Engineer's specification</u>					
	Beds and surrounds					
E	400mm wide x 400mm thick bed and surround; to 110mm pipe	30	m			
	Vertical casings					
F	500mm wide x 500mm thick at blanked radon outlet	4	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>uPVC pipes; I.S. 424; air tight welded joints in the running length</u>					
	110mm pipework; in trenches					
A	laid in position horizontal	30	m			
B	laid in position vertical	4	m			
	<u>Extra over pipes on which they occur for</u>					
C	pipe capping	4	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					
D	internal size 400 x 400 x 500mm deep; one 110mm diameter opening	4	nr			
	<u>Testing and commissioning</u>					
	Testing					
E	testing the radon drainage system to the Architects satisfaction as the work proceeds and on completion	1	item			
					To Collection €	

BQ/93

	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>Precast Concrete padstone; 'Killeshal' or equivalent 40N padstones; bedded in gauged mortar</u>					
	Padstones					
A	size 450 x 225 x 225mm	36	nr			
	<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	41	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Precast concrete lintel: 'Killeshal' or equivalent prestressed standard or stock pattern units; B.S. 1239: plain rectangular section; bedding in gauged mortar; minimum bearing 200mm both sides; all in accordance with Engineer's specification</u>					
	Lintels					
A	size 215 x 300mm	33	m			
B	size 215 x 215mm	5	m			
C	size 215 x 440mm	6	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>102.5mm selected blue brick external leaf in stretcher bond to underside of all ground floor windows; masonry mortar type I:0.5:4/4.4 (cement: lime: sand); recessed pointing; as Engineers specification</u>					
	Walls					
D	102.5mm thick	68	m2			
	<u>Solid Concrete Blocks; I.S. 325 & 20; compressive strength 10N/mm2; 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					
E	100mm thick	424	m2			
F	215mm thick	486	m2			
	<u>Extra over Solid Concrete Blocks</u>					
G	reveals; Mannok or equivalent solid thermal blocks cavity closer blocks with nib returned across cavity; 30 minute minimum fire resistance	78	m			
	Bonding to other work					
H	expamet stainless steel wall starter; plugging; building into 100mm blockwork at 225mm centres; into existing school	25	m			
J	expamet stainless steel wall starter; plugging; building into 215mm blockwork at 225mm centres; into existing school	25	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Mannok or equivalent solid thermal blocks; refer to Specification to be read alongside manufacturers guidance; as Engineers specification</u>					
	Walls					
A	215mm thick	26	m2			
	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					
B	150mm wide; between new walls	434	m2			
	<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					
C	150 x 25mm Xtratherm proprietary Cavity Closer	95	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					
D	150 x 25mm Xtratherm proprietary Cavity Closer	78	m			
	Closing cavities; heads					
E	150 x 25mm Xtratherm proprietary Cavity Closer	47	m			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<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 Agrement 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					
A	110mm thick; between new walls	486	m2			
B	25mm vertical, to rear of cill	41	m			
C	25mm horizontal, below window boards	41	m			
	<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					
D	150mm cavity; overall girth 390mm; bends - 2 nr; window and door heads	47	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					
E	not exceeding 225mm; horizontal; in walls	189	m			
F	not exceeding 225mm wide; vertical; at jambs	78	m			
G	exceeding 225mm; horizontal; under window cills	25	m2			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<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 A ventilation openings	16	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 B width not exceeding 300mm; to window and doors heads and reveals	121	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 C movement joints in 100mm blockwork	63	m			
	D movement joints in 215mm blockwork	73	m			
	<u>STRUCTURAL</u>					
	STEELWORK					
	<u>'Steelite Type CL/K 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 E steelite lintel CL/K (19nr)	47	m			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/96 Page No. BQ/97 Page No. BQ/98 Page No. BQ/99 Page No. BQ/100 (21) EXTERNAL WALLS Carried to Summary					
BQ/101					

	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>Precast concrete lintel: 'Killeshal' or equivalent prestressed standard or stock pattern units; B.S. 1239: plain rectangular section; bedding in gauged mortar; minimum bearing 200mm both sides; all in accordance with Engineer's specification</u>					
A	Lintels size 215 x 215mm	9	m			
	<u>BRICKWORK AND BLOCKWORK</u>					
	BRICKWORK/BLOCKWORK					
	<u>Solid textured concrete loadbearing blocks; I.S.20; compressive strength 5N/mm²; stretcher bond in cement mortar (1:3)</u>					
B	Walls 215mm thick	117	m ²			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> for special bricks/blocks					
A	like items; radiator recesses; 1200mm high	4	m			
	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					
B	approx 150mm high; filling junction between blockwork walls and floor slab	9	m			
C	approx 150mm high; filling junction between blockwork walls and roof	29	m			
	<u>FLOOR, WALL AND CEILING FINISHES</u>					
	STUD PARTITIONS					
	<u>75mm X 44mm Rough Timber C16 Treated En14081; 1no. Layer of 12.5mm gyproc Sound Block followed by 12.5mm Gryproc Harito plasterboard; board joints to be staggered, taped and filled; all board joints installed staggered in accordance with Gyprocs current installation recommendations; Gyproc DryWall screws installed at 300mm centres (200mm at external corners) Gyproc DryWall screws must maintain a minimum 10mm penetration through metal framing components; 2mm Gyproc Skim coat plaster (or Carlite Finish) applied in accordance with Gyprocs current recommendations and prepared for selected painted finish; 100mm MOY ACOUSTIC INSULATION 48kg/m3 snugly fit between all studwork; refer to Product data sheets attached in Architects appendix.</u>					
	Partition					
D	3315mm high	10	m			
E	3150mm high	10	m			
	<u>Extra over</u> the above for					
F	angles to partitions	4	nr			
G	three-way intersections	6	nr			
H	abutments to other finishes	8	nr			

To Collection €

[illegible]

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/102 Page No. BQ/103 Page No. BQ/104 (22) INTERNAL WALLS, PARTITIONS Carried to Summary					
BQ/105					

Description	Qty	Unit	Rate	€	c
<u>(23) FLOORS, GALLERIES</u>					
<u>NOTES: GENERALLY</u>					
1. Where a material or process is described by reference to its proprietary name, the name is used to indicate the standard of construction, appearance, ease of maintenance and durability acceptable to the Employer's Representative. The Employer's Representative will approve the use of alternatives where such alternatives are shown to equal or surpass the qualities of the product or process specified. Accordingly proprietary names wherever mentioned in the Specification, Schedule of Rates or on the drawings shall be deemed to mean the provision of the named product or process or an approved alternative. However, alternative materials to those specified in the Works Requirements will only be considered by the Employers Representative if they are identified at Tender Stage. If not identified at Tender Stage then the Employers Representative may not consider alternatives.		Note			
<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 first 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. 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>CONCRETE WORK</u>					
	PRECAST CONCRETE					
	<u>Hollowcore slab 200mm deep; contractor designed; to receive 75mm thick structural screed & mesh (measured elsewhere); design loadings to precast units excluding self-weight of units to be 2.5 to 5KN/m2; weights to be incorporated by specialist manufacturer; including shear keys, all hoisting and placing in position, levelling, temporary propping, bedding ends, grouting etc.; all ends filled with factory fitted stop end cores and concrete fill where indicated; factory formed recesses/slots for reinforcing where indicated; include for solid nibbed ends to hollowcores, where indicated, including proprietary angles, hangers, fittings and supports, where required; grout and seal all unit junctions; all to Engineer's details and performance specification; including for all sealing tapes, gun applied primers, strips, membranes, and barriers to achieve the required air tightness, complete; including all fixings and sundry items complete; all in accordance with the Architect's/Engineer's specification and drawings</u>					
	Floor slabs					
A	200mm deep hollowcore	106	m2			
	<u>Sundries on Precast Concrete</u>					
	Tying details					
B	concrete filling ends; including reinforcement and formwork T12 L shaped bars at 400mm centres bent into screed and lapped with mesh; approx 1050mm long	51	m			
C	straps at 1200mm centres at edge of precast floors	42	nr			
	Forming holes, recesses, and the like					
D	400 x 200mm service duct ope through 200mm thick precast floor and screed (measured elsewhere)	1	nr			
E	100mm diameter ope through 200mm precast floor and screed (measured elsewhere)	2	nr			
F	100mm diameter ope through 200mm precast floor and screed (measured elsewhere)	2	nr			
					To Collection €	

BQ/108

	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>C16 Timber in accordance with Engineers Specification, treating timber with preservative treatment to BS5268:1989 Part 5; all in accordancess with Architects Specification</u>					
	Carcassing					
B	pitched roofs; 44 x 225mm deep rafters at 400mm centres	883	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Structural softwood in accordance with Timber Specification; grading standard to EN 14081-1; strength class C24 to EN 338; approved species and origin; surface finish PAO; preservative treatment in accordance with B. S. 8417</u> Carcassing to pitched roofs					
A	100 x 75 mm wall plate; fixing by bolting	99	m			
B	100 x 75 mm wall plate; fixing by bolting; to flanges of steelwork	61	m			
C	200 x 44mm bridging at 1350mm centres	186	m			
D	175 x 25mm Fascia board	99	m			
	Labours					
E	Treating ends of joists and the like with preservative as described	210	nr			
	IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>Metal accessories to woodwork in mild steel; to be fixed to rafters 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					
F	30 x 2.5mm thick heavy duty, weatherproof galvanised steel L brackets	46	nr			
To Collection €						

BQ/111

Description		Qty	Unit	Rate	€	c
<u>(28) FRAME</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 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 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>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 25 - 50 kg/m (254 x 146 x 43 UB)	1.43	tonne			
B	beams; member profile 25-50kg/m (180 x 90 x 26 PFC)	0.39	tonne			
C	beams; member profile 25-50kg/m (203 x 203 x 46 UC)	1.26	tonne			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	beams; member profile 25-50kg/m (356 x 166 SFB)	0.41	tonne			
B	columns; 25-50kg/m (120 x 120 x 8 SHS)	0.19	tonne			
	Fittings					
C	add 15% for all plates, cleats, haunches etc in the connections with all Structural Steelwork	0.55	tonne			
	<u>Holding Down Assemblies; Fixing to structural steelwork; allow for drilling holes in beam for holding down bolts; 100 x 100 x 600mm long RSA anchor plates typically, recessed into Grade 30N20 concrete; include for formwork and grouting to baseplates in accordance with Engineer's Specification and Drawings</u>					
	Holding Down Assemblies					
D	assembly consisting of M10 Fisher FISV chemical anchors, fixed at 400mm centres to PFC to support swing	34	nr			
E	assembly consisting of 440 x 215 x 300mm deep bearing pad	8	nr			
	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	83	m2			
	Erection of all the foregoing steelwork					
G	design, detail, fabricate and make all necessary welded or bolted connections between steel members in accordance with B.S. 449	1	item			
	Welding on site					
H	allow for all site welding necessary to erect all the foregoing steelwork	1	item			

To Collection €

BQ/114

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/112 Page No. BQ/113 Page No. BQ/114 (28) FRAME Carried to Summary					
BQ/115					

	Description	Qty	Unit	Rate	€	c
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS						
NOTES						
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	43	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	43	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 21 PROPOSED WINDOWS AND DOORS for specification.</u>					
	Composite items					
C	Window Type 01; 2800mm wide x 2200mm high	10	nr			
D	Window Type 02; 1700mm wide x 2200mm high	2	nr			
E	Window Type 03; 685mm wide x 850mm high; opaque	4	nr			
F	Window Type 04; 1800mm wide x 2200mm high	1	nr			
	Composite items; External Doorset type 1					
G	D34; 1200mm wide x 2900mm high;	1	nr			
	Composite items; External Doorset type 2					
H	D29; 1850mm wide x 2900mm high structural ope; door and a half 1200mm wide x 2200mm high and 650mm wide x 2200mm high; including manifestations where required	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	window ope; 2800mm wide x 2200mm high; <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u> AIR SEAL TAPE <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> Sealant	1	nr			
B	to windows and doors WINDOW VENTS <u>Window trickle vent to provide background ventilation in accordance with TGD F 2019; all in accordance with Architects Drawings and Specification.</u> Vents	118	m			
C	to windows <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	34	m			
D	not exceeding 300mm girth; window boards	43	m			
To Collection €						

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/118 Page No. BQ/119 Page No. BQ/120 (31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS Carried to Summary					

Description	Qty	Unit	Rate	€	c
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS					
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 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			
				<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	35 x 15mm, fixing to blockwork backgrounds	73	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	146	m			
	COMPOSITE ITEMS					
	<u>30 minute fire rated; Solid Formica Laminate door; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification internal doors and screens details.</u>					
	Composite items; doors					
C	Door Type 6; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	2	nr			
D	Door Type 11; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	5	nr			
	<u>Extra over</u> the above for					
E	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	5	nr			
	<u>Formica Laminate door with vision panel as indicated; 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; doors					
F	Door type 5; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	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	3	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; doors					
B	Door Type 7; 900mm wide x 2100mm high structural opening; 900 x 2100mm door opening	4	nr			
	IRONMONGERY, ACCESSORIES AND SUNDRIES					
	<u>30 minute intumescent fire and smoke seals; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
C	15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door	37	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					
D	perimeter seal	37	m			
	<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>					
	Ironmongery Single Door set - FD 30s					
E	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	14	nr			
F	KCC or equivalent Floor Mounted Door Stop	7	nr			
G	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	14	nr			
H	Fire Rated Interdens Based Intumescent KCC or equivalent Lock Protector, 1mm, White	7	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	42	nr			
B	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	7	nr			
C	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	7	nr			
D	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	7	nr			
E	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	7	set			
F	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon. 5mm	14	nr			
G	Frisco or equivalent Stainless-Steel Maintenance Free Self- Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014and Certifire CF336	21	nr			
H	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	7	nr			
J	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	7	nr			
	Ironmongery Single Door set					
K	KCC or equivalent Floor Mounted Door Stop	3	nr			
L	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	6	nr			
M	Interdens Based Intumescent KCC or equivalent Lock protector,1mm, White	3	nr			
N	Flexfire or equivalent Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	18	nr			
P	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	3	nr			
Q	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	3	nr			
R	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	3	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	3	set			
B	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon. 5mm	6	nr			
C	Frisco or equivalent Stainless-Steel Maintenance Free Self- Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014and Certifire CF336	9	nr			
D	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	3	nr			
E	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	3	nr			
	Ironmongery Single Dorset for Standard W/C - FD Nil					
F	KCC or equivalent Grade 304 Stainless Steel Unisex Symbol	4	nr			
G	Hat & Coat Hook	4	nr			
H	KCC or equivalent Floor Mounted Door Stop	4	nr			
J	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	8	nr			
K	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	4	set			
L	KCC or equivalent Stainless Steel 304 Standard Thumb turn & Release. 6mm	4	nr			
M	Frisco or equivalent Stainless-Steel Maintenance Free Self- Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014and Certifire CF336	12	nr			
N	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	4	nr			
P	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	4	nr			
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' drawings and specification.</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	146	m			
					To Collection €	

BQ/128

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>Supply, installation and certification of Skyway Fall Prevention Cable System or equal and approved including all support posts, stainless steel components and hardware, compliant with EN795. This system is to be designed by the fall prevention system supplier (not Design Team).</u>						
Bars, rods and the like						
A	like items; Skyway or equivalent fall prevention cable system; 8mm stainless steel cable system on posts as per specification below and manufacturers design and instructions. Posts may deform in the event of a fall but must not come apart – i.e. must be fully welded with no internal spring or other active mechanisms.	36	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Special fittings					
A	Skyway Keeline or equivalent Post system - Upright Posts for Profiled Sheet Roofs; fixed as per Manufacturer's recommendations; fully weathered to paralon in accordance with the Manufacturer's instructions and details; including all cutting, shaping and dressing roof finishes	7	nr			
	Accessories					
B	Skyway Full Body Harness	2	nr			
C	Skyway Standard 2m shock absorbing lanyards	2	nr			
D	Skyway 10m Rope & Grabs	2	nr			
E	Skyway Cable Shuttles	2	nr			
F	Training and operation demonstration	1	item			
	Sundries					
G	Provide for all necessary costs in connection with the design and design approval of the proposed works	1	item			
H	Provide for Professional Indemnity Insurance	1	item			
					To Collection €	

BQ/131

BQ/134

	Description	Qty	Unit	Rate	€	c
	<u>Movement / Expansion Joints; renderplas PVCu Movement & Expansion Joint bead ref. MJ15 or equal and approved; To BS EN 13914-1:2005 - External Rendering; to be used where structural movement joints are located under render & may also be used as day joints or to define different coloured render panels; bead should also be used where a change in background substrate occurs; butt joints to be embedded in silicone mastic to prevent water ingress; mechanical fixing to be avoided to prevent distortion of bead; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
A	movement joints	62	m			
	<u>Stainless steel accessories; fixing with plaster dabs or staples to blockwork/concrete backgrounds; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
B	like items; stop bead; "Expamet Ref 542" or equivalent	118	m			
C	like items; angle bead; "Expamet Ref 545" or equivalent	185	m			
<u>PAINTING AND DECORATING</u>						
PAINTING						
	<u>Contractor to include for painting of all external walls of proposed extension and existing block where alterations are taking place; 3 x no coats DULUX or equivalent trade Weather shield finish externally, colour to be approved by architect prior to application; 5 no different colours paints to be provided to the external walls they listed below.</u>					
	Walls					
D	not exceeding 300mm wide (DULUX 10BB 83/014 WHITE.)	24	m2			
E	exceeding 300mm wide (DULUX 10BB 83/014 WHITE)	372	m2			
	<u>Extra over for</u>					
F	feature colour DULUX 30YY 20/029 DARK GREY	6	m2			
G	feature colour DULUX 50YY 47/053 LIGHT GREY	7	m2			
H	feature colour DULUX 72YY 47/743 DARK GREEN	12	m2			
J	feature colour DULUX 65YY 68/572 LIGHT GREEN	8	m2			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/134 Page No. BQ/135 (41) WALL FINISHES EXTERNALLY Carried to Summary					

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>						
IN SITU FINISHES						
<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>						
A	Walls					
	exceeding 300mm wide	88	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Plaster; to blockwork base; 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 manufacturer's instructions.; steel trowelled</u>					
	Walls					
A	not exceeding 300mm wide	24	m2			
B	exceeding 300mm wide	754	m2			
	Accessories					
C	stop beading	118	m			
D	angle beading	185	m			
	BOARD FINISHES					
	<u>Contractor to include for existing external walls in Main Entrance corridor 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					
E	exceeding 300mm wide	112	m2			
	TILE SLAB AND MOSAIC FINISHES					
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; splashbacks for the WC & Daily Living Skills is to be PRIMUS CERAMICHE TECHNICAL, 15x15cm BLANCO or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
	Walls					
F	exceeding 300mm wide	2	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; Splashbacks for the classrooms indicated on the architects finishes drawings are to be PRIMUS CERAMICHE, TECHNICAL, 15x15cm, OLIVA or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
A	Walls exceeding 300mm wide	5	m2			
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; Splashbacks for the other classrooms indicated on the architects finishes drawings are to be PRIMUS CERAMICHE, TECHNICAL, 15x15cm, AZUR or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
B	Walls exceeding 300mm wide	3	m2			
	<u>Supply and fit Enviroclad Hygenic PVC or equivalent Hygienic Wall Cladding; colour Marigold; to be installed as per manufactures instructions</u>					
C	Walls exceeding 300mm wide	75	m2			
	<u>Extra over the above for</u>					
D	Schluter RONDEC Stainless Steel finishing and edge protection profile	10	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Fleetwood Popular Colour Collection or Equal and approved; Initial / Undercoats: Fleetwood Primer Sealer Undercoat as recommended by manufacturer, 1no.Number of coats; Finishing coats: Fleetwood Popular Colour Collection or Equal and approved, all colours per room to be confirmed, 2no.Number of coats; refer to Architects Specification 28.</u>					
E	Walls not exceeding 300mm wide	24	m2			
F	exceeding 300mm wide	754	m2			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/137 Page No. BQ/138 Page No. BQ/139 (42) WALL FINISHES INTERNALLY Carried to Summary					
BQ/140					

	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>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>					
A	Floors exceeding 300mm wide	25	m2			
					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	45 x 22mm treated continuous softwood grounds; fixed to blockwork / concrete	211	m			
	<u>BOARDING AND SECOND FIXINGS</u>					
	<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	211	m			
	<u>FLOOR, WALL AND CEILING FINISHES</u>					
	IN SITU FINISHES					
	<u>Unilin Thin-R XT/HYF or equivalent manufactured to EN 13165 by Unilin or equivalent, comprising a rigid Polyisocyanurate (PIR) core between low emissivity gas tight facings; with a Lambda value of 0.021 W/mK to achieve a U-Value of 0.11 W/m2K for the floor element. To be installed in accordance with instructions issued by Unilin or equivalent.</u>					
	Insulation					
C	thermal; exceeding 300mm wide; laid horizontally; 150mm deep	354	m2			
D	thermal; not exceeding 300mm high; laid vertically; 40mm Unilin Perimeter Strips (XT/STR) or equivalent around floor perimeter	267	m			
	<u>75mm C35 Concrete screed powerfloated; Reinforced insitu concrete; Grade C32/40; vibrated; to Engineers specification.</u>					
	Screed					
E	exceeding 300mm wide	354	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<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	354	m2			
	SUNDRIES					
	<u>Surface finishes</u>					
B	powerfloating screed	354	m2			
	<u>'Tescon Pro Clima' or equal approved High-Grade Air-Thightness Tape, taped to junctions to external walls; 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>					
	Air-Thightness Tape					
C	not exceeding 225mm wide	267	m			
	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; screed	354	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					
E	exceeding 300mm wide; horizontal	328	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<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 A exceeding 300mm wide; horizontal <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's instructions.</u> Cove Skirtings B girth less than or equal to 150mm <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 C airtight seal <u>Dividing Strips; between floor finishes</u> Sundries D dividing strip	25	m2			
		29	m			
		267	m			
		16	m			

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	overall size 600 x 1800mm long	1	nr			
B	overall size 600 x 1400mm long	1	nr			
	<u>Matwell frame; 25 x 25 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u>					
	Framing					
C	30 x 30 x 4mm thick	10	m			
	<u>Forming or leaving sinkings in concrete for door mats including all cutting and all leveling screeds required</u>					
	Sundries					
D	overall size 600 x 1800mm long	1	nr			
E	overall size 600 x 1400mm long	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					
F	not exceeding 300mm girth	211	m			
					To Collection €	

