

SPECIFICATION

For Preliminary Conditions see “General Regulations”:-

1. DEFINITIONS

BCSCCG	-	Bayonet Cap, Shade Carrier, Cord Grip	
DP	-	Double Pole	
ES	-	Edison Screw	
GES	-	Goliath Edison Screw	
HSOS	-	House Service Overhead System IEE	- Institute of Electrical Engineers
MCI	-	Malleable Cast Iron	
PVC	-	Polyvinyl Chloride	
QMB	-	Quick Make and Break	
SP	-	Single Pole	
VRI	-	Valcanised Rubber Insulated	

2. CLASS OF WORK

All work shall comply with this Specification and be finished complete and ready for service, to the entire satisfaction of the Superintending Officer and in such sections and manner as to suit building operations or the convenience of occupants.

All work shall conform to the best principles of modern practice and be executed by fully qualified electrician.

Installations shall comply, except as modified herein, with:

- (a) the latest local regulations for electrical equipment in building.
- (b) the latest local issue of the IEE regulations.
- (c) the local Electricity Authority's regulations.
- (d) the requirements of the Fire Protection Officer.
- (e) all local regulations for the safety of the public.

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3. MATERIALS

All materials shall be of approved manufacture and shall comply, except as modified herein, with:

(a) British Standard – Where a British Standard specified in this section is no longer applicable the latest British Standard that supersedes the Standard specified herein is applicable.

(b) British Standard Code of Practice CP 326 : 1965.

(c) (i) All materials, fittings, appliances and accessories shall be uniform of their kind throughout an installation, suitable for the electricity supply to which they are connected, and similar parts shall be interchangeable.

(ii) All items covered by this Specification shall be subjected to inspections and test of materials and workmanship prescribed in the Specifications and the ‘Conditions of Contract’ issued with it, unless otherwise specified, inspections and tests considered necessary will be carried out by the Superintending Officer

The Contractor should submit to the Superintending Officer a detail of the items it is proposed to use, stating maker's name and catalogue numbers. The Superintending Officer will decide whether inspection of the stores shall be waived, inspection made at the Manufacturer's or Contractor's premises, or whether samples are to be submitted to him for approval.

When samples are called for by the Superintending Officer those approved will be retained by him as a standard for inspection of bulk supplies for subsequent incorporation. Samples not approved will be returned to the Contractor who will be required to furnish further samples.

(d) All 'MK' references refer to 'Catalogue of Wiring Accessories', by MK Electric Limited, Shrubbery Road, Edmonton, London N9 0PB.

(e) All 'LEB' references refer to product catalogues by 'Leader Electrical Appliances MFG. Sdn Bhd., Lot 465 & 466, MK 12, 14200 Sungai Bakap, S.P.S., Penang Malaysia, Telephone: +604-582 5888.

(f) All 'Goodlite' references refer to product catalogues by 'United U-Li Goodlite Sdn. Bhd., Lot 44, Jalan Cetak, Tasek Industrial Estate, 31400 Ipoh, Perak, Malaysia. Telephone: + 605-545 1411

(g) All 'Crabtree' references refer to product catalogues by Electrium Sales Limited, Lichfield Road, Brownhills, West Midlands, WS8 6JZ England, Telephone: +01543 455010.

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3. MATERIALS (Cont'd)

(h) All 'Clipsal' references refer to product catalogues by 'Clipsal Australia Pty Ltd' 12 Park Terrace, Bowden SA 5007, Telephone: +61 88269 0587.

(i) All 'Samcom' references refer to product catalogues by 'Samcom Electronics Pte Ltd., 89, Kaki Bukit Avenue 1, Shun Li Industrial Park, Singapore 417957, Telephone: +65-67441100

(j) All 'Fael Luce' references refer to product catalogues by ' Fael Spa', 20041, Agrate Brianza (MI) Italy, Via Euripide, 12/14, Telephone: +39 63411

(k) All 'Galvapole' references refer to product catalogues by Galvapole Industries Sdn. Bhd., No. 9, Jalan Kecapi, Elite Industrial Estate, Jalan Bukit Kemuning, 40350 Shah Alam, Selangor, Malaysia, Telephone: +603-5121 3300

(l) All 'Stiebel Eltron' references refer to STIEBEL ELTRON, Inc., 242 Suffolk Street, Holyoke, MA 01040, Telephone: (413) 538-7850.

(m) All 'Legrand' references refer to product catalogues by 'Legrand' No. 15, Jln. Kilang Barat #07-05/06/7, Frontech Centre, Singapore 159357, Telephone: +65 6861 2234.

(n) All 'Osram' references refer to product catalogues by 'Osram Pte Ltd', 159, Sin Ming Road, #05-04 Amtech Building, Singapore 575625, Telephone: +65 6552 0110. However the products specified in this document are manufactured from 'Osram' headquarters in Hellabrunner Strasse 1, 81543 München, Germany, Tel.: 49 89 62 13 0 and its factories in within Europe.

(o) All 'Hager' references refer to product catalogues by 'Hager Electro Systems Pte. Ltd.', 23, New Industrial Road, #01-03/04 Century Industrial Building, Singapore 536209, Telephone: +65 6383 1030.

(p) All 'Furse' references refer to product catalogues by 'Furse', Wilford Road, Nottingham, NG2 1EB, United Kingdom, Telephone: +44115964 3700.

(q) All 'Neo-Neon' references refer to product catalogues by 'Neo-Neon', Gong He Town, He Shan City, Guang Dong, PRC 529728. Telephone: +86 750 8300941.

(r) All 'Nikkon' references refer to product catalogues by 'Success Electronics & Transformer Manufacturer Sdn Bhd, No. 3, 5 & 7, Jalan TSB 8, Taman Industri Sungai Buloh, 47000 Sungai Buloh, Selangor Darul Ehsan, Malaysia, Telephone:

+603 6157 2788

(s) All 'Davis Lighting' references refer to product catalogues by 'Davis Group Pacific', P O Box 1606, Cleveland, Queensland 4163, Australia, Telephone: +61 7321 91807.

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3. MATERIALS (Cont'd)

(t) All 'Khind' references refer to product catalogues by Khind Marketing (M) Sdn Bhd, No.2, Jalan Astaka U8/82, Seksyen U8, Bukit Jelutong, 40150 Shah Alam, Selangor Darul Ehasan, Malaysia, Telephone: +603 7847 1900.

(u) All 'OBSTA' references refer to product catalogues by 'Claude OBSTA' 12, Boulevard des Lles, 92441 Issy-Les-Moulineaux Cedex, France, Telephone: +33 141235010.

(v) All 'Starkeys' references refer to product catalogues by 'Starkeys Products', 46 Achievement Way, Enterprise Park, Wangara Western Australia 6065 Telephone : +61 (0)8 9302 2088.

(w) All 'Honeywell' references refer to product catalogues by 'Honeywell International Inc., 101 Columbia Road, Morristown, NJ 07962 , Telephone: +1 973 455-2000.

(x) All 'Petrel' references refer to product catalogues by 'PFP Electrical Products Limited', United Kingdom, Telephone : +44 121 783 7161.

(y) All 'Tridonic Atco' references refer to product catalogues by TridonicAtco Australia Pty Ltd', Private Bag 9, 130 Melrose Drive, Tullamarine, Victoria 3043, Australia, Telephone: +61 3 9339 0200.

(z) All 'Vossloh' references refer to product catalogues by 'Vossloh-Schwabe' 55 Mayview Road, Lawrence, PA 15055, USA, Telephone: 1-724-743 4770.

(aa) All 'USHA' references refer to product catalogues by Usha International Ltd, Plot No.3, Sector 32, Institutional Area, Gurgaon 122001, India, Telephone: +91 124 2883100.

(bb) All 'Wington' references refer to product catalogues by Wington Fan Industry Ltd., C Kam Shing Industrial Building 1-11 Kwai Wing Road Kowloon, HongKong, Tel: (852) 2410 9038.

(cc) All 'CATA' references refer to product catalogues by No. 18, Wing F, Block-a, Local Shopping Centre, Ring Road, Naraina Vihar, New Delhi - 110028, Delhi, India, Telephone: +91 9312962861.

(dd) All 'SharpEye' references refer to product catalogues by Spectrex Inc., 218 Little Falls Road, Cedar Grove NJ 07009, USA, Telephone: + 1 973 239-8398

(ee) All 'Menvier' references refer to product catalogues by Cooper Lighting and Security Ltd, Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, Telephone: +44 1302 303303.

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3. MATERIALS (Cont'd)

(ff) All 'Besam' references refer to product catalogues by An ASSA ABLOY Group Company.

(gg) All 'Crawford' references refer to product catalogues by Crawford Spares Production Holland Postbus 120 NL-1700 AC Heerhugowaard.

4. FIXING OF FITTINGS SWITCH AND FUSE GEAR, ACCESSORIES, ETC.

(a) All cable and conduit runs shall be kept clear of all water and gas pipes and at least 150mm clear of and if possible below steam and hot water lines.

(b) Conduit boxes shall be used for attaching ordinary fittings and accessories to conduit systems. Lighting fittings with conduit or similar suspension shall be suspended so that the weight of the fitting is not taken by the conductors.

For the attachment of very heavy fittings, the Superintending Officer will decide the method of fixing to be adopted.

On ceilings, etc., where blocks or boxes cannot be secured directly to a joist, etc. a bridging piece shall be fixed securely between the joists, for the purpose of mounting the blocks or boxes.

(c) Switch-fuses, distribution boards and meters shall be mounted on plywood boards of suitable sizes. Boards shall be free from defects and finished two coats of shellac. Fixing shall be of wood screws, coach screws or otherwise as considered necessary by the Superintending Officer.

5. CEILING FANS AND REGULATORS

(a) Each ceiling fan and regulator shall be controlled by a local switch. Regulators and control switches shall be mounted together on a suitable plywood board.

(b) Suspension hooks ('U' brackets) shall be made of mild steel of not less than 13mm diameter, finished two coats of metallic paint.

(c) Ceiling fan points shall terminate with a 3 plate ceiling rose, to allow for connection of earth wire and 3-core flexible cord.

(d) The rates for ceiling fan include 5 amp. plastic connectors.

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6. WATER COOLERS AND WASH BOILERS

(a) The wiring to a water cooler or wash boiler connectors to a DC supply, shall terminate with a switch socket outlet, surface mounted indicating type, with conduit entry or bushed for PVC cables, as applicable.

(b) The wiring to a water cooler or wash boiler connected to an AC supply, shall terminate with a 13 amp AC switch socket outlet enclosed in a metal-clad box, (conduit entry or bushed for PVC cables, as applicable) complete with lampholder, faceted ruby lens and fused plug.

7. WATER HEATERS (AC)

(a) Water heaters (single phase) shall be controlled by a double pole switch, complete with LED indicating lamp, mounted as one unit. Rated as required for the loading. Conduit or bushed entries, as applicable. The wiring between the control switch and water heater, shall be as applicable to the system of wiring PVC cables or VRI cables enclosed in conduit. Flexible cords shall not be installed.

(b) For a water heater installed in a room containing a fixed bath or showers, the control switch shall be sited in an accessible position outside and immediately adjacent to the normal access door. In addition to the control switch, a totally enclosed pilot lamp unit – shall be installed adjacent to the water heater. Conduit or gland (PVC cables), entries, as applicable.

(c) The exact position of control switches and pilot lamp units shall be as determined by the Superintending Officer.

8. STEEL CABLE TRUNKING

(a) Steel trunking shall be constructed from not less than 16 gauge mild steel of best quality.

(b) Sizes and gauges of trunking which are to Manufacturer's standard shall be approved by SISIR and embossed with SISIR mark.

(c) Steel trunking shall be painted with one coat of red oxide primer and two coats of approved paint.

(d) A continuous run of 25mm wide x 3mm thick tinned copper strip shall be installed and extended to the full length of the trunking to ensure earth continuity. Jumper links will not be accepted.

