LEPOL LTD
fire & security

Unit HM25, Holmfield Mills, Holmfield,
Halifax. West Yorkshire. HX3 6SN.

Tel: 01422 240782 Fax: 01422 240690
www.lepolfire.co.uk lepol@hotmail.co.uk
VAT Number: 945991567
Company Reg Number: 6799543

SALES INVOICE

Invoice Address
Heath U R C (Church)
11 Free School Lane
Halifax
HX3 0DW

Site Address
11 Free School Lane
Halifax
HX3 0DW

Invoice: 8561
Date: 26-11-2018
Order No: Email
Acc Ref: HEATHURC

Qty	Part No	Description	Each	Total
		Work carried out as detailed on form no 007616		
1		(1) As per original quotation @	587.85	587.85
1		(2) Stairs light upgrade @	37.50	37.50
1		(3) Lobby 1st floor - reconfigure wiring @	25.00	25.00
1		(4) Lobby 1st floor / stairs light reconfigure		
1		wiring @	25.00	25.00
1		(5) 3 x E/L bulkheads - to maintained setting @	12.50	12.50
1		(6) Mens toilet - new microwave light /		
1		reconfigure @	98.75	98.75
1		(7) Ladies toilet - new microwave light /		
1		reconfigure @	98.75	98.75
1		(8) Inspection/testing (as per supplied report) @	165.00	165.00
1		(9) Scouts stone - new light bulb - FOC		

MAKE CHEQUES PAYABLE TO: LEPOL FIRE & SECURITY LTD
BACS PAYMENTS: HSBC, 7 Commercial Street, Halifax. HX1 1HN.
Account: 92043793 Sort code: 40-23-05

Net Amount		1050.35
VAT @	20.00%	210.07
Amount Due		**1260.42**

ICM6/

ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with *British Standard 7671 – Requirements for Electrical Installations*

Original (To the person ordering the work)

Installer's Reference Number

IRN/ 261118

DETAILS OF THE CLIENT

Client / Address: HEATH UNITED REFORM CHURCH

DETAILS OF THE INSTALLATION

The installation is:

Address: MANOR DRIVE, HALIFAX HX3 0DN

New

Extent of the installation covered by this certificate:

An addition

An alteration

DESIGN

§ Details of permitted exceptions appended: **Yes / N/A** Risk assessment appended: **Yes / N/A** No. of pages

§*Delete as appropriate*

I/We, being the person(s) responsible for the design of the electrical installation (as indicated by my/our signature(s) below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671, amended to (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5):

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.
For the **DESIGN** of the installation:

**(*Where there is divided responsibility for the design*)

Signature		Date		Name (CAPITALS)	Designer 1
Signature		Date		Name (CAPITALS)	** Designer 2

CONSTRUCTION

I, being the person responsible for the construction of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the construction work for which I have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671, amended to (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5):

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.
For the **CONSTRUCTION** of the installation:

Signature		Date		Name (CAPITALS)	Constructor

INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation (as indicated by my signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671, amended to 2018 (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5): NONE

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.
For the **INSPECTION AND TESTING** of the installation:

Signature	Howard Rose	Date	26/11/18	Reviewed by:† Signature	Date
Name (CAPITALS)	HOWARD ROSE	Inspector		Name (CAPITALS)	

DESIGN, CONSTRUCTION, INSPECTION AND TESTING *

* This box to be completed only where the design, construction, inspection and testing have been the responsibility of one person.

§ Details of permitted exceptions appended: **Yes / N/A** Risk assessment appended: **Yes / N/A** No. of pages

§*Delete as appropriate*

I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the said work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671, amended to (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5):

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.
For the **DESIGN**, the **CONSTRUCTION** and the **INSPECTION AND TESTING** of the installation.

Signature		Date		Reviewed by:†† Signature	Date
Name (CAPITALS)				Name (CAPITALS)	

† *The completed schedules of inspection and testing should preferably be reviewed by another skilled person competent to confirm that the recorded results are consistent with electrical installation work conforming to BS 7671.*

Original (To the person ordering the work)

PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

DESIGN (1) Organisation †

Address:

Postcode

DESIGN (2) Organisation †

Address:

Postcode

† **CONSTRUCTION** Organisation

Address:

Postcode

INSPECTION AND TESTING Organisation † HOWARD ROSE ELECTRICAL SERVICES.