BQ/146

Description		Qty	Unit	Rate	€	c
<u>(45) CEILING 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>WOODWORK</u>						
IRONMONGERY, ACCESSORIES AND SUNDRIES						
<u>50mm Isover Frame Batt 32 / 60mm Isover Comfort 32 (C10A069; laid over ceiling grid; laid in accordance with manufacturers recommendations; all in accordance with Architects drawings and specification</u>						
A	Insulation					
	exceeding 300mm wide	355	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
<u>FLOOR, WALL AND CEILING FINISHES</u>						
SUSPENDED CEILINGS						
Standard CasoLine MF Suspended Ceiling Metal Stud Partition system type CasoLine MF or equivalent standard non fire rated system to proposed office area. Refer to architects drawings for extents; Product Substantiation Report (PSR) reference C100016 (Attached in Appendix); Airborne Laboratory Sound Resistance (BS EN 717): 56Rw dB; Impact Laboratory Sound Transfer (BS EN 717): 68Lnw dB; Gypframe Ceiling Sections: Gypframe MF5 Ceiling Section Ceiling Section installed maximum centres: 450mm; Gypframe Primary Channels: Gypframe MF7 Primary Channel; Primary Channel installed maximum centres: 1200mm Gypframe Connecting Clips: Gypframe MF9 Connecting Clips used to connect MF5s to MF7s at every intersection; Gypframe Hanging Angle: Gypframe GA1 Steel Angle Hanging Angle installed maximum centres: 1200mm; 1 Gyproc plasterboards: Layer 1 (Inner): 12.5mm Gyproc WallBoard Screw fixings for boarding: Layer 1 (Inner): 25mm Gyproc Drywall Screws; 2mm Gyproc Skim coat plaster (or Carlite Finish) applied in accordance with Gyprocs current recommendation; refer to Architects Specification 26. Ceilings						
A	suspended ceiling system; ceiling depth not exceeding 150mm	45	m2			
<u>Extra over for</u>						
B	Moisture board Ceilings to be provided in all wet room areas, to be installed as per manufactures installation and guidelines	10	m2			
Accessories						
C	Gyproc Sealant applied around perimeter of ceiling	62	m			
D	Airtightness Barrier	62	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Armstrong ULTIMA+ or equivalent Suspended ceiling Tile system throughout the proposed extension; Lightly textured, unperforated, non-directional surface. Factory applied treatment for durability, impact, scratch, soil and humidity resistance. Durable edge treatment; Global White; 19mm thick 600 x 600mm modules; Prelude 24 XL2 / TLS or equivalent 24mm exposed grid system; refer to Architects specification section 24 part 3.</u>					
	Ceilings					
A	suspended ceiling system; ceiling depth not exceeding 150mm	196	m2			
	Accessories					
B	perimeter trim to be provided through, fixed directly to masonry wall	113	m			
C	Airtightness Barrier	113	m			
	<u>Acoustic Ceiling Suspended ceiling system type CasoLine MF or equivalent; Product Substantiation Report (PSR) reference C10A058 / C10A059 / C10A069; Gypframe Ceiling Sections: Gypframe MF5 Ceiling Section; Ceiling Section installed maximum centres: 326-327mm; Gypframe Primary Channels: Gypframe MF7 Primary Channel Primary Channel installed maximum centres: 1000mm; Gypframe Connecting Clips: Gypframe MF9 Connecting Clips used to connect MF5s to MF7s at every intersection; Gypframe Hanging Angle: Gypframe GA1 Steel Angle Hanging Angle installed maximum centres: 900mm; 1 Gyproc plasterboards: Layer 1 (Inner): Rigitone 8-15-20 SUPER; Screw fixings for boarding: Layer 1 (Inner): 25mm Gyproc Drywall Screws; Boards should be positioned with corresponding Rigitone Spacing Tool with joints treated in line with the Rigitone Jointing Process; Gyproc DryWall screws installed at 170mm centres within the field of the board and 150mm centres along board ends; Gyproc DryWall screws must maintain a minimum 10mm penetration through metal framing components; Gyproc Wafer Head Jack-Point Screws used to fix Gypframe GA1 Angle to Gypframe MF7 Primary Channels; refer to Architects Specification 26.</u>					
	Ceilings					
D	suspended ceiling system; ceiling depth not exceeding 150mm	111	m2			
	Accessories					
E	Acoustical sealant: Gyproc Sealant applied around perimeter of ceiling	66	m			
F	Airtightness Barrier	66	m			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	airtight insulated attic hatch	5	nr			
<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						
B	exceeding 300mm wide	322	m2			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/147 Page No. BQ/148 Page No. BQ/149 Page No. BQ/150 (45) CEILING FINISHES Carried to Summary					

	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>					
	RIGID SHEET COVERINGS AND DECKING					
	<u>Kingspan QuadCore KS1000RW or equivalent Standing Seam Insulated Panel; Panel Thickness to be 120mm, provide Thermal Transmittance (U-value) of minimum 0.15W/m2K or better, provided the Thermal Conductivity (Lambda value) to be 0.018 W/mK, system installed to manufactures specification and detailing; refer to Installation Guides and Kingspan Connection details attached in appendix. Colour to be Approved by Architect before order is placed; including necessary fixings etc.; laid in accordance with manufacturers written instructions and Architects Drawings and Specification.</u>					
	Coverings					
A	sloping; not exceeding 15 degrees; mono pitched roof	359	m2			
	<u>Extra over</u> the above for					
B	Kingspan flashing detail; bent 3 times; girth 150 - 300mm	133	m			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	drip flashing with 100mm sealed overlap or sealed butt strap; girth 150 - 300mm bent 3 times	133	m			
B	Gun gradeseal at panel joint inline with internal air seal; air seal 6mm diameter butyl sealant	133	m			
C	Monoridge flashing detail with 150mm sealed butt strap	133	m			
	<u>100mm Knauf Rocksilk or equivalent flexible slab Insulation Earthwool @ 0.037W/mK to be mechanically fixed to the underside of composite panel with suitable length heavy duty roofing fastener designed to penetrate the 0.4mm thick composite panel internal skin, the fastener must penetrate steel a minimum of 20mm; including necessary fixings etc.; laid in accordance with manufacturers written instructions and Architects Drawings and Specification.</u>					
	Coverings					
D	sloping; not exceeding 15 degrees; mono pitched roof	359	m2			
	<u>Supply and install Kingspan Quadcore KS1000RW wall panel to extend down over external wall; Certification of FM/LPCB approval shall be obtained by the Contractor and shall be included in the Safety File; including necessary fixings etc.; laid in accordance with manufacturers written instructions and Architects Drawings and Specification</u>					
	Facias					
E	vertical; girth 150 - 300mm	98	m			
	FLEXIBLE SHEET METAL COVERINGS					
	<u>Code 5 lead to be used for all valleys, flashings and soakers. Lead should be treated with patination oil to prevent staining of slates/tiles etc. Lead for a valley lining should be code 5 and not less than 500mm wide, or greater than 1500mm in length and to be lapped 150mm minimum at each length; all in accordance with Architects drawings and specification</u>					
	Flashings					
F	edge detail; girth 150 - 300mm	98	m			
G	edge detail; girth 300 - 450mm	36	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>DRAINAGE</u>					
	DISPOSAL ABOVE GROUND					
	<u>Kingspan fabricated Hi line gutter to metal roof cladding to supplier details; laid in accordance with manufacturers written instructions and Architects Drawings and Specification</u>					
	Gutters					
A	gutter	98	m			
	<u>Rainwater Goods; 110mm square 0.595mm Kingspan XL Forte TM double sided galvanised steel downpipes, support brackets, collars, shoes rainwater goods; as per Architects specification and drawings</u>					
B	downpipes	43	m			
C	shoes	8	nr			
D	swan necks	8	nr			
E	outlets	8	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					
F	110mm diameter	8	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/152 Page No. BQ/153 Page No. BQ/154 (47) ROOF FINISHES Carried to Summary					

Description	Qty	Unit	Rate	€	c
<u>(51) HEATING CENTRE</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>						
Notes						
A	This Element includes the following scope of works: Mechanical services (installation of complete Heating Centre and BMS installation).					
Preliminary Particulars						
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawings and specifications, schematics and associated equipment schedules	1	item			
General/Special Attendances						
The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.			Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
<u>HEATING CENTRE</u>						
GENERAL						
<u>Supply, installation, testing and commissioning of a the LPHW heating centre as shown on the drawings and described in the Mechanical Specification</u>						
G	Supply, install, commission and test of above Space Heating installations & BMS in accordance with the Mechanical Installation drawings and Specifications	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Supply, install, commission and test all LPHW Pipework and fittings in boilerhouse in accordance with the Mechanical Installation drawings and Specifications	1	Item			
B	Supply, install, commission and test all works in relation to the BMS Controls in accordance with the Mechanical Installation drawings and Specifications	1	Item			
	PRIMARY EQUIPMENT					
	<u>Circulating Pumps; as per Service Engineers Schedules</u>					
C	Grundfos Magna3D 65/150F (twin head) or equivalent; all works, labour, materials, etc. for the supply and installation of all new pump as indicate; all in accordance with Services Engineers Drawings and Specifications	1	Item			
	PIPEWORK, FITTINGS AND ANCILLARIES					
	<u>Distribution system; including valves, tees and bends</u>					
D	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			
E	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			
F	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>					
G	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
H	Identification plates, labels and the like; as Engineer's specification	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Testing</u>					
A	Flush out of new pipework	1	Item			
B	Pressure testing of new pipework	1	Item			
C	Sterilisation	1	Item			
D	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
	<u>Commissioning and system validation</u>					
E	Testing and 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 Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
H	Working drawings	1	Item			
J	Co-ordination drawings	1	Item			
K	As-built drawings	1	Item			
	<u>General Builder's Work</u>					
L	Marking out and supervision of all Builder's Work	1	Item			
M	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/162

Description	Qty	Unit	Rate	€	c
<u>(52) DRAINAGE AND REFUSE DISPOSAL</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/164

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATIONS</u>					
	SOILS & WASTES SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of Internal Drainage systems in accordance with the General & Particular Mechanical Specification					
A	supply, install, commission and test of above ground soils and wastes installation; to BS EN 12056: Drainage Systems Inside Buildings	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Connection to Equipment and Sanitaryware					
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			
	<u>PIPEWORK</u>					
	Exposed waste pipework and waste pipework at L/L in furniture					
E	110mm Dia. uPVC waste pipework to first floor. Joints and connections in soils & waste shall be made with solvent, fusion socket or synthetic o-rings as appropriate in accordance with BS 2492:199	8	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>PIPEWORK, FITTINGS AND ANCILLARIES</u>					
	Waste system; including valves, tees and bends					
A	New 110mm dia. waste pop-up. Contractor shall allow for connecting the 40mm dia. waste pipework from the sink to the 110mm dia. pop-up. Builders waste socket in floor shall be completed by main contractor (1)	3	Nr			
B	New 110mm dia. waste pop-up. Contractor shall allow for connecting the 32mm dia. waste pipework from the WHB to the 110mm dia. pop-up. Builders waste socket in floor shall be completed by main contractor (2)	7	Nr			
C	New 110mm dia. waste pipework from WC waste pipework from WC shall be connected to a new 110mm dia. builders work floor socket or new 110mm dia. soil vent stack. Builders waste socket in floor shall be completed by main contractor (3)	7	Nr			
D	150 x 150mm floor gully. Floor gully shall be connected to 110mm dia. builders work floor socket. Builders waste floor socket shall be installed by the main contractor (4)	1	Nr			
E	New 110mm dia. 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 roof level. Allow for a pipework rise of approximately 4000mm from ground level to roof level (5)	8	Nr			
F	32mm dia. uPVC waste pipework from WHB connected to a 50mm dia. uPVC waste float pipework which in turn shall be connected to a 110mm dia. builders work floor socket or 110mm dia. uPVC soil vent stack. The builders waste socket in floor shall be completed by main contractor. Pipework shall be hidden in the furniture. All waste pipework shall be uPVC (6)	3	Nr			
G	110mm dia. uPVC waste pipework from WHB connected to a 110mm dia. uPVC waste float pipework which in turn shall be connected to a 110mm dia. builders work floor socket or 110mm dia. uPVC soil vent stack. The builders waste socket in floor shall be completed by main contractor. All waste pipework shall be uPVC. (7)	4	Nr			
H	Fire collar, mild steel galvanised, 2 hour fire rating installed on waste pipework passing through fire compartment floor or wall.	5	Nr			
					To Collection €	

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

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/163 Page No. BQ/164 Page No. BQ/165 Page No. BQ/166 Page No. BQ/167 (52) DRAINAGE AND REFUSE DISPOSAL Carried to Summary					
BQ/168					

Description	Qty	Unit	Rate	€	c
<u>(53) WATER DISTRIBUTION</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/170

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATION</u>					
	WATER SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of Water Services Systems in accordance with the General & Particular Mechanical Specification.					
A	supply, install, commission and test of the domestic hot, cold and mains water systems; in accordance with the guidelines concerning the safe design and installation of hot, cold and drinking water systems in accordance with the Services Engineers Drawings and Specifications	1	item			
B	supply, install, commission and test of mains water system; must comply fully with the Services Engineers Drawings and Specifications	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Connection to Equipment and Sanitaryware					
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			
	Thermostatic Mixing Valves					
F	Thermostatic mixing valves (TMV's) shall be fitted at all new wash hand basins and sinks (apart from the Cleaners Sink) 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 in accordance with Services Engineers Drawings and Specifications	11	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Isolation Valves					
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 fitments can be easily isolated; all in accordance with Services Engineers Drawings and Specifications	4	nr			
B	Allow for the supply and local installation of ballofix isolation valves to all cold water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the cold water supply to each sanitary ware fitment can be easily isolated. Ballofix valves are to be installed on all cold water supplies to all new sanitary ware fittings so that it they are capable of independent isolation; all in accordance with Services Engineers Drawings and Specifications	21	nr			
C	Allow for the supply and local installation of ballofix isolation valves to all hot water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the hot water supply to each sanitary ware fitment can be easily isolated. Ballofix valves are to be installed on all hot water supplies to all new sanitary ware fittings so that it they are capable of independent isolation; all in accordance with Services Engineers Drawings and Specifications	12	nr			
D	Allow for the supply and local installation of ballofix isolation valves to all hot water return pipework to the new sanitary ware fitments as indicated on the drawings so that the hot water return to each sanitary ware fitment can be easily isolated; all in accordance with Services Engineers Drawings and Specifications	12	nr			
	Electric shower unit					
E	The contractor shall allow for the supply and installation of an electric shower as indicated on the drawings	1	nr			
	<u>PIPEWORK</u>					
	Distribution system; including valves, tees and bends					
F	15mm dia.MWS pipework; mains water supply system; 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	31	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	28mm dia.MWS pipework; mains water supply system; 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	8	m			
B	15mm DIA.CWS pipework; cold water supply system; 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	98	m			
C	22mm DIA. CWS pipework; cold water supply system; 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	43	m			
D	15mm dia.HWSF; hot water supply system; 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	59	m			
E	22mm dia.HWSF; hot water supply system; 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	32	m			
F	35mm dia.HWSF; hot water supply system; 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	7	m			
G	15mm dia.HWSR pipework; hot water return system; 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	91	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	28mm dia. HWSR pipework; hot water return system; 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	7	m			
	<u>PIPEWORK, FITTINGS AND ANCILLARIES</u>					
	Distribution system; including valves, tees and bends					
B	15mm CWS to WC pipework shall be concealed in the wall (1)	7	Nr			
C	15mm CWS, 15mm HWSF & 15mm HWSR to WH C/W thermostatic mixing valve (TMV). Pipework shall be concealed within the furniture/wall (2)	8	Nr			
D	15mm MWS, 15mm CWS, 15mm HWSF & 15mm (HWSR to sink C/W thermostatic mixing valve (TMV). Pipework shall be concealed within the furniture/wall (3)	3	Nr			
E	22mm CWS direct feed from cold water storage tank to serve electric shower unit. Pipework shall be concealed within the wall (4)	1	Nr			
F	15mm MWS to hot water boiler. Pipework shall be concealed within the furniture/wall (5)	1	Nr			
G	15mm CWS to washing machine. Pipework shall be concealed within the furniture/wall (7)	1	Nr			
H	15mm CWS, 15mm HWSF & 15mm HWSR to cleaners sink. Pipework shall be surface mounted (8)	1	Nr			
J	15mm dia. bend to MWS pipework. Pipework to be concealed in the furniture/wall	4	Nr			
K	28mm dia. bend to MWS pipework. Pipework to be concealed in the furniture/wall	2	Nr			
L	15mm dia. bend to CWS pipework. Pipework to be concealed in the furniture/wall	5	Nr			
M	22mm dia. bend to CWS pipework. Pipework to be concealed in the furniture/wall	22	Nr			
N	15mm dia. bend to HWSF pipework. Pipework to be concealed in the furniture/wall	6	Nr			
P	22mm dia. bend to HWSF pipework. Pipework to be concealed in the furniture/wall	10	Nr			
Q	35mm dia. bend to HWSF pipework. Pipework to be concealed in the furniture/wall	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	15mm dia. bend to HWSR pipework. Pipework to be concealed in the furniture/wall	14	Nr			
B	28mm dia. bend to HWSR pipework. Pipework to be concealed in the furniture/wall	2	Nr			
C	22mm dia. tee to CWS pipework. Pipework to be concealed in the furniture/wall	5	Nr			
D	22mm dia. tee to HWSF pipework. Pipework to be concealed in the furniture/wall	5	Nr			
E	15mm dia. tee to HWRF pipework. Pipework to be concealed in the furniture/wall	5	Nr			
F	Include here for any other valves/fixings not expressly listed above but required to complete the works	1	item			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
G	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
H	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
J	Flush out of new pipework	1	Item			
K	Pressure testing of new pipework	1	Item			
L	Sterilisation of cold water tank and the water system	1	Item			
	Commissioning and system validation					
M	Testing and commissioning as detailed in Engineer's specification	1	Item			
N	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
P	Warranty requirements as detailed in Engineer's specification	1	Item			
					To Collection €	

BQ/176

BQ/177

Description	Qty	Unit	Rate	€	c
<u>(56) SPACE HEATING</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/179

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATION</u>					
	SPACE HEATING SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of all heating systems in accordance with the General & Particular Mechanical Specification					
A	supply, install, commission and test of space heating installation system	1	Item			
	<u>PRIMARY EQUIPMENT</u>					
	Supply, install and fit radiators as specified in the schedule as indicated on the drawings. new steel panel surface mounted low H20 radiators shall be supplied and installed by the mechanical contractor throughout the building indicated on the drawings. the mechanical contractor shall measure up on site and confirm to the Employer's Representative that the radiators scheduled are suitable in all respects for the locations indicated. final locations of all radiators to be agreed on site. radiators shall not be ordered until all locations and sizes have been agreed with the Employer's Representative on site					
B	Maxi WF recessed panel radiators; type 11; size 590 x 630 x 130mm; output @ ?T458	9	Nr			
C	Maxi WF recessed panel radiators; type 11; size 590 x 1030 x 130mm; output @ ?T890	4	Nr			
D	Maxi WF recessed panel radiators; type 11; size 590 x 1230 x 130mm; output @ ?T1105	2	Nr			
E	Maxi WF recessed panel radiators; type 11; size 590 x 2030 x 130mm; output @ ?T1969	1	Nr			
	LPHW radiant panels will be provided in the central activities space controlled via a 2-port valve arrangement. all radiant panels will be insulated and fixed to the ceiling, with no exposed chain suspension system visible. the radiant panels will be constructed from 1.25mm thick steel plate					
F	Carobline grid radiant panels; 595 x 2992mm; output @ ?T863	18	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	2-port room motorised valve (linked to BMS system)					
A	All the radiators in the classrooms are indicated on the drawings shall be provided with individual room temperature control by means of two-port motorised valves that are fed from a digital room temperature stat	6	Nr			
	Wall mounted room thermostat (linked to BMS system)					
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	6	Nr			
	Thermostatic radiator valve					
C	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	68	Nr			
	Lockshield radiator valve					
D	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	68	Nr			
	Isolation valve					
E	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	42	Nr			
	Commissioning set					
F	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	18	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>PIPEWORK</u>					
A	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					
B	15mm dia. flow and return pipe	420	m			
C	20mm dia. flow and return pipe	41	m			
D	32mm dia. flow and return pipe	18	m			
	<u>PIPEWORK FITTINGS AND ANCILLARIES</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					
E	15mm dia. flow and return pipe;bends	240	Nr			
F	15mm dia. flow and return pipe; tees	57	Nr			
G	20mm dia. flow and return pipe; bends	2	Nr			
H	20mm dia. flow and return pipe; tees	2	Nr			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
J	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
K	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
L	Flush out of new pipework	1	Item			
M	Pressure testing of new pipework	1	Item			
N	Power flushing	1	Item			
	Commissioning and system validation					
P	Testing and commissioning as detailed in Engineer's specification	1	Item			
					To Collection €	

BQ/183

BQ/184

Description	Qty	Unit	Rate	€	c
<u>(57) VENTILATION SERVICES</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Mechanical services (supply and extract ventilation systems).		Note			
	Fire dampers/fire collars are to be provided on all ducts where penetrations of fire barriers occur. The contractor must include for this requirement in their rates.		Note			
	All ductwork and grill boxes connected to fan ventilation units are to be fully insulated with foil backed Class O fire rated insulation; this is deemed to be included.		Note			
	All ductwork must be installed in accordance with DW144.		Note			
	Preliminary Particulars					
A	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing 19-052 57(M001) - T1 to 19-052 57(M006) - T1 and specifications, schematics and associated equipment schedules	1	item			
	General/Special Attendances					
	The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
B	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
C	provide for hoisting of all plant as necessary	1	Item			
D	provide for storing all plant as necessary	1	Item			
E	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATION</u>					
	VENTILATION SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of Ventilation Systems in accordance with the General & Particular Mechanical Specification.					
A	supply, install, commission and test of mechanical ventilation systems; shall be installed in accordance with BS 5656	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	In-line mounted extract fans shall be extremely quiet. fan casing manufactured in plastic material and fitted with rubber seals on the inlet and outlet to absorb vibrations. fan shall have a body that can be removed without dismantling the adjacent ducting					
B	TD5100/200 silent ecowattt, 450m3/hr@100pa 0.2W/L/sec in-line duct mounted extract fan. controlled by remote PIR sensor as CPFL-S c/w 15min overrun timer	1	Nr			
C	TD500/150 silent ecowattt, 300m3/hr@100pa 0.2W/L/sec in-line duct mounted extract fan. controlled by remote PIR sensor as CPFL-S c/w 15min overrun timer	6	Nr			
	Recessed extract air grill, grill recessed into the suspended ceiling					
D	160mm diameter disc valve as KSU exhaust valve. 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 finish	8	Nr			
	Recessed passive supply air grill, grill recessed into the suspended ceiling					
E	200mm diameter disc valve as KI 125 supply valve. 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 enamelled white finish. the outer body is fitted with a gasket to form an airtight seal with the mounting ring	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Heat recovery unit that shall be semi-recessed installed in the ceiling void					
A	The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Model ref KERS 50 heat recovery unit, or equivalent	2	Nr			
	External wall mounted louvre for stale air extract from the heat recovery unit; lourves shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all lourves shall be spray painted to a RAL colour to match he external cladding on the building, the grilles to be finishes with a polyester powder coating to RAL colour to match the external cladding on the building					
B	WL38 rectangular cast external lourve with 45 degree blade slope, 300mm diameter, overall size grill 345 x 345mm	2	Nr			
	External wall mounted louvre for fresh air supply to the heat recovery unit; lourves shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all lourves shall be spray painted to a RAL colour to match he external cladding on the building, the grilles to be finishes with a polyester powder coating to RAL colour to match the external cladding on the building					
C	WL38 rectangular cast external lourve with 45 degree blade slope, 300mm diameter, overall size grill 345 x 345mm	2	Nr			
	Extract fans					
D	Fan for cooker hood, roof mounted extract fan. 460m3/hr@250pa. systemair DVN 355BC roof fan, controlled by remote switch	1	Nr			
	Cooker hood					
E	A wall mounted stainless steel extract canopy c/w light, washable metal grease filter, duct, speed controller, lights, external grill & transition pieces as required shall be installed in the kitchen as indicated on the drawings. cooker extractor hood shall be as 600mm "milano" as supplied by vent axia, or equivalent	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	External wall mounted extract louvre; louvres shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all louvres shall be spray painted to a RAL colour to match the external cladding on the building, the grilles to be finished with a polyester powder coating to RAL colour to match the external cladding on the building					
A	WL38 rectangular cast external louvre with 45 degree blade slope, 160mm diameter ductwork, overall size 257 x 257mm	9	Nr			
	External wall mounted passive louvres shall have a metal aluminium finish with steel bird mesh, be suitable for external use. samples of all air grille/diffuser types to be provided on request. all louvres shall be spray painted to a RAL colour to match the external cladding on the building. the grilles shall be finished with a polyester powder coated to match external cladding on the building					
B	WL38 rectangular cast external louvre with 45 degree blade slope, 150mm diameter ductwork, overall size 257 x 257mm	2	Nr			
C	WL38 rectangular cast external louvre with 45 degree blade slope 200mm diameter ductwork, overall size 307 x 307mm	1	Nr			
	Ceiling mounted remote PIR sensor for control of extract fan for the toilets					
D	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 angle as CPFL-S	9	Nr			
	Volume control balancing damper shall be manufactured from aluminium and shall be complete with spigot connections as required. balancing dampers shall be opposed blade type balancing dampers shall include a device for positioning and locking the 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 "HVC-NCA series 900 (model b) for rectangular duct (or equivalent) supplied by lindab, or equivalent					
E	Standard volume control dampers for rectangular ductwork shall be "HVC-NCA series 900 (model b) for rectangular duct or (model c) for circular duct (or equivalent) supplied by lindab, or equivalent.	8	Nr			
	External wall mounted heat recovery louvre					
F		3	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	Heat Recovery Unit;The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Model ref KERS 50 heat recovery unit, or equivalent					
A	Max air flow speed of 50mc/hr, air exchange of 25mc/hr. heat recovery efficiency of 97% noise level at max speed 30db and 11db from 3m away. working range of -20/50 degrees.	3	Nr			
	Fire Damper;The contractor shall supply and fit fire dampers on ductwork as indicated on the drawings. all new "ES" rated fire dampers as indicated on the drawings to have a fire rating of 120 minutes. The "ES" rated fire damper must leak no more than 200m3/hr/m2 at any point during the fire test. this also applies to the largest and smallest size damper to be offered for sale at ambient temperature for the ES criteria to be applicable					
B	100mm diameter fusible link fire damper c/w HVAC frame	7	Nr			
C	200mm diameter fusible link fire damper c/w HVAC frame	1	Nr			
	Classroom semi-recessed heat recovery unit;The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Sense SNH 1000-H-OE1					
D	Nominal air flow 1000m3/hr at a frequency of 50 hz. 230V heat recovery unit; horizontal	2	Nr			
	<u>DUCTWORK</u>					
E	300mm Dia. duct for fresh air supply to the heat recovery unit shall be installed at H/L in the ceiling void and shall discharge through the external wall ductwork shall be installed	13	m			
F	300mm Dia. duct for stale air return from the heat recovery unit shall be installed at H/L in the ceiling void and shall discharge through the external wall. ductwork shall be insulated	13	m			
G	160mm Dia. extract duct exiting the building at high level at approximately 3500mm (to centre of duct) above finished floor level. the duct shall be terminated into a wall mounted extrat louvre. duct shall be installed at H/L in the ceiling void and shall discharge through the external wall at H/L as indicated	19	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	110mm Dia. supply/extract duct exiting the building at high level from the new wall mounted heat recovery unit. size of external grill shall match size of duct. duct shall be installed at H/L and shall discharge through the external wall as indicated	2	m			
B	200mm Dia. passive duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted passive louvre, duct shall be installed at H/L in the ceiling void and shall discharge through the external wall at H/L as indicated	14	m			
	<u>DUCTWORK, FITTINGS AND ANCILLARIES</u>					
	Distribution system; galvanised steel; installed in accordance with Mechanical Drawings and Specification					
C	300mm Dia. duct for fresh air supply to the heat recovery unit shall be installed at H/L in the ceiling void; bends	2	Nr			
D	300mm Dia. duct for stale air return from the heat recovery unit shall be installed at H/L in the ceiling void; bends	2	Nr			
E	160mm Dia. extract duct exiting the building at high level at approximately 3500mm (to centre of duct) above finished floor level. the duct shall be terminated into a wall mounted extrat louvre. duct shall be installed at H/L in the ceiling void; bends	5	Nr			
F	100mm Dia. extract duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted extract louvre. duct shall be installed at H/L in the ceiling void; bends	2	Nr			
G	200mm Dia. passive duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted passive louvre, duct shall be installed at H/L in the ceiling void; bends	4	Nr			
	Labelling and identification					
H	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			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
A	pipework; generally	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	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			
E	Commissioning report confirming the actual flow rate of each gill to the design flow rate and the reason for any discrepancies	1	Item			
F	Warranty requirements as detailed in Engineer's specification	1	Item			
	Operation and maintenance manuals					
G	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	Drawing preparation					
H	Working drawings	1	Item			
J	Co-ordination drawings	1	Item			
K	As-built drawings	1	Item			
	General Builder's Work					
L	Marking out and supervision of all Builder's Work	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	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/194

