

TEM
Engineering and Management

PROJECT: Muckross Cottage

TEM CONTRACT No: 18622

Document Title:

Electrical Equipment Schedule

Document Number: 18622-300-S2

T1	Issued for Tender	KC	03/07/26	LA	03/07/26	TOC	03/07/26		
Issue Rev	Issue or Revision Description	Origin By	Date	Chkd By	Date	Appd By	Date	Appd By	Date

Electrical Equipment Schedule

Project: 18622 Muckcross Cottage / Revision T1

Lighting System			
1. GENERAL			
All lighting provided free issue to the contractor.			
The Electrical Equipment Schedule shall be read in conjunction with the information provided in the Scope of Works and the TEM Electrical specification			
The electrical contractor shall confirm the manufacture & model number prior to placing orders as listed below is in accordance with the description and design intent of the specification.			
Where samples are requested in the following schedules, the cost shall be incorporated within the Tender Offer.			
2. INSTALLATION			
The Contractor shall recognise the manufacturers installation instructions. All associated costs shall be included in the tender offer. Where the installation deviates from the manufacturers instructions details shall be included within the following schedules and/ or on associated drawings.			
Where luminaires require additional supports/ suspensions, including secondary steelwork then the tender offer shall be inclusive of the same. Suspended ceilings shall not be relied upon for supporting luminaires. Where modular luminaires are installed within a suspended ceiling grid the luminaire shall have secondary supports to structural elements above. Where suspended ceiling tiles require to be cut to accept luminaires then a plywood backboard shall be installed above the cut tile and supported from the suspended ceiling grid. The exact mounting position and suspension height shall be agreed on site prior to installation.			
All luminaires shall be supplied with LED lamps/panels unless otherwise stated. All lamps shall be colour temperature of 4000K unless otherwise stated and manufactured by Philips, Osram, GE or Sylvania.			
Where luminaire dimensions and cut-out dimensions are provided then these are for tendering purposes only, the Electrical Contractor shall be responsible for providing details of cut-out dimensions 'for construction'.			
3. PROTECTION			
All equipment shall be supplied with adequate means of protection to ensure its preservation during transportation to site and any subsequent storage prior to installation.			
4. EMERGENCY LIGHTING			
Where emergency luminaires are not supplied with an integral LED charging indicator light, a remote flush mounted LED kit shall be installed adjacent to the luminaire.			
5. ALTERNATIVE LUMINAIRES			
Alternative luminaire proposals shall be submitted with the Tender Offer as an addendum to a specification compliant offer. The acceptance of alternatives shall be at the discretion of TEM Engineering and Management DAC. Where alternatives are offered and accepted, the Contractor shall undertake all lighting calculations associated with alternative proving the performance will be equivalent to the specified luminaire.			
Ref. Number	Location	Product Type	Product Make/Model
Conduit Wiring Cables	Internal	NYMJ, LSZH insulated.	AEI/BICC
Multi-Core Flexible Wiring Cable	Internal	For connection between lighting control modules and luminaires. 3 or 4 core copper conductors, circular with white outer sheath	AEI/BICC
Light Duty MICC Cable	Internal	Copper conductors, LSZH sheath coloured RED for the Fire Alarm and Voice Alarm, White for Emergency Lighting, BLACK for all other circuits.	Pirelli 120
Heavy Duty MICC Cable	Internal	Copper conductors, LSZH sheath coloured BLACK.	Pirelli 120

