

**Kildangan National School,
Monasterevin,
Co. Kildare,
W34DR40.**

ROLL NUMBER: 18675I

MECHANICAL SERVICES SPECIFICATION

VOLUME M2

MECHANICAL FORM OF TENDER

TENDER ISSUE (T1)

Document Control: J22-055/T1

Rev:	Date:	Prepared By:	Quality Check By:
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SECTION 1.0

MECHANICAL TENDER RETURN

Tender for: Kildangan National School, Monasterevin, Co. Kildare.
To: _____

Sirs,

We have examined and understand the Contract, the Works Requirements, the Pricing Document, all as amended by any supplemental information, for the above contract. Terms used in this Tender that are defined in those documents have the same meaning in this Tender. We submit with this Tender the completed Pricing Document and Schedule and Works Proposals, which form part of this Tender.

I/We hereby undertake to execute and complete the whole of the works described in the tender documents and to comply with the conditions thereof for the fixed price of:

(Euros) €.....

(In words).....

Tendering Company Information

Name of Tenderer _____

Address _____

Signed _____

Date _____

SECTION 2.0 PRELIMINARIES

The attendance's to be provided by the main contractor are listed in the main contract preliminaries. The Contractor shall include below for all other preliminary items required for the satisfactory completion of the installation. Unless the tenderer specifically notes an amount of money or "not included" after each of the Preliminary items, it shall be taken by default that any costs associated with these items are included in the totalled tender figure:

Ref:	Description	Amount € EURO
2.1	Plant, tools. Ladders, vehicles, temporary buildings and any other support facilities required.	€
2.2	Scaffolding, access platforms, hoisting	€
2.3	Health, safety, welfare and training of personnel	€
2.4	Requirements of local authorities and others having jurisdiction; police regulations, customs duties/levies	€
2.5	Setting out, supervision and programming	€
2.6	National insurance and pensions for personnel; holidays, incentive bonus; transfer of personnel; country money.	€
2.7	Safeguarding the works, materials (including Employer's materials) and plant against damage left.	€
2.8	Maintenance of existing buildings, facilities, roads and repair of damage done by this Contractor	€
2.9	Water, power and light for works, to extent required	€
2.10	Insurances	€
2.11	Preparation of working drawings	€
2.12	Builders work drawings, setting out and supervision of associated builders work activities	€
2.13	Labelling; provision of operating and maintenance manuals; as-built drawings (both paper copy and digital CAD Files); commissioning data records, instructing and training employer's representatives	€
	Sub total 'Preliminaries' to Summary of Prices in Section 4	€

SECTION 3.0 TENDER BREAKDOWN

Please note that for tendering purposes it is necessary that the Contractor shall fill out the tender return with the breakdown costs identified for the necessary items. Please note failure to comply with this instruction will render your tender in valid.

Ref:	Description	Amount € (Euros)
	GENERAL	
Item	Building control regulations	€
Item	Builders work	€
Item	Decommissioning of existing services	€
Item	Method Statement and Risk Assessment	€
Item	M&E Co-ordination	€
	Other items not mentioned	
a.		
b.		
	Sub-Total for 'General' carried forward to Summary of Prices in Section 4	€
M50	SITE SERVICES	
50.01	Liquified Petroleum Gas (LPG) Installation	€
50.02	Underground gas pipework	€
50.03	External overground gas pipework	€
50.04	Second Stage LPG Gas Regulator	€
50.05	Decommissioning existing oil tank and oil line	€
	Other items not mentioned	
a.		
b.		