Description	Qty	Unit	Rate	€	c
<u>(58) PROTECTIVE SERVICES</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
A	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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Mechanical services (protective & fire safety equipment).		Note			
	Preliminary Particulars					
	B The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 53(M001) - T1 to 19-052 53(M006) - T1, specification, schematics and associated equipment schedules	1	item			
C	General/Special Attendances					
	The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
	provide for hoisting of all plant as necessary	1	Item			
	provide for storing all plant as necessary	1	Item			
	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>FITTINGS</u>					
	FITTINGS EQUIPMENT AND FURNITURE					
	<u>GENERAL</u>					
	System; supply and install the following Fire Fighting Equipment; as detailed in Service Engineer's Mechanical specification					
A	supply, install, commission and test of fire safety & protective services equipment to IS EN 3-7 and IS 291	1	item			
	<u>Fire Equipment</u>					
	Fire Equipment; MSC fire or equivalent; complete with all signage, housing, fixings and brackets					
B	Portable fire extinguisher foam (6 litre)	2	nr			
C	Portable fire extinguisher carbon dioxide (2KG)	2	nr			
D	Fire blanket	1	nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
E	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
F	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
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 Mechanical Specification	1	item			
	Drawing preparation					
J	working drawings	1	item			
K	co-ordination drawings	1	item			
L	as-built drawings	1	item			
					To Collection €	

BQ/198

BQ/199

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 Engineers 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 extension 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>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/200 Page No. BQ/201 (59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS Carried to Summary					

Description	Qty	Unit	Rate	€	c
<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>						
Notes						
A	This Element includes the following scope of works: Electrical services in Supply and Main Distribution		Note			
Preliminary Particulars						
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
General/Special Attendances						
The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.			Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>LV 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/205 Page No. BQ/206 Page No. BQ/207 Page No. BQ/208 Page No. BQ/209 (61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION Carried to Summary					

Description	Qty	Unit	Rate	€	c
<u>(62) POWER</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				To Collection €	

Description		Qty	Unit	Rate	€	c
A	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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Electrical services in Power Distribution Services; which includes General and small power installations; Earthing installations, PV installations and EV Charger Installations.		Note			
	Preliminary Particulars					
	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
C	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
	provide for hoisting of all plant as necessary	1	Item			
	provide for storing all plant as necessary	1	Item			
	provide for storing all material as necessary	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATIONS</u>					
	GENERAL SERVICES AND SMALL POWER INSTALLATIONS					
	<u>GENERAL</u>					
	System; supply, install and commission of Power installation in accordance with the Electrical Specification and Drawing 19-052 62(E001) - T1 to 19-052 62(E005) - T1					
A	supply, install, test and commission of general services and small power installations; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Fittings; Socket Outlets; supply and install all as per Engineer's drawings and the Electrical Specification.					
B	Twin 13A switched socket outlet	33	Nr			
C	Below counter twin socket with over counter double pole isolation switch C/W neon indicator for isolation	2	Nr			
	Fittings; Isolators & Switches; supply and install all as per Engineer's drawings and the Electrical Specification.					
D	Double pole isolating switch for isolating the power to the double socket at high level on the dado trunking	2	Nr			
E	Single-phale isolator	1	Nr			
	Fittings; Spurs and Local Supplies; supply and install all as per Engineer's drawings and the Electrical Specification.					
F	Single 13a switched spur outlet for cctv	4	Nr			
G	Single 13a switched spur outlet for door access system	10	Nr			
H	Single 13a switched spur outlet for extract fans	9	Nr			
J	Single 13 a unswitched spur outlet for the power supply to the fire alarm repeated panel. spur outlet installed at approximately 1400mm A.F.F.L	1	Nr			
K	Single 40a unswitched spur outlet for the electricity shower. spur outlet installed at approximately 2600mm A.F.F.L	1	Nr			
L	Single 32a unswitched spur outlet for the electric fire shutter installation	1	Nr			
M	Single 13a switched spur outlet for heat recovery unit	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Single 13a switched spur outlet for the hot water boiler	1	Nr			
B	Single 25a switched spur outlet for the classroom heat recovery unit	2	Nr			
C	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.	7	Nr			
D	12-gang wall mounted control panel for sockets/spurs in sensory room	1	Nr			
	Fittings; Mechanical / Services Power & Controls; supply and install all as per Engineer's drawings and the Electrical Specification.					
E	The Electrical Contractor shall allow for the wiring of extract fans for the toilets and office as indicated on the drawings, which shall be supplied and fitted by the Mechanical Contractor.	1	Item			
F	Remote PIR control for the extract fan	9	Nr			
G	Wall mounted room stat	2	Nr			
	Fittings; Specialist Plates & AV Provisions; supply and install all as per Engineer's drawings and the Electrical Specification.					
H	The Electrical Contractor shall allow for installing Projector Audio Faceplates (PAF's) for the installation of the data projector in each classroom as indicated on the drawings.	1	Item			
J	Projector audio faceplate 1 (high level PAF1)	2	Nr			
K	Projector audio faceplate 2 (teachers desk PAF2)	2	Nr			
	Fittings; Controls & Sensors ; supply and install all as per Engineer's drawings and the Electrical Specification.					
L	Supply and install CO2 monitor with LED display to all teaching spaces; mounting height to be agreed on site; Honeywell 'IAQPoint2Touch', or equivalent (Ref. CO2)	3	Nr			
	Fittings; Data, Communications & AV; supply and install all as per Engineer's drawings and the Electrical Specification.					
M	Data Projector Isolation Switch; K370 WHI, or equivalent; 13amp fuse with fuse holder; for future power supply to the data projector (which shall be installed by others).	1	Item			
N	Cat 6a for data	13	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Cat 6a for door access	9	Nr			
B	Cat 6a outlet for cctv cameras	4	Nr			
C	Wireless access network point (wifi point) point shall be wired in cat 6a cable	2	Nr			
	Attendances to the mechanical installation					
	Motor Control Centre (MCC)					
D	The contractor shall modify the existing MCC Controls panel and bms graphics to include for the new LPHW heating pump.	1	Item			
	Pumps					
E	The Electrical Contractor shall allow for all power supplies to the boiler which shall be a 230volt 13amp fused spur. Allow for connecting the power supply to each pump set. Final location of spur to be confirmed with the Mechanical Contractor.	1	Item			
	Power Wiring					
F	Wiring, unless stated otherwise, shall be carried out in 2-core 4mm sq. PVC cables plus earth. All wiring to control devices shall be carried out in Beldon 9534 4-core screened cable (or equivalent).	1	Item			
	Attendances to the heat recovery units					
G	The Contractor shall allow for the electrical attendances to each heat recovery system; Each heat recovery unit shall be installed in the ceiling void or wall mounted in the location as indicated on the drawings. See drawings for quantities and locations; 230V single phase power supply via a 13-amp fused spur outlet to each heat recovery unit. The fused 13-amp spur outlet shall be located as indicated on the drawing. Final location of fused spur outlet to be confirmed with the heat recovery unit installer; all as per Engineer's drawings and the Electrical Specification.	1	Item			
	Attendances to the two-port valves and local room stats					
	The Contractor shall include for the following electrical attendances to each 2port valve and thermostat arrangement in the rooms as indicated (see drawings for quantities)					
H	230V power supply via a 13 amp unswitched spur for the 2-port valve which shall be installed in the store room at low level alongside the heating manifold. Final location of spur to be confirmed with the system installer	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	2-core 1.5mm ² cable from the wall mounted thermostat to the 2-port valve at low level in the store.	1	Item			
B	Wiring installed in steel conduit from the 2-port valve to the thermostat. Include for all necessary cable containment.	1	Item			
C	Wiring shall be taken from the new electrical board in the building which are indicated on the drawings.	1	Item			
	Multi-Sensory room					
D	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; all as per Engineer's drawings and the Electrical Specification.	1	Item			
	Earthing and bonding					
E	earthing and bonding	1	Item			
	General Services & Small Power Cabling					
F	General Services Cabling	1	item			
G	Small Power Cabling	1	item			
	Final circuits (including points terminations) supply and installation of the following general services and small power; 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.					
H	circuits to all general services and small power fittings	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
J	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
K	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
L	commissioning as detailed in Engineer's specification	1	item			

To Collection €

BQ/217

BQ/218

Description	Qty	Unit	Rate	€	c
<u>(63) LIGHTING</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/220

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATIONS</u>					
	LIGHTING AND EMERGENCY LIGHTING INSTALLATIONS					
	<u>GENERAL</u>					
	System; supply, install and commission of Lighting installation in accordance with Electrical Drawings and Specification					
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			
	<u>PRIMARY EQUIPMENT</u>					
	Primary Equipment					
	Momentary (Push-To-Make) retractive light switches					
C	One-way "push to make" light switch	16	Nr			
D	Tow-way "push to make" light switch	7	Nr			
	Lighting Controls					
E	Ceiling mounted remote pir sensor for the lighting controls	8	Nr			
F	Standalone recessed daylight absence detector and daylight sensor	9	Nr			
	Fittings; supply and install lighting fittings, or equivalent, including all wiring, kilks, flexible cords, supports, steel conduit, labelling and the like all as specified in Electrical Drawings 19-052 63(E001) - T1 to 19-052 63(E005) - T1					
G	New 23.716W LED luminaire	2	Nr			
H	New 29.1W LED luminaire	10	Nr			
J	New 16W LED luminaire	8	Nr			
K	New 37W LED dimmable luminaire (1520mm)	36	Nr			
L	New IP66 25W external eyelid luminaire	12	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Fittings; supply and install external lighting fittings, or equivalent, including all wiring, kilks, flexible cords, supports, steel conduit, labelling and the like all as specified in Electrical Drawing 19-052 63(E001) - T1 to 19-052 63(E005) - T1					
A	Emergency escape exit sign with directions	5	Nr			
B	Stand-alone "area version" LED emergency light fitting	23	Nr			
	Lighting & Emergency Lighting Cabling					
C	Lighting cabling	1	item			
D	Emergency Lighting cabling	1	item			
	Final circuits (including points terminations) supply and installation of the following lighting and emergency lighting; 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.					
E	circuits to all lighting fittings, detectors and switches	1	item			
F	circuits to all emergency lighting fittings, detectors and switches	1	item			
G	All new cables shall be supplied from the new electrical distribution board in the building. Quantity and locations as indicated on the drawings	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
H	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
J	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
K	commissioning as detailed in Engineer's specification	1	item			
L	warranty requirements as detailed in Engineer's specification	1	item			
To Collection €						

BQ/223

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/219 Page No. BQ/220 Page No. BQ/221 Page No. BQ/222 Page No. BQ/223 (63) LIGHTING Carried to Summary					
BQ/224					

Description	Qty	Unit	Rate	€	c
<u>(64) COMMUNICATION SYSTEMS</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
A	This Element includes the following scope of works: DATA & PA installations		Note			
	Preliminary Particulars					
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>DATA / I.T 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
	PRIMARY EQUIPMENT					
	<u>Primary Equipment</u>					
A	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	1	nr			
B	Allow for the supply and installation of a wall mounted comms cabinet in the storeroom. All IT points required for the IT points, telephone points, etc. throughout the new ASD building shall be wired back to this cabinet in the storeroom; 18U wall mounted cabinet. Approximate dimensions of cabinet is 600mm wide x 390mm deep x 370mm high cabinet.; all in accordance with Services Engineers Drawings and Specifications	1	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>					
C	circuits to all data / IT installations complete	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			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Drawing preparation</u>					
A	working drawings	1	item			
B	co-ordination drawings	1	item			
C	as-built drawings	1	item			
	<u>General Builder's Work</u>					
D	marking out and supervision of all Builder's Work	1	item			
E	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			
	<u>PUBLIC ADDRESS INSTALLATIONS</u>					
	GENERAL					
	<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>					
F	supply, install, test and commission of Public Address installations; complete; as per Electrical Services Drawings and Specification	1	Item			
G	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			
H	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>PA speakers in the new school extension</u>					
J	Public address system with talk back facility (internal)	4	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	New pa system junction box which shall be connected into the existing pa system <u>Public Address System Cabling</u>	1	Nr			
B	Public Address System Cabling <u>Final circuits (including points terminations) supply and installation of the Public Address 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>	1	item			
C	circuits to all public address systems TESTING AND COMMISSIONING <u>Identification</u>	1	item			
D	identification plates, labels and the like; as Engineer's specification <u>Testing</u>	1	item			
E	testing and commissioning as detailed in Engineer's specification <u>Commissioning and system validation</u>	1	item			
F	commissioning as detailed in Engineer's specification	1	item			
G	warranty requirements as detailed in Engineer's specification <u>Operation and maintenance manuals</u>	1	item			
H	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification <u>Drawing preparation</u>	1	item			
J	working drawings	1	item			
K	co-ordination drawings	1	item			
L	as-built drawings <u>General Builder's Work</u>	1	item			
M	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	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/232

Description	Qty	Unit	Rate	€	c
<u>(66) CONTAINMENT</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/234

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATION</u>					
	CABLE LADDER / TRAY / TRUNKING 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.					
A	supply and install of cable ladder/tray/trunking installations; complete	1	item			
	<u>CABLE CONTAINMENT</u>					
	Cable Containment					
B	75mm tray for low voltage supplies installed at high level in the ceiling void	34	m			
C	100 x 50mm general services trunking installed at high level in the ceiling void	38	m			
D	50mm steel tray installed at high level in the ceiling void for fire alarm	95	m			
E	100mm tray for low voltage supplies installed at high level in the ceiling void	36	m			
F	200 x 100mm general services trunking installed at high level in the ceiling void	36	m			
G	150mm tray for low voltage supplies installed at high level in the ceiling void	16	m			
H	300 x 100mm general services trunking installed at high level in the ceiling void	16	m			
J	50mm galvanised steel tray for sub mains cabling hidden in ceiling void	10	m			
K	50mm galvanised steel tray for lv cabling hidden in the ceiling void	14	m			
L	Dado trunking	30	m			
M	Conduits	266	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>CABLE CONTAINMENT FITTINGS</u>					
	Cable containment fittings					
A	50mm steel tray installed at high level in the ceiling void for fire alarm; bends	9	Nr			
B	100mm tray for low voltage supplies installed at high level in the ceiling void; bends	5	Nr			
C	200 x 100mm general services trunking installed at high level in the ceiling void; bends	5	Nr			
D	150mm tray for low voltage supplies installed at high level in the ceiling void; bends	3	Nr			
E	300 x 100mm general services trunking installed at high level in the ceiling void; bends	3	Nr			
F	50mm galvanised steel tray for sub mains cabling hidden in ceiling void; bends	3	Nr			
G	50mm galvanised steel tray for lv cabling hidden in the ceiling void; bends	2	Nr			
H	50mm steel tray installed at high level in the ceiling void for fire alarm; tees	11	Nr			
J	100mm tray for low voltage supplies installed at high level in the ceiling void; tees	10	Nr			
K	200 x 100mm general services trunking installed at high level in the ceiling void; tees	10	Nr			
L	150mm tray for low voltage supplies installed at high level in the ceiling void; tees	1	Nr			
M	300 x 100mm general services trunking installed at high level in the ceiling void; tees	1	Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
N	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
P	testing and commissioning as detailed in Engineer's specification	1	item			

To Collection €

BQ/237

BQ/238

Description	Qty	Unit	Rate	€	c
<u>(68) SECURITY & PROTECTION SERVICES</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/240

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATION</u>					
	FIRE ALARM INSTALLATIONS					
	<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					
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	Existing fire alarm systems within the Girls School and Boys School main buildings shall be retained. The existing systems are addressable fire alarm systems with main control panels located as indicated on the drawings. All new fire alarm works shall be fully compatible with and integrated into the existing systems; all in accordance with Services Engineer's Drawings and Specifications	1	Item			
D	Supply, installation, wiring, programming and commissioning of connections between the new fire alarm repeater panels in the Girls School extension and Boys School extension and the existing main fire alarm panels in the existing school buildings, including all cabling, containment, addressing, interfacing, testing and configuration, complete to provide full system integration as indicated on drawings; all in accordance with Services Engineer's Drawings and Specifications	1	Item			
	<u>PRIMARY EQUIPMENT</u>					
	Fire Alarm Control & Repeater Panels					
E	Supply and installation of addressable fire alarm repeater panel, fully networked and interfaced with the existing main fire alarm panels in the existing school buildings, complete with programming, configuration and all associated cabling and containment; installed as indicated on drawings (Ref. FARP)	1	Nr			
F	Addressable fire alarm repeater panels to be open-protocol, fully networkable, complete with LCD display, status indicators, sounder circuits, relays, battery backup and charger; as Advanced MxPro 5 or equivalent, installed as indicated on drawings	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Fire alarm repeater panels to be Advanced MxPro 5 or approved equivalent, installed, programmed and commissioned in accordance with I.S. 3218:2013+A1:2019 and manufacturer's requirements, and as indicated on drawings	1	Item			
	Smoke Detectors					
B	New smoke detector installed in ceiling void c/w remote LED indicator to be installed in the ceiling	10	Nr			
	Combined Smoke Detectors and Sounders					
C	New combined smoke detector and sounder for the fire alarm system	20	Nr			
	Manual Call Points (Break-Glass Units)					
D	New manual call point	7	Nr			
E	New emergency break glass unit for door access system	10	Nr			
	General fire alarm interface units (I/O units					
F	New fire alarm interface	10	Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
G	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
H	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
J	commissioning as detailed in Engineer's specification	1	item			
K	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
L	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
M	working drawings	1	item			
N	co-ordination drawings	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	as-built drawings General Builder's Work	1	item			
B	marking out and supervision of all Builder's Work	1	item			
C	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			
	ACCESS SYSTEM					
	<u>GENERAL</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					
D	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	1	Item			
	<u>PRIMARY EQUIPMENT</u>					
	Door access					
E	New access control door release button	5	Nr			
F	New combined proximity fob reader and keypad for the door access system	11	Nr			
G	New power supply for door access system	11	Nr			
	Emergency call systems Cabling					
H	Emergency call systems Cabling	1	Item			
	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.					
J	circuits to Emergency call systems cabling	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
K	identification plates, labels and the like; as Engineer's specification	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Testing					
A	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
B	commissioning as detailed in Engineer's specification	1	item			
C	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
D	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
E	working drawings	1	item			
F	co-ordination drawings	1	item			
G	as-built drawings	1	item			
	General Builder's Work					
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			
	CCTV SYSTEM					
	<u>GENERAL</u>					
	System; supply, install and commission of the CCTV System; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification					
K	supply, install, test and commission of CCTV System; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Fittings; supply and install all as per Engineer's Drawings and the Electrical Specification.					
L	External cctv camera c/w spur outlet	10	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	New cctv digital recorder for the cctv system in the building	1	Nr			
B	New flat screen cctv monitor for the cctv system	1	Nr			
	Intruder Alarm Installations Cabling					
C	Intruder Alarm Cabling	1	Item			
	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.					
D	circuits to intruder alarm system	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
E	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
F	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
G	commissioning as detailed in Engineer's specification	1	item			
H	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
J	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
K	working drawings	1	item			
L	co-ordination drawings	1	item			
M	as-built drawings	1	item			
	General Builder's Work					
N	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	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			
	EMERGENCY CALL SYSTEM					
	<u>GENERAL</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					
B	supply, install, test and commission of Emergency Call System; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Fittings; supply and install all as per Engineer's drawings and the Electrical Specification.					
C	Pull cord for the emergency call system	8	m			
D	Over door sounder for emergency call system	7	Nr			
E	Reset button for emergency call system	8	Nr			
	Emergency Call System Cabling					
F	Emergency Call System Cabling	1	item			
	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.					
G	circuits to emergency call system	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
H	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
J	testing and commissioning as detailed in Engineer's specification	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Commissioning and system validation					
A	commissioning as detailed in Engineer's specification	1	item			
B	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
C	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
D	working drawings	1	item			
E	co-ordination drawings	1	item			
F	as-built drawings	1	item			
	General Builder's Work					
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			
	INTRUDER ALARM					
	<u>GENERAL</u>					
	System; supply, install and commission of the Intruder Alarml Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification					
J	supply, install, test and commission of Intruder Alarml Installation; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
K	Dual tech passive infra-red motion detector	8	Nr			
L	New intruder alarm door contact	9	Nr			
					To Collection €	

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

BQ/249

BQ/250

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 Engineers 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 equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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 extension 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			
				To Collection €	