Electrical Equipment Schedule

Project: 18622 Muckcross Cottage / Revision T1

Steel Cable Tray	Internal	Galvanised, complete with brackets, bends, offsets, supports	Legrand
Steel Conduit	Internal	Galvanised Steel	Marshall Tufflex
Tray & Ladder	Internal	Galvanised Steel	CPL
Protective Devices	Internal	Generally Type C MCB's (16kA breaking capacity). Generally Type D RCBO's with 30mA Tripping.	ABB/Schneider
General Switch & Socket Accessories	Internal	All twin socket outlets are to be supplied c/w dual earth terminals for use where high integrity earthing is required in compliance with Regulation. All accessories to be individually labelled indicating source of supply. Brushed Chrome finish with black inserts.	MK Albany Range Brushed Chrome finish
Key Switches	Internal	Emergency lighting test key switch c/w neon indicator.	MK Electric 'Gridswitch'
General Services			
Ref. Number	Location	Product Type	Product Make/Model
3 or 4 pin plug in ceiling rose	Internal	6A 3 pin – general lighting 6A 4 pin – emergency lighting	MK Electric
Fire Alarm system	Internal/External	The specialist contractor is required to design, supply, install, test and commission the complete system to comply with IS 3218 . Addressable Optical smoke detector, Addressable Fixed temperature heat detector, Addressable manual breakglass, Addressable Relay unit, Addressable Mains Relay Unit, Addressable Fire alarm interfaces, Analogue Addressable Fire Alarm Panel	Eaton or equivalent

Electrical Equipment Schedule

Project: 18622 Muckcross Cottage / Revision T1

Emergency Lighting	Internal	Central monitoring panel and relays for the luminaires fitted with 3 hour emergency converson packs.	Ventilux	
Cat 6A Cabling	Internal	(As defined in EIA/TIA-568-B), (Overall) Shielded Twisted Pair/ (STP or F/UTP) cable, which may be from 22 – 24 AWG, and overall sheathed in Low Smoke, Zero Halogen (LSZH) polyolefin, GigaSPEED XL cable GigaSPEED Cat 6 SPT 4 pair LSZH horizontal cable, lilac sheath. GigaSPEED Cat 6 STP Patch Cord LSZH Blue 1m/3m/5m for data patching within cabinets GigaSPEED Cat 6 STP Patch Cord LSZH Green 1m/3m/5m for telephone patching within cabinets 47 way 1u Cat 6 Patch Panels.	Brand Rex, Systimax or equal and approved The structured cabling installation shall be carried out by a single vendor. All components to be of the same manufacture and single installer.	
Intruder Alarm System	Internal/External	The specialist contractor is required to supply, install, test and commission the complete intruder alarm system. Keypad, Door mounted contacts, Dual Technology Passive infra red detectors, PSU's, Internal Bells and External Bells		
General Services				
Ref. Number	Location	Product Type	Product Make/Model	Image
Downlight	GF Shower Room x 2 En Suite x 2	Surface Mounted IP65 LED Downlight 6W	Phillips or equivalent	
TYPE-K Pendant Fitting	Hall x 1 Living area x 1 Kitch/Dining area x 2 Stairs x 1 GF Bedroom x 1 Utility Room x1 Store Room x 1	Standard pendant fitting. CE marked with 11Watt LED bulb	MK Logic or equivalent	
TYPE W-EX Surface mounted external Luminaire	Front Entrance x 1 Rear Entrance x 1	WallMounted External Luminaire IP65	Thron Piazza II LED or equivalent	

Electrical Equipment Schedule

Project: 18622 Muckcross Cottage / Revision T1

Mirror Light	Shower Room x 1	Wall Mounted Bathroom Mirror Light 308mm	Sonas or equivalent	
Socket Outlet Part "M" Compliant	Living/Kitchen x 9 Hall x 2 GF Bedroom x 3 Utility x 5 Store x 3 FF Bedroom x 3	Socket Outlet Part "M" Compliant. Rocker switch with red indicator to the extremes of the socket face	MK Logic or equivalent	
Spur Outlet Fused	Living Area x 1 GF Bedroom x 1 Kitchen x 3 Hall x 1 Shower Room x 1 Ensuite x 1	Spur Outlet Fused	MK Logic or equivalent	
Light Switch Part "M" Compliant	Living/kitch x 2 Hall x 2 GF Bedroom x 1 GF Stairs x 1 Utility Room x 1 Store Room x 1 FF Stairs x 1 FF Bedroom x 2	Light Switch Part "M" Compliant. Wide Rocker	MK Logic or equivalent	