



Mechanical and Electrical Building Services Consulting Engineers
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Drumlease Rd., Dromahaire, Co. Leitrim

Proposed Extension to St. Clares NS
Manorhamilton, Co. Leitrim

Schedule of Prices for the Mechanical Services Installation

Notes:-

All items must be filled in! Any item not filled will be deemed to be included in the tender makeup.
Under no circumstances shall any item be deemed excluded and as a result the item shall be assumed to be included in the tender summary.

This documentation must be read in conjunction with the specification on the drawings and will form part of the contract documents.

Failure to return this document fully filled out and signed by the proposed sub-contractor shall deem the overall tender for the main contractor invalid. Therefore the tender will be excluded for consideration.

	Proposed Extension to St. Clares NS Manorhamilton, Co. Leitrim		
	Schedule of Prices for the Electrical Services Installation		
	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		
<u>Item</u>			total
	<u>GENERAL ITEMS</u>		
1	Amount For marking out all builders works in the building for all points as indicated on the drawings.		
2	Amount for insurances, complying with main contractors program, and phasing arrangements.		
3	Amount for complying with the conditions of contract as set out in the main contract. The contract shall be the Government short form.		
4	Provide for shop drawings.		
5	Provide for record drawings		
6	Provide for instruction/maintenance manuals.		
7	Provide for assistance to Mechanical Contractor for provision of wiring diagrams etc., of equipment, supplied under this contract.		
8	Provide for instruction of clients staff in use of apparatus		
9	Provide for ladders, tools, etc.		
10	Provide for keeping site clear of rubbish at all times.		
11	Provide for maintaining a competent foreman on site.		
12	Provide for programming of works and review of same.		
13	Provide for testing.		
14	Provide for commissioning.		
15	Provide for Earthing an Bonding in accordance with NSAI IS:10101:2020..		
16	Provide for completion certificates.		
17	Provide for painting and labelling.		

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<u>Item</u>			total
	<u>GENERAL ITEMS</u>		
18	Provide for maintaining portable type fire extinguishers on site during the course of the works and complying with Clause on "Hot Work".		
19	Amount for complying fully with "Safety, Health, Welfare & Environmental Issues".		
20	Amount for the supply and had over of Maintenance Manuals.		
21	Amount for stripping out an making safe the existing unit prior to demolition.		
22	Amount for complying with the HSA Code of Practice for the Design and Installation of Anchors including have a design carried out by a chartered Engineer, signed off be the appropriate manufacture of the anchor and correct installation. This shall include for the filling in and signing of the FM01 to 03 forms.		
23	Amount for any other item not included in the above, but which in the opinion of the contractor tendering is necessary for the satisfactory completion of the contract. (Give Details)		
	TOTAL FOR GENERAL ITEM		

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	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		
<u>Item</u>			Total
	<u>Element (61) Main Distribution</u>		
	to be wired in PVC Cable in a recessed Steel Conduit system		
	Amount for the supply and installation of a new cubicle as indicated on the drawings to the existing main distribution board. The cubicle shall be linked onto the existing bus-bar within the main board and the cubicle shall be complete MCCBs. The MCCBs shall be the Schnieder NSX 100N Micrologic 2.2 electronic type. Include for fitting a Type 1 surge arrestor within the cubicle. Due to space restrictions the cubicle 1 will be mounted on the wall behind the board.		
	Classrooms	63A	
	Reception	32A	
	Amount for the supply and installation of the sub-mains distribution boards in the location as indicated next to the new extension. The 2 cables shall be XLPE/SWA/LSZH		
	Classrooms	5x16.0	
	Reception	5x6.0	
	Amount for the supply and installation of the sub-distribution board in the locations as indicated. The boards shall all be split type boards separated for general power and lighting. Each of the board shall be 3 complete Type 2 surge arrestor. The boards shall be as follows:		
	Classrooms	SDB 1	
	Reception	SDB 2	
	Amount for the supply and installation of the sub-mains cable ladder as 4 indicated on the drawings.		
	Amount for the supply and installation of the LV Cable Trunking as 5 indicated on the drawings.		
	Amount for the supply and installation of the ELV Cable Basket as 6 indicated on the drawings.		
	Amount for the supply and installation of the Fire Alarm Cable Tray as 7 indicated on the drawings.		
	Amount for all necessary bracketing for the aforementioned cable 8 containment system.		