BO/253

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/251 Page No. BQ/252 Page No. BQ/253 (69) COMMISSIONING, 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>NOTES</u> Wherever products are specified by proprietary name and the phrase or equivalent is not included, it is to be deemed included For detailed description of workmanship see Service Engineer's Drawings / Specification Information generally 1. It is brought to the Contractors attention that the proposed alterations to the extension 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. 2. 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. 3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document. <u>MECHANICAL INSTALLATIONS</u> Notes 1. All opes to be made good, fire stopped as per building regulations and painted to match new colour proposed for that area. 2. The Main Contractor to allow in programme for all builders work associated with the mechanical installation. 3. The Mechanical Contractor shall provide all ladders, towers, etc to accommodate high level services installation. 4. The Main Contractor to allow for all fire stopping of all opes associated with mechanical installation in compartment walls and floors. 5. The Main Contractor to allow for all roof opes to accommodate mechanical services.		Note Note Note Note Note Note Note Note Note			
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	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			
	Mechanical Internal Builders Works Attendances					
A	Pop ups for soils and wastes in floor slab. see relevant detail on mechanical drawings. max diameter 100mm	50	Nr			
B	Supply free issue all sanitary ware to mechanical contractor	1	nr			
C	Opes through first floor slab for soils and waste services. include for drilling/coring the ope and flashing the ope to ensure that it is watertight	5	nr			
D	Pipe penetrates through internal walls plus making good and fire stopping . max dia. 42mm	100	nr			
E	Chase of internal walls for all water services pipework so that pipework is concealed	140	nr			
F	Main contractor and mechanical contractor to allow for carefully coordination in relation to the installation of the new radiators and radiant heating panels services pipework from existing pipework to the new extension and the refurbishment	1	nr			
G	Painting of exposed heating services pipework to match architects colours	100	nr			
H	Opes through internal walls max pipe diameter 40mm. fire stop and make good.	40	nr			
J	Chase of internal walls for heating services pipework so that pipework is concealed	60	m			
K	Undercut by 10mm internal toilet doors to allow passive ventilation	16	Nr			
L	Opes in internal walls for ventilation diffusers/grilles. allow for making good and fire stopping	35	nr			
M	Opes in internal walls for ventilation ducts. allow for louvres, making good and fire stopping. max dimension 250mm diameter	53	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>ELECTRICAL INSTALLATIONS</u>						
Notes						
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			
Electrical Internal Builders Works Attendances						
A	Excavated external trench c/w 2no 50mm diameter ducts for power supply and fire alarm to external gates. route to be confirmed on site. trench shall be 800mm deep and installed through a concrete/ tarmac area. allow for back filling and finishing surfaces to the existing surface. before back filling, the trench shall be surrounded with 150mm of compacted sand below and above the pipe. sharp edge grains, which may damage pipe and joints should be avoided. pipes , ust be covered by at least 500mm of pea gravel above sand. finish on the trench shall be tarmac	15	m			
B	Excavate external trench c/w 1 no. 100mm dia. uPVC duct for new sub-mains cabling to the external lighting around the entire site. allow for back-filling and finishing surface to the new surface to architects details. see M&E site services drawing 50 (ME001) for further information on the trench required. excavated and dig the external trench as per trench detail on the site services drawing and for back-filling the trench once all works have been completed	220	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Excavate external trench c/w 1 no. 100,, diameter uPVC duct for sub-mains cabling to the electric car charging units around the entire site. allow for back-filling and finishing to the new service to architects details. see M&E site services drawing 50 (ME001) for further information on the trench required. excavate and dig the external trench as per trench detail on the site services drawing and for back-filling the trench once all works have been completed.	50	m			
B	Excavate external trench c/w 1 no. 100mm diameter uPVC duct for new sub-mains cabling to the future electric car charging units around the entire site. allow for backfilling and finishing the new surface to architects details. see M&E site services drawing 50 (ME001) for further information on the trench required. excavate and dig the external trench as per trench detail on the site services drawing and for back-filling the trench once all works have been completed	75	m			
C	Concrete base for external lighting column. see the site services drawing 50 (ME001) for information on locations of all lighting poles. excavate and dig the opes as per detail on the site services drawing and for back-filling the ope with concrete once all works have been completed	6	m			
D	Access chambers for electrical site services	15	m			
E	Number of sockets and fused spurs in building. include for chasing wall for each socket/ fused spur and for chasing back box of item	190	m			
F	Number of it points in building. include for chasing wall for each it point and for chasing back box of item	60	m			
G	Number of mechanical control devices in building. include for chasing wall for each point and for chasing back box of item	20	m			
H	Supports for mounting electrical boards	1	Nr			
J	Provide grounds in stud wall for mounting electrical boards	1	Nr			
K	Opes in roof for ducts. allow for making good and fire stopping	6	Nr			
L	Main contractor to allow for the removal of 100m of existing 600 x 600mm grid ceiling tiles within the existing ground floor corridor area to allow for the new electrical cabling required to connect the new electric car charging units, new site lighting and new PV installation. existing grid ceiling to be re-instated upon completion of the installation of new electrical cabling	100	m			
M	Paint surface mounted conduit drops to devices	50	m			

To Collection €

BQ/259

BQ/260

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 new extension. 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; sanitary; as per Architects drawings and specification ACC WC						
A	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	4	nr			
Fittings; sanitary; as per Architects drawings and specification Accessories						
B	Allow soap dispenser to all WCs and assisted shower room	4	nr			
C	Allow toilet paper dispenser to all WCs and assisted shower room	4	nr			
D	Allow for bins to all WCs and assisted shower room	4	nr			
					To Collection €	

BQ/264

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/263 Page No. BQ/264 (74) SANITARY FITTINGS GENERALLY Carried to Summary					

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>					
SIGNAGE					
<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>					
The following is a non-exhaustive list of signage that is required:					
F3 - KCC grade 304 stainless steel 'fire door keep shut' sign - white text	7	nr			
S1 - KCC grade 304 stainless steel accessible symbol & KCC grade 304 stainless steel unisex symbol		nr			
S2 - KCC grade 304 stainless steel Changing Place symbol		nr			
S3 - Room name and room number. Style of sign to match the style of the existing room signs in the school	6	nr			
			To Collection €		
BQ/268					

	Description	Qty	Unit	Rate	€	c
A	S4 - KCC grade 304 stainless steel Unisex Symbol	4	nr			
B	RS1 - Refuse call point signage - self adhesive polypropylene 300 x 200mm		nr			
	<u>Refer to architects floor plan for location and type of fire extinguisher; travel distance to fire extinguishers should not exceed 25m from any point in the building; the school are to Train all employees in the proper use of fire extinguishers; many service companies and some fire brigades will provide such training; on a monthly basis have a responsible person inspect extinguishers to ensure that they are: Properly mounted and visible. Free from obvious damage; Properly charged, and that Inspection and service tags are current; At least annually have a fire extinguisher service company inspect and service all portable fire extinguishers; 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; the 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 architects signage plan; the below signs are to be provided above each of the fire extinguisher.</u> The following is a non-exhaustive list of signage that is required:					
C	90 x 280mm Self-Adhesive 1.2mm thick; Environmentally Friendly and durable Polypropylene material	3	item			
D	Fire Blanket Signage. To be 1300mm above floor level		item			
					To Collection €	

BQ/270

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			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<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; shelves to consist of 18mm OSB board shelves with surrounding powder coated steel frame; steel frame to be supported off storage unit frame; 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 drawing T403.</u>						
Equipment						
A	storage; 1985mm wide x 600mm deep x 2000mm high; 4nr shelves	3	nr			
B	storage; 2275mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
A	<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 drawing T403.</u> Equipment storage; 4100mm wide x 600mm deep x 2200mm high; 3nr shelves	2	nr			
To Collection €						

Description		Qty	Unit	Rate	€	c
A	<u>SEN Class Storage Unit; Contractor shall provide Shop drawings for approval prior to manufacture of proposed furniture prior to production; Refer to Architects drawings T404 for proposed Storage unit Design; 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; 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; All SEN class base storage unit doors shall be lockable; contractors responsibility to make good of any damage caused throughout proposed works to all new Joinery & Fitted Furniture at their own expense up until the point of handover; refer to Architects drawing T404.</u> Equipment storage; 2750mm wide x 600mm deep x 2200mm high	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Office & SET Room Fitted Furniture (storage); Contractor shall provide; shop drawings for approval prior to manufacture of all proposed furniture; proposed unit carcass to be 18mm FSC certified moisture resistant MDF faced with Formica Colour Core Polar White; all carcasses are to be elevated from the floor level with a 150mm base constructed with kick boarding with formica finish; all doors to consist of 18mm FSC certified MDF faced with Formica Colour Core Polar White; 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; proposed shelving to consist of 16mm FSC certified MDF Faced with Formica Colour Core Polar White; Contractors responsibility to make good of any damage caused throughout proposed works to all new joinery & fitted furniture at their own expense up until the point of handover; refer to Architects drawing T404.</u> Equipment A storage; 3400mm wide x 600mm deep x 2200mm high <u>SEN Classroom Craft Sink Unit Unit; brushed 3mm 316 s/s worktop bonded to a layer on 18mm FSC certified MDF; Note: kitchen carcass to be approved specification by specialist supplier all dimension to be confirmed on site prior to manufacture & installation; melamine carcassing primed and painted to selected colour - to Architects approval; internal shelving to be on adjustable fittings at 150mm centres by Hafele or equal approved; Press doors to consist of formica faced doors on 18mm FSC certified MDF (colour to be approved); hinges & push catch with magnets for openings to be provided by Hafele or equivalent approved by aArchitect with 20mm formica laminate shelving & inside lining; 100mm timber batten to provide base support for kitchen cabinets and to provide for 100mm high aluminium kicker at ground floor level;; refer to Architects drawing T403.</u> Equipment B special purpose Classroom Craft Sink Unit; 3015mm wide x 630mm deep x 850mm high <u>Extra over the above for</u> C Wall mounted, motorised Sink Module 6300-ES11 or equivalent to contain one shallow sink bowl with overflow. D Granberg 6300-ES11 or equivalent Wall Mounted Motorised Height Adjustable Sink Counters located in proposed SEN Classroom; 1500mm long	1	nr			
		1	nr			
		1	nr			
		1	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Mainstream Classroom Craft Sink Unit; Worktop to Architects specificaton with sink hop formed within; Note: kitchen carcass to be approved specification by specialist supplier all dimension to be confirmed on site prior to manufacture & installation; melamine carcassing primed and painted to selected colour - to Architects approval; internal shelving to be on adjustable fittings at 150mm centres by Hafele or equal approved; Press doors to consist of formica faced doors on 18mm FSC certified MDF (colour to be approved); hinges & push catch with magnets for openings to be provided by Hafele or equvalant approved by aArchitect with 20mm formica laminate shelving & inside lining; 100mm timber batten to provide base support for kitchen cabinets and to provide for 100mm high aluminium kicker at ground floor level;; refer to Architects drawing T403.</u> Equipment A special purpose Classroom Craft Sink Unit; 3000mm wide x 630mm deep x 900mm high <u>Extra over</u> the above for B Sonas or equivalent Sandringham select sink pack, inset stainless steel 1.5 bowl and drainer complete with Sandringham dual control sink 1 taphole mixer, half 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 <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 <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 1200 x 1200mm in each mainstream class base in proposed rear extension.</u> Furniture, furnishings, details stated D special purpose; 2400 x 1200mm magnetic white boards	2	nr			
		2	nr			
		3	nr			
		4	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Whiteboards (2400 x 1200mm non-interactive) fixed between 800 – 900mm above FFL</u>					
	Furniture, furnishings, details stated					
A	special purpose; 2400 x 1200mm non-interactive	2	nr			
	<u>Notice board in each mainstream class base in proposed rear extension.</u>					
	Furniture, furnishings, details stated					
B	special purpose; 2400 x 1200mm notice board	3	nr			
	<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.</u>					
	Equipment					
C	special purpose; IT Bench 2500 x 630mm deep	2	nr			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>Blinds shall be manually operated heavy duty contract grade steel tube spring-less rollers, complete with side winder endless ball chain control units and child safety clips appropriately sized for each opening and shall be in compliance with Irish Standard ISEN 13120; Internal Blinds; contractor to allow for blackout blinds throughout and SEN spaces to include patterns (animals, balloons, cars & trucks etc.), design TBC and approved by architect prior to order/ manufacture confirmation; blind material shall be light coloured dense basket weave sunscreen material; blinds must perform such that they eliminate glare to the teaching walls and white/black boards, associated data projection screens and white interactive boards, reduce heat transfer to the room and still permit light transmission to the internal space; daylight transmission, solar absorption, openness factor and shading co-efficiency must all be taken into account when selecting the appropriate sun screen shade cloth for the teaching spaces; in order to achieve the above requirements and ensure the blinds are fit for purpose as outlined consideration should be given to; light transmission values in the 9% to 12% range; solar absorption in the 17% to 20% range; optimum shading coefficient; openness factor in the 3% to 5% range (All blinds on East and South facing Classroom windows to have a 3% openness factor, subject to mock up on site); both blinds to be light in colour and identical in colour; NOTE: these are guidance values and should not be taken as absolute selection criteria; each case must be accessed on its own circumstances; a full-size mock-up for a south facing teaching space with interactive white board and data projector operational must be conducted prior to final selection of the blind material; manufacture and installation of the blinds shall comply with the requirements of the Irish standards ISEN 13120 Internal blinds - performance including safety requirements; the blind material shall be in compliance with Clause 4: Blinds, TGD-030 and should meet the designation of flameproof when assessed in accordance with BS 3120: 1959. a test certificate as in Appendix C of; fire safety of furnishings and fittings in places of assembly; should be supplied for each item specified.</u> Furniture, furnishings, details stated						
A	Blinds; 2800mm wide x 2200mm high	10	nr			
B	Blinds; 1700mm wide x 2200mm high	2	nr			
C	Blinds; 685mm wide x 850mm high	4	nr			
D	Blinds; 1800mm wide x 2200mm high	1	nr			
E	Blinds; 1200mm wide x 2900mm high;	1	nr			
					To Collection €	

BQ/278

BQ/279

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			
				To Collection €	

Description		Qty	Unit	Rate	€	c
	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>Contractor is to allow for removal of existing wet dash render prior to application of new internal lining; disposal of removed material off site.</u>						
A	Remove					
	exceeding 300mm wide	113	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	7	nr			
B	215mm wide internal wall for doors; 2000mm wide x 2100mm high structural opening	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					
C	215mm wide internal wall to allow for fire corridor at stairs.	18	m2			
	<u>Demolition of existing section of external walls to allow for proposed SEN Base Extension; including the removal of existing windows and window surrounds, 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					
D	450mm wide external wall	36	m2			
	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					
E	fixtures and fittings; external signage	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Contractor to allow for the removal of existing external door section of the wall to allow for new 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> Removing A fittings and fixtures; external door and a half; size 1600mm x 2100mm high; include here for removal of part of wall as required	1	nr			
	<u>Contractor to allow for the removal of existing window and section of wall indicated to allow for the installation of new 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> Removing B fixtures and fittings; external window; 1200 x 2200mm high; include here for removal of part of wall as required	1	nr			
	<u>Carefully disconnect, decommission and remove all existing sanitary fittings; including WC's, grab rails and sinks; make good to walls and floors and leave ready for installation of new finishes; include here for disposing sanitary fittings off site at a certified disposal facility; all in accordance with Architect's Drawings and Specification</u> Removing C fittings and fixtures; WC's	8	nr			
	D fittings and fixtures; sinks	8	nr			
	E fittings and fixtures; grab rails	48	nr			
	<u>Contractor to allow for the removal of existing walls to classroom toilets 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 F partitions; toilet partitions	68	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Carefully remove existing craft sink joinery unit, fittings and pipework, including existing wall tiling; including removal of grounds, fixings etc.; disposal off site at a certified disposal facility; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
A	fittings and fixtures; craft sink joinery unit; 2550mm long	5	nr			
	<u>Carefully remove existing internal doors, screens, frame and architraves; including disposal off site at a certified disposal facility and making good surrounding finishes etc.; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
B	fittings and fixtures; internal door; size 1000mm x 2100mm high	2	nr			
C	fittings and fixtures; internal toilet door; size 850mm x 2100mm high	6	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					
D	finishes; existing floor finishes	537	m2			
	<u>Carefully remove existing ceiling finishes; including removal of any trims, hangers, sealants and making good ready for new ceilings; disposal off site at a certified disposal facility; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
E	finishes; existing ceiling finishes	519	m2			
	<u>Contractor to allow for removal of black film on existing window; all in accordance with Architect's Drawings and Specification</u>					
	Removing					
F	finishes; black film on existing windows	1	nr			
					To Collection €	

BQ/287

	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 SEN and 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>FLOOR, WALL AND CEILING FINISHES</u>					
	STUD PARTITIONS					
	<u>100mm X 44mm Rough Timber C16 Treated En14081; 1no. Layer of 12.5mm gyproc Sound Block followed by 12.5mm Gyproc Harito plasterboard; board joints to be staggered, taped and filled; all board joints installed staggered in accordance with Gyprocs current installation recommendations; Gyproc DryWall screws installed at 300mm centres (200mm at external corners) Gyproc DryWall screws must maintain a minimum 10mm penetration through metal framing components; 2mm Gyproc Skim coat plaster (or Carlite Finish) applied in accordance with Gyprocs current recommendations and prepared for selected painted finish; 100mm MOY ACOUSTIC INSULATION 48kg/m3 snugly fit between all studwork; refer to Product data sheets attached in Architects appendix.</u>					
A	Partition 2900mm high	71	m			
B	<u>Extra over</u> the above for angles to partitions	7	nr			
					To Collection €	

BQ/291

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

	Description	Qty	Unit	Rate	€	c
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS						
NOTES						
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 existing SEN and Mainstream classrooms. 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	2	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	2	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 21 PROPOSED WINDOWS AND DOORS for specification.</u>					
	Composite items					
C	Window Type 05; 1200mm wide x 850mm high	1	nr			
	Composite items; External Doorset type 1					
D	D33; 1200mm wide x 2900mm high;	1	nr			
	Composite items; External Doorset type 3					
E	D30; 2845mm wide x 2935mm high structural ope; door and a half 1000mm wide x 2200mm high and 885mm wide x 2200mm high; including manifestations where required	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>					
	AIR SEAL TAPE					
	<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>					
	Sealant					
A	to windows and doors	19	m			
	<u>WINDOW VENTS</u>					
	<u>Window trickle vent to provide background ventilation in accordance with TGD F 2019; all in accordance with Architects Drawings and Specification.</u>					
	Vents					
B	to windows (1 nr)	2	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					
C	not exceeding 300mm girth; window boards	2	m			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/295 Page No. BQ/296 Page No. BQ/297 (31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS Carried to Summary					

Description	Qty	Unit	Rate	€	c
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS					
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 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			
				<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	35 x 15mm, fixing to blockwork backgrounds	148	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	295	m			
	COMPOSITE ITEMS					
	<u>60 minute fire rated; Solid Formica Laminate door 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; doors					
C	Door Type 12; 2000mm wide x 2100mm high structural opening; 2 nr 1000 x 2100mm door leafs	1	nr			
D	Door Type 14; 1800mm wide x 2100mm high structural opening; 2 nr 900 x 2100mm door leafs	1	nr			
	<u>Extra over</u> the above for					
E	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; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification internal doors and screens details.</u>					
	Composite items; doors					
F	Door Type 6; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	3	nr			
G	Door Type 8; 1800mm wide x 2100mm high structural opening; 1050 x 2100mm door with a vision panel and half ope 650mm x 2100mm	1	nr			
					<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
A	Door Type 9; 1800mm wide x 2100mm high structural opening; 2 nr 900 x 2100mm door leafs with vision panels on both doors	3	nr			
B	Door Type 11; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	7	nr			
	<u>Extra over</u> the above for					
C	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	13	nr			
	<u>Formica Laminate door as indicated; 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; doors					
D	Door type 4; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	3	nr			
E	Door type 13; 1250mm wide x 2100mm high structural opening; 1250 x 2100mm door opening	1	nr			
	<u>Formica Laminate door with vision panel as indicated; 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; doors					
F	Door type 5; 1050mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	3	nr			
	<u>Extra over</u> the above for					
G	Pyrostop or equally approved, Georgian wire glass is not permitted; 200mm wide x 1500mm high vision panel	3	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; doors					
H	Door Type 7; 900mm wide x 2100mm high structural opening; 1050 x 2100mm door opening	3	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>30 minute rated Formica Laminate Glazed door and fixed screen; refer to Architects specification for ironmongery and full specification; refer to Architects drawing T402 and specification 29 for internal doors and screens details.</u> Composite items; doors A Door Type 10; 2000mm wide x 2100mm high structural opening; 1050 x 2100mm door opening; 950 x 2100mm side light IRONMONGERY, ACCESSORIES AND SUNDRIES <u>60 minute intumescent fire and smoke seals ; all in accordance with Architects Drawings and Specification</u> Sundries B 15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door <u>30 minute intumescent fire and smoke seals; all in accordance with Architects Drawings and Specification</u> Sundries C 15mm x 4mm intumescent strip; fitted in rebate in door frames to door sides leaf and head; including forming rebate in door <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 D perimeter seal <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> Ironmongery Double Door set - FD 60s E KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign F KCC or equivalent Floor Mounted Door Stop	1	nr			
		13	m			
		83	m			
		53	m			
		8	nr			
		4	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	8	nr			
B	KCC Stainless Steel 304 Square Corner Finger Plate. 75mm x 650mm.	4	nr			
C	KCC or equivalent Round Bar Pull Handle. A25 x B600 x C575 x D75. BT Fixing	4	nr			
D	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	24	nr			
E	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	4	nr			
F	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	4	nr			
G	Frisco or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	12	nr			
H	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	4	nr			
	Ironmongery Double Door set - FD 30s					
J	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	16	nr			
K	KCC or equivalent Floor Mounted Door Stop	8	nr			
L	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	16	nr			
M	KCC Stainless Steel 304 Square Corner Finger Plate. 75mm x 650mm.	8	nr			
N	KCC or equivalent Round Bar Pull Handle. A25 x B600 x C575 x D75. BT Fixing	8	nr			
P	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	48	nr			
Q	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950,24VDC 1amp	8	nr			
R	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	8	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Frisco or equivalent Stainless-Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	24	nr			
B	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	8	nr			
	Ironmongery Single Door set - FD 30s					
C	KCC or equivalent Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign	22	nr			
D	KCC or equivalent Floor Mounted Door Stop	11	nr			
E	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	22	nr			
F	Fire Rated Interdens Based Intumescent KCC or equivalent Lock Protector, 1mm, White	11	nr			
G	Flexfire or equivalent Fire Rated Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	66	nr			
H	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	11	nr			
J	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950, 24VDC 1amp	11	nr			
K	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	11	nr			
L	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	11	set			
M	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon. 5mm	22	nr			
N	Frisco or equivalent Stainless-Steel Maintenance Free Self- Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	33	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	11	nr			
Q	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	11	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Ironmongery Single Door set					
A	KCC or equivalent Floor Mounted Door Stop	3	nr			
B	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	6	nr			
C	Interdens Based Intumescent KCC or equivalent Lock protector, 1mm, White	3	nr			
D	Flexfire or equivalent Graphite Based Intumescent Hinge plate Protector, Radius, 1mm, Black, Self-Adhesive	18	nr			
E	Tigris Premium, or equivalent Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade 160B0C6C	3	nr			
F	KCC or equivalent Linear Boxed Power Supply Unit Certified to EN60950, 24VDC 1amp	3	nr			
G	Dormakaba Rack & Pinion Door Closer c/w Scissor Arm & Hold Open Unit. 53010001	3	nr			
H	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	3	set			
J	KCC or equivalent Stainless Steel 304 Euro Profile Escutcheon. 5mm	6	nr			
K	Frisco or equivalent Stainless-Steel Maintenance Free Self-Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014 and Certifire CF336	9	nr			
L	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	3	nr			
M	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	3	nr			
	Ironmongery Single Dorset for Standard W/C - FD Nil					
N	KCC or equivalent Grade 304 Stainless Steel Unisex Symbol	7	nr			
P	Hat & Coat Hook	7	nr			
Q	KCC or equivalent Floor Mounted Door Stop	7	nr			
R	KCC or equivalent Stainless Steel 304 Square Corner Kicking Plate. H150mm x W900mm.	14	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	KCC or equivalent Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade 37-B030B	7	set			
B	KCC or equivalent Stainless Steel 304 Standard Thumb turn & Release. 6mm	7	nr			
C	Frisco or equivalent Stainless-Steel Maintenance Free Self- Lubricating Thrust Bearing Hinge to hEN1935 grade 476114014and Certifire CF336	21	nr			
D	KCC or equivalent Heavy Duty Modular Mortice Sash lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade 3X510F3BC20 and Certifire CF5234	7	nr			
E	KCC or equivalent Finger shield Finger Guard - Push Side & Pull Side Set x 1,960mm	7	nr			
	<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' drawings and specification.</u>					
	Access Control					
F	Allow for supply of access control as per Galileo Energy Services design	1	item			
	<u>FD60 Swing Door Guard to be installed at the edge of each door; refer to architects floor plan sheet T102 for the location of these door guards; They are indicated with a light blue circle; FINGER SAFETY: Specially designed roller type blind ensures constant tension as the door moves, preventing fingers from inadvertently getting crushed in closing swing doors; MOUNT & ADJUST IN MINUTES: Oblong mounting holes along with an easily removable/mountable fabric cover facilitates mounting to the door and frame in a matter of minutes; STYLISH AND EASY TO MAINTAIN Available in silver, black and white, installs without any screw heads visible. Our removable/mountable fabric cover allows for easy door maintenance and FP60 fabric cleaning; DURABLE & FIRE RESISTANT: Durability tested up to 1,000,000 test cycles and B1 rated fire resistant; SIZE: Available in 1,925mm and 2,015mm lengths for full compliance to EN16005; refer to attached PDF in the appendix documents for the fixings of these finger guards.</u>					
	Finger Guard					
G	Allow for supply of finger guard installation	1	item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<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						
A	not exceeding 300mm girth; architraves	295	m			
					To Collection €	