(e) Trunking shall be rigidly fixed to mild steel angle hangers spaced at adequate intervals on wall or under floor slab. A suspension unit and a thrust block shall be provided at the top and bottom of each vertical run of trunking where required.

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8. STEEL CABLE TRUNKING (Cont'd)

(f) When trunking passes through a fire wall or floor slab a barrier of consistence fire rating shall be installed to prevent the possible spread of fire. Joints and bends shall be so constructed that cables can be easily drawn through. The number of cables installed in each (45%) is not exceeded. The supply and installation of trunking shall be fully in compliance with the special requirements as listed in the latest SISIR CODE CP5.

(g) Trunkings shall be supplied in length to suit the installation and cover plates shall be supplied in short length for easy removal. Every entry to finished trunking shall be so placed as to prevent the ingress of water. Cover plates shall be securely fixed after wiring is completed.

9. CABLE TRAYS

(a) Cable trays shall be of the hot dipped galvanised and perforated type and constructed of not less than 17 swg galvanised sheet steel supported at 1m intervals by mild steel hangers fixed to walls and floors in an approved manner. The cable trays and the finished steel hangers shall be painted with two coats of primer and Electric Orange paint respectively prior to the installation.

(b) Long bends shall be used for all turnings. When cable tray passes through a fire or floor slab, a fire resisting barrier shall be installed to prevent the possible spread of fire.

(c) All working surfaces shall be cleaned, free from burrs, etc.

10. LIGHTING SWITCHES

(a) Lighting switches shall normally be rocker operated and of 10 Amp rating to BS 3676, with ivory moulded strong polycarbonate cover plates.

All switches shall be mounted at a height of 1450mm above floor finished level or as directed by the Superintending Officer. However, due consideration must be given to heights of tiling. No switches are allowed to be located at the joint or junction of wall tiling, demountable partition or different finish. Adjacent switches must be grouped in accordance with phase sequence or as directed by the Superintending Officer.

(b) Boxes for slush mounted switches shall be galvanised mild steel to BS 4662. Boxes for surface mounted switches shall be either moulded PVC or galvanised mild steel.

(c) Switches where exposed to weather or installed near the water tank rooms shall be of weatherproof type.

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11. SOCKET-OUTLETS

(a) 13 Amp. 3 pin AC polycarbonate socket outlets/combined switch socket outlets to BS 1363 complete with boxes to BS 4662 and fused plug, shall normally be installed for all AC installations.

Socket-outlets connected to a conduit wiring system shall be mounted in metalclad enclosure, for other systems (PVC or VRI cables on cleats), the enclosure shall be all insulated. Socket-outlets, other than the above type, will only be installed with the Superintending Officer's approval.

(b) Socket-outlets connected to DC installation shall be of the combined switch socket-outlet type, with QMB, switch, enclosure as applicable, complete with plug (Round Pins).

(c) Socket-outlets controlled by a switch shall normally be of the combined switch socket-outlet type. When a separate switch is installed for the control of a socket-outlet, the switch rating (Amps.) shall be equal to the maximum rating of socket-outlet.

12. LIGHT FITTINGS

All light fittings shall comply with the relevant sections of BS 4533 and include 5 Amp. High temperature rated connectors.

(a) Fluorescent Fittings

All fluorescent lighting fittings shall be complete with tubes, control gear, lamp holders and accessories suitable for operation at 230 volt, single phase, 50 cps supply and shall comply with the requirements as follows:

(i) Housings and Reflectors

The housing and reflector where required, shall be manufactured from best quality mild steel sheet or not less than 20 swg.

The housings shall completely enclose the control gears, wiring and accessories.

The entire housings and reflector where required, shall be specially treated to prevent rust and corrosion. One coat of anti-rust primer and two coats of finishing paint of best quality shall be applied.

SPECIFICATION

12. LIGHT FITTINGS (Cont'd)

(ii) Plastic Diffusers

Plastic diffusers shall be made of best quality plastic material recommended for lighting service equivalent to ICI Acrylic. They shall be of adequate thickness and strength to prevent sag under normal operation.

Unless otherwise stated all acrylic diffusers for fluorescent fittings shall be of the Carolite C12 Type or other equal and approved.

(iii) Control Gear

The method of construction of all control gear shall comply with BS 2467 as regards to the safety aspect.

1. Ballasts

All ballasts shall be of indoor, natural cooling and polyster-filled type, Class A insulation and comply with the latest British Standards.

Ballasts shall operate without audible hum or noise and each lamp shall be completed with one ballast.

2. Capacitors

All capacitors shall comply fully with BS 4017 and shall be suitable to correct power factor to not less than 0.85 lagging.

Capacitors shall be satisfactorily withstand baking in an oven at 85 degrees C for twenty-four (24) hours showing no sign of leakage or other deterioration.

3. Starters

All starters shall comply fully with BS 3772 : 1964.

The canister shall be made of high temperature matt with polypropylene and shall be electrically safe and non-corrodible. A ceramic disc type radio interference suppression capacitor shall be fitted internally to each canister. Waxed paper and foil type capacitor will not be accepted.

(iv) Fluorescent Tubes

All fluorescent tubes shall be of bi-pin type having a diameter of 26mm and a rated life of not less than 8,000 hours. The type of tube shall be selected at a later date.

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12. LIGHT FITTINGS (Cont'd)

(a) Fluorescent Fittings

(iv) Fluorescent Tubes

The lumen output of each type of tube shall be in compliance or better than the following requirements:

1	Initial Lumens	600	1200	1500
		18/20 W	36/40 W	58/80 W
	White	1150	2800	5400
	Warm White	1150	2800	5300
	Daylight	1100	2700	5100
2	Design Lumens	600	1200	1500
		18/20 W	36/40 W	58/80 W
	White	1050	2600	4900
	Warm White	1050	2600	4800
	Daylight	1000	2500	4600

3 Design Lumens

All fluorescent tubes shall comply with the relevant British Standard Specification.

(v) Wirings

All internally connected and control wiring except the main cables shall be of high temperature grade sleeving. The minimum size shall not be less than 2.5mm².

(vi) Lamp Holders

All lamp holders shall comply with BS 1875, be of robust construction suitable for mounting standard bi-pin lamps and of the rotary type.

They shall be designed to have a firm lamp support and good electrical contact. Each holder shall be provided with a spring-loaded rotor.

Lamp holders shall be securely fixed to the housing/reflector to ensure that the lamp holders will not spread with the lamp insulation.

(vii) Accessories

Terminal blocks, nickel plated spring clips, plastic sleeve and other necessary accessories which are required for the proper construction and operation of lighting fittings shall be provided.

SPECIFICATION

12. LIGHT FITTINGS (Cont'd)

(b) Incandescent Fittings

All incandescent fittings shall be complete with lamps, lamp holders, glassware and accessories.

All general lighting service lamps shall be manufactured to BS 161 : 1968.

Unless otherwise specified, all lamps shall be suitable for operation at 240V. All lamps below 100W shall be of BC cap and above shall be of ES or GES cap.

All incandescent lamps shall be equivalent to OSRAM and have a working life of not less than 1,000 hours.

(c) Testing

All light fittings shall be tested on completion of the installation for not less than three hours.

13. **EARTHING**

(a) **Earthing, as required for the installation, shall be in accordance with the applicable section of IEE Regulations.**

(b) **Earthing leads may be connected to metal water pipes or metal rods (driven in the ground), as ordered by the Superintending Officer.**

Where a water meter is incorporated in a water service, a suitable bond shall be provided across the meter.

Clamps used for connections to water pipes (not exceeding 95mm diameter) shall comply with BS 951.

Connections shall be painted with two coats of bitumastic paint, after inspection by the Superintending Officer.

(c) **Earth wires shall be tinned stranded copper, with the following exception, minimum size of wires shall be 2.5mm².**

The earth-continuity conductor within the room containing a fixed bath or shower shall be a minimum size of 4mm².

Earth wires shall be secured by non-ferrous staples or clips, as applicable. Staples or clips shall be spaced at intervals not exceeding 380mm and within 100mm of each connection or right angled bend.

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14. **TESTING**

(a) **General**

All tests shall be made in the presence of and to the satisfaction of the Superintending Officer. The Contractor shall supply all necessary labour, apparatus and instruments necessary for the prescribed tests. The Superintending Officer shall be at liberty to use for testing, any instruments or testing apparatus that he may consider necessary to carry out the prescribed tests.

(b) **Internal Electric Lighting And Power Installations**

The following tests shall be carried out on each installation, as applicable and the results recorded in duplicate, which shall be signed by both the Contractor and the Superintending Officer.

- (i) Insulation resistance test to earth of the complete installation.
- (ii) Insulation resistance test between conductors of the complete installation.
- (iii) Continuity test of all 'Ring Circuit' conductors.
- (iv) Polarity test of single-pole switches and connections to socket-outlets.
- (v) Earth continuity and earth fault loop tests of the installation, including earthing clamps.

(vi) Resistance test of earth electrodes.

(vii) Full load tests of lighting and power circuits.

(c) **Electric Bell And Alarm Installation**

Ringling and indicator tests on bell and alarm circuits.

(d) **Overhead LT Distribution Systems**

Completed installations shall be tested in accordance with the tests prescribed by the Electricity Authority and such other tests as may be required by the Superintending Officer, before being connected to the supply.

(e) **Lightning Protective Systems**

When the installation of Lightning Protective Systems has been completed, to the entire satisfaction of the Superintending Officer, the Contractor shall carry out the following tests in the presence of the Superintending Officer

SPECIFICATION

14. TESTING (Cont'd)

(f) Lightning Protective Systems

With all test points disconnected from earth terminations, carry out continuity resistance tests between all test points, using a continuous current of 10 Amps.

With all test points disconnected, carry out earth resistance tests of each earth electrode. Where earth electrodes are bounded together they shall be classified and tested as one earth termination. Earth resistance tests shall be carried out in conformity with BS Code of Practice 326 : 1965 using a hand generating AC earth tester. Before the installation is finally handed/taken over, and after the above mentioned tests have been satisfactorily performed, the Contractor shall prepare and hand to the Superintending Officer a certified statement, in duplicate, showing full details and results of tests carried out.

15. BUILDERS WORKS

(a) Installation shall be deemed to include all cutting away, plugging and making good of walls, ceilings and other structural features where necessary.

(b) This work shall be of the smallest amount possible consistent with requirements and when installation is completed shall match existing surroundings and be a inconspicuous as possible.

16. PVC INSULATED AND SHEATHED WIRING SYSTEMS (SURFACE MOUNTED)

(a) General

The system of wiring shall consist of single core PVC insulated and sheathed cables, fixed in conduits or PVC trunking (high UV resistance).

The 'loop-in' method of wiring shall be employed, but approved type spur (Ring Circuit) or junction boxes may be used where specifically authorised.

Normally the cables shall be carried in conduits fixed to the surface of walls and ceilings, but where conditions permit and with the Superintending Officer's approval, cables may be fixed with battens on galvanised steel saddles and brass screws to the timber structure of a building.

(b) Cables

All cables shall be Polyvinyl Chloride Insulated and Sheathed complying with BS 6004.

SPECIFICATION

16. PVC INSULATED AND SHEATHED WIRING SYSTEMS (SURFACE MOUNTED) (Cont'd)

(b) Cables (Cont'd)

Single strand conductors will not be permitted.

The minimum size of conductors shall be 1.5mm² and the minimum size of sub-mains, 2.5mm².

(c) Battens

Battens shall be wrought on face and both edges, the width and thickness will depend on the size and number of cables to be mounted, as follows:

(i) Battens up to 150mm wide carrying single core cables up to 4mm² shall be 10mm thick.

- (ii) Battens up to 150mm wide carrying single core cables over 4mm² but under 16mm², shall be 13mm thick.
- (iii) All battens carrying single core cables 16mm² or over shall be 19mm thick.
- (iv) Battens shall be of sufficient width to allow screws securing saddles to be fixed without splitting the batten edges.
- (v) Battens secured to steel joists, beams or stanchions shall preferably be the full width of the joist, etc.