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	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		
<u>Item</u>			Total
	<i>Element (62) General Power</i>		
	to be wired in PVC Cable Singles in a recessed steel conduit/trunking system.		
	Amount for wiring to all the general socket outlets as indicated on the drawings finished in Mat Chrome as MK MCO range complete with		
1	matching back boxes..		
	Amount for the wiring to including the supply of the White plastic socket outlets mounted on the dado trunking as indicated on the drawing.		
2	The sockets shall be part M compliant (i.e. switches to the outside).		
	Amount for the supply and installation of the Dado Trunking as indicated on the drawings. The Dado shall be as Marshall Tuffex Odyssey Range. The dado trunking shall rise to the ceiling in all instances. The dado trunking shall be supplied complete Visually		
3	impaired Coloured Back boxes (Blue or Red).		
	Amount for the wiring to all the Extract fans as indicated on the drawing. The fans shall be wired in 3x1.5mm cable. The fans are to be		
4	wired onthe local lighting circuit.		
	Amount for the supply and installation of the Dado trunking as indicated on the drawings. The trunking shall be CAT6 compliant and shall be as		
5	Marshall Tuffex Odyssey range.		
	Amount for the wiring to the hand dryer locations as indicated on the drawings. Include for the main isolator at 2.3m of the floor complete with the final outlet location at 1100mm AFFL. Each hand dryer shall be		
6	wired in 2.5mm PVC cable and shall be protected by 20A RCBO inthe local distribution board.		
	Amount for the supply for the supply of the hand dryers in the positions		
7	as indicated. Shall be as ATC Cheetah SS Range		
	Amount for the supply and installation of the disabled alarm system in the WC as indicated. The alarm shall have a re-peater panel located in		
8	the reception as indicated.		

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Item			Total
	<i>Element (62) General Power</i>		
	to be wired in PVC Cable Singles in a recessed steel conduit/trunking system.		
	Amount for the supply and installation CO2 monitor within the classroom as indicated. Each monitor shall indicate the level of CO2 in the atmosphere and shall illuminate Red, Yellow Green depending on the level of CO2 present. The unit shall be wired in 2.5mm cable controlled from a 16A MCB in the local distribution board with a local fuse spur beside the monitor. The contractor is permitted wire up 4 No. 9 monitors on a single circuit.		
	The CO2 Monitors shall be a Nedem range as supply by Modern Plant Ltd., Dublin.		
	Amount for the wiring of a switched fuse spur outlet for the short throw projectors/Monitors terminating in the classrooms as indicated on the drawings. The contractor is to liaise with the school regarding the equipment being installed. Be it a short throw projector or a TV 10 monitor.		
	Amount for the wiring to the boilerhouse equipment as indicated on the 11 drawing. The contractor shall include for the wiring to the following:		
1 No.	boiler units	3x2.5	
1 No.	Boiler call signal	2x1.5	
1 No.	Boiler fault signal	2x1.5	
1 No.	External Temp Sensors from boilers	2-core screened	
2 No.	Pipe temperature sensors from boilers	2-core screened	
1 No.	Shunt pumps from boiler	3x2.5	
1 No.	Heating circulating pumps	3x2.5	
1 No.	Pump run signal	2x1.5	
1 No.	Pump Fault signal.	2x1.5	
2 No.	F&R Pipework temperature sensors	2-core screened	
6 No.	Classroom PCIV control valves from the remote BMS Panel	3x2.5mm	
6 No.	Classroom temperature stats wired from the remote BMS panel	3x1.5mm	
5 nr.	Fault signals from MVHR units wired to remote BMS panel.	2x1.5	

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SCHEDULE OF PRICES			
Item			Total
	Element (62) General Power to be wired in PVC Cable Singles in a recessed steel conduit/trunking system.		
12	Amount for the wiring to the MVHR units in the classrooms. Each to be wired in 3x2.5mm cable and be protected by a 16A MCB in the local dist board.	5 Nr.	
13	Amount for the wiring to the magnetic door hold open units controlled via a centralized power supply at the local distribution board. Shall be wired in 1.5mm cable protected by 16A MCB.		
14	Amount for the supply and installation of the magnetic door hold open units as indicated on the drawings. The units shall be as Dorma T75EMF range.		
15	Amount for the provision of power supply to the Door access points as indicated on the drawing including the front door intercom unit. Refer to Section Element 65 regarding the installation of same. Wired in 3x2.5mm cable protected by a 16a MCB in the Reception dist board.		
16	Amount for the unswitched fuse spurs power supplies to the following: Intruder alarm - 3x2.6mm protected by a 16A MCB CCTV - 3x2.5mm protected by a 20A RCBO Comms Cabinet - 2 No. 3x2.5mm protected by 20A RCBO's Fire alarm panel		
17	Amount for any other item not included in the above, but which in the opinion of the contractor tendering is necessary for the satisfactory completion of the contract. (Give Details).		
Total for Element (62)			
(Carried Forward to Summary)			