BQ/308

BQ/311

	Description	Qty	Unit	Rate	€	c
	<u>Movement / Expansion Joints; renderplas PVCu Movement & Expansion Joint bead ref. MJ15 or equal and approved; To BS EN 13914-1:2005 - External Rendering; to be used where structural movement joints are located under render & may also be used as day joints or to define different coloured render panels; bead should also be used where a change in background substrate occurs; butt joints to be embedded in silicone mastic to prevent water ingress; mechanical fixing to be avoided to prevent distortion of bead; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
A	movement joints	5	m			
	<u>Stainless steel accessories; fixing with plaster dabs or staples to blockwork/concrete backgrounds; all in accordance with Architects Drawings and Specification</u>					
	Sundries					
B	like items; stop bead; "Expamet Ref 542" or equivalent	3	m			
C	like items; angle bead; "Expamet Ref 545" or equivalent	3	m			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>1 coat of Dulux Trade Undercoat of selected shade; 1 coat of Dulux Trade High Gloss of selected shade; spot prime any bare metal, metal fixings nail heads etc with: 1 coat(s) of Dulux Trade Metal Primer; prime overall with: 1 coat(s) of Dulux Trade Wood Primer White</u>					
	Walls					
D	not exceeding 300mm wide	1	m2			
E	exceeding 300mm wide	8	m2			
To Collection €						

BQ/313

	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 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 external wall scope associated with the existing SEN and 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. 3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document. <u>FLOOR, WALL AND CEILING FINISHES</u> IN SITU FINISHES <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> Walls					
A	exceeding 300mm wide	181	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	TILE SLAB AND MOSAIC FINISHES					
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; splashbacks for the WC & Daily Living Skills is to be PRIMUS CERAMICHE TECHNICAL, 15x15cm BLANCO or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
A	Walls exceeding 300mm wide	8	m2			
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; Splashbacks for the classrooms indicated on the architects finishes drawings are to be PRIMUS CERAMICHE, TECHNICAL, 15x15cm, OLIVA or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
B	Walls exceeding 300mm wide	9	m2			
	<u>Contractor to allow for tiled splashbacks as per Architects finishes drawings; Splashbacks for the other classrooms indicated on the architects finishes drawings are to be PRIMUS CERAMICHE, TECHNICAL, 15x15cm, AZUR or equivalent tile; if equivalent product is proposed contractor must provide technical submittal to architect for approval.</u>					
C	Walls exceeding 300mm wide	14	m2			
	<u>Supply and fit Enviroclad Hygienic PVC or equivalent Hygienic Wall Cladding; colour Marigold; to be installed as per manufactures instructions</u>					
D	Walls exceeding 300mm wide	181	m2			
E	<u>Extra over</u> the above for Schlüter RONDEC Stainless Steel finishing and edge protection profile	63	m			

To Collection €

Description		Qty	Unit	Rate	€	c
<u>PAINTING AND DECORATING</u>						
PAINTING						
<u>Fleetwood Popular Colour Collection or Equal and approved;</u> <u>Initial / Undercoats: Fleetwood Primer Sealer Undercoat as</u> <u>recommended by manufacturer, 1no.Number of coats; Finishing</u> <u>coats: Fleetwood Popular Colour Collection or Equal and</u> <u>approved, all colours per room to be confirmed, 2no.Number</u> <u>of coats; refer to Architects Specification 28.</u>						
Walls						
A	not exceeding 300mm wide	18	m2			
B	exceeding 300mm wide	1391	m2			
C	exceeding 300mm wide (Painting to walls of Staircore 1)	146	m2			
					<i>To Collection €</i>	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/314 Page No. BQ/315 Page No. BQ/316 (42) WALL FINISHES INTERNALLY Carried to Summary					

	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 existing SEN and 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			
	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>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>					
A	Floors exceeding 300mm wide	76	m2			
					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	45 x 22mm treated continuous softwood grounds; fixed to blockwork / concrete	398	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	398	m			
	<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					
C	horizontal; exceeding 300mm	680	m2			
	SUNDRIES					
	<u>'Tescon Pro Clima' or equal approved High-Grade Air-Tightness Tape, taped to junctions to external walls; 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>					
	Air-Tightness Tape					
D	not exceeding 225mm wide	542	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	FLEXIBLE SHEET FINISHES					
	<u>Polyflor Paletone 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					
A	exceeding 300mm wide; horizontal	582	m2			
	<u>Polyflor - Verona 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	64	m2			
	<u>Polyflor - Quatro 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	13	m2			
	<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's instructions.</u>					
	Cove Skirtings					
D	girth less than or equal to 150mm	112	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Dividing Strips; between floor finishes</u>					
	Sundries					
A	dividing strip	21	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					
B	overall size 600 x 1400mm long	1	nr			
C	overall size 600 x 1600mm long	1	nr			
D	overall size 600 x 2000mm long	1	nr			
	<u>Matwell frame; 25 x 25 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u>					
	Framing					
E	30 x 30 x 4mm thick	14	m			
	<u>Forming or leaving sinkings in concrete for door mats including all cutting and all leveling screeds required</u>					
	Sundries					
F	overall size 600 x 1400mm long	1	nr			
G	overall size 600 x 1600mm long	1	nr			
H	overall size 600 x 2000mm long	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					
J	not exceeding 300mm girth	398	m			
To Collection €						

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/318 Page No. BQ/319 Page No. BQ/320 Page No. BQ/321 (43) FLOOR FINISHES Carried to Summary					
BQ/322					

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>					
	BOARDING AND SECOND FIXINGS					
	<u>Moisture resistant MDF skirting board with a bullnosed profile; countersunk, plugged and screwed to walls; include for all necessary packing pieces together with filling and sanding smooth over all screw heads</u>					
	Second fixings					
A	125 mm high x 22 mm thick fixed on landings	24	m			
B	average 110 - 330mm high; cut to profile of treads & risers; raking	7	m			
C	edge trim to profile of stairs; fixed to concrete	7	m			
	Sundries					
D	non hardening sealant to skirting at wall junction	37	m			
	<u>FLOOR, WALL AND CEILING FINISHINGS</u>					
	IN-SITE FINISHES					
	<u>Chemical DPM installed in accordance with manufacturers instructions; all in accordance with Architects Drawings and Specification</u>					
	Floors					
E	exceeding 300mm wide; to floors		m2			
F	exceeding 300mm wide; to landings		m2			
G	not exceeding 300mm; threads		m			
	<u>Levelling compound installed in accordance with manufacturers instructions; all in accordance with Architects Drawings and Specification</u>					
	Floors					
H	exceeding 300mm wide; to floors		m2			
J	exceeding 300mm wide; to landings		m2			
K	not exceeding 300mm; threads		m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	FLEXIBLE SHEET FINISHES					
	<u>Moisture suppressing DPM; 2 coat epoxy primer DPM where necessary with rising or residual moisture in accordance with the manufacturer's instructions</u>					
	Work to floors on concrete surface					
A	landings	20	m2			
B	treads	26	m			
C	risers	26	m			
	<u>Floor finish type 1: Forbo - Sphera Energetic PUR. Colours TBC. All materials for welding must be overlapped & grooved</u>					
	Floors					
D	landings; over 300 mm wide; in staircase areas	20	m2			
E	treads; < or = 300 mm wide	26	m			
F	risers; < or = 300 mm high	26	m			
	<u>Extra over</u>					
G	proprietary cove former at junction of tread and riser	26	m			
H	mill finish aluminium nosing with coloured pvc inserts or equivalent; fixing in accordance with the manufacturer's instructions to concrete background	26	m			
	SUSPENDED CEILINGS					
	<u>600 x 600 Acoustic Grid Ceiling shall be provided to Stairscore 1 area; to be read in conjunction with architects spec</u>					
	Ceilings					
J	depth of suspension - 150-500mm	33	m2			
	Accessories					
K	acoustic sealant; gyproc sealant applied around perimeter of ceiling	34	m			
L	edge trim	34	m			
	Bulkheads					
M	depth exceeding 500mm not exceeding 1000mm	5	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	overall size 600 x 1400mm long	1	nr			
	<u>Matwell frame; 25 x 25 aluminium edging frame and dividing t-bars (as required), to be fixed into concrete slab</u>					
	Framing					
B	30 x 30 x 4mm thick	3	m			
	<u>Forming or leaving sinkings in concrete for door mats including all cutting and all leveling screeds required</u>					
	Sundries					
C	overall size 600 x 1400mm long	1	nr			
	<u>PAINTING AND DECORATING</u>					
	PAINTING					
	<u>Prepare and apply one coat aluminium primer prior to fixing members</u>					
	General surfaces					
D	not exceeding 300mm girth	37	m			
	<u>Prepare; touch up primer and apply two undercoats, lightly sanding between coats, and one oil based paint full gloss finish to selected colour</u>					
	General surfaces					
E	not exceeding 300mm girth	37	m			
	<u>One thinned coat, two full coats Crown trade Matt Vinyl or equivalent</u>					
	Edge and Ceiling of staircore					
F	over 300 mm girth; in staircase areas	33	m2			

To Collection €

BQ/327

BQ/328

BQ/329

	Description	Qty	Unit	Rate	€	c
	<u>Armstrong ULTIMA+ or equivalent Suspended ceiling Tile system throughout the proposed extension; Lightly textured, unperforated, non-directional surface. Factory applied treatment for durability, impact, scratch, soil and humidity resistance. Durable edge treatment; Global White; 19mm thick 600 x 600mm modules; Prelude 24 XL2 / TLS or equivalent 24mm exposed grid system; refer to Architects specification section 24 part 3.</u> Ceilings					
A	suspended ceiling system; ceiling depth not exceeding 150mm	283	m2			
	Accessories					
B	perimeter trim to be provided through, fixed directly to masonry wall	205	m			
C	Airtightness Barrier	205	m			
	<u>Acoustic Ceiling Suspended ceiling system type CasoLine MF or equivalent; Product Substantiation Report (PSR) reference C10A058 / C10A059 / C10A069; Gypframe Ceiling Sections: Gypframe MF5 Ceiling Section; Ceiling Section installed maximum centres: 326-327mm; Gypframe Primary Channels: Gypframe MF7 Primary Channel Primary Channel installed maximum centres: 1000mm; Gypframe Connecting Clips: Gypframe MF9 Connecting Clips used to connect MF5s to MF7s at every intersection; Gypframe Hanging Angle: Gypframe GA1 Steel Angle Hanging Angle installed maximum centres: 900mm; 1 Gyproc plasterboards: Layer 1 (Inner): Rigitone 8-15-20 SUPER; Screw fixings for boarding: Layer 1 (Inner): 25mm Gyproc Drywall Screws; Boards should be positioned with corresponding Rigitone Spacing Tool with joints treated in line with the Rigitone Jointing Process; Gyproc DryWall screws installed at 170mm centres within the field of the board and 150mm centres along board ends; Gyproc DryWall screws must maintain a minimum 10mm penetration through metal framing components; Gyproc Wafer Head Jack-Point Screws used to fix Gypframe GA1 Angle to Gypframe MF7 Primary Channels; refer to Architects Specification 26.</u> Ceilings					
D	suspended ceiling system; ceiling depth not exceeding 150mm	277	m2			
	<u>Extra over for</u>					
E	Bulkheads to structural steel; not exceeding 300mm depth	13	m2			
					To Collection €	

BQ/331

BQ/332

Description	Qty	Unit	Rate	€	c
<u>(51) HEATING CENTRE</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>						
Notes						
A	This Element includes the following scope of works: Mechanical services (installation of complete Heating Centre and BMS installation).					
Preliminary Particulars						
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawings and specifications, schematics and associated equipment schedules	1	item			
General/Special Attendances						
The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.			Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
<u>HEATING CENTRE</u>						
GENERAL						
<u>Supply, installation, testing and commissioning of a the LPHW heating centre as shown on the drawings and described in the Mechanical Specification</u>						
G	Supply, install, commission and test of above Space Heating installations & BMS in accordance with the Mechanical Installation drawings and Specifications	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Supply, install, commission and test all LPHW Pipework and fittings in boilerhouse in accordance with the Mechanical Installation drawings and Specifications	1	Item			
B	Supply, install, commission and test all works in relation to the BMS Controls in accordance with the Mechanical Installation drawings and Specifications	1	Item			
	PRIMARY EQUIPMENT					
	<u>Circulating Pumps; as per Service Engineers Schedules</u>					
C	Grundfos Magna3D 65/150F (twin head) or equivalent; all works, labour, materials, etc. for the supply and installation of all new pump as indicate; all in accordance with Services Engineers Drawings and Specifications	1	Item			
	PIPEWORK, FITTINGS AND ANCILLARIES					
	<u>Distribution system; including valves, tees and bends</u>					
D	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			
E	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			
F	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>					
G	pipework; generally	1	item			
	TESTING AND COMMISSIONING					
	<u>Identification</u>					
H	Identification plates, labels and the like; as Engineer's specification	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Testing</u>					
A	Flush out of new pipework	1	Item			
B	Pressure testing of new pipework	1	Item			
C	Sterilisation	1	Item			
D	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
	<u>Commissioning and system validation</u>					
E	Testing and 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 Mechanical Specification	1	Item			
	<u>Drawing preparation</u>					
H	Working drawings	1	Item			
J	Co-ordination drawings	1	Item			
K	As-built drawings	1	Item			
	<u>General Builder's Work</u>					
L	Marking out and supervision of all Builder's Work	1	Item			
M	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/339

Description	Qty	Unit	Rate	€	c
<u>(52) DRAINAGE AND REFUSE DISPOSAL</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>						
Notes						
This Element includes the following scope of works: Mechanical services (installation of complete overground soils and wastes installation).			Note			
Preliminary Particulars						
A	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing 19-052 52(M001) - T1 to 19-052 52(M005) - T1 and specifications, schematics and associated equipment schedules	1	item			
General/Special Attendances						
The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.			Note			
B	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
C	provide for hoisting of all plant as necessary	1	Item			
D	provide for storing all plant as necessary	1	Item			
E	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATIONS</u>					
	SOILS & WASTES SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of Internal Drainage systems in accordance with the General & Particular Mechanical Specification					
A	supply, install, commission and test of above ground soils and wastes installation; to BS EN 12056: Drainage Systems Inside Buildings	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Connection to Equipment and Sanitaryware					
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			
	<u>PIPEWORK</u>					
	<u>PIPEWORK, FITTINGS AND ANCILLARIES</u>					
	Waste system; including valves, tees and bends					
E	New 110mm dia. waste pop-up. Contractor shall allow for connecting the 40mm dia. waste pipework from the sink to the 110mm dia. pop-up. Builders waste socket in floor shall be completed by main contractor (1)	3	Nr			
F	New 110mm dia. waste pop-up. Contractor shall allow for connecting the 32mm dia. waste pipework from the WHB to the 110mm dia. pop-up. Builders waste socket in floor shall be completed by main contractor (2)	2	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	New 110mm dia. waste pipework from WC waste pipework from WC shall be connected to a new 110mm dia. builders work floor socket or new 110mm dia. soil vent stack. Builders waste socket in floor shall be completed by main contractor (3)	2	Nr			
B	New 110mm dia. 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 roof level. Allow for a pipework rise of approximately 4000mm from ground level to roof level (5)	1	Nr			
C	Fire collar, mild steel galvanised, 2 hour fire rating installed on waste pipework passing through fire compartment floor or wall.	1	Nr			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
D	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
E	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
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			
	Commissioning and system validation					
K	Testing and commissioning as detailed in Engineer's specification	1	Item			
L	Warranty requirements as detailed in Engineer's specification	1	Item			
	Operation and maintenance manuals					
M	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
					To Collection €	

BQ/344

BQ/345

Description	Qty	Unit	Rate	€	c
<u>(53) WATER DISTRIBUTION</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/347

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATION</u>					
	WATER SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of Water Services Systems in accordance with the General & Particular Mechanical Specification.					
A	supply, install, commission and test of the domestic hot, cold and mains water systems; in accordance with the guidelines concerning the safe design and installation of hot, cold and drinking water systems in accordance with the Services Engineers Drawings and Specifications	1	item			
B	supply, install, commission and test of mains water system; must comply fully with the Services Engineers Drawings and Specifications	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Connection to Equipment and Sanitaryware					
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			
	Thermostatic Mixing Valves					
F	Thermostatic mixing valves (TMV's) shall be fitted at all new wash hand basins and sinks (apart from the Cleaners Sink) 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 in accordance with Services Engineers Drawings and Specifications	7	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	Isolation Valves					
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 fitments can be easily isolated; all in accordance with Services Engineers Drawings and Specifications	3	nr			
B	Allow for the supply and local installation of ballofix isolation valves to all cold water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the cold water supply to each sanitary ware fitment can be easily isolated. Ballofix valves are to be installed on all cold water supplies to all new sanitary ware fittings so that it they are capable of independent isolation; all in accordance with Services Engineers Drawings and Specifications	11	nr			
C	Allow for the supply and local installation of ballofix isolation valves to all hot water supply pipework to the new sanitary ware fitments as indicated on the drawings so that the hot water supply to each sanitary ware fitment can be easily isolated. Ballofix valves are to be installed on all hot water supplies to all new sanitary ware fittings so that it they are capable of independent isolation; all in accordance with Services Engineers Drawings and Specifications	7	nr			
D	Allow for the supply and local installation of ballofix isolation valves to all hot water return pipework to the new sanitary ware fitments as indicated on the drawings so that the hot water return to each sanitary ware fitment can be easily isolated; all in accordance with Services Engineers Drawings and Specifications	7	nr			
	<u>PIPEWORK</u>					
	Distribution system; including valves, tees and bends					
E	15mm dia.MWS pipework; mains water supply system; 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	53	m			
F	15mm DIA.CWS pipework; cold water supply system; 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	69	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	22mm DIA. CWS pipework; cold water supply system; 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	33	m			
B	15mm dia.HWSF; hot water supply system; 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	46	m			
C	22mm dia.HWSF; hot water supply system; 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	40	m			
D	15mm dia.HWSR pipework; hot water return system; 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	86	m			
	<u>PIPEWORK, FITTINGS AND ANCILLARIES</u>					
	Distribution system; including valves, tees and bends					
E	15mm CWS to WC pipework shall be concealed in the wall (1)	4	Nr			
F	15mm CWS, 15mm HWSF & 15mm HWSR to WH C/W thermostatic mixing valve (TMV). Pipework shall be concealed within the furniture/wall (2)	4	Nr			
G	15mm MWS, 15mm CWS, 15mm HWSF & 15mm (HWSR to sink C/W thermostatic mixing valve (TMV). Pipework shall be concealed within the furniture/wall (3)	3	Nr			
H	15mm dia. bend to MWS pipework. Pipework to be concealed in the furniture/wall	8	Nr			
J	15mm dia. bend to CWS pipework. Pipework to be concealed in the furniture/wall	8	Nr			
K	22mm dia. bend to CWS pipework. Pipework to be concealed in the furniture/wall	12	Nr			
L	15mm dia. bend to HWSF pipework. Pipework to be concealed in the furniture/wall	10	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	22mm dia. bend to HWSF pipework. Pipework to be concealed in the furniture/wall	2	Nr			
B	15mm dia. bend to HWSR pipework. Pipework to be concealed in the furniture/wall	12	Nr			
C	15mm dia. tee to CWS pipework. Pipework to be concealed in the furniture/wall	4	Nr			
D	15mm dia. tee to HWSF pipework. Pipework to be concealed in the furniture/wall	3	Nr			
E	22mm dia. tee to HWSF pipework. Pipework to be concealed in the furniture/wall	1	Nr			
F	15mm dia. tee to HWRF pipework. Pipework to be concealed in the furniture/wall	4	Nr			
G	Include here for any other valves/fixings not expressly listed above but required to complete the works	1	item			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
H	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
J	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
K	Flush out of new pipework	1	Item			
L	Pressure testing of new pipework	1	Item			
M	Sterilisation of cold water tank and the water system	1	Item			
	Commissioning and system validation					
N	Testing and commissioning as detailed in Engineer's specification	1	Item			
P	Allow for installing corrosion inhibitor in the heating system once all works have been completed	1	Item			
Q	Warranty requirements as detailed in Engineer's specification	1	Item			

To Collection €

BQ/352

BQ/353

Description	Qty	Unit	Rate	€	c
<u>(56) SPACE HEATING</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/355

	Description	Qty	Unit	Rate	€	c
	<u>MECHANICAL INSTALATION</u>					
	SPACE HEATING SERVICES					
	<u>GENERAL</u>					
	Supply, install and commission of all heating systems in accordance with the General & Particular Mechanical Specification					
A	supply, install, commission and test of space heating installation system	1	Item			
	<u>PRIMARY EQUIPMENT</u>					
	Supply, install and fit radiators as specified in the schedule as indicated on the drawings. new steel panel surface mounted low H20 radiators shall be supplied and installed by the mechanical contractor throughout the building indicated on the drawings. the mechanical contractor shall measure up on site and confirm to the Employer's Representative that the radiators scheduled are suitable in all respects for the locations indicated. final locations of all radiators to be agreed on site. radiators shall not be ordered until all locations and sizes have been agreed with the Employer's Representative on site					
B	Maxi WF recessed panel radiators; type 11; size 590 x 630 x 130mm; output @ ?T458	7	Nr			
C	Maxi WF recessed panel radiators; type 11; size 590 x 1030 x 130mm; output @ ?T890	4	Nr			
D	Maxi WF recessed panel radiators; type 11; size 590 x 1430 x 130mm; output @ ?T1321	2	Nr			
E	Maxi WF recessed panel radiators; type 11; size 590 x 2030 x 130mm; output @ ?T1969	6	Nr			
	LPHW radiant panels will be provided in the central activities space controlled via a 2-port valve arrangement. all radiant panels will be insulated and fixed to the ceiling, with no exposed chain suspension system visible. the radiant panels will be constructed from 1.25mm thick steel plate					
F	Carobline grid radiant panels; 595 x 2992mm; output @ ?T863	6	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	2-port room motorised valve (linked to BMS system)					
A	All the radiators in the classrooms are indicated on the drawings shall be provided with individual room temperature control by means of two-port motorised valves that are fed from a digital room temperature stat	6	Nr			
	Wall mounted room thermostat (linked to BMS system)					
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	6	Nr			
	Thermostatic radiator valve					
C	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	50	Nr			
	Lockshield radiator valve					
D	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	50	Nr			
	Isolation valve					
E	The mechanical contractor shall allow for all necessary radiator control valves for all radiators. control valves for all radiators shall be of the easy clean pattern chromium plated with grey grip moulded hand wheels on the flow and lock shield chromium plated valves on the return. radiator valves shall be scanflow type or equivalent	29	Nr			
	Commissioning set					
F	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	6	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>PIPEWORK</u>					
A	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					
B	15mm dia. flow and return pipe	374	m			
C	20mm dia. flow and return pipe	72	m			
D	15mm dia. flow and return pipe below floor level from heating manifold arrangement	83	m			
	<u>PIPEWORK FITTINGS AND ANCILLARIES</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					
E	15mm dia. flow and return pipe;bends	88	Nr			
F	15mm dia. flow and return pipe; tees	25	Nr			
G	20mm dia. flow and return pipe; bends	8	Nr			
H	20mm dia. flow and return pipe; tees	2	Nr			
J	15mm dia. flow and return pipe below floor level from heating manifold arrangement; bends	18	Nr			
K	15mm dia. flow and return pipe below floor level from heating manifold arrangement; tees	12	Nr			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
L	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
M	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
N	Flush out of new pipework	1	Item			
P	Pressure testing of new pipework	1	Item			
Q	Power flushing	1	Item			
					To Collection €	