(d) Fixing Battens

- (i) Battens shall be fixed to walls, ceilings, etc. by means of 38mm No. 10 countersunk brass screws, spaced at 610mm intervals. Battens over 150mm wide, two 38mm No. 10 countersunk brass screws shall be fixed in line across the width of the batten at 610mm intervals. Approved type fibre plugs, securely fixed, shall be used for fixing battens to concrete or brickwork.
- (ii) Battens fixed to steel work, steel joists, beams or stanchions shall be secured to the steel work by approved means.

SPECIFICATION

16. PVC INSULATED AND SHEATHED WIRING SYSTEMS (SURFACE MOUNTED) (Cont'd)

(e) Fixing Cables

Cables shall be fixed to battens or timber structure, by means of galvanised steel saddles secured with brass screws.

(i) Saddles shall be spaced as follows:

Nominal Cross Sectional Area Of Conductor	Standard No. & Dia. (Ins.) of Wire Forming Conductor	Max. Spacing Of Saddles	
		Hor. Runs	Vert. Runs
		mm	mm
1.5mm ²	1/1.38	230	380
2.5mm ²	1/1.78	230	380
4mm ²	7/0.85	230	380
6mm ²	7/1.04	305	380
10mm ²	7/1.35	305	380
16mm ²	7/1.70	380	455
25mm ²	7/2.14	380	455
35mm ²	19/1.53	380	535
50mm ²	19/1.78	455	535
70mm ²	19/2.14	455	535
95mm ²	19/2.52	455	535
120mm ²	37/2.03	455	535
150mm ²	37/2.52	455	535
185mm ²	37/2.52	455	535
240mm ²	61/2.25	455	535

A saddle shall be fixed within 76mm on either side of fittings, accessories or right angled bends.

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16. PVC INSULATED AND SHEATHED WIRING SYSTEMS (SURFACE MOUNTED) (Cont'd)

(e) Fixing Cables

(ii) The maximum number of cables which may be fixed under one saddle is as follows:

1.5mm² and up to 4mm² - 8 number

6mm² and up to 25mm² - 4 number

35mm² and over - 2 number

(f) Erection

No diagonal routes will be permitted and only such runs as may be required to feed a point may be taken across ceilings.

Cables shall not be run as a span between beams or trusses etc. unless fixed to a timber batten.

Cables carried along or across steel joists, beams or stanchions shall be secured to a timber batten.

Where there is a change of direction likely to cause excessive pressure on any part of the cable, the cable shall be brought over a rounded support of a radius not less than six times the overall diameter of the cable.

(g) Cable Protection

(i) Cables exposed to a risk of mechanical damage or installed less than 1.83 metre above floor level, shall be protected by heavy gauge welded screwed galvanised steel conduit. All cables installed in Workshops shall be protected by similar conduit to a height of 2.4 metre from floor level. Conduit ends shall be bushed with brass bushes.

(ii) Where cables pass through a floor, wall, partition or ceiling, they shall be protected by bushed conduit and the hole made good with cement or other incombustible material, as applicable.

(iii) Where cables are laid in concrete or similar flooring they shall be protected by welded screwed galvanised steel conduit and boxes to BS 31 galvanised or enamelled, as ordered.

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17. CONDUIT SYSTEMS OF WIRING

NOTES:

This clause does not include Flameproof and Dust-proof installations.

(a) General

The system of wiring shall consist of single core PVC or VRI cables in screwed galvanised steel conduit, of not less than 19mm diameter, chased or surface mounted as required.

The 'loop-in' method of wiring shall be employed, but approved type spur (Ring Circuit) or junction boxes may be used where specifically authorised.

(b) Cables

All cables shall be single core VR taped, braided and compounded, complying with BS No. 7 or PVC insulated and sheathed complying with BS 6004.

Single strand conductors will not be permitted. The minimum size of conductors shall be 1.5mm² and the minimum size of sub-mains, 10mm².

(c) Conduit And Conduit Fittings

(i) All galvanised screwed conduit and conduit fittings shall comply with BS 31. Conduits shall be Class 'B' heavy gauge screwed welded.

(ii) Flexible metal conduits shall comply with BS 731 Part 1 and shall be used from the lighting boxes to the lighting fittings.

(iii) Standard conduit boxes and covers shall be of galvanised steel, draw-in boxes tapped 32mm and above shall be oblong. Covers shall be secured by brass screws.

(iv) Multiple way conduit or switch boxes, instead of a series of single boxes shall be utilized at positions where more than one accessory is mounted.

(v) Solid elbows or tees will not be permitted.

(vi) Spacer-bar saddle plates shall be 3mm thick for conduits up to 38mm diameter and 5mm thick for larger sizes of conduit. Saddle tops shall be secured by brass screws.

(vii) All conduit, fittings and accessories shall be galvanised. Conduit boxes shall have machine faced joints between the box fitting or cover.

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17. CONDUIT SYSTEMS OF WIRING (Cont'd)

(d) Erection

(i) All conduit, fittings and accessories shall be erected before cables are drawn in. The maximum number of cables allowed in the conduits shall be in accordance with IEE Regulations.

(ii) Conduits shall be run horizontally or vertically. Diagonal runs will not be permitted and particular attention shall be given to 'sets' which shall fit as close to the walls, etc. as possible.

(iii) Conduit systems shall be erected as far as possible to avoid areas where water may accumulate from condensation.

Systems not intended to be gas tight shall be self-ventilating, and drainage outlets shall be provided at any points in the installation where condensed moisture might otherwise collect.

(iv) Surface mounted conduit shall be secured by spacer-bar saddles, except where conduit is installed on steel work.

Spacer-bar saddles shall be fixed at 1.2metre intervals, with a saddle within 100mm of a fitting or accessory, and secured by brass screws, minimum length 2.5mm. Suitable metal clips, fixed at 1.2metre intervals with a clip within 100mm of a fitting or accessory shall be provided for fixing conduit to steelwork.

(v) All joints shall be such as to ensure perfect continuity and where running joints are necessary, locknuts shall be utilized.

Screwed connections shall be metal to metal. Exposed threads, and in places where galvanizing or enamelling has been damaged, shall be thoroughly cleaned and then painted with two coats of anti-corrosive paint. This treatment shall be applied as the work is proceeding.

(vi) Conduit boxes with locknuts, shall be provided at suitable places to allow for subsequent extension without undue dismantling of the system.

Conduit boxes shall be spaced so that there is not more than 9.14 metre straight run between them.

(vii) Connection between conduit and screwed metal boxes not provided with entry spouts, shall have a PVC bush or a brass external bush fitted inside the box secured by an external locknut.

SPECIFICATION

17. CONDUIT SYSTEMS OF WIRING (Cont'd)

(d) Erection

Alternatively, the connections shall have a PVC bush or a brass hexagon smooth bore bush fitted inside the box, connected through a coupler to the conduit. Connection between conduit and boxes with clearance holes, will, in addition, be fitted with a brass or plastic compression washer between the box and coupler or locknut.

(viii) Where conduit passes through a wall, floor, partition or ceiling, the hole shall be made good with cement or similar incombustible material to the full thickness of the wall, floor, partition or ceiling. Space through which a fire might spread shall not be left.

(ix) Exposed conduits shall have the threads coated with two coats of aluminium paint.

(e) Concealed Conduit

Conduit shall be chased in walls, floors, etc. to such a depth that there is a minimum of 10mm cover and shall be secured by means of pipe hooks fixed at 1.22metre intervals, with a pipe hook within 100mm of each fitting or accessory.

The covers of all boxes sunk in walls ceilings, etc., shall fit flush with the finished surface.

Plates of flush type switches and socket-outlets shall overlap the edges of the sunk box and fit flush with the wall surface at all points.

All threads shall be coated with an approved compound before fixing and all joints shall be painted with one coat of anti-rust paint after jointing.

(f) Bonding And Earthing

All conduit systems shall be electrically continuous throughout the installation. The maximum conductivity resistance of the conduit, together with the earthing lead, shall not exceed 1 ohm.

18. FLAMEPROOF AND DUST-PROOF INSTALLATIONS

(a) Types Of Installations

(i) Building containing explosives are divided into two types in regard to electrical installations, viz:

Those requiring a flameproof installation.

SPECIFICATION

18. FLAMEPROOF AND DUST-PROOF INSTALLATIONS

(a) Types Of Installations

Those requiring a dust-proof installation.

(ii) Flameproof installation shall be installed in all buildings containing explosives, the manufacture or storage of which may involve the presence of inflammable liquids or gases.

(iii) Flameproof equipment shall comply fully with the requirements of the Superintending Officer and the Local Authorities and when applicable, BS 889.

(iv) Flameproof installations shall conform to BS Code of Practice 1003 – Installation and Maintenance of Flameproof and Intrinsically-safe Electrical Equipment, for industries other than coal mining.

(v) Dust-proof installation shall be installed in all buildings containing explosives not requiring a flameproof installation.

(b) Danger Buildings

(i) No electrical conductors or apparatus shall be permitted within any building in which explosive dust is liable to evolve, or nitroglycerine to be condensed, such as corning-houses, gun-cotton and cordite stores, and no apparatus shall be placed within a dusty area external to any such building unless precautions can be taken to prevent deposit of dust on the apparatus.

(ii) Subject to clause (i) lighting fittings may be placed in a danger building provided they are of the appropriate type complying with this Specification. Switches and fuses may be placed within a suitable entrance porch or in a room where no explosive or inflammable material is permitted and where no explosive vapour has access. Where no such position is available they must be placed outside and adequately protected from the weather.

(c) Supply

In a danger area the pressure of the system of supply shall be such that the pressure to earth does not exceed 250 volts. In the cases of 3-wire DC and 3-phase 4-wire AC systems, when the neutral conductor is not earthed, the pressure shall not exceed 250

volts and an earth leakage indicating device shall be provided

SPECIFICATION

18. FLAMEPROOF AND DUST-PROOF INSTALLATIONS (Cont'd)

(d) Distribution

(i) The supply of electricity to a building containing explosive shall be controlled by a master switch out-side the building and this switch shall be capable of isolating every conductor entering the building.

(ii) All circuits and sub-circuits shall be adequately protected against the effect of excess current or earth leakage current. In danger areas and danger buildings, earth leakage protection shall be provided where, by such provision appreciable reduction in fault setting can be secured.

(iii) No underground main or cable for any purpose other than a service cable shall be laid within 3metre of any danger building.

(iv) Service connections to danger buildings shall be by cables protected by armour or iron pipes except where special conditions such as chemical contamination of the soil is likely to lead to corrosion. In these cases cables shall be protected adequately to the satisfaction of the Superintending Officer by an approved means.

(v) The armouring or piping shall be efficiently earthed. In the case of pipes containing non-armoured cables, precautions shall be taken against access of moisture. Cable in which bitumen is used as insulating material shall not be used.

(e) Fittings

(i) All lighting fittings shall be so proportioned that when lamps are burning continuously the temperature of any external part shall not exceed 85 degrees Celcius.

(ii) All lighting fittings shall be securely screwed to the metal conduit, and firmly attached to the wall or other supports. Flexible pendant fittings shall not be permitted.

(f) Conduit System Of Wiring For Flameproof And Dust-Tight Installations

(i) All wiring shall be run on the surface of walls, etc. and sited so as to reduce to a minimum risk of accidental damage.

(ii) Wiring shall be in VR taped, braided and compounded cables, complying with BS No. 7 or PVC insulated and sheathed cables complying with BS 6004 enclosed in conduit, except in places where heavy condensation occurs or the fixing of conduits is impracticable.

SPECIFICATION

18. FLAMEPROOF AND DUST-PROOF INSTALLATIONS (Cont'd)

(f) Conduit System Of Wiring For Flameproof And Dust-Tight Installations

(iii) When specifically approved fire-rated mineral-insulated copper-sheathed cables, (MICS) complying with BS 6207 Part 1 shall be used where conduit is impracticable, for the reasons given in (b) above.

