SCHEDULE OF WORKS

Project:
Provision of new air source heat pump heating & hot water system, Solar PV installation with battery storage and electric vehicle charging point.

Address:
St Newlyn East Village Hall, Neeham Road, St Newlyn East, TR8 5LE.

Client:
St Newlyn East Village Hall Committee.

Date:
February 2024

Revision:
-

SECTION 3:
PROVISIONAL SUMS:

Item	Description	Lump Sum
3.00		
	Not applicable to these works.	
	Provisional Sums Total	**N/A**

Contingency sum: **£5% of the tender price**

SECTION 4
SCHEDULE OF WORKS:

SITE APPRAISAL:
The Contractor is expected to visit the site during the tender process to familiarise himself with the existing building and site including access and any other matters to be considered and allowed for when pricing the tender. To understand the works to be carried out and the sequence and methods by which they are most efficiently conducted.

ITEM	DESCRIPTION OF THE WORKS	LUMP SUM
4.00		£
4.01	**PRELIMINARIES:** Allow for all costs associated with management and staff, safety and environmental protection, completion and post completion requirements, guarantees and warranties. ********** **HEATING SYSTEM:** General Building Contractor to decommission existing boiler and heating/hot water system and strip out and dispose. Renewables Contractor to design and install new air source heat pump heating and hot water system to suit the demands of the building and its usage/temperature requirements. To comprise LST (Low Surface Temperature) radiators in all rooms, and hot water cylinder/s, all with 24 hour 7 day programmer, timer, thermostatic and zoned control. Hot water cylinder/thermal store/s to have a back-up immersion heater with timer and thermostat control. Cylinder to be located within the existing plant room, and connected to the building's existing hot water plumbing system. Location of heat pump TBC following liaison with the Client and supplier/installer (position shown on plan is indicative only). (Note: Subject to location a protective enclosure around the units may be required to prevent accidental damage). Renewables Contractor to advise the building contractor of size and construction requirements for heat pumps base slab, and any trenching needed for pipework to their services entry point into the building. **EXISTING ELECTRIC DISTRIBUTION BOARD:** Renewables Contractor to liaise with the general builder's electrician regarding assessment of the building's existing	

	electrical distribution board/consumer unit installation, to assess suitability for integration with the new PV and battery storage system, and excess production export meter and connections. If the existing apparatus cannot accommodate integration, advice is to be given to the general builder's electrician as to upgrade works required. Unsuitable apparatus and any substandard wiring to be stripped out and disposed. New distribution board/consumer unit and associated wiring to be installed – all upgrade works to be carried out by others.	
4.04	**PV PANELS & BATTERY STORAGE:** Renewables Contractor to supply and install a Solar PV panel installation. To design a system to maximise the energy generation that can be accommodated, and their orientation for maximum system efficiency. The installation to include all associated bracketry, wiring, inverters, meters and the like. The control gear for the PV system, including its power generation meter, battery storage facility, and excess production export meter and connections, etc, to be integrated with the building's existing electrical distribution board/consumer unit. PV panels to be roof mounted using MCS certified bracketry/fixing system approved by the roof cladding manufacturer. Final positions for PV panels likely to be determined by the rooflights of the new roof structure. PV panels output to a battery storage system sized to suit the power demand of the building's usage. Excess output to be exported to the National Grid via a metered connection. Number of storage batteries to accommodate the power demands of the hall and maximise the efficiency of the PV system to supply 'free' power. Location for batteries to be agreed with Client. (Note: Subject to location a protective enclosure around the units may be required to prevent accidental damage). ***If batteries are to be wall mounted, their weight and fixing requirements to be notified to the general building contractor so that advice can be forwarded to the external wall insulation installer.*** Renewables Contractor to advise the general building contractor of size and construction requirements for battery's	

	base slab, and any trenching needed for cabling to their services entry point into the building.	
4.05	**<u>EXTERNALLY – ELECTRIC VEHICLE CHARGER:</u>** The existing incoming electricity supply/stored battery power distribution system to be assessed for its ability to accommodate a single dedicated dual electric vehicle charger (to permit charging 2 vehicles at a time). The location for the EV charger to be agreed with the Client. Subject to chosen location and type of charger, the charger unit may be either wall mounted or may require a mounting post and concrete foundation. ***If to be wall mounted its weight and fixing requirements to be notified to the general building contractor so that advice can be forwarded to the external wall insulation installer.*** Subject to any constraints by the on-site electrical supplies, the Contractor to supply and install an untethered AC fast electric dual vehicle charger of between 7kW to 22kW with both Type 2 (modern EV) and Type 1 (older EV) charger connector sockets. Work to be carried out by others - 2 dedicated charging parking bays adjacent to the EV charger are to be permanently marked upon the tarmac car park surface, in a different colour to the other parking bays, and with a clear logo or signage identifying their purpose.	

END OF DOCUMENT