BQ/359

BQ/360

Description	Qty	Unit	Rate	€	c
<u>(57) VENTILATION SERVICES</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Mechanical services (supply and extract ventilation systems).		Note			
	Fire dampers/fire collars are to be provided on all ducts where penetrations of fire barriers occur. The contractor must include for this requirement in their rates.		Note			
	All ductwork and grill boxes connected to fan ventilation units are to be fully insulated with foil backed Class O fire rated insulation; this is deemed to be included.		Note			
	All ductwork must be installed in accordance with DW144.		Note			
	Preliminary Particulars					
A	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing 19-052 57(M001) - T1 to 19-052 57(M006) - T1 and specifications, schematics and associated equipment schedules	1	item			
	General/Special Attendances					
	The Contractor is to liaise directly with the Mechanical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
B	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
C	provide for hoisting of all plant as necessary	1	Item			
D	provide for storing all plant as necessary	1	Item			
E	provide for storing all material as necessary	1	Item			
					To Collection €	

Description		Qty	Unit	Rate	€	c
<u>MECHANICAL INSTALATION</u>						
VENTILATION SERVICES						
<u>GENERAL</u>						
Supply, install and commission of Ventilation Systems in accordance with the General & Particular Mechanical Specification.						
A	supply, install, commission and test of mechanical ventilation systems; shall be installed in accordance with BS 5656	1	item			
<u>PRIMARY EQUIPMENT</u>						
In-line mounted extract fans shall be extremely quiet. fan casing manufactured in plastic material and fitted with rubber seals on the inlet and outlet to absorb vibrations. fan shall have a body that can be removed without dismantling the adjacent ducting						
B	TD500/150 silent ecowattt, 300m3/hr@100pa 0.2W/L/sec in-line duct mounted extract fan. controlled by remote PIR sensor as CPFL-S c/w 15min overrun timer	4	Nr			
Recessed extract air grill, grill recessed into the suspended ceiling						
C	160mm diameter disc valve as KSU exhaust valve. 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 finish	4	Nr			
Recessed passive supply air grill, grill recessed into the suspended ceiling						
D	160mm diameter disc valve as KI 125 supply valve. 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 enamelled white finish. the outer body is fitted with a gasket to form an airtight seal with the mounting ring	1	Nr			
Heat recovery unit that shall be semi-recessed installed in the ceiling void						
E	The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Model ref KERS 50 heat recovery unit, or equivalent	3	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	External wall mounted louvre for stale air extract from the heat recovery unit; louvers shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all louvers shall be spray painted to a RAL colour to match the external cladding on the building, the grilles to be finished with a polyester powder coating to RAL colour to match the external cladding on the building					
A	WL38 rectangular cast external louver with 45 degree blade slope, 300mm diameter, overall size grill 345 x 345mm	3	Nr			
	External wall mounted louvre for fresh air supply to the heat recovery unit; louvers shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all louvers shall be spray painted to a RAL colour to match the external cladding on the building, the grilles to be finished with a polyester powder coating to RAL colour to match the external cladding on the building					
B	WL38 rectangular cast external louver with 45 degree blade slope, 300mm diameter, overall size grill 345 x 345mm	3	Nr			
	External wall mounted extract louvre; louvers shall have a metal aluminium finish, have stainless steel bird mesh and be suitable for external use. sample of all grille/diffuser types to be provided on request, all louvers shall be spray painted to a RAL colour to match the external cladding on the building, the grilles to be finished with a polyester powder coating to RAL colour to match the external cladding on the building					
C	WL38 rectangular cast external louver with 45 degree blade slope, 160mm diameter ductwork, overall size 257 x 257mm	4	Nr			
	External wall mounted passive louvers shall have a metal aluminium finish with steel bird mesh, be suitable for external use. samples of all air grille/diffuser types to be provided on request. all louvers shall be spray painted to a RAL colour to match the external cladding on the building. the grilles shall be finished with a polyester powder coated to match external cladding on the building					
D	WL38 rectangular cast external louver with 45 degree blade slope, 150mm diameter ductwork, overall size 257 x 257mm	1	Nr			
E	WL38 rectangular cast external louver with 45 degree blade slope 200mm diameter ductwork, overall size 307 x 307mm	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Ceiling mounted remote PIR sensor for control of extract fan for the toilets					
A	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 angle as CPFL-S	4	Nr			
	Volume control balancing damper shall be manufactured from aluminium and shall be complete with spigot connections as required. balancing dampers shall be opposed blade type balancing dampers shall include a device for positioning and locking the 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 "HVC-NCA series 900 (model b) for rectangular duct (or equivalent) supplied by lindab, or equivalent					
B	Standard volume control dampers for rectangular ductwork shall be "HVC-NCA series 900 (model b) for rectangular duct or (model c) for circular duct (or equivalent) supplied by lindab, or equivalent.	4	Nr			
	External wall mounted heat recovery louvre					
C		3	Nr			
	Heat Recovery Unit;The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Model ref KERS 50 heat recovery unit, or equivalent					
D	Max air flow speed of 50mc/hr, air exchange of 25mc/hr. heat recovery efficiency of 97% noise level at max speed 30db and 11db from 3m away. working range of -20/50 degrees.	3	Nr			
	Classroom semi-recessed heat recovery unit;The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Sense SNH 1000-H-OE1					
E	Nominal air flow 1000m3/hr at a frequency of 50 hz. 230V heat recovery unit; horizontal	3	Nr			
F	The contractor shall allow for supply, installation, testing and commissioning of all the heat recovery units as indicated on the drawings. this includes the heat recovery unit, associated controls, associated works, duct work, etc. Sense SNH 1000-H-OE1	3	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>DUCTWORK</u>					
A	300mm Dia. duct for fresh air supply to the heat recovery unit shall be installed at H/L in the ceiling void and shall discharge through the external wall ductwork shall be installed	16	m			
B	300mm Dia. duct for stale air return from the heat recovery unit shall be installed at H/L in the ceiling void and shall discharge through the external wall. ductwork shall be insulated	8	m			
C	100mm Dia. extract duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted extract louvre. duct shall be installed at H/L in the ceiling void and shall discharge through the external wall at H/L as indicated	17	m			
D	110mm Dia. supply/extract duct exiting the building at high level from the new wall mounted heat recovery unit. size of external grill shall match size of duct. duct shall be installed at H/L and shall discharge through the external wall as indicated	4	m			
E	200mm Dia. passive duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted passive louvre, duct shall be installed at H/L in the ceiling void and shall discharge through the external wall at H/L as indicated	24	m			
	<u>DUCTWORK, FITTINGS AND ANCILLARIES</u>					
	Distribution system; galvanised steel; installed in accordance with Mechanical Drawings and Specification					
F	300mm Dia. duct for fresh air supply to the heat recovery unit shall be installed at H/L in the ceiling void; bends	3	Nr			
G	300mm Dia. duct for stale air return from the heat recovery unit shall be installed at H/L in the ceiling void; bends	2	Nr			
H	200mm Dia. passive duct exiting the building at high level at approximately 3500mm (to centre of the duct) above finished floor level. the duct shall be terminated into a wall mounted passive louvre, duct shall be installed at H/L in the ceiling void; bends	1	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Labelling and identification					
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			
	<u>INSULATION</u>					
	Insulation; in accordance with the Service Engineers Specification					
B	pipework; generally	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
C	Identification plates, labels and the like; as Engineer's specification	1	Item			
	Testing					
D	Testing and commissioning as detailed in Engineer's specification	1	Item			
	Commissioning and system validation					
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			
	Operation and maintenance manuals					
H	Operating and maintenance manuals; manuals shall be available as specified in the Mechanical Specification	1	Item			
	Drawing preparation					
J	Working drawings	1	Item			
					To Collection €	

BQ/368

BQ/369

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 Engineers 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 extension 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			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/373 **BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)** Carried to Summary					
BQ/374					

Description	Qty	Unit	Rate	€	c
<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>						
Notes						
A	This Element includes the following scope of works: Electrical services in Supply and Main Distribution		Note			
Preliminary Particulars						
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
General/Special Attendances						
The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.			Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>LV 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/375 Page No. BQ/376 Page No. BQ/377 Page No. BQ/378 Page No. BQ/379 (61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION Carried to Summary					
BQ/380					

Description	Qty	Unit	Rate	€	c
<u>(62) POWER</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
A	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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Electrical services in Power Distribution Services; which includes General and small power installations; Earthing installations, PV installations and EV Charger Installations.		Note			
	Preliminary Particulars					
	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
C	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
	provide for hoisting of all plant as necessary	1	Item			
	provide for storing all plant as necessary	1	Item			
	provide for storing all material as necessary	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATIONS</u>					
	GENERAL SERVICES AND SMALL POWER INSTALLATIONS					
	<u>GENERAL</u>					
	System; supply, install and commission of Power installation in accordance with the Electrical Specification and Drawing 19-052 62(E001) - T1 to 19-052 62(E005) - T1					
A	supply, install, test and commission of general services and small power installations; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Fittings; Socket Outlets; supply and install all as per Engineer's drawings and the Electrical Specification.					
B	Twin 13A switched socket outlet	49	Nr			
	Fittings; Isolators & Switches; supply and install all as per Engineer's drawings and the Electrical Specification.					
C	Double pole isolating switch for isolating the power to the double socket at high level on the dado trunking	3	Nr			
	Fittings; Spurs and Local Supplies; supply and install all as per Engineer's drawings and the Electrical Specification.					
D	Single 13a switched spur outlet for cctv	9	Nr			
E	Single 13a switched spur outlet for door access system	3	Nr			
F	Single 13a switched spur outlet for extract fans	5	Nr			
G	Single 25a switched spur outlet for the classroom heat recovery unit	3	Nr			
H	12-gang wall mounted control panel for sockets/spurs in sensory room	1	Nr			
	Fittings; Mechanical / Services Power & Controls; supply and install all as per Engineer's drawings and the Electrical Specification.					
J	The Electrical Contractor shall allow for the wiring of extract fans for the toilets and office as indicated on the drawings, which shall be supplied and fitted by the Mechanical Contractor.	1	Item			
K	Remote PIR control for the extract fan	5	Nr			
L	Wall mounted room stat	4	Nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	Fittings; Specialist Plates & AV Provisions; supply and install all as per Engineer's drawings and the Electrical Specification.					
A	The Electrical Contractor shall allow for installing Projector Audio Faceplates (PAF's) for the installation of the data projector in each classroom as indicated on the drawings.	1	Item			
B	Projector audio faceplate 1 (high level PAF1)	3	Nr			
C	Projector audio faceplate 2 (teachers desk PAF2)	3	Nr			
	Fittings; Controls & Sensors ; supply and install all as per Engineer's drawings and the Electrical Specification.					
D	Supply and install CO2 monitor with LED display to all teaching spaces; mounting height to be agreed on site; Honeywell 'IAQPoint2Touch', or equivalent (Ref. CO2)	4	Nr			
	Fittings; Data, Communications & AV; supply and install all as per Engineer's drawings and the Electrical Specification.					
E	Data Projector Isolation Switch; K370 WHI, or equivalent; 13amp fuse with fuse holder; for future power supply to the data projector (which shall be installed by others).	1	Item			
F	Cat 6a for data	15	Nr			
G	Cat 6a for door access	4	Nr			
H	Cat 6a outlet for cctv cameras	9	Nr			
J	Wireless access network point (wifi point) point shall be wired in cat 6a cable	3	Nr			
	Attendances to the mechanical installation					
	Motor Control Centre (MCC)					
K	The contractor shall modify the existing MCC Controls panel and bms graphics to include for the new LPHW heating pump.	1	Item			
	Pumps					
L	The Electrical Contractor shall allow for all power supplies to the boiler which shall be a 230volt 13amp fused spur. Allow for connecting the power supply to each pump set. Final location of spur to be confirmed with the Mechanical Contractor.	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	Power Wiring					
A	Wiring, unless stated otherwise, shall be carried out in 2-core 4mm sq. PVC cables plus earth. All wiring to control devices shall be carried out in Beldon 9534 4-core screened cable (or equivalent).	1	Item			
	Attendances to the heat recovery units					
B	The Contractor shall allow for the electrical attendances to each heat recovery system; Each heat recovery unit shall be installed in the ceiling void or wall mounted in the location as indicated on the drawings. See drawings for quantities and locations; 230V single phase power supply via a 13-amp fused spur outlet to each heat recovery unit. The fused 13-amp spur outlet shall be located as indicated on the drawing. Final location of fused spur outlet to be confirmed with the heat recovery unit installer; all as per Engineer's drawings and the Electrical Specification.	1	Item			
	Attendances to the two-port valves and local room stats					
	The Contractor shall include for the following electrical attendances to each 2port valve and thermostat arrangement in the rooms as indicated (see drawings for quantities)					
C	230V power supply via a 13 amp unswitched spur for the 2-port valve which shall be installed in the store room at low level alongside the heating manifold. Final location of spur to be confirmed with the system installer	1	Item			
D	2-core 1.5mm ² cable from the wall mounted thermostat to the 2-port valve at low level in the store.	1	Item			
E	Wiring installed in steel conduit from the 2-port valve to the thermostat. Include for all necessary cable containment.	1	Item			
F	Wiring shall be taken from the new electrical board in the building which are indicated on the drawings.	1	Item			
	Multi-Sensory room					
G	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; all as per Engineer's drawings and the Electrical Specification.	1	Item			
	Earthing and bonding					
H	earthing and bonding	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	General Services & Small Power Cabling					
A	General Services Cabling	1	item			
B	Small Power Cabling	1	item			
	Final circuits (including points terminations) supply and installation of the following general services and small power; 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.					
C	circuits to all general services and small power fittings	1	item			
	<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 €	

Description		Qty	Unit	Rate	€	c
A	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/388

Description	Qty	Unit	Rate	€	c
<u>(63) LIGHTING</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

BQ/390

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATIONS</u>					
	LIGHTING AND EMERGENCY LIGHTING INSTALLATIONS					
	<u>GENERAL</u>					
	System; supply, install and commission of Lighting installation in accordance with Electrical Drawings and Specification					
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			
	<u>PRIMARY EQUIPMENT</u>					
	Primary Equipment					
	Momentary (Push-To-Make) retractive light switches					
C	One-way "push to make" light switch	8	Nr			
D	Tow-way "push to make" light switch	9	Nr			
	Lighting Controls					
E	Ceiling mounted remote pir sensor for the lighting controls	4	Nr			
F	Standalone recessed daylight absence detector and daylight sensor	10	Nr			
	Fittings; supply and install lighting fittings, or equivalent, including all wiring, kilks, flexible cords, supports, steel conduit, labelling and the like all as specified in Electrical Drawings 19-052 63(E001) - T1 to 19-052 63(E005) - T1					
G	New 23.716W LED luminaire	2	Nr			
H	New 29.1W LED luminaire	10	Nr			
J	New 37W LED dimmable luminaire (1520mm)	15	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	Fittings; supply and install external lighting fittings, or equivalent, including all wiring, kilks, flexible cords, supports, steel conduit, labelling and the like all as specified in Electrical Drawing 19-052 63(E001) - T1 to 19-052 63(E005) - T1					
A	Emergency escape exit sign with directions	6	Nr			
B	Stand-alone "area version" LED emergency light fitting	18	Nr			
	Lighting & Emergency Lighting Cabling					
C	Lighting cabling	1	item			
D	Emergency Lighting cabling	1	item			
	Final circuits (including points terminations) supply and installation of the following lighting and emergency lighting; 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.					
E	circuits to all lighting fittings, detectors and switches	1	item			
F	circuits to all emergency lighting fittings, detectors and switches	1	item			
G	All new cables shall be supplied from the new electrical distribution board in the building. Quantity and locations as indicated on the drawings	1	item			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
H	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
J	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
K	commissioning as detailed in Engineer's specification	1	item			
L	warranty requirements as detailed in Engineer's specification	1	item			
To Collection €						

BQ/393

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/389 Page No. BQ/390 Page No. BQ/391 Page No. BQ/392 Page No. BQ/393 (63) LIGHTING Carried to Summary					
BQ/394					

Description	Qty	Unit	Rate	€	c
<u>(64) COMMUNICATION SYSTEMS</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
A	This Element includes the following scope of works: DATA & PA installations		Note			
	Preliminary Particulars					
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 62(E001) - T1 to 19-052 62(E005) - T1, specification, schematics and associated equipment schedules	1	item			
	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>DATA / I.T 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
	PRIMARY EQUIPMENT					
	<u>Primary Equipment</u>					
A	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	1	nr			
B	Allow for the supply and installation of a wall mounted comms cabinet in the storeroom. All IT points required for the IT points, telephone points, etc. throughout the new ASD building shall be wired back to this cabinet in the storeroom; 18U wall mounted cabinet. Approximate dimensions of cabinet is 600mm wide x 390mm deep x 370mm high cabinet.; all in accordance with Services Engineers Drawings and Specifications	1	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>					
C	circuits to all data / IT installations complete	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			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Drawing preparation</u>					
A	working drawings	1	item			
B	co-ordination drawings	1	item			
C	as-built drawings	1	item			
	<u>General Builder's Work</u>					
D	marking out and supervision of all Builder's Work	1	item			
E	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			
	<u>PUBLIC ADDRESS INSTALLATIONS</u>					
	GENERAL					
	<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>					
F	supply, install, test and commission of Public Address installations; complete; as per Electrical Services Drawings and Specification	1	Item			
G	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			
H	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>PA speakers in the new school extension</u>					
J	Public address system with talk back facility (internal)	5	Nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Public Address System Cabling</u>					
A	Public Address System Cabling	1	item			
	<u>Final circuits (including points terminations) supply and installation of the Public Address 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>					
B	circuits to all public address systems	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	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			
	<u>General Builder's Work</u>					
L	marking out and supervision of all Builder's Work	1	item			
M	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/401

Description	Qty	Unit	Rate	€	c
<u>(66) CONTAINMENT</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
A	This Element includes the following scope of works: Cable Containment Systems		Note			
	Preliminary Particulars					
B	The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 66(E001) - T1 to 19-052 66(E002) - T1, specification, schematics and associated equipment schedules	1	item			
	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
C	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
D	provide for hoisting of all plant as necessary	1	Item			
E	provide for storing all plant as necessary	1	Item			
F	provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATION</u>					
	CABLE LADDER / TRAY / TRUNKING 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.					
A	supply and install of cable ladder/tray/trunking installations; complete	1	item			
	<u>CABLE CONTAINMENT</u>					
	Cable Containment					
B	75mm tray for low voltage supplies installed at high level in the ceiling void	37	m			
C	100 x 50mm general services trunking installed at high level in the ceiling void	38	m			
D	50mm steel tray installed at high level in the ceiling void for fire alarm	51	m			
E	100mm tray for low voltage supplies installed at high level in the ceiling void	19	m			
F	200 x 100mm general services trunking installed at high level in the ceiling void	18	m			
G	Dado trunking	34	m			
H	Conduits	228	m			
	<u>CABLE CONTAINMENT FITTINGS</u>					
	Cable containment fittings					
J	50mm steel tray installed at high level in the ceiling void for fire alarm; bends	1	Nr			
K	100mm tray for low voltage supplies installed at high level in the ceiling void; bends	1	Nr			
L	200 x 100mm general services trunking installed at high level in the ceiling void; bends	1	Nr			
M	50mm steel tray installed at high level in the ceiling void for fire alarm; tees	3	Nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	100mm tray for low voltage supplies installed at high level in the ceiling void; tees	3	Nr			
B	200 x 100mm general services trunking installed at high level in the ceiling void; tees	3	Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
C	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
D	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
E	commissioning as detailed in Engineer's specification	1	item			
F	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
G	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
H	working drawings	1	item			
J	co-ordination drawings	1	item			
K	as-built drawings	1	item			
	General Builder's Work					
L	marking out and supervision of all Builder's Work	1	item			
					To Collection €	

BQ/406

Description	Qty	Unit	Rate	€	c
<u>(68) SECURITY & PROTECTION SERVICES</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 Mechanical & Electrical Engineer's Drawings / Specification		Note			
Notwithstanding the provisions of the Agreed Rules of Measurement (ARM5), the items listed below have not been measured in accordance with ARM5.		Note			
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 Engineers Specification. No adjustment to the Contract Sum shall be made on the basis that such items have not been measured in accordance with ARM5.		Note			
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.		Note			
The Contractor shall ensure that all equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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			
Information generally					
1. It is brought to the Contractors attention that the proposed alterations to the extension 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			
				<i>To Collection €</i>	

Description		Qty	Unit	Rate	€	c
A	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>GENERAL/SPECIAL ATTENDANCE</u>					
	Notes					
	This Element includes the following scope of works: Electrical services in Protective services, which include Fire Alarm, Aspirating Detection, Intruder Alarm, IP CCTV, Access Control and Lightning Protection installations; all in accordance with Services Engineers Drawings and Specifications		Note			
	Preliminary Particulars					
	B The Contractor shall include here for all items deemed necessary relating to this Element of the Works as contained in the Service Engineers Drawing Nr's.19-052 68(E001) - T1 to 19-052 68(E005) - T1, specification, schematics and associated equipment schedules	1	item			
C	General/Special Attendances					
	The Contractor is to liaise directly with the Electrical Specialist with regards to the provision of all attendances required for the mechanical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Any general / special attendances listed below are for guidance purposes only.		Note			
	provide lightweight aluminium mobile scaffolds complete with floors, ladder and handrails, for the installation of new services at high level as per the relevant drawings	1	Item			
	D provide for hoisting of all plant as necessary	1	Item			
	E provide for storing all plant as necessary	1	Item			
	F provide for storing all material as necessary	1	Item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>ELECTRICAL INSTALATION</u>					
	FIRE ALARM INSTALLATIONS					
	<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					
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	Existing fire alarm systems within the Girls School and Boys School main buildings shall be retained. The existing systems are addressable fire alarm systems with main control panels located as indicated on the drawings. All new fire alarm works shall be fully compatible with and integrated into the existing systems; all in accordance with Services Engineer's Drawings and Specifications	1	Item			
D	Supply, installation, wiring, programming and commissioning of connections between the new fire alarm repeater panels in the Girls School extension and Boys School extension and the existing main fire alarm panels in the existing school buildings, including all cabling, containment, addressing, interfacing, testing and configuration, complete to provide full system integration as indicated on drawings; all in accordance with Services Engineer's Drawings and Specifications	1	Item			
	<u>PRIMARY EQUIPMENT</u>					
	Fire Alarm Control & Repeater Panels					
E	Supply and installation of addressable fire alarm repeater panel, fully networked and interfaced with the existing main fire alarm panels in the existing school buildings, complete with programming, configuration and all associated cabling and containment; installed as indicated on drawings (Ref. FARP)	1	Nr			
F	Addressable fire alarm repeater panels to be open-protocol, fully networkable, complete with LCD display, status indicators, sounder circuits, relays, battery backup and charger; as Advanced MxPro 5 or equivalent, installed as indicated on drawings	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
A	Fire alarm repeater panels to be Advanced MxPro 5 or approved equivalent, installed, programmed and commissioned in accordance with I.S. 3218:2013+A1:2019 and manufacturer's requirements, and as indicated on drawings	1	Item			
	Smoke Detectors					
B	New smoke detector installed in ceiling void c/w remote LED indicator to be installed in the ceiling	10	Nr			
	Combined Smoke Detectors and Sounders					
C	New combined smoke detector and sounder for the fire alarm system	14	Nr			
	Manual Call Points (Break-Glass Units)					
D	New manual call point	3	Nr			
E	New emergency break glass unit for door access system	3	Nr			
	General fire alarm interface units (I/O units					
F	New fire alarm interface	3	Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
G	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
H	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
J	commissioning as detailed in Engineer's specification	1	item			
K	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
L	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			
	Drawing preparation					
M	working drawings	1	item			
N	co-ordination drawings	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	as-built drawings General Builder's Work	1	item			
B	marking out and supervision of all Builder's Work	1	item			
C	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			
	INTRUDER ALARM					
	<u>GENERAL</u>					
	System; supply, install and commission of the Intruder Alarml Installation; in accordance with Service Engineer's Drawing 19-052 68(E001) - T1 to 19-052 68(E005) - T1 and the Electrical Specification					
D	supply, install, test and commission of Intruder Alarml Installation; complete; as per Electrical Services Drawings and Specification	1	item			
	<u>PRIMARY EQUIPMENT</u>					
E	Dual tech passive infra-red motion detector	10	Nr			
F	New intruder alarm door contact	3	Nr			
	<u>TESTING AND COMMISSIONING</u>					
	Identification					
G	identification plates, labels and the like; as Engineer's specification	1	item			
	Testing					
H	testing and commissioning as detailed in Engineer's specification	1	item			
	Commissioning and system validation					
J	commissioning as detailed in Engineer's specification	1	item			
K	warranty requirements as detailed in Engineer's specification	1	item			
	Operation and maintenance manuals					
L	operating and maintenance manuals; manuals shall be available as specified in the Electrical Specification	1	item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Drawing preparation					
A	working drawings	1	item			
B	co-ordination drawings	1	item			
C	as-built drawings	1	item			
	General Builder's Work					
D	marking out and supervision of all Builder's Work	1	item			
E	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			
	INDUCTION LOOP SYSTEM					
	<u>GENERAL</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					
F	supply, install, test and commission of Induction Loop System; complete	1	item			
	<u>PRIMARY EQUIPMENT</u>					
	Fittings; supply and install all as per Engineer's Drawings and the Electrical Specification.					
G	Induction loop system	2	Nr			
H	Amplifier for induction loop system	2	Nr			
	Induction Loop System Cabling					
J	Induction Loop System Cabling	71	m			
	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.					
K	circuits to all Induction Loop systems	1	item			