(iv) Conduit and conduit fittings shall be as described in Clause 17 (c).

(v) Where conduits pass from a danger area to a safe area, a flameproof type sealing box or barrier shall be inserted where the conduit enters the safe area.

(vi) The joint between cover and box shall be machined flat and smooth and shall not be less than 5mm width. Fixing screws shall be external to the joint surface.

(vii) Drainage holes in conduit shall be closed by iron plugs, which shall be galvanised and made captive by a chain secured to the conduit. The joint between plug and conduit shall be flat and smooth and smeared with a high melting-point grease to prevent rust and ensure 'dust-tightness'.

(x) Conduit shall be screwed into conduit boxes and in the gland boxes of all other enclosures, against a shoulder provided for the purpose, and the conduit end shall be faced to ensure a tight metal joint. A machine-faced locking nut shall be provided on coupler and running joints.

19. BELL AND ALARM WIRING SYSTEMS

(a) General

(i) Any bell wiring connected directly (e.g. without the intervention of a double wound transformer or double wound converter) to an electricity supply system shall be installed in accordance with IEE Regulations as applicable to Electric Lighting and Power Installations, herein specified.

(ii) Low voltage bell and alarm circuits shall be isolated electrically from the electricity supply by means of a double wound transformer or a converter, and shall not normally be subject to a pressure exceeding 15 volts.

(iii) Where electric bell and/or similar alarm apparatus are connected to the electricity supply system by means of a transformer or converter, the primary wiring shall be installed in accordance with IEE Regulations as applicable to Electric Lighting and Power Installations, herein specified.

SPECIFICATION

19. BELL AND ALARM WIRING SYSTEMS (Cont'd)

(b) Low Voltage Bell And Alarm Wiring Systems

Wiring shall be installed using single core PVC insulated cables minimum size 1.5mm². Wires shall be secured with PVC or fibre insulated staples.

The 'loop-in' method of wiring shall be used throughout.

(c) Erection

(i) Staples shall be spaced at intervals not exceeding 305mm and shall be fixed so as to avoid damage to the insulation of the bell wires. Bell wiring secured by staples shall be strained hand tight and fixed without sag.

(ii) Where bell wires pass through walls, floors or ceilings or are exposed to mechanical injury, they shall be protected by means of screwed steel conduit, as described, suitably bushed.

(iii) Joints in bell wires shall normally be soldered, but approved pattern junction boxes may be used with the approval of the Superintending Officer.

(d) Sitting Of Transformers, Batteries, Bells, Indicators

Transformers, batteries, bells and indicators shall be sited where they are not exposed to water, oil, steam or vapour, or to risk of mechanical damage.

(e) Mounting Of Fittings And Accessories

Ordinary bell fittings and accessories shall be mounted directly to concrete wall to approved design and finish.

20. LIGHTNING PROTECTIVE SYSTEMS (COPPER)

(a) General

All work and materials shall conform with British Standard Code of Practice CP BS 6651 : 2006 edition or later.

(b) Roof Conductors

Shall be held in position at 1.0 metre intervals by using suitable tape clip or gunmetal material. Conductors shall be fixed external to the existing buildings and internal for new buildings

SPECIFICATION

20. LIGHTNING PROTECTIVE SYSTEMS (COPPER) (Cont'd)

(c) Down Conductors

Shall be held in position according to BS 6651 : 2006 by the applicable type of gunmetal tape clip. All conductors shall be fixed external to the building and follow the most direct path between the air and earth terminations.

There shall be no up-turn in the down conductors and bends shall be of the largest radius possible.

(d) Test Points

Gunmetal test clamps shall be fitted to all down conductors at a point 0.91 metre above ground level, tapes shall be lapped 13mm over full width of clamp. A high UV resistance I.P.55 enclosure to 'Legrand' type shall be used.

(e) Earth Terminations

The type and number of earth electrodes to be installed shall be to the latest standard and as stated on the order. Electrodes connected in parallel should be capable of isolation for test purposes. The resistance to earth of any earth termination shall not exceed 10 ohms.

(f) Fixings

Where necessary it is preferable that, gunmetal tape clips (with strap) and gunmetal ridge saddles, are fixed to ridge tiles prior to the tile being set in position.

(g) Bonding Of Metal Work

All metal work of considerable mass, situated within 305mm per ohm. of resistance to earth of the Lightning Protective System, shall be bonded together and connected to a down conductor of the system. The term 'metal work' embraces electric and water services, reinforcement fabric, metal sheets, windows, shutters, grills and similar items.

(h) Inflammable Roofs

Systems installed for the protection of structures with inflammable roofs shall comply with BS 6651 : 2006.

SPECIFICATION

LIGHTING AND POWER

LIGHTING WIRING POINTS

The rates indicated for lighting and power points include providing and fixing everything necessary for the proper execution of the work as described, and that may be required for the complete wiring from the point of supply, but exclude providing and fixing of ceiling roses, flexible cord, lighting fittings, lamp holders and shades, PVC trunking, steel tray and trunking, lamps, switches and socket outlets. The rates include for the provision of boxes for the mounting of lighting fittings and switches, except where the switch is supplied in a complete unit having its own box.

Where cables larger than 1.5mm² PVC (7/0.53) are ordered to be used, the actual difference in the Schedule of Rates for the two descriptions of cable per metre run as “materials supply only” will be allowed in addition to the rate for normal point wiring.

The rates included hereafter are for all things necessary for a complete wiring system from point of supply to light, switch or socket outlet.

The rates for conduit include the provision of all malleable iron conduit boxes and lids, all saddles and pipe hooks, all plugging and screwing and fixing complete and all bending, screwing and setting of conduit.

The rates exclude the fixing of light, switch and socket outlets and associated mild steel boxes but include the provision and fixing of malleable iron lighting outlet points.

LIGHTING AND POWER

LIGHTING WIRING POINTS

SURFACE AND CONCEALED CON

Supply and Fix

\$

WIRING WITH 1.5MM² PVC CABLE (7/0.53) FOR LIGHTING POINT COMPLETE WITH EARTH CABLE PER NUMBER

N1	One lighting point controlled by one switch	35.00
N2	Each additional lighting point to above item	20.00
N3	One lighting point controlled by two two-ways switches	40.00
N4	Each additional lighting point to above item	30.00
N5	Exhaust fan or wall fan point using 1.5mm ² PVC cable (7/0.53)	35.00
N6	Ceiling fan point using 1.5mm ² PVC cable (7/0.53)	35.00

**POWER WIRING POINTS COMPLETE WITH
EARTH CABLE
PER NUMBER**

N7	13A General purpose power point using 2.5mm2 PVC cables (7/0.67/5m)	90.00
N8	15/20A General purpose power point or air-con point using 4.0mm2 PVC cables (7/0.85/5m)	190.00
N9	13A General purpose power point in ring circuit using 2.5mm2 PVC cable (7/0.675m)	110.00
N10	Cooker point using 6mm2 PVC cable in radial circuit (7/1.04/5m)	190.00

**LIGHTING AND POWER
LIGHTING WIRING POINTS**

SURFACE AND CONCEALED
CONDUIT

Supply and Fix

\$

**POWER WIRING POINTS COMPLETE
WITH EARTH CABLE
PER NUMBER**

N11	Water heater or cooler point using 2 x 4mm2 PVC cables (7/0.85/5m)	180.00
N12	Water heater or cooler point using 2 x 6mm2 PVC cable (7/1.04/5m)	280.00
N13	15A three phase power point using 4 x 4mm2 PVC cables (7/0.85/5m)	400.00
N14	30A three phase power point using 4 x 6mm2 PVC cables (7/1.04/5m)	550.00

SURFACE RUN WITH PVC CASING

Supply and Fix

\$

**WIRING WITH 1.5MM2 PVC CABLE
(7/0.53) FOR LIGHTING POINT
COMPLETE WITH EARTH CABLE
PER NUMBER**

N15	One lighting point controlled by one switch	40.00
N16	Each additional lighting point to above item	35.00
N17	One lighting point controlled by two two- ways switches	55.00
N18	Each additional lighting point to above item	25.00

LIGHTING AND POWER
LIGHTING WIRING POINTS

SURFACE RUN WITH PVC CASING

Supply and Fix

\$

WIRING WITH 1.5MM2 PVC CABLE
(7/0.53) FOR LIGHTING POINT
COMPLETE WITH EARTH CABLE
PER NUMBER

N19	Exhaust fan or wall fan point using 1.5mm2 PVC cable	45.00
N20	Ceiling fan point using 1.5mm2 PVC cable	45.00

POWER WIRING POINTS COMPLETE
WITH EARTH CABLE
PER NUMBER

N21	13A General purpose power point using 2.5mm2 PVC cables (7/0.67/5m)	120.00
N22	15/20A General purpose power point or air- con point using 4.0mm2 PVC cables (7/0.85/5m)	290.00
N23	13A General purpose power point in ring circuit using 2.5mm2 PVC cable (7/0.67/5m)	190.00
N24	Cooker point using 6mm2 PVC cable in radial circuit (7/1.04/5m)	500.00
N25	Water heater or cooler point using 4mm2 PVC cable (7/0.85/5m)	290.00
N26	Water heater or cooler point using 6mm2 PVC cable (7/1.04/5m)	500.00
N27	15A three phase power point using 4 x 4mm2 PVC cables (7/0.85/5m)	500.00

N28	30A three phase power point using 4 x 6mm2 PVC cables (7/1.04/5m)	650.00
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LIGHTING AND POWER
EACH POINT

SURFACE RUN

Supply and Fix

\$

WIRING WITH 1.5MM2 PVC CABLE
(7/0.53) FOR LIGHTING POINT
COMPLETE WITH EARTH CABLE
PER NUMBER

N29	One lighting point controlled by one switch	65.00
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N30	Each additional lighting point to above item	40.00
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N31	One lighting point controlled by two two- ways switches	75.00
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N32	Each additional lighting point to above item	45.00
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N33	Exhaust fan or wall fan point using 1.5mm2 PVC cable (3/.029)	80.00
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N34	Ceiling fan point using 1.5mm2 PVC cable (3/.029)	80.00
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POWER WIRING POINTS COMPLETE
WITH EARTH CABLE

PER NUMBER

N35	13A General purpose power point using 2.5mm2 PVC cables (7/0.67/5m)	120.00
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N36	15/20A General purpose power point or air- con point using 4.0mm2 PVC cables (7/0.85/5m)	290.00
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N37	13A General purpose power point in ring circuit using 2.5mm2 PVC cable (7/0.67/5m)	190.00
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N38	45A Cooker point using 6mm2 PVC cable in radial circuit (7/1.04/5m)	800.00
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LIGHTING AND POWER
EACH POINT

SURFACE RUN

Supply and Fix

\$

POWER WIRING POINTS COMPLETE
WITH EARTH CABLE
PER NUMBER

N39	Water heater or cooler point using 2 x 4mm ² PVC cable (7/0.85/5m)	500.00
N40	Water heater or cooler point using 2 x 6mm ² PVC cables (7/1.04/5m)	600.00
N41	15A three phase power point using 4 x 4mm ² PVC cables (7/0.85/5m)	500.00
N42	30A three phase power point using 4 x 6mm ² PVC cables (7/1.04/5m)	650.00

LIGHTING AND POWER
EACH POINT

Concealed Conduit	Surface Run Conduit	Surface Run With PVC Casing	Surface Run With Wood Batten	Surface Run
\$	\$	\$	\$	\$

LIGHTING, FAN AND
POWER POINTS
PER NUMBER

N43	Take down and remove to store, wiring and all accessories only and that may be required for the complete removal of wiring from the point of supply including making good surface of walls, ceilings, etc.	18.00	18.00	17.50	17.50	15.00
N44	Take down and remove to store for additional lighting point controlled by one or two switches	14.00	14.00	13.50	13.50	12.00