	Sub-Total for 'M50' carried forward to Summary of Prices in Section 4	€
Ref:	Description	Amount € (Euros)
51.0	HEATING CENTRE	
51.01	Decommissioning existing Oil fired boiler System	€
51.02	New Boilers & burners	€
51.03	Flues	€
51.04	Pipework, fittings, valves and accessories	€
51.05	Controls	€
51.06	Insulation on pipework	€
51.07	Circulating Pumps	€
51.08	Auto-fill unit and expansion vessel	€
51.09	Magnetic type Combined air-dirt separator and low loss header	€
51.10	Frost heater	€
51.11	Condensate pipework in boilerhouse	€
51.12	Flush out, pressure test and corrosion inhibitor	€
51.13	Commissioning	€
51.14	Other items not mentioned	
a.		
b.		
	Sub-Total for 'Section (51)' carried forward to Summary of Prices in Section 4	€
52.0	DRAINAGE & REFUGE DISPOSAL	
52.01	Soils & Wastes Pipework	€
52.02	Floor Gulley	€
52.03	Connection to Equipment	€
52.05	Fire collars	€

52.05	Insulation on waste pipework	€
Ref:	Description	Amount € (Euros)
52.06	Condensate pipework in boilerhouse	€
52.07	Overflow pipework from water tank	€
52.08	Other items not mentioned	
a.		
b.		
	Sub-Total for 'Section (52)' carried forward to Summary of Prices in Section 4z	€
53.0	WATER SERVICES	
53.01	Mains water services pipework and installation	€
53.02	Cold Water Services pipework and installation	€
53.03	Hot Water Services pipework and installation	€
53.04	Hot Water Services return pipework and installation	€
53.05	Dosing Pot	€
53.06	Insulation on water services pipework	€
53.07	Connection to Equipment and Sanitary ware	€
53.08	Internal cold water storage tank	€
53.09	Thermostatic mixing valves	€
53.10	Control valves and ballofix valves	€
53.11	In-Direct hot water heater	N/A
53.12	Electric Shower Unit	€
53.13	Hot Water Boilers	N/A

53.14	Pressure Test	€
Ref:	Description	Amount € (Euros)
53.15	Sterilisation of the cold water tank and the water system	€
53.16	Other items not mentioned	
a.		
b.		
	Sub-Total for 'Section (53)' carried forward to Summary of Prices in Section 4	€
54.0	GAS INSTALLATION	
54.01	External underground gas pipework	€
54.02	External overground gas pipework	€
54.03	Internal gas pipework in the extension	€
54.04	Isolation valves	€
54.05	Gas detection system for the School boilerhouse	€
54.06	Other items not mentioned	
a.		€
	Sub-Total for 'Section (54)' carried forward to Summary of Prices in Section 4	€
55.0	SPACE COOLING SERVICES	N/A
56.0	SPACE HEATING SERVICES	
56.01a	Radiators	€
56.01b	Radiant Panels	€
56.02	LPHW Pipework and pipework supports	€
56.03	Insulation	€

56.04	Radiator valves	€
56.05	Two-port valves & associated thermostat	€
Ref:	Description	Amount € (Euros)
56.06	Flush out and pressure test	€
56.07	Below ground pipework	€
56.08	Heating manifold	€
56.09	Commissioning	€
56.10	Other items not mentioned	
a.		
b.		
c.		
	Sub-Total for 'Section (56)' carried forward to Summary of Prices in Section 4	€
57.0	MECHANICAL VENTILATION	
57.01	Extract Ductwork	€
57.02	Extract ductwork for the chemical store	N/A
57.03	Passive supply air ductwork	€
57.04	Chemical resistant ductwork from the fume cupboard	N/A
57.05	Galvanised Ductwork	€
57.06	Flexible ducting	€
57.07	Fire dampers and access panels	€
57.08	Internal Grilles	€
57.09	External Louvres	€

57.10	Cooker Hoods	N/A
57.11	Extract fans	€
Ref:	Description	Amount € (Euros)
57.12	Roof termination cowl	€
57.13	Volume control/balancing dampers	€
57.14	Heat Recovery Units	€
57.15	Labelling and identification	€
57.16	Commissioning	€
57.17	Other items not mentioned	
a.		
b.		
	Sub-Total for 'Section (57)' carried forward to Summary of Prices in Section 4	€
58.0	PROTECTIVE SERVICES	
58.01	Fire extinguishers	€
58.02	Other items not mentioned	
a.		
	Sub-Total for 'Section (58)' carried forward to Summary of Prices in Section 4	€
59.0	COMMISSIONING, INSTRUCTION TO CLIENT AND HANDOVER.	
59.01	Commissioning of Systems	€
59.02	O&M Manual	€
	Sub-Total for 'Section (59)' carried forward to Summary of Prices in Section 4	€