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Schedule of Prices for the Electrical Services Installation				
<u>ELECTRICAL SERVICES INSTALLATION</u>				
<u>SCHEDULE OF PRICES</u>				
Item				Total
<u>Element (63) Lighting & Emergency Lighting Installation</u> to be wired in PVC Cable in a steel conduit system				
1	Amount for the wiring to all the light fittings as indicated on the drawings wired in PVC Cables in a steel consuit systemas specified. The cabling shall be in a surface Steel conduit system.			
2	Amount for the supply and installation of the mat chrome light switches complete with matching back boxes as indicated as MK range or similar. The switches mounted on the Dado trunking shall be finished in White Plastic.			
3	Amount for the wiring to the emergency lighting as indicated on the drawings.			
4	Amount for the supply of an emergency light test unit mounted adjacent to the local distribution boards.	2 Nr.		
5	Amount for supply and installation of a the light fitting as scheduled as follows: Note all fluorescent fittings are to come with Colour 84 lamps.	No. Off	Unit Price	Total
EA	Eaton RoundTech MR SEO recessed Emergency Light	16		
EB	Eaton VELOS LED exit sign with matching running man symbol.	7		
EC	Eaton Zeta LED 4 bulkhead light fitting	2		
A	Ansell Pace AERMLED3/60/DL c/w Dali dimmible ballast. surface mounting kit for the above fitting.	49 49		
C	Ansell Calisto ACLLED/GR	9		
B	Ansell Oxford AOXLED2X5	12		
D	Ansell Gamma AGAMLED/CCT	8		
XA	Ansell Panther - APANLED (CW)	12		
6	Amount for the supply and installation of the PIR sensors as indicated on the drawings. The sensors shall be as Lux-O-Mat range and shall be as follows: classrooms - PD4-M-TRIO-DALI Corridors - PD4-M-1C WCs - PD4-M-2C-SM	6 5 7		
7	Amount for the supply and installation of the photo cell and time clock to control the external Sign lights.			

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	<u>SCHEDULE OF PRICES</u>			
<u>Item</u>				Total
	<u>Element (63) Lighting & Emergency Lighting Installation</u>			
	to be wired in PVC Cable in a steel conduit system			
8	Amount for any other item not included in the above, but which in the opinion of the contractor tendering is necessary for the satisfactory completion of the contract. (Give Details).			
	Total for Element (63)			
	(Carried Forward to Summary)			

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	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		
Item			Total
	<i>Element (64) Communications</i>		
	to be wired in PVC cable in a steel conduit system		
1	Amount for the wiring to all IT points as indicated on the drawings in Cat6a cable.		
2	Amount for the terminating of all the above points.		
3	Amount for the supply and installation of a 12-U comms cabinet as indicated on the ground floor. The cabinet is to come complete with a power supply, cable tidies and patch panels for all the terminated cables.		
4	Amount for linking the new cabinet with existing comms cabinet with a multi-mode 8-core fibre optic cable Multimode OM4, Armoured		
5	Amount for terminating and testing of the aforementioned fibre optic cable.		
6	Amount for the supply and installation of Media converters on either end of the fibre optic cables.		
7	Amount for wiring to all the PA/Speaker location within the school. Each speaker shall be wired from the PA/Call system located in the existing store as indicated.. The speakers shall be wired in 4-core 1.5mm cable.	9 Nr.	
8	Amount for the supply and installation of a class call / PA system to serve the school. The system shall consist of the following components. Speakers with talk back facility	9 Nr.	
	Shall be as supplied by CD Communications Ltd. Contact Colm Walsh on 086-6045555 or Damien Walsh on 087-6045555		
9	Amount for the supply and installation of a 1 Zone disabled alarm system link to both toilets back to master panel in the Admin office.		