Supply
and Fix

ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES

PER NUMBER

Fixed complete, including making all necessary connection, either in new work or in repairs. The rates for 'supply and fix' or 'fixing only' include any necessary plugging to brick, stone or concrete walls, ceilings & etc. Fixing in repairs include taking down any existing fittings and removing to store, as may as directed. Flexible cords and VR cables shall be 250 volt grade to the applicable BS

PENDANTS

N346	Plain, comprising ceiling rose, plastic lampholder, BC, SC, CG 0.92 metre of twin 0.5mm ² TRS or PVC insulated flexible cord and 230mm translucent white plastic shade, coolican pattern or equal	15.00
N347	Ditto but 280mm shade	18.00
N348	Ditto but without ceiling rose	13.00
N349	Ceiling mounted coolican shade fitting complete with bulb shade and holder	15.00
N350	Philips 'Corona PL524/09' single pendant light fitting including all accessories or other equal and approved type	120.00

ELECTRICAL LIGHT FITTINGS AND ACCESSORIES

Supply
and Fix

\$

PER NUMBER

PENDANTS

N351	Philips 'Corona PL403/08' double pendant light fitting including all accessories or other equal and approved type	160.00
N352	Philips 'Corona PL316/08' triple pendant ditto	200.00

FITTINGS

PER NUMBER

N353	'Crabtree' combined fluorescent light fitting complete with tube and plastic diffuser and shaver socket outlet for 110V	75.30
N354	'Legrand' combined fluorescent light fitting complete with 60w tube and plastic diffuser and shaver socket outlet for 230V/110V (isolating transformer)	80.00
N355	'Disano' PAR 38 type mini floodlight fitting complete with bulb	75.00
N356	'LEB/PL' PAR 38 type mini floodlight fitting complete with bulb	48.00
N357	'Disano' PAR 38 type spotlight fitting complete with bulb	75.00
N358	'LEB/PL' PAR 38 type spotlight fitting complete with bulb	48.00
N359	Ditto but in 3-row type including track, holder and other fixing accessories	160.00
N360	'Eglo' Wall light fittings complete with 1 x 40 W E14 bulb as per cat no. ELEKTRA 1 4-85348	132.00
N361	'Eglo' Frosted Nickel semi-circular Wall light fittings complete with 1 x 60 W E27 bulb as per cat no. PLANET 1 2-83163	36.00

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

Supply and Fix

\$

**FITTINGS
PER NUMBER**

N362	'Eglo' Wall light fittings complete with 1 x 60 W E14 bulb as per cat no. TROY 1 3-83204	63.60
N363	'Eglo' Wall light fittings complete with 1 x 60 W E14 bulb as per cat no. EMOTION 1 3-83324	73.20
N364	'Eglo' Wall light fittings complete with 2 x 60 W E27 bulb as per cat no. EOS + SIRIO 4-82691	85.20
N365	'Eglo' Wall light fittings complete with 1 x 100 W E27 bulb as per cat no. GRAFIK 2-83134	43.20

N366 'Eglo' Wall light fittings complete with 1 x 100 W R7s bulb as per cat no. NIKITA 3-86996	82.40
N367 'Eglo' Wall light fittings complete with 1 x 100 W E27 bulb as per cat no. ZEMO 5-86861	88.80
N368 'Eglo' Wall light fittings complete with 1 x 100 W E27 bulb as per cat no. RIP 1 4-86698	106.80
N369 'Eglo' Wall light fittings complete with 1 x 100 W E27 bulb as per cat no. RIP 4-86685	109.20
N370 'Eglo' Double wall light fitting complete with 2 x 60 W E14 bulbs as per cat no. BARI 2-80284	80.40
N371 'Eglo' Double wall light fitting complete with 2 x 40 W G9 bulbs as per cat no. ASCOT 5-83723	122.00

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

Supply and Fix

\$

**FITTINGS
PER NUMBER**

N372 'Eglo' wall light fitting complete with 3 x 40 W E14 bulbs as per cat no. GRAFIK+MONO 5-85339	93.20
N373 'Eglo' hanging light fitting complete with 1 x 60 W E27 bulbs as per cat no. EMOTION 1- 83318	80.00
N374 'Eglo' hanging light fitting complete with 1 x 60 W E27 bulbs as per cat no. RIP 1 1- 86695	82.40
N375 'Eglo' hanging light fitting complete with 1 x 60 W E27 bulbs as per cat no. RIP 1-86682	101.60
N376 'Eglo' hanging light fitting complete with 1 x 100 W E27 bulbs as per cat no. TROY 1 1-83202	77.60
N377 'Eglo' hanging light fitting complete with 1 x 100 W E27 bulbs as per cat no. RONDO 3- 85263	130.40
N378 'Eglo' hanging light fitting complete with 5 x 40 W G9 bulbs as per cat no. ASCOT 1- 83719 (1100mm height)	294.40
N379 'Eglo' hanging light fitting complete with 5 x 40 W G9 bulbs as per cat no. ASCOT 3-	

2 x 60 W E27 bulbs as per cat no. ASCOT 5-83718 (290mm height)	320.80
N380 'Eglo' Ceiling mounted 370mm diameter round glass light fittings complete with 2 x 60 W E27 bulbs as per cat no. PLANET 1-82941	62.40
N381 'Davis' Ceiling mounted round glass light fittings complete with 1 x 32 W round fluorescent tube	66.00
N382 'LEB' 2 x 58 W Rod suspended fluorescent fittings complete with metal reflector similar to LTK 258 but complete with twin 58 W tube or approved equivalent	60.00

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

Supply and Fix

\$

FITTINGS

PER NUMBER

N383 Ditto but 1 x 65 W (LEB LTK 158)	40.00
N384 'Goodlite' 2 x 65 W Rod suspended fluorescent fittings complete with metal reflector and twin 65 W tube or approved equivalent	60.00
N385 Ditto but 1 x 65 W	38.00
N386 'Crabtree' 60 W ceiling mounted globe incandescent fittings similar to TL1003 or approved equivalent	24.00
N387 'LEB' 200mm diameter ceiling mounted globe incandescent fittings complete with 11 W energy saving 10,000hrs life bulb	30.00
N388 'Crabtree' 60 W angled globe incandescent fittings similar to TL1002 or approved equivalent	28.00
N389 'LED' 1200mm incandescent lamp fittings	60.00
N390 Ditto but 590mm fitting	55.00
N391 'LED' 2x1200mm incandescent twin lamp fittings	66.00
N392 Ditto but 2x590mm fitting	58.00

PER LINEAR METRE

N393	'Neo-Neon' Decorative 13mm houselights in various colour to model DL- 2 W - 240V	7.00
<u>ELECTRICAL LIGHT FITTINGS AND ACCESSORIES</u>		Supply and Fix
		\$
<u>DECORATIVE HOSE - LIGHT FITTINGS</u>		
<u>PER LINEAR METRE</u>		
N394	'Neo-Neon' Decorative 13mm houselights in various colour to model DL-3 W - 240V	8.00
<u>PER NUMBER</u>		
N395	Running light controller LY-501	160.00
<u>SET</u>		
N396	'Neo-Neon' Starry Lights 60 pcs LED lamp type serial light in various colour to model PL- 60-6m-240V	40.00
<u>OBSTRUCTION LIGHT FITTINGS</u>		
<u>PER NUMBER</u>		
N397	'OBSTA' H.I.ST.I.M beacon Obstruction light complete with cylindrical assembly and 13 turn discharge lamp of 100,000 hours typical life time	1,800.00
N398	Y shaped mounting tube suitable for the above in twin mounting type complete with relay in waterproof UV box	3,900.00
N399	'Honeywell' 2 x 3 W high power LED beacon obstruction light 230V AC complete with with assembly	1,130.00
N400	'Furse' Surge protector for 'Honeywell' LED obstruction light (suitable for 230V 5A) complete with weather-proof enclosure & accessories	550.00
		Supply and Fix

**OUTDOOR – STREET /
COMPOUND / GARDEN LIGHT
FITTINGS
PER NUMBER**

\$

N401 'Fael Luce' 400 W street light fitting complete with 400w MBF lamp	550.00
N402 'SYLVANIA' or 'GE' 400 W SON-T street light fitting complete with 400 W MBF lamp as per cat no. M2AR400	550.00
N403 'Disano' 400mm diameter opal globe post top lantern type compound light fitting complete with gear & lamp etc.	365.00
N404 Ditto but 500mm diameter	415.00
N405 'LEB / PL' 400mm diameter opal globe post top lantern type compound light fitting complete with E27/E40 base etc.	350.00
N406 Ditto but 500mm diameter .	450.00
N407 'Eglo' outdoor light fitting complete with 1 x 100 W E27 bulbs all as per cat no. AMSTERDAM 2-86092	126.40
N408 'Eglo' outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. SAIL 1-83424 or 1-83427	113.20
N409 'Eglo' outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. SAIL 2-83426 or 2-83431	151.60
N410 'Eglo' outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. MALMO + HELSINKI 1-81824	125.20
N411 'Eglo' outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. MALMO + HELSINKI 3-81826	172.00
N412 'Eglo' outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. MALMO + HELSINKI 5-81752	128.80

Supply
and Fix

OUTDOOR / GARDEN LIGHT FITTINGS

\$

PER NUMBER

N413	‘Eglo’ outdoor light fitting complete with PL 15 W E27 bulbs all as per cat no. MALMO + HELSINKI 6-81753	74.80
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EMERGENCY LIGHT FITTINGS

PER NUMBER

N414	‘SAMCOM’ hybrid circuit emergency light fitting self-maintained standard type complete with battery and tube	85.00
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N415	Rechargeable battery for emergency lights 6v 4.5 AH	22.00
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N416	Rechargeable battery for emergency lights but 6v 7.0 AH	35.00
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N417	‘Hitachi’ or ‘Toshiba’ 8 – 16 W Emergency light tube	5.00
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N418	UFO/NM/110 1 x 10 W halogen sealed lead calcium round emergency light fitting	183.50
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N419	UFO/NM/110NC 1 x 10 W LED sealed lead calcium round emergency light	
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fitting		280.00
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N420	Recess plate ‘EXIT’ signage 1 x 10 W LED sealed lead calcium emergency light fitting	395.50
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DECORATIVE SPOT LIGHT FITTINGS

PER SET

N421	‘Eglo’ ceiling mounted nickel frosted light fittings complete with 4 x 40 W E14 bulbs as per cat no. DALLAS 1- 80996	124.00
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N422	‘Eglo’ ceiling mounted nickel frosted chrome finish light fittings complete with 1 x 40 W G10 bulbs as per cat no SPIKE 6- 82796	49.20
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DECORATIVE SPOT LIGHT FITTINGS

PER PAIR

Supply and Fix
\$

N423 'Eglo' ceiling recess mounted brass coated adjustable light fittings 85mm diameter complete with 1 x 20 W 12 V bulbs as per cat no. EINBAUSPOT 12V 1-80383 25.60

N424 'Eglo' ceiling recess mounted chrome finish adjustable light fittings 85mm diameter complete with 1 x 20 W 12 V

bulbs as per cat no. EINBAUSPOT 12V 1-80384 25.60

PER SET

N425 'Eglo' ceiling recess mounted brass coated adjustable light fittings complete with 3 x 50 W GU 10 lamps as per cat no. EINBAUSPOT GU 10 1-80378 29.20

N426 Ditto but white finish 26.80

INSECT KILLERS

PER NUMBER

N427 'Starkey' 2 x 10W electric insect killer fittings complete with light tubes 320.00

N428 'Starkey' 2 x 15W electric insect killer fittings complete with light tubes 420.00

N429 'Starkey' 2 x 20W electric insect killer fittings complete with light tubes 500.00

N430 'Khind' 2 x 10W electric insect killer fittings complete with light tubes 137.00

N431 'Khind' 2 x 15W electric insect killer fittings complete with light tubes 188.00

N432 'Khind' 2 x 20W electric insect killer fittings complete with light tubes 240.00

"DAVIS" LIGHT FITTINGS

Supply and Fix

\$

PER NUMBER

N433 'Davis' 15W dulux EL semi recessed compact fluorescent fitting, gold colour finished complete with ribbed opal glass complete with osram 15 W EL DULUX E27 lamp 40.00