To Collection €

BQ/413

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 Engineers 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 equipment, fittings, lighting controls, sensors, switches, cabling, containment systems, wiring accessories, supports and ancillary items, builders work interfaces, whether specifically quantified or not, are fully allowed for in order to deliver a complete, coordinated and fully functioning electrical 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 extension 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			
				To Collection €	

BO/416

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/414 Page No. BQ/415 Page No. BQ/416 (69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS Carried to Summary					

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; sanitary; as per Architects drawings and specification ACC WC						
A	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	3	nr			
Fittings; sanitary; as per Architects drawings and specification WC's						
B	Doc M accessible W/C pack	3	nr			
					To Collection €	

BQ/421

BQ/422

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 existing SEN and Mainstream classrooms. 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>						
SIGNAGE						
<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>						
The following is a non-exhaustive list of signage that is required:						
A	F3 - KCC grade 304 stainless steel 'fire door keep shut' sign - white text	20	nr			
B	S1 - KCC grade 304 stainless steel accessible symbol & KCC grade 304 stainless steel unisex symbol	3	nr			
C	S2 - KCC grade 304 stainless steel Changing Place symbol	1	nr			
D	S3 - Room name and room number. Style of sign to match the style of the existing room signs in the school	14	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	S4 - KCC grade 304 stainless steel Unisex Symbol	3	nr			
B	RS1 - Refuse call point signage - self adhesive polypropylene 300 x 200mm	1	nr			
	<u>Refer to architects floor plan for location and type of fire extinguisher; travel distance to fire extinguishers should not exceed 25m from any point in the building; the school are to Train all employees in the proper use of fire extinguishers; many service companies and some fire brigades will provide such training; on a monthly basis have a responsible person inspect extinguishers to ensure that they are: Properly mounted and visible. Free from obvious damage; Properly charged, and that Inspection and service tags are current; At least annually have a fire extinguisher service company inspect and service all portable fire extinguishers; 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; the 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; the below signs are to be provided above each of the fire extinguisher.</u> The following is a non-exhaustive list of signage that is required:					
C	F1 * F2 - 90 x 280mm Self-Adhesive 1.2mm thick; Environmentally Friendly and durable Polypropylene material	5	item			
D	F4 - Fire Blanket Signage. To be 1300mm above floor level	1	item			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/425 Page No. BQ/426 (71) DISPLAY, CIRCULATION FITTINGS Carried to Summary					

BQ/428

	Description	Qty	Unit	Rate	€	c
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>All Kitchen units are to be 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;</u> <u>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.</u> Kitchen Unit					
A	4445mm long refer to drawing T404	5	m			
	<u>Extra over fpr</u>					
B	Sonas select sink pack, inset stainless steel 1.5 bowl and drainer complete with Sandringham dual control sink 1 taphole mixer, half inch basket strainer waste range or equal approved including all plumbing, traps etc. contractor to measure on site & confirm dimensions prior to ordering of materials.	1	nr			
					To Collection €	

BQ/430

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			
<u>FITTINGS</u>						
FITTINGS, EQUIPMENT AND FURNITURE						
<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; shelves to consist of 18mm OSB board shelves with surrounding powder coated steel frame; steel frame to be supported off storage unit frame; 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 drawing T403.</u>						
Equipment						
A	storage; 3660mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
B	storage; 2650mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	storage; 2560mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
B	storage; 2260mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
C	storage; 1240mm wide x 600mm deep x 2000mm high; 4nr shelves	1	nr			
	<u>Proposed open storage unit frame to be constructed using 50mm FSC certified MDF with formaica facing to top, sides and 18mm SC certified MDF with formaica facing backing, colour tbc by architect prior to manufacture of storage unit; all frame fixings to be concealed throughout; shelves to consist of 18mm FSC certified MDF with formaica facing with consealed fixings; 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 T404.</u>					
	Equipment					
D	open storage; 3600mm wide x 400mm deep x 1350mm high	1	nr			
	<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 drawing T404.</u>					
	Equipment					
E	lockable base unit storage; 3600mm wide x 600mm deep x 850mm high	1	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Mainstream Classroom Craft Sink Unit; Worktop to Architects specification with sink hop formed within; Note: kitchen carcass to be approved specification by specialist supplier all dimension to be confirmed on site prior to manufacture & installation; melamine carcassing primed and painted to selected colour - to Architects approval; internal shelving to be on adjustable fittings at 150mm centres by Hafele or equal approved; Press doors to consist of formica faced doors on 18mm FSC certified MDF (colour to be approved); hinges & push catch with magnets for openings to be provided by Hafele or equivalent approved by aArchitect with 20mm formica laminate shelving & inside lining; 100mm timber batten to provide base support for kitchen cabinets and to provide for 100mm high aluminium kicker at ground floor level;; refer to Architects drawing T403.</u>					
	Equipment					
A	special purpose Classroom Craft Sink Unit; 3000mm wide x 630mm deep x 900mm high	4	nr			
	<u>Extra over</u> the above for					
B	Sonos or equivalent Sandringham select sink pack, inset stainless steel 1.5 bowl and drainer complete with Sandringham dual control sink 1 taphole mixer, half 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	4	nr			
					To Collection €	

BQ/434

	Description	Qty	Unit	Rate	€	c
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. Equipment A special purpose; IT Bench 2500 x 630mm deep		2	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	<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 A storage; 2010mm wide x 600mm deep x 2200mm high <u>Extra over for</u> B 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. <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			
		1	nr			
		5	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<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 1200 x 1200mm in each mainstream class base in proposed rear extension.</u> Furniture, furnishings, details stated A special purpose; 2400 x 1200mm magnetic white boards <u>Notice board in each mainstream class base in proposed rear extension.</u> Furniture, furnishings, details stated B special purpose; 2400 x 1200mm notice board	6	nr			
		4	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Blinds shall be manually operated heavy duty contract grade steel tube spring-less rollers, complete with side winder endless ball chain control units and child safety clips appropriately sized for each opening and shall be in compliance with Irish Standard ISEN 13120; Internal Blinds; contractor to allow for blackout blinds throughout and SEN spaces to include patterns (animals, balloons, cars & trucks etc.), design TBC and approved by architect prior to order/ manufacture confirmation; blind material shall be light coloured dense basket weave sunscreen material; blinds must perform such that they eliminate glare to the teaching walls and white/black boards, associated data projection screens and white interactive boards, reduce heat transfer to the room and still permit light transmission to the internal space; daylight transmission, solar absorption, openness factor and shading co-efficiency must all be taken into account when selecting the appropriate sun screen shade cloth for the teaching spaces; in order to achieve the above requirements and ensure the blinds are fit for purpose as outlined consideration should be given to; light transmission values in the 9% to 12% range; solar absorption in the 17% to 20% range; optimum shading coefficient; openness factor in the 3% to 5% range (All blinds on East and South facing Classroom windows to have a 3% openness factor, subject to mock up on site); both blinds to be light in colour and identical in colour; NOTE: these are guidance values and should not be taken as absolute selection criteria; each case must be accessed on its own circumstances; a full-size mock-up for a south facing teaching space with interactive white board and data projector operational must be conducted prior to final selection of the blind material; manufacture and installation of the blinds shall comply with the requirements of the Irish standards ISEN 13120 Internal blinds - performance including safety requirements; the blind material shall be in compliance with Clause 4: Blinds, TGD-030 and should meet the designation of flameproof when assessed in accordance with BS 3120: 1959. a test certificate as in Appendix C of; fire safety of furnishings and fittings in places of assembly; should be supplied for each item specified.</u> Furniture, furnishings, details stated					
A	Blinds; 1200mm wide x 850mm high	1	nr			
B	Blinds; 1200mm wide x 2900mm high;	1	nr			
C	Blinds; 2845mm wide x 2935mm high	1	nr			
					To Collection €	

BQ/439

BQ/440

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>						
ALTERATIONS						
<u>Allowance for decommissioning of existing surface, foul and watermains 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 M073-TCE-B1-00-DR-C-2002 for locations.</u>						
Removing						
A	mechanical installations; surface water drainage diversion and removal	1	item			
B	mechanical installations; foul water drainage diversion and removal	1	item			
C	mechanical installations; watermain diversion and removal	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Where resurfacing of existing tarmacadam is required the existing top layers of the tarmacadam is to be removed; refer to Architects drawings and specification.</u>					
A	Removing finishes; existing tarmacadam; 140mm deep	1031	m2			
	<u>Contractor is to allow for the removal of existing bike stand & shelter to allow for the construction access; 15 number bike stands are to be relocated for the duration of the construction; including breaking out, disposal off site to a certified disposal facility, making good surrounds; all in accordance with Architect's Drawings and Specification</u>					
B	Removing fittings; bike stand and shelter	1031	m2			
	<u>Contractor is to allow for the removal of existing entrance ramp into the car park to allow for the new proposed layout of the car park which is indicated on architects proposed site plan; including breaking out, disposal off site to a certified disposal facility, making good surrounds; all in accordance with Architect's Drawings and Specification</u>					
C	Removing finishes; car park ramp	36	m2			
	<u>EXCAVATION AND EARTHWORK</u>					
	EXCAVATION					
	<u>Contractor to fully remove tree including stump and roots to allow for proposed extension; including disposal.</u>					
D	Removing girth exceeding 450mm not exceeding 1500mm; back fill will excavated top soil	25	nr			
	<u>Excavation</u>					
E	Topsoil for preservation average depth 200mm	500	m2			
F	Reduce levels not exceeding 2.00m deep (building)	176	m3			
G	not exceeding 2.00m deep (paths)	588	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	not exceeding 2.00m deep (road)	184	m3			
B	not exceeding 2.00m deep (paving)	82	m3			
	<u>Extra over for</u>					
C	breaking up existing; hard surfaces; concrete footpath and paved areas	2286	m2			
	Disposal					
D	surface water; keep the surface of the site free of surface water	1	item			
E	ground water; keeping the excavations free of ground water	1	item			
F	excavated material off site	1030	m3			
	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					
G	average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	158	m3			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/443 Page No. BQ/444 Page No. BQ/445 Page No. BQ/446 (10) PREPARED SITE Carried to Summary					
BQ/447					

	Description	Qty	Unit	Rate	€	c
	<u>(20) SITE STRUCTURES (SOFT PLAY AREA)</u>					
	<u>EXCAVATION AND EARTHWORK</u>					
	<u>EXCAVATION</u>					
	<u>Excavation</u>					
	Topsoil for preservation					
A	average depth 200mm	150	m2			
	Reduce levels					
B	not exceeding 2.00m deep	293	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	topsoil for preservation on site	30	m3			
F	excavated material off site	293	m3			
	<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; material stated					
G	average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	45	m3			
	<u>400mm min. 6F2 capping layer; in accordance with Structural Engineer's Specification; depositing and compacting in layers 150mm thick</u>					
	Filling; material stated					
H	average thickness exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	60	m3			
					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	150	m2			
<u>SURFACE WATER DRAINAGE</u>						
DRAINAGE BELOW GROUND						
<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						
B	channels	53	m			
C	outlet connections	2	nr			
D	sump units	2	nr			
<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 70.</u>						
Soft Play						
E	20mm EPDM; 30mm shock pad layer	150	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	2400mm high	44	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/448 Page No. BQ/449 Page No. BQ/450 (20) SITE STRUCTURES (SOFT PLAY AREA) Carried to Summary					

	Description	Qty	Unit	Rate	€	c
	<u>(20) SITE STRUCTURES (SENSORY GARDEN)</u>					
	<u>EXCAVATION AND EARTHWORK</u>					
	EXCAVATION					
	<u>Excavation</u>					
A	Topsoil for preservation average depth 200mm	145	m2			
B	Reduce levels not exceeding 2.00m deep	65	m3			
C	Disposal 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	topsoil for preservation on site	29	m3			
F	excavated material off site	65	m3			
	FILLING					
	<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>					
G	Filling; material stated average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	37	m3			
	<u>50mm compacted 6–10mm angular crushed gravel; form finished surface to minimum 1:40 crossfall; gravel colour and aggregate type to Architects approval; construct to manufacturer's recommendations and standard S127.</u>					
H	Filling; material stated average thickness not exceeding 250mm thick; grading to falls; compacting in accordance with Engineer's specification	10	m3			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Extra over for</u>					
A	feature stepping stones A	6	nr			
B	feature stepping stones B	19	nr			
	<u>CONCRETE WORK</u>					
	PRECAST CONCRETE					
	<u>Precast concrete kerbs to be 450x250x125 precast concrete kerb to I.S. 146 laid on 100mm concrete bed & haunch.</u>					
	Kerbs					
C	450 x 250 x 125mm precast kerb	55	m			
	<u>ROOFING, CLADDING AND WATERPROOFING</u>					
	MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS					
	<u>Non-woven geotextile membrane; in accordance with Engineers Specification.</u>					
	Geotextile membranes					
D	horizontal; exceeding 300mm wide	145	m2			
	<u>SURFACE WATER DRAINAGE</u>					
	DRAINAGE BELOW GROUND					
	<u>Raindrain Aco channel strip or equivalent along external perimeter of external play area as indicated in architects 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					
E	channels	50	m			
F	outlet connections	2	nr			
G	sump units	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>					
	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 fence; 2400mm high	50	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.	2	nr			
	GRASSING AND PLANTING					
	<u>Topsoil, from preserved mounds; insure topsoil free from all inorganic materials and impurities; treated with weed killer</u>					
	Filling; Topsoil					
C	to make up levels	20	m3			
	<u>Proposed sensory garden surface to be gently sloped at 1:50 gently as indicated on architects drawings</u>					
	Shrubs					
D	Lavandula angustifolia	15	m2			
E	Mentha pulegium	5	m2			
F	Melissa officinalis	15	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	Thymus vulgaris	10	m2			
B	Rosmarinus officinalis	10	m2			
C	Pelargonium graveolens	5	m2			
D	Tropaeolum majus	15	m2			
E	Aloysia citrodora	5	m2			
F	Cosmos atrosanguineus	5	m2			
G	Thymus pseudolanuginosus	15	m2			
	Trees					
H	Malus domestica, 12-14cm gth, BR, 1.8m ht clear stem	2	nr			
J	Pyrus communis, 10-12cm gth, BR, 1.8m ht clear stem	2	nr			
	Edible plant mix to timber sleepers					
K	Salvia officianalis, Sage, cg 2L, 4 per m2	3	nr			
L	Mentha spicata, Spearmint, cg 2L, 2 per m2	1	nr			
M	Allium schoenoprasum, Chives, cg 1L, 5 per m2	6	nr			
N	Fragaria x ananassa, Garden strawberry, cg 1L, 5 per m2	6	nr			
P	Oregano 'Golden', Marjoram, cg 1L, 3 per m2	6	nr			
Q	Calendula officianalis, Pot marigold, cg 1L, 5 per m2	4	nr			
R	Rosmarinus officianalis, Rosemary, cg 5L	2	nr			
S	Lavandula angustifolia, Lavender, cg 2L, 3 per m2	2	nr			
T	Thymus citriodorus, Lemon scented thyme, cg 2L, 3 per m2	3	nr			
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>Vegetable garden, timber sleepers L2.5m x W1m x H0.6m and edible plant mix inside (planting measured above)</u>					
	Furniture, furnishings, details stated					
U	site; timber sleepers; 2500mm long x 1000mm wide x 600mm high	3	nr			
					To Collection €	

BQ/456

	Description	Qty	Unit	Rate	€	c
	<u>(20) SITE STRUCTURES (CYCLE LANE)</u>					
	<u>EXCAVATION AND EARTHWORK</u>					
	EXCAVATION					
	<u>Excavation</u>					
	Reduce levels					
A	average depth 200mm	35	m3			
	<u>Extra over</u> for					
B	breaking up existing; hard surfaces; concrete footpath	147	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	35	m3			
	FILLING					
	<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; material stated					
F	average thickness; exceeding 250mm	23	m3			
	<u>CONCRETE WORK</u>					
	PRECAST CONCRETE					
	<u>Precast concrete kerbs to be 450x250x125 precast concrete kerb to I.S. 146 laid on 100mm concrete bed & haunch.</u>					
	Kerbs					
G	450 x 250 x 125mm precast kerb	112	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	147	m2			
<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>						
Cycle Lane						
B	88mm deep bituminous macadam; base course 63mm; wearing course 25mm	147	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						
C	100mm wide; continuous lines	54	m			
Letters and figures						
D	bike symbol; overall size 1200mm wide x 2500mm long	6	nr			
E	directional arrow; 2.20m long	6	nr			
					To Collection €	

BQ/459

	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>					
	<u>FILLING</u>					
	<u>350mm 6F1/6F2 capping layer in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness</u>					
	Filling; material stated					
A	average thickness; exceeding 250mm; concrete areas	330	m3			
	<u>150 mm minimum compacted thickness of Type 1 granular sub-base to Clause 803 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; material stated					
B	average thickness; not exceeding 250mm; paved areas	44	m3			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<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; material stated					
A	average thickness; not exceeding 250mm; bituminous areas	118	m3			
B	average thickness; not exceeding 250mm; concrete areas	142	m3			
	<u>Laying course; sand blinding to BS EN 13242; type 2 / 6.3 GC 80 / 20; all in accordance with the Engineers drawing and specifications</u>					
	Surface Treatments					
C	blinding filling with sand 50mm thick	290	m2			
	<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					
D	not exceeding 150mm thick; reinforced	130	m3			
	REINFORCEMENT					
	<u>Reinforcement fabric mesh; B142 mesh; as per Architects specification</u>					
	Fabric					
E	horizontal	941	m2			
	FORMWORK					
	<u>Formwork; generally; finish as Architects specification</u>					
	Edges of beds					
F	not exceeding 250mm high	622	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	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>					
A	Transverse contraction joints depth not exceeding 150mm; <u>Surface finish to slabs to engineer's approval</u>	314	m			
B	Surface finishes brushed; to falls and crossfalls	941	m			
	PRECAST CONCRETE					
	<u>Precast concrete kerbs to be 450x250x125 precast concrete kerb to I.S. 146 laid on 100mm concrete bed & haunch.</u>					
C	Kerbs 450 x 250 x 125mm precast kerb	238	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>					
D	Geotextile membranes horizontal; exceeding 300mm wide	1727	m2			
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>					
	IN-SITU SURFACE PAVINGS					
	<u>Bituminous macadam in accordance with BS 4987 is to be laid over and rolled with a power roller to a consolidated thickness of 140mm consisting of 60mm stone mastic on 80mm of dense bitumen macadam to clause 811; final finished ground levels to be agreed with architect; all in accordance with the Architects drawings and specifications</u>					
E	Roads 140mm deep bituminous macadam to existing planed surfaces; base course 80mm; stone mastic 60mm	1031	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<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	786	m2			
	Sundries					
B	fair joint to existing finishes; jointing to existing macadam	55	m			
	Pedestrian crossings					
C	Black and White stripes on road surface; road markings are to 100mm wide and the contractor is to submit proposed product to architect for approval; provide buff coloured module b type blister tactile paving either side of the pedestrian crossing point; 100mm ramp to be provided across the unguarded pedestrian crossing	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					
D	100mm wide; continuous lines	299	m			
E	hatching to set down area; yellow	156	m2			
F	hatching to disabled parking; yellow	40	m2			
G	hatching to ev parking; green	49	m2			
	Letters and figures					
H	disabled parking bays symbol; overall size 1200mm wide x 2500mm long	3	nr			
J	directional arrow; 3.20m long	14	nr			
K	ramp triangles; 980mm long	6	nr			
L	yeild triangles; 980mm long		nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
A	single digit numbers	10	nr			
B	double digit numbers	23	nr			
PRE-FORMED PAVING AND EDGING UNITS						
<u>Proposed Tactile paving shall consist of buff coloured Kilsaran Corduroy or equivalent tactile paving; footpath to grade to crossing point level at grade of 1:20; Kilsaran Corduroy or equivalent Tactile Paving; profiled finish comprising of rows of flat top rods on the surface; flat top rods are laid parallel to the edge of the hazard at a distance of 400mm away; Product Standard - BS EN 1339:2003, BS7997 BS:2003, DDCENTS15209:2008</u>						
Paving						
C	50mm thick; tactile paving	17	m2			
<u>Kilsaran - Lismore Block Natural, size 240 x 160 x 60mm; reaction to fire class Class A1; to comply with EN 1338:2003; premium aggregate finish; typical tensile splitting strength of greater than 3.6 MPa and a failure load of greater than 250N/mm; Lismore Block paving have a 1.5mm approx. internal spacer nib which will give a resulting standard joint width of approx. 2mm when laid; joints should be filled with kiln dried sand; all in accordance with the Architects drawings and specifications</u>						
Pavings						
D	60mm thick; to falls and crossfalls	290	m2			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/460 Page No. BQ/461 Page No. BQ/462 Page No. BQ/463 Page No. BQ/464 (40) ROADS, PATHS AND PAVINGS Carried to Summary					
BQ/465					