SECTION 4.0 SUMMARY OF PRICES

Ref:	Description	Amount €
	Sub-total 'Preliminaries'	€
	Sub-total 'General'	€
	Sub-total 'Section M50'	€
	Sub-total 'Section M51'	€
	Sub-total 'Section M52'	€
	Sub-total 'Section M53'	€
	Sub-total 'Section M54'	€
	Sub-total 'Section M55'	N/A
	Sub-total 'Section M56'	€
	Sub-total 'Section M57'	€
	Sub-total 'Section M58'	€
	Sub-total 'Section M59'	€
Total Amount of Tender (Fixed Price)		€
<i>Forward cost to Main Contractor for inclusion in their Pricing Document'</i>		

Notes:

1. Fixed price contract. This contract will be treated as a fixed price contract.
2. Complete this tender and ensure that the total figure above is included in the Main Contractors – 'Pricing Document'.
3. Please note failure to comply with this instruction will render your tender in valid.

SECTION 5.0 TYPICAL INSTALLATION COST & LABOUR RATES

The Contractor shall fill out the table below which is to list typical installation costs and the labour rate to install specific items within the tender. The Contractor shall include for the items supply and installation, unit cost, labour rate and associated materials in the costs below for each item. The installation of each item shall be in line with the specification.

All figures are to be nett and shall exclude VAT.

<i>Item</i>	<i>Unit Cost</i>	<i>Labour cost for installation</i>	<i>Material cost for installation</i>	<i>Total Cost for supply & installation</i>
Typical 110mm waste connection to WC as per drawing	€	€	€	€
Typical 32mm waste connection to WHB as per drawing	€	€	€	€
Typical water connection to WC as per drawing	€	€	€	€
Typical water connection to WHB as per drawing	€	€	€	€
Supply and installation of Radiator 11 on drawing c/w pipework connections	€	€	€	€
Supply and installation of Radiator 16 on drawing c/w pipework connections	€	€	€	€

SECTION 6.0 SCHEDULE OF ALTERNATIVE EQUIPMENT

(This page to be copied or duplicated as required)

The Contractor shall list below details of any alternative equipment fully in accordance with the Specification and Contract Drawing which he wishes to offer for consideration should his tender be accepted, on the equipment specified. The credit is deemed to include labour, profit and overheads but exclude builders discount and VAT.

EQUIPMENT	SPECIFIED MANUFACTURER	ALTERNATIVE MANUFACTURER	CREDIT if ACCEPTED €

Name of Contractor _____

Address _____

Signed _____

Date _____

SECTION 7.0 SCHEDULE OF NETT HOURLY WAGE RATES

The following rates shall be applicable for works carried out on a time plus materials basis. No such work shall take place without prior instruction in writing from the Architect. This work shall be recorded daily on day works sheets which record the times of day, name of operative, qualifications of operative and costs. For such day works to be valid, it is essential that a nominated representative of the Employer sign these sheets on a daily basis.

OPERATIVE	NETT HOURLY WAGE RATE - €/hr
FOREMAN	
TRADESMAN	
4th YEAR APPRENTICE	
3rd YEAR APPRENTICE	
2nd YEAR APPRENTICE	
1st YEAR APPRENTICE	
LABOURER	

OPERATIVE	NETT HOURLY WAGE RATE OUT OF HOURS WORKS - €/hr
FOREMAN	
TRADESMAN	
4th YEAR APPRENTICE	
3rd YEAR APPRENTICE	
2nd YEAR APPRENTICE	
1st YEAR APPRENTICE	
LABOURER	



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SECTION 8.0 SCHEDULE OF DAYWORK RATES

The Contractor shall list below his percentage on-cost for overheads, establishment and profit on labour, material and plant if he should be instructed or prior to the commencement of the defects liability period to carry out day work.

ITEM	% FOR OVERHEADS, ESTABLISHMENT & PROFIT