

3.14 DATA/COMMS SYSTEM

The Contractor shall design, supply, install a data / Comms cabling System as required by the client.

All works shall be as necessary designed, supplied, installed, commissioned, & certified by & wired using cabling as detailed in clause 2.10. This specification is a PERFORMANCE DESIGN ONLY & it is the responsibility of the contractor to ensure that the tender price includes for the design, supply, installation, commissioning, & certification of the system, & that it is all carried out by an approved company.

The incoming Fibre service is to terminate in the plantroom in the service providers termination unit & the modem/router. A minimum of 2No 13amp double socket outlets are to be provided adjacent to the intake.

Any patch panels & hardware etc are to be mounted at high level.

On completion, the contractor shall issue a completion certificate, equipment compliance certificate, design certificate & an installation certificate. These works shall be covered by a provisional sum as detailed in section 6.

3.15 PHOTOVOLTAIC SYSTEM

The Contractor shall design, supply, install a Photovoltaic System in conjunction with the nominated specialist "OHM energy". The contractor shall install the system designed by OHM but should take on board the requirements of clause 3.3 of this specification along with the OHM energy design.

The system would consist of 52 PV panels mounted on the east & West elevation roofs with one inverter, 1 no 13.5 kWh Tesla Powerwall with a consistent output of 10 kWh, This system shall be designed in such a manner that additional Powerwall's can be added to the system in the future up to 4 (giving a max of 5 Powerwall's).

The PV system is to work in the following manner:

1. The Electricity the PV's are generating is introduced into the Pavilions electricity system via the "OHM" solar control system to power the pavilion & any surplus electricity generated is sent to the Powerwall battery(s) & stored for future use.
2. When there is none or little generation from the PV's the solar control system calls on the batteries to power the Pavilion.
3. If & when there is no PV supply (nighttime) & the batteries are depleted "OHM" solar control system uses the mains electrical supply to power the pavilion, if possible a economy 7 tariff meter should be installed to make any nighttime electricity usage as cheap as possible.
4. When there is sufficient sunlight for the PV's to generate or battery power then the controls stop using mains electricity.

All works shall be as necessary designed, supplied, installed, commissioned, & certified by the specialist PV company.

On completion, the contractor shall issue a completion certificate, equipment compliance certificate, design certificate & an installation certificate.

Photovoltaic Specialist company

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