BQ/466

	Description	Qty	Unit	Rate	€	c
A	next/alongside existing services	1	item			
	Disposal					
B	ground water	1	item			
C	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					
D	600mm wide x 600mm thick; to 100mm pipe	52	m			
E	700mm wide x 600mm thick; to 225mm pipe	140	m			
	<u>Pipes; uPVC pipes; to comply with BS 4660 and BS 5482; flexible spigot and socket joints in the running length</u>					
	Pipes					
F	100mm nominal diameter	52	m			
G	225mm nominal diameter	140	m			
	<u>Extra over</u> pipes on which they occur for					
H	bends	59	nr			
J	tees	1	nr			
K	thrust blocks; size to suit requirements	180	nr			
	<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					
L	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	5	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<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 1 nr 150mm inlet; 1 nr 150mm outlet; depth 0.50 - 1.00m	3	nr			
A	<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					
B	internal size 1200mm diameter; 500mm - 1000mm deep; including all channels required; associated branch connections	5	nr			
C	internal size 1200mm diameter; 1000mm - 1500mm deep; including all channels required; associated branch connections	2	nr			
D	internal size 1200mm diameter; 2000mm - 2500mm deep; including all channels required; associated branch connections	1	nr			
	<u>Extra over</u> the above for					
E	silt trap chamber with 200mm deep sump below invert level	2	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<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					
A	1000mm - 1500mm deep; including making good and backfilling	3	nr			
B	1500mm - 2000mm deep; including making good and backfilling	1	nr			
	<u>Rainwater planter; 8x1m rainwater planter; 1.15m deep for two storey extension roof rainwater; 100mm diameter perforated pipe along base and overflow pipe at either end; drainage pipe below planter to be covered in concrete ; include for all excavation and earthwork support, excavation below water table level, concrete and formwork, working space, disposal of excavated material off site, pipe work and backfilling with drainage, transition and vegetation layers etc; refer to drawing M073-TCE-B1-ZZ-DR-S-2003 for details.</u> Rainwater Planter					
C	8000 x1000mm rainwater planter; 1150mm deep	2	nr			
	<u>Testing and commissioning</u>					
D	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			
E	provide for CCTV survey before commencement of surface water drainage works	1	item			
F	provide for CCTV survey of surface water drainage upon completion	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<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					
A	average depth; 0.50 - 1.00m (connections)	224	m			
B	average depth; 1.00 - 1.50m	100	m			
C	average depth; 2.00 - 2.50m	6	m			
	Disposal					
D	ground water	1	item			
E	surface water	1	item			
	<u>Extra over</u> excavating trenches irrespective of depth for					
F	breaking up hard surfaces	224	m			
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	450mm wide x 450mm thick; to 100mm pipe	224	m			
K	450mm wide x 450mm thick; to 225mm pipe	105	m			
	<u>Pipes; uPVC pipes; to comply with BS 4660 and BS 5482; flexible spigot and socket joints in the running length</u>					
	Pipes					
L	100mm nominal diameter	224	m			
M	225mm nominal diameter	105	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Extra over</u> pipes on which they occur for;					
A	bends	86	nr			
B	thrust blocks; size to suit requirements	258	nr			
C	popups	60	nr			
	<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					
D	1 nr 150mm inlet; 1 nr 150mm outlet; depth 0.50 - 1.00m	15	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					
E	internal size 1200mm diameter; 1000mm - 1500mm deep; including all channels required; associated branch connections	4	each			
	<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>					
	Connections					
F	1000mm - 1500mm deep; including making good and backfilling	3	nr			
G	2000mm - 2500mm deep; including making good and backfilling	2	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Testing and commissioning</u>					
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			
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>					
	WATERMAINS					
	<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	148	m			
	Disposal					
E	ground water	1	item			
F	surface water	1	item			
	<u>Extra over</u> excavating trenches irrespective of depth for					
G	breaking up hard surfaces	14	m			
H	next to existing buildings	1	item			
J	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					
K	600mm wide x 600mm thick; 150mm diameter pipe	148	m			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>HDPE pipes and fittings to be in accordance with IS EN 12201:2011; all in accordance with Engineer's Drawings and Specification; all works to Uisce Eireann Standard details.</u> Pipes A 150mm diameter HDPE WM; laid in position 148 m <u>Cast iron pipework fittings and ancillaries to BS 3506; including joint rings, nuts and all ancillary connectors/ adaptors required to connect to ring main all to Engineers specification complete; Engineer's Drawings reference T001</u> Hydrant screw down type to B.S. 750, Type 2; detachable hydrant head to be bayonet lug type B 100mm diameter 3 each Sluice valve; square top spindle and anti-clockwise closing; to B.S. 5163: 1986 C 100mm diameter 5 each <u>Hydrant Chambers; minimum 100mm thick concrete Grade 20/40 bed; Grade A heavy duty ductile iron cover and frame to I.S. 261 1984, bedding in cement mortar (1:3) 20N40 concrete haunching surrounding lid; detachable hydrant head to be bayonet lug type; 200mm thick solid concrete blockwork or brickwork walls; including all excavations, grading bottoms, earthwork support, formwork, openings for pipes; disposal of surplus material off site</u> Fire Hydrant Chambers D hydrant chambers; internal size 450mm x 300mm 3 each <u>Sluice Valve Chambers; 150mm thick concrete Grade 25 bed; Cast iron surface box to IS:261 medium grade type M placed in footpath bedding in concrete grade C25; 225mm thick concrete block walls; 450 x 450mm internal dimensions; all in accordance with Engineers details; including all excavations, grading bottoms, earthwork support, formwork, openings for pipes; disposal of surplus material off site</u> Valve, Hydrant and Air Meter Chambers E sluice valve chambers; internal size 450 x 450 x 1100mm deep 5 each					
To Collection €						

Description		Qty	Unit	Rate	€	c
A	<u>Excavate and locate the invert level of the existing public watermain to allow the connection to the new diverted route watermain.</u>					
	Connecting new 100mmmm diameter uPVC watermain pipe into existing watermain line; include for temporary blocking of other pipes entries and any bypass pumping if required; make good and reinstating all existing road surfaces/paths connections upon completion					
	not exceeding 1.0m deep	3	each			
					To Collection €	

BQ/475

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. 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. 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			
				<i>To Collection €</i>	

	Description	Qty	Unit	Rate	€	c
	3. The Contractor should note limitations on working hours identified in Preliminaries Section of this Pricing Document.		Note			
	<u>EXTERNAL SITE LIGHTING</u>					
	GENERALLY					
	<u>Connecting to existing live Mains; include for breaking into existing; include for all excavation and earthwork support, working space, disposal of excavated material off site; include for all connections and fittings required; all to the satisfaction of the Engineer and Local Authority; all in accordance with Service Engineers Drawings and Specification</u>					
	Mains Supply					
A	connections to mains; existing mains	1	Item			
	SUNDRIES & BUILDERS WORK					
	<u>Excavating trenches to receive service ducts for sub-mains cable for future power to external areas; filling in over bed and surround with clause 804 granular filling in accordance with Engineers specification, compacted in 150mm maximum layers; grading bottoms; refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Service trenches					
B	excavating for service trenches; ducts not exceeding 250mm dia.; service trench to receive 1 no. 100mm dia. ducts; average depth 1000-1500mm deep	144	m			
	<u>Extra over</u> the above for					
C	breaking up existing hard surfaces; existing tarmacadam / concrete / paths / kerbs; including subbases, kerbs and all other surface features; reinstate to match existing upon completion of the works	144	m			
D	next to existing buildings	1	item			
	<u>Disposal of ground water and surface water following excavations; all in accordance with Engineers Drawings and Specification</u>					
	Disposal					
E	ground water	1	Item			
F	surface water	1	Item			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	<u>Sand beds and surrounds; compacting in accordance with specification; all as specified and detailed on Services Engineer's Drawings and Specification</u>					
	Beds and Surrounds					
A	300 x 300mm; 110mm dia. red duct	144	m			
	<u>PVC Cable ducts; High impact resistant red underground PVC ducting; minimum degree of resistance shall be 750N load for 5% deflection in accordance with IS EN 50086-2-4, for new mains distribution cabling (LV); draw cords shall be provided to all ducts and shall be 8mm 3 strand polypropylene rope; ducts to be sealed at all ends to prevent ingress of vermin and water; ducts shall not be less than 650mm deep to crown; marker tape 150mm above duct; refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Cable ducts					
B	uPVC; 110mm dia. red duct	144	m			
C	uPVC; 100mm nominal diameter; vertical	30	m			
	<u>Provide suitable Concrete Service Chambers; complete; including all associated earthworks, refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Chambers					
D	inspection chamber; refer to Detail B on Service Engineer's Drawing 21-093 (ME001) - T1	6	nr			
	<u>Lamp standard bases complete; excavation not exceeding 1000mm deep; grading bottoms; earthwork support; disposal of surplus excavated by removal off site; in-situ concrete base including formwork etc.; including alignment with wedges to Engineer's approval; all in accordance with Engineers Drawings and Specifications</u>					
	Bases					
E	like tems; Lighting Bases	6	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	ELECTRICAL INSTALLATION					
	<u>Public Lighting Fittings; Thorn UK or equally approved; Isaro Pro Small 12LED 500mA WR Optic, LED 3000k CRI 70 lamps; refer to Service Engineer's Drawing 21-093 ME(S001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Fittings					
A	light fittings; Isaro Pro Small 12LED 500mA WR Optic	6	nr			
	<u>Standard Post-Top Lighting Column complete; installed in accordance with manufacturers recommendations; including all required fittings and fixings; refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Fittings					
B	like items; 6m pole	6	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 €	

	Description	Qty	Unit	Rate	€	c
	<u>General Builder's Work</u>					
A	marking out and supervision of all Builder's Work	1	item			
B	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			
	<u>EV CHARGERS</u>					
	GENERALLY					
	<u>Connecting to existing live Mains; include for breaking into existing; include for all excavation and earthwork support, working space, disposal of excavated material off site; include for all connections and fittings required; all to the satisfaction of the Engineer and Local Authority; all in accordance with Service Engineers Drawings and Specification</u>					
	Mains Supply					
C	connections to mains; existing mains	1	Item			
	SUNDRIES & BUILDERS WORK					
	<u>Excavating trenches to receive service ducts for sub-mains cable for future power to external areas; filling in over bed and surround with clause 804 granular filling in accordance with Engineers specification, compacted in 150mm maximum layers; grading bottoms; refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Service trenches					
D	excavating for service trenches; ducts not exceeding 250mm dia.; service trench to receive 1 no. 100mm dia. ducts; average depth 1000-1500mm deep	71	m			
E	excavating for service trenches; ducts not exceeding 250mm dia.; service trench to receive 2 no. 150mm dia. ducts; average depth 1000-1500mm deep (future)	73	m			
	<u>Extra over the above for</u>					
F	breaking up existing hard surfaces; existing tarmacadam / concrete / paths / kerbs; including subbases, kerbs and all other surface features; reinstate to match existing upon completion of the works	144	m			
G	next to existing buildings	1	item			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Disposal of ground water and surface water following excavations; all in accordance with Engineers Drawings and Specification</u>					
	Disposal					
A	ground water	1	Item			
B	surface water	1	Item			
	<u>Sand beds and surrounds; compacting in accordance with specification; all as specified and detailed on Services Engineer's Drawings and Specification</u>					
	Beds and Surrounds					
C	300 x 300mm; 100mm dia. duct	71	m			
D	300 x 300mm; 150mm dia. duct	73	m			
	<u>PVC Cable ducts; High impact resistant red underground PVC ducting; minimum degree of resistance shall be 750N load for 5% deflection in accordance with IS EN 50086-2-4, for new mains distribution cabling (LV); draw cords shall be provided to all ducts and shall be 8mm 3 strand polypropylene rope; ducts to be sealed at all ends to prevent ingress of vermin and water; ducts shall not be less than 650mm deep to crown; marker tape 150mm above duct; refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Cable ducts					
E	uPVC; 100mm nominal diameter; marking tape	71	m			
F	uPVC; 150mm nominal diameter; marking tape	146	m			
G	uPVC; 100mm nominal diameter; vertical	5	m			
	<u>Provide suitable Concrete Service Chambers; complete; including all associated earthworks, refer to Service Engineer's Drawing 19-052 ME(S001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Chambers					
H	inspection chamber; refer to Detail B on Service Engineer's Drawing 19-052 ME(S001) - T1	4	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Provide suitable Mini Pillar and base to mount EV Charger; complete; including all associated earthworks, refer to Service Engineer's Drawing 21-093 (ME001) - T1 Site Services; all in accordance with Engineer's Drawings and Specification</u>					
	Mini Pillar for EV Charger					
A	mini pillar; refer to details on Service Engineer's Drawing 21-093 (ME001) - T1	2	nr			
	ELECTRICAL INSTALLATION					
	<u>Mains and sub-mains cables</u>					
B	mains cabling	1	item			
C	sub mains cabling	1	item			
	<u>Final circuits; supply and installation of EV Charger cabling as required all as per Engineer's drawings and the Electrical Specification</u>					
D	circuits / cabling to EV Chargers	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	testing and commissioning as detailed in Engineer's specification	1	item			
	<u>Commissioning and system validation</u>					
G	commissioning as detailed in Engineer's specification	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 Electrical Specification	1	item			
	<u>Drawing preparation</u>					
K	working drawings	1	item			
L	co-ordination drawings	1	item			

To Collection €

BQ/483

BQ/484

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Wheel stops are to be provided to car park spaces 21- 26 as indicated on Architects sheet T004; XPT or equivalent wheel stops to be provided; 100% recycled rubber material; Black with Yellow markings; fixed with 4no. universal M10 x 110mm coach screws with 16 x 90mm rawlplug; all as per Architects drawings and specifications.</u> Fittings A special purpose, details stated; wheel stops; 1840mm x 105mm x 150mm high <u>Outdoor hooded bin Harry or equivalent; black in colour;external bins to be provided to replace the existing bins removed as part of the construction phase ; all as per Architects drawings and specifications.</u> Fittings B special purpose, details stated; external bins; 515mm diameterx 1020mm high; volume 100 litre <u>Sheffield Bike Stand to be hot-dip galvanised and bolted down to surface; proposed Bike stands to be 800mm height X 650mm wide X 750mm c/c apart; refer to Pittman Traffic & Safety Equipment detail and specification for Proposed bicycle parking, canopies and associated works; proposed bike stands are to be placed 1000mm between each other and the lanes between the rows of the bike lanes are to 2500mm wide; refer to Architects specification 78.</u> Fittings C special purpose, details stated; Sheffield bike stands; 800mm height X 650mm wide X 750mm c/c apart <u>Secure cycle parking places shall be provided in a safe and secure area; location can be seen on sheet T002; EcoPark Series bike lockers are to be provided by the contractor; Sapphire Blue, Ral 5003 locker; Door Lock: T-Handle, Keypad; 1 front swing direction indicated on architects parking plan; Manufactured to ISO 9000 or ISO 14000 requirements.</u> Fittings D special purpose, details stated; secure bike parking; 1280mm height x 1000mm wide X 2000mm deep	6	nr			
		2	nr			
		60	nr			
		5	nr			
To Collection €						

	Description	Qty	Unit	Rate	€	c
	OMOS bench L2m x W0.615m x H0.45m; to be provided bicycle parking area; refer to Austin Associates Landscape Plan. Fittings A special purpose, details stated; bench 2000mm x 615mm x 450mm high 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, details stated; guard rails; 1000mm x 1000mm high 2 nr <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 C signage; 400 x 600mm 3 nr <u>Signage to be included at the back of each of the EV car parking spaces; aluminium composite sign; sign is to be centrally located at the back of the car parking; Post-mounted signs should be at least 300mm wide x 400mm high and positioned 1500 to 2500mm to the centreline from ground level; refer to Architects specification 64 for details.</u> Fittings D signage; 300 x 400mm 4 nr					
To Collection €						

Description		Qty	Unit	Rate	€	c
A	<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 signage; 300 x 400mm	4	nr			
To Collection €						

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/485 Page No. BQ/486 Page No. BQ/487 Page No. BQ/488 (70) SITE FITTINGS Carried to Summary					
BQ/489					

	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 PAVING, 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	246	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	818	m2			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Fertiliser to be applied three to five days before seeding/ turfing and before final cultivation; the following fertilisers are to be applied; each at 50g/sq m, in transverse directions: Superphosphate with a minimum of 18% water soluble phosphoric acid; A sulphate of ammonia with a minimum of 20% nitrogen</u>					
	Surface applications					
A	to all grass areas	818	m2			
	<u>Grass seed to all areas to be general purpose hardwearing grass seed to Architects approval; sow seed only after consultation with the Architect; spread seed evenly at the specified rate(s) applied in two equal sowings in transverse directions; lightly harrow or rake; light soils roll and cross roll after seeding using a lightweight roller</u>					
	Seeding					
B	amenity grass	487	m2			
	<u>Traditional Irish Native Wildflower Mix from Connecting to nature or similar approved 2g per m2; refer to planting plan 089024 LP 01</u>					
	Plants					
C	Irish Native Wildflower Mix	265	m2			
	<u>Pollinator Garden beds to entrance paved area.</u>					
	Shrubs					
D	Lavandula angustifolia	12	nr			
E	Digitalis purpurea	8	nr			
F	Astrantia major	4	nr			
G	Echium vulgare	8	nr			
H	Rosmarinus officinalis	6	nr			
J	Tropaeolum majus	4	nr			
K	Salvia nemorosa	12	nr			
L	Nepeta × faassenii	8	nr			
M	Origanum 'Rosenkuppel'	4	nr			
N	Calamintha nepeta	8	nr			
					To Collection €	

	Description	Qty	Unit	Rate	€	c
	<u>Secimen Shrub Planting bed; Planting position as per symbols on a plan</u>					
	Shrubs					
A	Euonymus fortunei, cg 5L	4	nr			
B	Rosa rugosa, cg 5L	7	nr			
C	Ribes sanguineum, cg 5L	4	nr			
D	Hamamelis mollis, cg 5L	7	nr			
E	Trachelospermum jasminoides, cg 6L (Climbers)	7	nr			
	<u>Native hedge; single row, 4 per lin metre.</u>					
	Hedges					
F	Crataegus monogyna, br1+1 60-90cm	52	nr			
G	Corylus avellana, br1+1 60-90cm	103	nr			
H	Euonymus europaeus, br1+1 60-90cm	103	nr			
J	Ilex aquifolium, cg 2L	26	nr			
K	Prunus spinosa, br 1+1 60-90cm	26	nr			
L	Rosa canina, br 1+1 60-90cm	26	nr			
M	Salix caprea, br 1+1 60-90cm	26	nr			
N	Sambucus nigra, br 1+1 60-90cm	26	nr			
P	Viburnum opulus, br 1+1 60-90cm	77	nr			
Q	Cornus sanguinea, br 1+1 60-90cm	52	nr			
	<u>Hedge; Mix 4 per lin.m; double staggered row</u>					
	Hedges					
R	Euonymus alatus 'Red Cascade' cg 2L	30	nr			
S	Euonymus europaeus, br 1+1 60-90cm	30	nr			
T	Crataegus monogyna, br 1+1 60-90cm	15	nr			
U	Cornus sanguinea, br 1+1 60-90cm	23	nr			
V	Elaeagnus x ebbingei, cg 2L	37	nr			
W	Prunus Spinosa, cg 2L	15	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	<u>Tree Planting</u>					
	Planting of trees; excluding existing					
A	Betula pendula; 14-16cm gth, BR, 1.8m ht clear stem	4	each			
B	Sorbus aucuparia, 14-16cm gth, BR, 1.8m ht clear stem	4	each			
C	Arbutus unedo, cg 90L, MS, 2m+ ht	6	each			
D	Prunus avium, 10-12cm gth, BR, 1.8m ht clear stem	4	each			
	<u>Raised Flower Planters mix 12cm ht</u>					
	Planting Area					
E	Primula vulgaris, 6 per m²	15	nr			
F	Narcissus pseudonarcissus, 10 per m²	36	nr			
G	Galanthus nivalis, 10 per m²	24	nr			
H	Viola tricolor, 10 per m²	36	nr			
J	Cosmos bipinnatus, 4 per m²	10	nr			
K	Rudbeckia 'goldsturm', 3 per m²	11	nr			
L	Groundcover rose (pink), 3 per m²	8	nr			
M	Calluna vulgaris, 3 per m²	11	nr			
	<u>FITTINGS</u>					
	FITTINGS, EQUIPMENT AND FURNITURE					
	<u>S65 steel grille. Outside diameter; 1000mm. Inner diameter 520mm</u>					
	Furniture, furnishings, details stated					
N	site; guard rail; 520mm diameter	5	nr			
	<u>Raised Planters beds; raised flower planters; 2400mm long x 2800mm wide x 120mm high</u>					
	Furniture, furnishings, details stated					
P	site; raised flower planters; 2400mm long x 2800mm wide x 120mm high	4	nr			
					To Collection €	

Description	Qty	Unit	Rate	€	c
COLLECTION Page No. BQ/490 Page No. BQ/491 Page No. BQ/492 Page No. BQ/493 (80) LANDSCAPING, PLAY AREAS Carried to Summary					
BQ/494					

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
*****PRELIMINERIES*****	BQ/2				
[06] GENERAL PRELIMINARIES	BQ/57				
[06] PHASING	BQ/59				
[06] GENERAL HEALTH & SAFETY OBLIGATIONS	BQ/62				
[06] PROJECT SUPERVISOR	BQ/65				
[06] BUILDING REGULATION COMPLIANCE	BQ/74				
[06] nZEB COMPLIANCE	BQ/80				
[06] BOND SECTION	BQ/82				
*****EXTENSION*****	BQ/84				
BUILDING SUBSTRUCTURE	BQ/86				
(19) SUBSTRUCTURES	BQ/93				
BUILDING STRUCTURE	BQ/95				
(21) EXTERNAL WALLS	BQ/101				
(22) INTERNAL WALLS, PARTITIONS	BQ/105				
(23) FLOORS, GALLERIES	BQ/108				
(27) ROOF STRUCTURE	BQ/111				
(28) FRAME	BQ/115				
BUILDING STRUCTURE COMPLETIONS	BQ/117				
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/121				
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/128				
(37) ROOF COMPLETIONS	BQ/131				
BUILDING FINISHES	BQ/133				
(41) WALL FINISHES EXTERNALLY	BQ/136				

Description	Qty	Unit	Rate	€	c
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(42) WALL FINISHES INTERNALLY	BQ/140				
(43) FLOOR FINISHES	BQ/146				
(45) CEILING FINISHES	BQ/151				
(47) ROOF FINISHES	BQ/155				
BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)	BQ/157				
(51) HEATING CENTRE	BQ/162				
(52) DRAINAGE AND REFUSE DISPOSAL	BQ/168				
(53) WATER DISTRIBUTION	BQ/177				
(56) SPACE HEATING	BQ/184				
(57) VENTILATION SERVICES	BQ/194				
(58) PROTECTIVE SERVICES	BQ/199				
(59) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER MECHANICAL INSTALLATIONS	BQ/202				
BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)	BQ/204				
(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION	BQ/210				
(62) POWER	BQ/218				
(63) LIGHTING	BQ/224				
(64) COMMUNICATION SYSTEMS	BQ/232				
(66) CONTAINMENT	BQ/238				
(68) SECURITY & PROTECTION SERVICES	BQ/250				
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS	BQ/254				
(59-69) BWIC WITH MECHANICAL AND ELECTRICAL INSTALLATIONS	BQ/260				
BUILDING FITTINGS	BQ/262				

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
(74) SANITARY FITTINGS GENERALLY	BQ/265				
FITTED FIXED FURNITURE	BQ/267				
(71) DISPLAY, CIRCULATION FITTINGS	BQ/270				
(76) STORAGE, SCREENING FITTINGS	BQ/279				
*****WORKS TO EXISTING*****	BQ/281				
(--) DEMOLITIONS AND ALTERATIONS	BQ/287				
BUILDING STRUCTURE	BQ/289				
(22) INTERNAL WALLS, PARTITIONS	BQ/292				
BUILDING STRUCTURE COMPLETIONS	BQ/294				
(31) EXTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/298				
(32) INTERNAL WALLS: COMPLETIONS WITHIN OPENINGS	BQ/308				
BUILDING FINISHES	BQ/310				
(41) WALL FINISHES EXTERNALLY	BQ/313				
(42) WALL FINISHES INTERNALLY	BQ/317				
(43) FLOOR FINISHES	BQ/322				
(44) STAIRS, RAMPS FINISHES	BQ/327				
(45) CEILING FINISHES	BQ/332				
BUILDING SERVICES INSTALLATION (PIPED AND DUCTED)	BQ/334				
(51) HEATING CENTRE	BQ/339				
(52) DRAINAGE AND REFUSE DISPOSAL	BQ/345				
(53) WATER DISTRIBUTION	BQ/353				
(56) SPACE HEATING	BQ/360				
(57) VENTILATION SERVICES	BQ/369				

Description	Qty	Unit	Rate	€	c
SUMMARY	Page No.				
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS	BQ/372				
BUILDING SERVICES INSTALLATION (MAINLY ELECTRICAL)	BQ/374				
(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION	BQ/380				
(62) POWER	BQ/388				
(63) LIGHTING	BQ/394				
(64) COMMUNICATION SYSTEMS	BQ/401				
(66) CONTAINMENT	BQ/406				
(68) SECURITY & PROTECTION SERVICES	BQ/413				
(69) COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER ELECTRICAL INSTALLATIONS	BQ/417				
BUILDING FITTINGS	BQ/419				
(74) SANITARY FITTINGS GENERALLY	BQ/422				
FITTED FIXED FURNITURE	BQ/424				
(71) DISPLAY, CIRCULATION FITTINGS	BQ/427				
(73) CULINARY FITTINGS	BQ/430				
(76) STORAGE, SCREENING FITTINGS	BQ/440				
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(10) PREPARED SITE	BQ/447				
(20) SITE STRUCTURES (SOFT PLAY AREA)	BQ/451				
(20) SITE STRUCTURES (SENSORY GARDEN)	BQ/456				
(20) SITE STRUCTURES (CYCLE LANE)	BQ/459				
(40) ROADS, PATHS AND PAVINGS	BQ/465				
(50) SITE SERVICES (MAINLY PIPED AND DUCTED)	BQ/475				

(iii)



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