N434 'Davis' 15W dulux EL wall/beam mounted compact fluorescent fitting, complete with clear glass and black cast aluminium bracket complete with osram 15 W EL dulux E27 lamp	43.00
N435 'Davis' 20W Dulux EL recessed compact fluorescent downlight complete with polished anodised aluminium reflector and lamp.	35.00
N436 'Davis' 20W Dulux EL semi-recessed compact fluorescent downlight with satin silver aluminium reflector and glass cover with white finish fixture complete with lamp.	35.00
N437 'Davis' 18W recessed SL prismatic compact fluorescent downlight complete with anodised aluminium reflector in black fixture complete with 1 No. 18 W SL E27 base lamp	398.00
N438 'Davis' SHS118PLS; 1 x 18W recessed down light fitting	64.00
N439 'Davis' SHS118PLS + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	133.00
<u>"DAVIS" LIGHT FITTINGS</u>	Supply and Fix
	\$
<u>PER NUMBER</u>	
N440 'Davis' SHS118PLS; 2 x 18W 200mm recessed down light fitting 'Davis' SHS218PLS + Emergency Power Pack	75.00
N441 'Davis' SHS218PLS + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	213.00
N442 'Davis' LPS118; 1 x 18W fluorescent fitting with prismatic diffuser	52.30
N443 'Davis' LPS118 + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	121.30
N444 'Davis' LPS136; 1 x 36W fluorescent fitting with prismatic diffuser	58.30

N445 'Davis' LPS136 + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	127.30
N446 'Davis' LPS236; 2 x 36W fluorescent fitting with prismatic diffuser	69.30
N447 'Davis' LP118; 1 x 18W fluorescent batten fitting	22.30
N448 'Davis' LP136; 1 x 36W fluorescent batten fitting	22.30
N449 'Davis' SWP236; 2 x 36W IP65 surface mounted fluorescent fitting	46.20

"DAVIS" LIGHT FITTINGS

Supply

and Fix
\$

PER NUMBER

N450 'Davis' SWP236 + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	115.30
N451 'Davis' CATW418S; 4 x 18W recessed fluorescent fitting with mirrorbrite louver	112.00
N452 'Davis' CATW418S + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	181.00
N453 'Davis' ARTW336; 3 x 36W recessed fluorescent fitting with mirror optic diffuser	110.00
N454 'Davis' ARTW336; 3 x 36W recessed dimmable fluorescent fitting with mirror optic diffuser	110.00
N455 'Davis' ARTW336 + 'Maxspid' Emergency Power Pack; As above but maintained type emergency light fitting	185.00

DIFFUSER LIGHT FITTING

N456 "Davis" ARTW218BX 2 x 18W
600mm "Armstrong" recessed T/Bar with
back reflector (X) designates reflector type
(H) specular semi-haze or 75.00
(D) semi-specular louvre complete with tube
and starter

N457 "Davis" ARTW318BX 3 x 18W
600mm "Armstrong" recessed T/Bar with
back reflector designates reflector type (H)
specular semi-haze or (D) semi-specular 100.00
louvre complete with tube and starter

"DAVIS" LIGHT FITTINGS

Supply

and Fix
\$

PER NUMBER

N458 "Davis" ARTW418BX 4 x 18W
600mm "Armstrong" recessed T/Bar with back reflector designates reflector type (H) specular semi-haze or (D)
semi-specular louvre complete with 111.50
tube and starter

N459 "Davis" ARTW236BX 2 x 36W
1200mm "Armstrong" recessed T/Bar with back reflector designates reflector type (H) specular semi-haze or (D)
semi-specular louvre complete with 103.00
tube and starter

N460 "Davis" ARTW336BX 3 x 36W
1200mm "Armstrong" recessed T/Bar with back reflector designates reflector type (H) specular semi-haze or (D)
semi-specular louvre complete with 128.50
tube and starter

N461 "Davis" ARTW436BX 4 x 36W
1200mm "Armstrong" recessed T/Bar with back reflector designates reflector type (H) specular semi-haze or (D)
semi-specular louvre complete with 143.50
tube and starter

HIGH BAY HB

N462 "Davis" high bay HB250MV 250W high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 210.00

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

N463 "Davis" high bay HB400MV 400W MV high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 275.00

N464 "Davis" high bay HB150MH 150W MH high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 226.50

N465 "Davis" high bay HB250MH 250W MH high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 288.00

N466 "Davis" high bay HB400MH 400W MH high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 327.00

N467 "Davis" high bay HB150S 150W HPS high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39,

lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 207.00

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

N468 "Davis" high bay HB250S 250W HPS high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 262.00

N469 "Davis" high bay HB400S 400W HPS high bay(integral control) with spun aluminium reflector and integral pendant control gear complete with lamp holder E39, lamps coated elliptical and available in mercury vapour, metal halide and high pressure sodium 327.00

BARE BATTEN LIGHT FITTINGS

N470 "Davis" bare batten LP118 1 x 18W light fitting complete with 615mm single tube 23.50

N471 "Davis" bare batten LP130 1 x 30W light fitting complete with 920mm single tube 24.10

N472 "Davis" bare batten LP136 1 x 36W light fitting complete with 1225mm single tube 24.80

N473	"Davis" bare batten LP158 1 x 58W light fitting complete with 1525mm single tube	37.80
N474	"Davis" bare batten LP218 2 x 18W light fitting complete with 615mm twin tube	36.10
N475	"Davis" bare batten LP230 2 x 30W light fitting complete with 920mm twin tube	38.00
N476	"Davis" bare batten LP236 2 x 36W light fitting complete with 1225mm twin tube	40.00

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

**ROUND DIFFUSED BATTEN-
PRISMATIC DIFFUSER**

N477	"Davis" bare batten LP258 2 x 58W light fitting complete with 1525mm twin tube	58.20
N478	"Davis" round diffused batten with prismatic difusser LPD118 1 x 18W light fitting complete with 615mm single tube	38.80
N479	"Davis" round diffused batten with prismatic difusser LPD130 1 x 30W light fitting complete with 920mm single tube	40.80
N480	"Davis" round diffused batten with prismatic difusser LPD136 1 x 36W light fitting complete with 1225mm single tube	42.70
N481	"Davis" round diffused batten with prismatic difusser LPD158 1 x 58W light fitting complete with 1525mm single tube	51.80
N482	"Davis" round diffused batten with prismatic difusser LP218 2 x 18W light fitting complete with 615mm twin tube	46.20
N483	"Davis" round diffused batten with prismatic difusser LP230 2 x 30W light fitting complete with 920mm twin tube	52.00
N484	"Davis" round diffused batten with prismatic difusser LP236 2 x 36W light fitting	

complete with 1225mm twin tube 57.90

N485 "Davis" round diffused batten with
prismatic difusser LP258 2 x 58W light fitting
complete with 1525mm twin tube 65.70

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

**SQUARE DIFFUSED BATTEN-
PRISMATIC DIFFUSER**

N486 "Davis" square diffused batten with prismatic
difusser LPS118 1 x 18W light fitting complete
with 615mm single tube 38.80

N487 "Davis" square diffused batten with prismatic
difusser LPS130 1 x 30W light fitting complete
with 920mm single tube 40.80

N488 "Davis" square diffused batten with prismatic
difusser LPS136 1 x 36W light fitting complete
with 1225mm single tube 42.70

N489 "Davis" square diffused batten with prismatic
difusser LPS218 2 x 18W light fitting complete with
615mm twin tube 46.20

N490 "Davis" square diffused batten with prismatic
difusser LPS230 2 x 30W light fitting complete with
920mm twin tube 52.00

N491 "Davis" square diffused batten with prismatic
difusser LPS236 2 x 36W light fitting complete
with 1225mm twin tube 57.90

**WIRE BATTEN - POWDER
COATED WIRE GUARD**

N492 "Davis" wire guard batten with powder coated wire
guard LPW118 1 x 18W light fitting complete with
615mm single tube 38.80

N493	"Davis" wire guard batten with powder coated wire guard LPW130 1 x 30W light fitting complete with 920mm single tube	47.20
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“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

N494	"Davis" wire guard batten with powder coated wire guard LPW136 1 x 36W light fitting complete with 1225mm single tube	55.70
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N495	"Davis" wire guard batten with powder coated wire guard LPW158 1 x 58W light fitting complete with 1525mm single tube	64.80
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N496	"Davis" wire guard batten with powder coated wire guard LPW218 2 x 18W light fitting complete with 615mm twin tube	52.70
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N497	"Davis" wire guard batten with powder coated wire guard LPW230 2 x 30W light fitting complete with 920mm twin tube	55.90
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N498	"Davis" wire guard batten with powder coated wire guard LPW236 2 x 36W light fitting complete with 1225mm twin tube	59.20
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N499	"Davis" wire guard batten with powder coated wire guard LPW258 2 x 58W light fitting complete with 1525mm twin tube	65.70
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REFLECTIVE BATTEN

N500	"Davis" reflective batten with powder coated metal reflector LPR118 1 x 18W light fitting complete with 615mm single tube	37.50
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N501	"Davis" reflective batten with powder coated metal reflector LPR130 1 x 30W light fitting complete with 920mm single tube	44.00
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"DAVIS" LIGHT FITTINGS

Supply

and Fix
\$

PER NUMBER

N502	"Davis" reflective batten with powder coated with 1225mm single tube	metal reflector LPR136 1 x 36W	light fitting	complete	63.50
N503	"Davis" reflective batten with powder coated with 1525mm single tube	metal reflector LPR158 1 x 58W	light fitting	complete	63.50

ACRYLIC DIFFUSED BATTEN

N504	"Davis" diffuser batten with reeded acrylic diffused batten ELD114T5 1 x 14 W light fitting complete with c/w 575mm single tube	51.80
N505	"Davis" diffuser batten with reeded acrylic diffused batten ELD121T5 1 x 21 W light fitting complete with 857mm single tube	55.70
N506	"Davis" diffuser batten with reeded acrylic diffused batten ELD124T5 1 x 24 W light fitting complete with 575mm single tube	60.90
N507	"Davis" diffuser batten with reeded acrylic diffused batten ELD128T5 1 x 28 W light fitting complete with 1175mm single tube	68.70
N508	"Davis" diffuser batten with reeded acrylic diffused batten ELD214T5 2 x 14 W light fitting complete with 575mm twin tube	61.80
N509	"Davis" diffuser batten with reeded acrylic diffused batten ELD221T5 2 x 21 W light fitting complete with 857mm twin tube	65.70

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

N510 "Davis" diffuser batten with reeded acrylic diffused batten ELD224T5 2 x 24 W light fitting complete with 575mm twin tube 69.60

N511 "Davis" diffuser batten with reeded acrylic diffused batten ELD228T5 2 x 28 W light fitting complete with 1175mm twin tube 74.80

WEATHERPROOF DIFFUSED LIGHT FITTING

N512 "Davis" Mounting pendant 473 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP118CP 1 x 18W complete with 670mm single tube 52.80

N513 "Davis" Mounting pendant 902 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP136CP 1 x 36W complete with 1270mm single tube 65.80

N514 "Davis" Mounting pendant 965 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP158CP 1 x 5W complete with 1570mm single tube 73.60

N515 "Davis" Mounting pendant 473 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP218CP 2 x 18W complete with 670mm twin tube 64.20

N516 "Davis" Mounting pendant 902 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP236CP 2 x 36W complete with 1270mm twin tube 78.50

“DAVIS” LIGHT FITTINGS

Supply
and Fix

\$

PER NUMBER

N517	"Davis" Mounting pendant 965 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser SWP258CP 2 x 58W complete with 1570mm twin tube	95.40
N518	"Davis" Mounting apart 230 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser AWF118CP 2 x 18W complete with 670mm twin tube	69.40
N519	"Davis" Mounting apart 840 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser AWF136CP 2 x 36W complete with 1270mm twin tube	82.40
N520	"Davis" Mounting apart 1140 surface pattern weatherproof light fitting with clear pattern polycarbonate diffuser AWF158CP 2 x 58W complete with 1570mm twin tube	95.40