Address: 49, GLADSTONE VIEW
SIDDAL
HALIFAX

Postcode HX39DH

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate

System Type(s)

TN-S	✓
TN-C-S	
TN-C	
TT	
IT	

Number and Type of Live Conductors

	a.c.	✓	d.c.
1-phase (2-wire)		1-phase (3-wire)	2-pole
2-phase (3-wire)			3-pole
3-phase (3-wire)	✓	3-phase (4-wire)	other
Other	Please state		

Nature of Supply Parameters

Nominal voltage(s): $U^{(1)}$	400 V	$U_o^{(1)}$	230 V
Nominal frequency, $f^{(1)}$	50 Hz		
Prospective fault current, $I_{pf}^{(2)(3)}$	1.25 kA		
External earth fault loop impedance, $Z_e^{(2)(3)}$	0.18 Ω		
Number of sources	ONE		

Notes:
(1) by enquiry
(2) by enquiry or by measurement
(3) where more than one supply, record the higher or highest values

Characteristics of Primary Supply Overcurrent Protective Device(s)

BS(EN)	1363	
Type	2	
Rated current	8	A
Short-circuit capacity	33	kA
Confirmation of supply polarity	✓	(✓)

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of Earthing

Distributor's facility:	✓
Installation earth electrode:	N/A

Details of Installation Earth Electrode (where applicable)

Type: (eg rod(s), tape etc)	N/A	Location:	N/A
Electrode resistance, R_A:	N/A (Ω)	Method of measurement:	N/A.

Main Switch/Switch-Fuse/ Circuit-Breaker/RCD

Type BS(EN)	60947-3	Voltage rating	100 V
No of poles	4	Rated current, I_n	A
Supply conductors material	COPPER	RCD operating current, $I_{\Delta n}$*	~~mA~~
Supply conductors csa	25 mm²	RCD operating time (at $I_{\Delta n}$)*	— ms
		Rated time delay*	— ms

** (applicable only where an RCD is suitable and is used as a main circuit-breaker)*

Maximum Demand (Load): 80A/PH ~~kW~~ / Amps **Delete as appropriate*

Protective measures against electric shock: EEBADOS.

Earthing and Protective Bonding Conductors

	Earthing conductor	Main protective bonding conductors
Conductor material	COPPER	COPPER
Conductor csa	16 mm²	10 mm²
Continuity/ connection verified	✓ (✓)	✓ (✓)

Bonding of extraneous-conductive-parts (✓)

Water installation pipes	✓	Lightning protection	
Oil installation pipes		Structural steel	
Gas installation pipes	✓	Other	

COMMENTS ON EXISTING INSTALLATION

In the case of an alteration or additions see Section 633 SATISFACTORY

Note: Enter 'NONE' or, where appropriate, the page number(s) of additional page(s) of comments on the existing installation.

NEXT INSPECTION**

§ *Enter interval in terms of years, months or weeks, as appropriate* §

I/We, the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than 5 YEARS.

** *The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life, and the period should be agreed between the designer, installer and other relevant parties.*

† *Where the Installer responsible for the construction of the electrical installation has also been responsible for the design **and** the inspection and testing of that installation, the 'Particulars of the Organisation(s) responsible for the Electrical Installation' may be recorded only in the section entitled 'CONSTRUCTION'.*

Original (To the person ordering the work)

SCHEDULE OF ITEMS INSPECTED

† *See note below*

1.0 CONDITION OF ELECTRICAL INTAKE EQUIPMENT (the Distributor should be notified of any unsatisfactory equipment)

1.1	Service cable	✓
1.2	Service head	✓
1.3	Distributor's earthing arrangement	✓
1.4	Meter tails - Distributor/Consumer	✓
1.5	Metering equipment	✓
1.6	Isolator	✓