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	<u>SCHEDULE OF PRICES</u>		
Item			Total
	<i>Element (64) Communications</i>		
	to be wired in PVC cable in a steel conduit system		
10	Amount for the supply and installation of the front door intercom system including key/fob entry. Shall be as ATC Acti9 similar. The door shall be fitted with Abloy EL560 lock magnet together with green break glass and associated power supply unit. The door intercom/access control must be installed by a PSA registered contractor.		
	Please note the new rules regarding the mag locks from PSA.		
11	Each classroom is fitted with the phone extension. The contractor is to include for extending the PABX system to cater for an additional 6 Nr. hand sets. The existing existing system is a Panaonic system. The contractor is to include for anew netwrk card in the PABX and the hand sets.		
	Reception hand set.	1 Nr.	
	Classrooms extensions	5 Nr.	
12	Amount for any other item not included in the above, but which in the opinion of the contractor tendering is necessary for the satisfactory completion of the contract. (Give Details).		
	Total for Element (64)		
	(Carried Forward to Summary)		

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	<u>SCHEDULE OF PRICES</u>		
<u>Item</u>			Total
	<i><u>Element (65) - Protective Services</u></i>		
	to be wired in PVC cable in a steel conduit system		
1	Amount for wiring to the fire alarm points as indicated on the drawing in PH120 enhanced cable, using 2x1.5 for detector circuits and 2x2.5mm for sounder circuits.		
2	Amount for a separate cable containment system for the fire alarm installation.		
3	Amount for the supply and installation of the fire alarm equipment as indicated on the drawings.		
	Smoke Detector		
	Sounder bases		
	External sounder xenon beacon		
	Break Glass units		
	i/o interface units		
4	Amount for interface the following with the fire alarm system:		
	Door access units		
	Boilerhouse control panel		
5	Amount for the relocation of the existing fire alarm panel from the corridor to the new reception area.		
6	Amount for extending the existing cables from the fire location to the new locatin. Allow for extending 2 Nr. loops and 2 Nr. sounder circuits.		
7	Amount for the having the above commissioned and certified by the specialist supplier.		
8	Amount for making adjustment to the existing panel to accomodate the changes within the existing school.		
9	Amount for the wiring to the intruder alarm system points as indicated on the drawings.		

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	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		
<u>Item</u>			Total
	<i><u>Element (65) - Protective Services</u></i>		
	to be wired in PVC cable in a steel conduit system		
10	Amount for the supply and installation of the intruder alarm system as indicated. This system shall be an extension of the existing system. The system must be supplied, installed and commissioned by a PSA Registered contractor.		
11	Amount for the wiring to the CCTV Points as indicated on the drawings. Each cameras shall be wired in a Cat6a cable plus 3-core flex.		
12	The CCTV and intruder alarm must be installed by a PSA registered contractor.		
13	Amount for the supply and installation of surge protection within the distribution boards. Type 1 in the main distribution board with Type 2 in each of the sub-distribution board. The installation shall be in accordance with		
	Type 1 SPD – Protection Against Transient Overvoltages due to Direct Lightning Strokes		
	The Type 1 SPD is recommended to protect electrical installations against partial lightning currents caused by direct lightning strokes. It can discharge the voltage from lightning spreading from the earth conductor to the network conductors.		
	Type 2 SPD - is the main protection system for all low voltage electrical installations.		
	The Type 2 SPD is the main protection system for all low voltage electrical installations. Installed in each electrical switchboard, it prevents the spread of overvoltages in the electrical installations and protects the loads.		
14	Amount for any other item not included in the above, but which in the opinion of the contractor tendering is necessary for the satisfactory completion of the contract. (Give Details).		
	Total for Element (65)		
	(Carried Forward to Summary)		

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<u>ELECTRICAL SERVICES INSTALLATION</u>			
<u>SCHEDULE OF PRICES</u>			
<u>Item</u>			Total
<u>Earthing</u>			
1	Amount for earthing in accordance with ETCI Regulations.		
3	Amount for earthing and bonding of the mechanical services installation as detailed/specified.		
4	Amount for earth pit externally to the building complete with inspection chamber. The earth from the building shall be a minimum of 70mm cable.		
5	amount for carrying out an earth impedance test on in the Earth rod, etc.		
6	Amount for any other item not included in the above, but which in the opinion of the Contractor tendering is necessary for the satisfactory completion of the Contract. (Give Details)		
Total for Element (68)			
(Carried Forward to Summary)			

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	<u>ELECTRICAL SERVICES INSTALLATION</u>		
	<u>SCHEDULE OF PRICES</u>		Totals
	GENERAL ITEMS		
	Element (60) Site Electrical Services		
	Element (61) Electrical Centre		
	Element (62) General Power		
	Element (63) Lighting		
	Element (64) Communications		
	Element (65) Protective Services		
	Element (68) Earthing		
	NETT AMOUNT OF TENDER EXCLUDING Builders Discount and VAT.		
Name			
Address			
Date:			