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

PER NUMBER

Light Fittings

N521	'GE / Sylvania' 16W surface mounted 2D compact fluorescent fitting, corrosion resistant moisture proof type c/w opal diffuser and lamp.	70.00
N522	'GE / LEB' 28W 2D recessed compact fluorescent fitting, complete with parabolic mirror louver and lamp.	100.00

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

Supply and Fix

\$

PER NUMBER

Light Fittings

N523 'GE / Sylvania' 1 x 16W 2D round surface mounted fluorescent fitting in two-tone polycarbonate with grey body opal front corrosion and vandal resistant containing an internal reflector, gear, lamp holder, water-tight gasket and 1 x 16 W 2D lamp.	70.00
N524 'GE / Sylvania' 1 x 16W 2D ceiling recessed fluorescent down light square or round complete with internal reflector, gear, lamp holder and 1 x 16 W 2D lamp.	90.00
N525 'GE / Sylvania' 1 x 28W 2D surface mounted round fluorescent fitting complete with opal diffuser, internal reflector, lamp holder and 1 x 28W 2D lamp.	80.00
N526 1 x 38W 2D ditto	120.00
N527 1 x 28W 2D ditto but with decorative crystal glass cover.	110.00
N528 1 x 38W 2D ditto	150.00
N529 'GE / Sylvania' 1 x 16W 2D ceiling mounted fluorescent fitting of crystal pattern glass supported in black finished metal framing complete with internal reflector, gear, lamp holder and 1 x 16 W 2D lamp.	110.00
N530 'GE / Sylvania' 1 x 16W 2D ceiling recessed fluorescent down light square or round complete with internal reflector, gear, lamp holder and 1 x 16W 2D lamp.	90.00

**ELECTRICAL LIGHT FITTINGS
AND ACCESSORIES**

Supply and Fix

\$

PER NUMBER

N531 'GE / Sylvania' 1 x 28W 2D surface mounted round fluorescent fitting complete with opal diffuser, internal reflector, lamp holder and 1 x 28 W 2D lamp.	80.00
N532 1 x 38W 2D ditto	120.00
N533 1 x 28W 2D ditto but with decorative	

crystal glass covers.	110.00
N534 1 x 38W 2D ditto	150.00
N535 'GE / Sylvania' 28W 2D ceiling recessed square hyform fluorescent light fitting with low brightness louver, reflector, gear, lamp holder and 28 W 2D lamp.	120.00
N536 38W 2D ditto	165.00
N537 'Eglo / LEB' 20W Dulux EL recessed compact fluorescent downlight complete with polished anodised aluminium reflector and Osram 10,000 hrs lamp.	45.00
N538 'Eglo / LEB' 20W Dulux EL semi-recessed compact fluorescent downlight with satin silver aluminium reflector and glass cover with white finish fixture complete with Osram 10,000 hrs lamp.	65.00
N539 'Osram' metal halide lamp Model HQI- T, E40.	85.00
N540 'Maxspid' MTL/NM/220-TH; non-maintained 2 x 55W wall mounted emergency light fitting	225.00

ELECTRICAL LIGHT FITTINGS AND ACCESSORIES

Supply and Fix

\$

PER NUMEBR

N541 'Thorn' OS70.4; 1 x 26W IP65 wall mounted compact fluorescent light fittings	288.00
N542 'Thorn' Piazza OS70.4; 70W wall mounted bulkhead light fittings	322.00
N543 'Thorn' Petrelux 7, P7236/S4/HF; 2 x 36W surface mounted flame proof light fittings	2,070.00
N544 'Thorn' Petrelux 7, P7236/S4/HF/EM; As above but maintained type emergency light fittings	173.00
N545 'Jetlite' JR136/EB; 1 x 36W metal reflector channel fluorescent light fittings	

	46.00
N546 'Jetlite' JR136/EB/PP; 1 x 36W metal reflector fluorescent light fittings with emergency battery power pack	115.00
N547 'Jetlite' JR236/EB; 2 x 36W metal reflector channel fluorescent light fittings	63.00
N548 'Jetlite' JR236/EB/PP; 2 x 36W metal reflector fluorescent light fittings with emergency battery power pack	132.00

**ELECTRICAL LIGHT FITTINGS,
ACCESSORIES**

Supply and Fix

\$

PER NUMBER

HIGH BAY LIGHT FITTINGS

N549 'GE / Sylvania' 250W high bay light fitting with metal halide lamp (HQI-E) and narrow beam reflector as per cat no. GHBB250MH	400.00
N550 'Philips' 400W 240v 50 Hz high bay industrial light fitting complete with 400 W MBF lamp all as per cat no. MDK900	515.00
N551 'LEB / Nordex / GE' 400W 230v 50 Hz high bay industrial light fitting complete with 400W MH lamp all as per cat no. GHBB 400MH.	450.00
N552 Ditto but 1000W (GHBB 1000MH)	1,000.00
N553 'Fael Luce' 1000W 240v 50Hz high bay industrial light fitting complete with 1000 W MBF lamp	565.00
N554 'GE / Sylvania' 150W high bay light fitting with high pressure sodium lamps (SON) and narrow beam reflector as per cat no. GHBB150HPS	380.00
N555 250W ditto cat no. GHBB250HPS	400.00
N556 400W ditto cat no. GHBB400HPS	430.00

**LOW BAY LIGHT FITTINGS
PER NUMBER**

N557 'Davis' LBP250MH; 250W metal halide
low bay light fitting 337.00

**FLOODLIGHTS FOR HALOGEN
LAMPS**

Supply and Fix

\$

PER NUMBER

Lightweight, sturdy floodlight with high grade aluminium reflector and high-pressure die-cast aluminium with low copper content for high corrosion resistant black finished surface

N558 'GE / Sylvania' 1 x 300W or 500W
halogen lamp fitting all as per cat no.
QF50BK 60.00

N559 1 x 750W or 1000W ditto cat no.
QF1000BK 90.00

N560 1 x 1500W ditto cat no. QF1500BK 110.00

N561 'Philip (China made)' 1 x 100W LED
lamp fitting 229.00

N562 'Philip (China made)' 1 x 200W LED
lamp fitting 337.00

N563 'Philip (China made)' 1 x 250W LED
lamp fitting 394.00

N564 'Philip (China made)' 1 x 750W or 1000
W halogen lamp fitting 151.00

N565 'Philip (China made)' 1 x 1500W or 1000
W halogen lamp fitting 198.00

FLOODLIGHTS FOR H.I.D. LAMPS

Supply and Fix

\$

PER NUMBER

Compact, sturdy floodlight with permanently attached ballast box containing built-in gear, high grade aluminium reflectors and gland for cable entry including lamp

N566 'Nikkon' 1 x 70W SON-T high
pressure sodium lamp 165.00

N567 'GE / Sylvania' 1 x 70W NAV-T 4Y high
pressure sodium lamp 230.00

N568 'Nikkon' 1 x 100W SON-T high pressure sodium lamp	175.00
N569 'GE / Sylvania' 1 x 100W NAV-T 4Y high pressure sodium lamp	250.00
N570 'Nikkon' 1 x 150W SON-T high pressure sodium lamp	185.00
N571 'GE / Sylvania' 1 x 150W NAV-T 4Y high pressure sodium lamp	280.00
N572 'Nikkon' 1 x 250W SON-T high pressure sodium lamp	190.00
N573 'GE / Sylvania' 1 x 250W NAV-T 4Y high pressure sodium lamp	290.00
N574 'Nikkon' 1 x 400W SON-T high pressure sodium lamp	230.00
N575 'GE / Sylvania' 1 x 400W NAV-T 4Y high pressure sodium lamp	360.00
N576 'Fuel Luce' 1 x 150W metal halide floodlight complete with E40 MH Lamp	528.00
N577 'Fuel Luce' 1 x 250W metal halide floodlight complete with E40 MH Lamp	606.00
N578 'Fuel Luce' 1 x 400W metal halide floodlight complete with E40 MH Lamp	682.00

'GOODLITE' FLUORESCENT LIGHT FITTINGS

Supply and Fix

\$

PER NUMBER

N579 1 x 20W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in basic batten fluorescent light fitting (cat no. GLC120/91)	18.00
N580 1 x 40W ditto (cat no. GLC140/91)	18.00
N581 1 x 58W ditto (cat no. GLC158/91)	28.00
N582 2 x 20W ditto (cat no. GLC220/91 TH)	28.00
N583 2 x 40W ditto (cat no. GLC240/91 TH)	30.00
N584 2 x 58W ditto (cat no. GLC258/91 TH)	50.00

'LEB' FLUORESCENT LIGHT

FITTINGS

PER NUMBER

N585 1 x 18W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in basic batten fluorescent light fitting (cat no. VCF 120)	15.00
N586 1 x 36W ditto (cat no. VCF 140)	15.00
N587 1 x 58W ditto (cat no. VCF 165)	25.00
N588 2 x 18W ditto (cat no. VCF 220)	30.00
N589 2 x 36W ditto (cat no. VCF 240)	30.00
N590 2 x 58W ditto (cat no. VCF 265)	50.00

'GOODLITE' METAL REFLECTOR FLUORESCENT

FITTINGS

PER NUMBER

	Supply and Fix
	\$

N591 1 x 20W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in basic batten fluorescent light fitting (cat no. GMF 1202/SU)	31.00
N592 1 x 40W ditto (cat no. GMF 1404/SU)	31.00
N593 1 x 58W ditto (cat no. GMF 1606/SU)	41.00
N594 2 x 20W ditto (cat no. GMF 2212/SU)	43.00
N595 2 x 40W ditto (cat no. GMF 2414/SU)	43.00
N596 2 x 58W ditto (cat no. GMF 2616/SU)	63.00

'LEB' METAL REFLECTOR

FLUORESCENT FITTINGS

PER NUMBER

N597 1 x 18W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in basic batten fluorescent light fitting (cat no. VCF 120+MTR)	20.00
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N598 1 x 36W ditto (cat no. VCF 140+MTR)	23.00
N599 1 x 58W ditto (cat no. VCF 165+MTR)	35.00
N600 2 x 18W ditto (cat no. VCF 220+MTR)	37.00
N601 2 x 36W ditto (cat no. VCF 240+MTR)	38.00
N602 2 x 58W ditto (cat no. VCF 265+MTR)	60.00

**'GOODLITE' WIRE GUARD
FLUORESCENT FITTINGS**

Supply and Fix
\$

PER NUMBER

N603 1 x 18W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in wire guard fitting (cat no. VWG 120)	28.00
N604 1 x 36W ditto (cat no. VWG 140)	33.00
N605 2 x 18W ditto (cat no. VWG 220)	42.00
N606 2 x 36W ditto (cat no. VWG 240)	52.00

**'LEB' WIRE GUARD
FLUORESCENT FITTINGS
PER NUMBER**

N607 1 x 18W fluorescent light fittings surface mounted complete with fluorescent tube, condenser, ballast and starter unit including fixing to ceiling, in wire guard fitting (cat no. GWG 120/CL)	42.30
N608 1 x 40W ditto (cat no. GWG 1420/CL)	44.30
N609 2 x 20W ditto (cat no. GWG 220/CL)	49.20
N610 2 x 40W ditto (cat no. GWG 240/CL)	55.20

**'GOODLITE' DIFFUSER FITTINGS
PER NUMBER**

N611 1 x 20W ditto complete with clear or opal plastic diffuser (cat no. GDD 120U)	34.30
N612 1 x 40W ditto (cat no. GDD 140U)	36.30
N613 2 x 20W ditto (cat no. GDD 220U)	42.20

N614 2 x 40W ditto (cat no. GDD 240U) 42.20

'LEB' DIFFUSER FITTINGS

Supply
and Fix

\$

PER NUMBER

N615 1 x 18W ditto complete with prismatic or opal plastic diffuser (cat no. VCD 120) 28.00