2.0 PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

2.1	Presence of adequate arrangements where generator to operate as a switched alternative	N/A
	a) Dedicated earthing arrangement independent of that of the public supply	N/A
2.2	Presence of adequate arrangements where generator to operate in parallel with public supply system	
	a) Correct connection of generator in parallel	N/A
	b) Compatibility of characteristics of means of generation	N/A
	c) Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	N/A
	d) Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	N/A.
	e) Means to isolate generator from the public supply system	N/A
2.3	Presence of alternative/additional supply warning notices at:	
	a) The origin	N/A
	b) The meter position, if remote from origin	N/A
	c) The consumer unit/distribution board to which the alternative/additional sources are connected	N/A
	d) All points of isolation of ALL sources of supply	N/A

3.0 AUTOMATIC DISCONNECTION OF SUPPLY

3.1	Presence and adequacy of protective earthing/ bonding arrangements as follows:	
	a) Distributor's earthing arrangement or installation earth electrode arrangement	✓
	b) Earthing conductor and connections	✓
	c) Main protective bonding conductors and connections	✓
	d) Earthing/bonding labels at all appropriate locations	✓
3.2	Accessibility of:	
	a) Earthing conductor connections	✓
	b) All protective bonding connections	✓
3.3	FELV – requirements satisfied	✓
3.4	Reduced low voltage – requirements satisfied	✓

4.0 BASIC PROTECTION

4.1	Presence and adequacy of protective measures to provide basic protection	
	a) Insulation of live parts	✓
	b) Barriers or enclosures	✓
	c) Obstacles**	✓
	d) Placing out of reach**	✓

5.0 ADDITIONAL PROTECTION

5.1	The presence and effectiveness of additional protection methods used, as follows:	
	a) RCDs not exceeding 30 mA operating current	✓
	b) Supplementary bonding	✓

6.0 OTHER METHODS OF PROTECTION (insert location in box provided)

The presence and effectiveness of other methods of protection against electric shock where used, as follows:

			LOCATION
6.1	Basic and fault protection		
	a) SELV	✓	
	b) PELV	✓	
	c) Double insulation/ Reinforced insulation	✓	
	d) Electrical separation for one item of equipment	✓	
6.2	Fault protection	✓	
	a) Non-conducting location/Earth-free local equipotential bonding**	N/A.	
	b) Electrical separation for more than one item of equipment**	✓	

7.0 DISTRIBUTION EQUIPMENT

7.1	Adequacy of working space/accessibility	✓
7.2	Security of fixing	✓
7.3	Insulation of live parts not damaged during erection	✓
7.4	Adequacy / security of barriers	✓
7.5	Suitability of enclosures for IP and fire ratings	✓
7.6	Enclosures not damaged during installation	✓
7.7	Presence and effectiveness of obstacles	✓
7.8	Presence of main switch(es), linked where required	✓
7.9	Operation of main switch(es) (functional check)	✓
7.10	Operation of circuit-breakers and RCDs to prove functionality	✓
7.11	RCD(s) provided for fault protection, where specified	✓
7.12	RCD(s) provided for protection against fire	✓
7.13	RCD(s) provided for additional protection, where specified	✓
7.14	Confirmation overvoltage protection (SPDs) provided where specified	✓
7.15	Confirmation of indication that SPD is functional	✓
7.16	Presence of RCD quarterly test notice at or near the origin	✓
7.17	Presence of diagrams, charts or schedules at or near each distribution board, where required	✓
7.18	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required	✓
7.19	Presence of next inspection recommendation label	✓
7.20	Presence of other required labelling	N/A
7.21	Selection of protective device(s) and base(s); correct type and rating	✓
7.22	Single-pole protective devices in line conductor only	✓
7.23	Protection against mechanical damage where cables enter equipment	✓
7.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures	✓
7.25	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✓

8.0 CIRCUITS

8.1	Identification of conductors	✓
8.2	Cables correctly supported throughout their length	✓
8.3	Examination of cables for signs of mechanical damage during installation	✓
8.4	Examination of insulation of live parts, not damaged during erection	✓

** *For use in controlled supervised/conditions only*

† ***All boxes must be completed.*** *'✓' indicates that an inspection was carried out and that the result was* ***satisfactory.*** *'N/A' indicates that an inspection was* ***not applicable*** *to the particular installation.*

Original (To the person ordering the work)

SCHEDULE OF ITEMS INSPECTED

† See note below

8.5	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	✓
8.6	Suitability of containment systems (including flexible conduit)	✓
8.7	Correct temperature rating of cable insulation	✓
8.8	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✓
8.9	Adequacy of protective devices: type and rated current for fault protection	✓
8.10	Presence and adequacy of circuit protective conductors	✓
8.11	Coordination between conductors and overload protective devices	✓
8.12	Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences	✓
8.13	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage	
	a) Installed in prescribed zones	✓
	b) Incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like	✓
8.14	Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA	
	a) For mobile equipment with a current rating not exceeding 32 A for use outdoors	✓
	b) For all socket-outlets of rating 20 A or less, unless exempt	✓
	c) For cables installed in walls/partitions at a depth of less than 50 mm	✓
	d) For cables installed in walls/partitions containing metal parts regardless of depth	✓
8.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire	✓
8.16	Band II cables segregated/separated from Band I cables	✓
8.17	Cables segregated/separated from non-electrical services	✓
8.18	Termination of cables at enclosures	
	a) Connections under no undue strain	✓
	b) No basic insulation of a conductor visible outside enclosure	✓
	c) Connections of live conductors adequately enclosed	✓
	d) Adequately connected at point of entry to enclosure (glands, bushes etc.)	✓
8.19	Suitability of circuit accessories for external influences	✓
8.20	Circuit accessories not damaged during erection	✓
8.21	Single-pole devices for switching in line conductor only	✓
8.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment	✓

9.0 ISOLATION AND SWITCHING

9.1	Isolators	
	a) Presence and location of appropriate devices	✓
	b) Capable of being secured in the OFF position	✓
	c) Correct operation verified (functional check)	✓
	d) The installation, circuit or part thereof that will be isolated is clearly identified by location and/or durable marking	✓
	e) Warning label posted in situations where live parts cannot be isolated by the operation of a single device	N/A
9.2	Switching off for mechanical maintenance	
	a) Presence of appropriate devices	✓
	b) Acceptable location (state if local or remote) REMOTE	✓
	c) Capable of being secured in the OFF position	✓
	d) Correct operation verified (functional check)	✓
	e) The circuit or part thereof to be disconnected clearly identified by location and/or durable marking	✓
9.3	Emergency switching/stopping	
	a) Presence of appropriate devices	✓
	b) Readily accessible for operation where danger might occur	✓
	c) Correct operation verified (functional check)	✓
	d) The installation, circuit or part thereof to be disconnected, clearly identified by location and/or durable marking	✓
9.4	Functional switching	
	a) Presence of appropriate devices	✓
	b) Correct operation verified (functional check)	✓

10.0 CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

10.1	Suitability of equipment in terms of IP and fire ratings	✓
10.2	Enclosure not damaged/deteriorated during installation so as to impair safety	✓
10.3	Suitability for the environment and external influences	✓
10.4	Security of fixing	✓
10.5	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire	✓
10.6	Recessed luminaires (downlighters)	
	a) Correct type of lamps fitted	✓
	b) Installed to minimise build-up of heat	✓
10.7	Provision of undervoltage protection, where specified	N/A
10.8	Provision of overload protection, where specified	✓
10.9	Adequacy of working space/accessibility to equipment	✓

11.0 SPECIAL INSTALLATIONS OR LOCATIONS

List below any Special Installations or Locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 7 are fulfilled.

12.0 OTHER

SCHEDULE OF ADDITIONAL RECORDS* (See attached schedule)

Page No(s) 5 to 9

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s).

† ***All boxes must be completed.*** *'✓' indicates that an inspection was carried out and that the result was* ***satisfactory****. 'N/A' indicates that an inspection was* ***not applicable*** *to the particular installation.*