N616 1 x 36W ditto (cat no. VCD 140) 32.00

N617 1 x 58W ditto (cat no. VCD 165) 45.00

N618 2 x 20W ditto (cat no. VCD 220) 45.00

N619 2 x 40W ditto (cat no. VCD 240) 53.00

N620 2 x 58W ditto (cat no. VCD 265) 80.00

**'GOODLITE' CEILING
RECESSED FITTINGS
PER NUMBER**

N621 2 x 20W ditto all as per cat no. GAC 220/97 or 'A' (620 x 605mm size) 62.00

N622 3 x 20W ditto all as per cat no. GAC 320/97 or 'A' (620 x 605mm size) 80.00

N623 4 x 20W ditto all as per cat no. GAC 420/97 or 'A' (620 x 605mm size) 96.00

N624 2 x 40W ditto all as per cat no. GAC 240/97 or 'A' (1230 x 605mm size) 64.00

N625 3 x 40W ditto all as per cat no. GAC 340/97 or 'A' (1230 x 605mm size) 96.00

N626 4 x 40W ditto all as per cat no. GAC 440/97 or 'A' (1230 x 605mm size) 118.00

'LEB' CEILING RECESSED FITTINGS

Supply and Fix

\$

PER NUMBER

N627 1 x 18W ceiling recessed fluorescent light fittings complete with diffuser all as per cat no. VSR 1224, PA120 (616 x 297mm size) 55.00

N628 2 x 18W ditto all as per cat no. VSR

2424, PA220 (616 x 602mm size)	70.00
N629 3 x 18W ditto all as per cat no. VSR 2424, PA320 (616 x 602mm size)	80.00
N630 4 x 18W ditto all as per cat no. VSR 2424, PA420 (616 x 602mm size)	96.00
N631 1 x 36W ditto all as per cat no. VSR 1248, PA140 (1224 x 297mm size)	75.00
N632 2 x 36W ditto all as per cat no. VSR 1248, PA240 (1224 x 297mm size)	80.00
N633 3 x 36W ditto all as per cat no. VSR 2448, PA340 (1224 x 602mm size)	90.00
N634 4 x 36W ditto all as per cat no. VSR 2448, PA240 (1224 x 602mm size)	100.00

**'GOODLITE' RECESSED
MIRROR REFLECTOR FITTINGS**

Supply
and Fix

\$

PER NUMBER

Note: Models with AL suffix can be used for recessed mounting in suspension Aluminium Tee Bar Ceiling whereas models with RE suffix can be used for recessed mounting in wooden or plaster ceiling.

N635 2 x 20W ceiling recessed fluorescent light fittings complete with diffuser all as per cat no. GMF 2212/AL or RE (620 x 200mm size)	70.00
N636 2 x 20W ditto all as per cat no. GMF 2222/AL or RE (620 x 300mm size)	70.00
N637 3 x 20W ditto all as per cat no. GMF 3222/AL or RE (620 x 605mm size)	82.00
N638 4 x 20W ditto all as per cat no. GMF 4222/AL or RE (620 x 605mm size)	94.00
N639 1 x 40W ditto all as per cat no. GMF 1404/AL or RE (1230 x 200mm size)	60.00
N640 2 x 40W ditto all as per cat no. GMF 2424/AL or RE (1230 x 300mm size)	70.00
N641 2 x 40W ditto all as per cat no. GMF 2424/AL or RE (1230 x 605mm size)	76.00

N642 3 x 40W ditto all as per cat no. GMF
3424AL or RE (1230 x 605mm size) 98.00

N643 4 x 40W ditto all as per cat no. GMF
4424AL or RE (1230 x 605mm size) 110.00

**'LEB' RECESSED MIRROR
REFLECTOR FITTINGS**

Supply and Fix

\$

PER NUMBER

N644 2 x 20W ceiling recessed fluorescent light
fittings complete with diffuser all as per cat no.
VRM 1224, AR220 85.00

N645 2 x 20W ditto all as per cat no. VRM
2424, AR220 90.00

N646 3 x 20W ditto all as per cat no. VRM
2424, AR320 100.00

N647 4 x 20W ditto all as per cat no. VRM
2424, AR420 110.00

N648 1 x 40W ditto all as per cat no. VRM
1224, AR140 95.00

N649 2 x 40W ditto all as per cat no. VRM
1248, AR240 95.00

N650 2 x 40W ditto all as per cat no. VRM
2448, AR240 100.00

N651 3 x 40W ditto all as per cat no. VRM
2448, AR340 110.00

N652 4 x 40W ditto all as per cat no. VRM
2448, AR440 120.00

**'GOODLITE' RECESSED
MIRROR REFLECTOR FITTINGS**

Supply and Fix

\$

PER NUMBER

N653 1 x 20W ceiling recessed fluorescent light
fittings complete with side blades bright rolled
to a specular finish 84% reflectance and
cross blades 25 SWG aluminium strip (Size
603 x 185mm) 65.00

N654 2 x 20W ditto (Size 603 x 299mm) 65.00

N655 2 x 20W ditto (Size 603 x 603mm)	65.00
N656 3 x 20W ditto	72.00
N657 4 x 20W ditto	84.00

'LEB' RECESSED MIRROR
REFLECTOR FITTINGS
PER NUMBER

N658 1 x 18W ceiling recessed fluorescent light fittings complete with side blades bright rolled to a specular finish 84% reflectance.	90.00
N659 2 x 18W ditto (620 x 300mm size)	100.00
N660 2 x 18W ditto (620 x 605mm size)	120.00
N661 3 x 18W ditto	130.00
N662 4 x 20W ditto	140.00
N663 1 x 36W ditto	90.00
N664 2 x 36W ditto (1224 x 297mm size)	110.00
N665 2 x 36W ditto (1224 x 602mm size)	130.00
N666 3 x 36W ditto	140.00
N667 4 x 36W ditto	150.00

'LEB' RECESSED MIRROR
REFLECTOR FITTINGS

Supply and Fix

\$

PER NUMBER

N668 1 x 18W ceiling recessed fluorescent light fittings complete with side blades bright rolled to a specular finish 84% reflectance <u>full mirror</u>	90.00
N669 2 x 18W ditto (620 x 300mm size)	100.00
N670 2 x 18W ditto (620 x 605mm size)	120.00
N671 3 x 18W ditto	130.00
N672 4 x 20W ditto	140.00
N673 1 x 36W ditto	90.00
N674 2 x 36W ditto (1224 x 297mm size)	110.00

N675 2 x 36W ditto (1224 x 602mm size)	130.00
N676 3 x 36W ditto	140.00
N677 4 x 36W ditto	150.00

**'LEB' WEATHER PROOF LIGHT
FITTINGS**

Supply and Fix

\$

PER NUMBER

N678 1 x 18W weather-proof fluorescent light fittings complete with tube, choke, condenser, starter and acrylic diffuser clip-less design all as per cat no. FA118 (673 x 113 x 450mm deep in size)	40.00
N679 1 x 36W ditto all as per cat no. FA136 (1283 x 113 x 660mm deep in size)	40.00
N680 1 x 58W ditto all as per cat no. FA158 (1583 x 113 x 900mm deep in size)	80.00
N681 2 x 18W ditto all as per cat no. FA218 (673x 170 x 450mm deep in size)	65.00
N682 2 x 36W ditto all as per cat no. FA236 (1283 x 170 x 660mm deep in size)	85.00
N683 2 x 58W ditto all as per cat no. FA258 (1583 x 170 x 660mm deep in size)	125.00
N684 Surface mounted fluorescent light fittings 1 x 36W ceiling recessed fluorescent light fittings complete with diffuser	65.00
N685 2 x 36W ditto	70.00
N686 2 x 18W ditto	70.00
N687 3 x 18W ditto	80.00
N688 4 x 18W ditto	90.00
N689 2 x 36W ditto	80.00
N690 3 x 36W ditto	90.00
N691 4 x 36W ditto	100.00

**'SAMCOM' EMERGENCY
SIGNAGE HYBRID CIRCUIT
FITTINGS**

Supply
and Fix

\$

PER NUMBER

N692 Single sided wall or pendant mounting non-maintained 230V silk-screened EXIT or KELUAR wordings in green against white background complete with hybrid circuit IC/charger 8W/T5 bi-pin fluorescent tube and 4.8V lead acid rechargeable dry cells all as per cat no. SLM18	100.00
N693 Double sided ditto SLM18-002	115.00
N694 'Maxspid MEW/S/1080' 1 x 18W maintained type wall mounted KELUAR sign	117.00
N695 'Maxspid MSS/M/1080' 1 x 18W maintained type ceiling mounted directional KELUAR sign fitting	112.00
N696 'Hitachi' or 'Toshiba' 8W Exit light tube	35.00
N697 'PEX-215F'; 2 x 8W self-contained emergency KELUAR sign light fitting (Fluorescent Tube)	181.00
N698 'PEX-215'; 2 x 15W self-contained emergency KELUAR sign light fitting (Incandescent Bulbs)	235.00
N699 'PEX-215LED'; 2 x 15W self-contained emergency KELUAR sign light fitting (Super Bright Light Emitting Diodes)	258.00
N700 'n-121 208/36 D3'; 2 x 8W zone2 polyester emergency light fitting for escape route	181.00

**'LEB' FLUORESCENT LIGHT
FITTINGS COMPLETE WITH
'OSRAM' QT ELECTRONIC
BALLAST AND LAMP**

PER NUMBER

N701 1 x 18W basic batten fluorescent light fittings complete with tube, 'Osram' QT electronic ballast all as per cat no. VCF 120 + OSRAM QT	35.00
N702 1 x 36W ditto cat no. VCF 140 + OSRAM QT	35.00

Supply
and Fix
\$

N703	1 x 58W ditto	cat no.	VCF 165 +	48.00
	OSRAM QT			
N704	2 x 18W ditto	cat no.	VCF 220 +	45.00
	OSRAM QT			
N705	2 x 36W ditto	cat no.	VCF 240 +	45.00
	OSRAM QT			
N706	2 x 58W ditto	cat no.	VCF 265 +	65.00
	OSRAM QT			

ADD TO THE ABOVE ITEMS

N707	Metal reflectors for 1 x 18W or 2 x 18W fluorescent light fittings	10.00
N708	Ditto but for 1 x 36W or 2 x 36W fluorescent light fittings	15.00
N709	Ditto but for 1 x 58W or 2 x 58W fluorescent light fittings	20.00
N710	<u>'LEB' Opal diffuser</u> for 1 x 18W fluorescent fitting	20.00
N711	Ditto for 1 x 36W fluorescent fitting	30.00
N712	Ditto for 1 x 58W fluorescent fitting	40.00
N713	Ditto for 2 x 18W fluorescent fitting	35.00
N714	Ditto for 2 x 36W fluorescent fitting	45.00
N715	Ditto for 2 x 58W fluorescent fitting	60.00

ADD TO THE ITEMS N711 – N715

Supply
and Fix

PER NUMBER

\$

N716	<u>Prismatic diffuser</u> for 1 x 18W fluorescent fitting	15.00
N717	Ditto for 1 x 36W fluorescent fitting	20.00
N718	Ditto for 1 x 58W fluorescent fitting	35.00
N719	Ditto for 2 x 18W fluorescent fitting	25.00
N720	Ditto for 2 x 36W fluorescent fitting	30.00
N721	Ditto for 2 x 58W fluorescent fitting	50.00
N722	<u>Lamellae louver diffuser</u> for 1 x 18W fluorescent fitting	25.00
N723	<u>Lamellae louver diffuser</u> for 1 x 36W	

fluorescent fitting	30.00
N724 Ditto for 1 x 58W fluorescent fitting	50.00
N725 Ditto for 2 x 18W fluorescent fitting	35.00
N726 Ditto for 2 x 36W fluorescent fitting	40.00
N727 Ditto for 2 x 58W fluorescent fitting	60.00
N728 <u>Facetted mirror with white lamellae louver diffuser for 1 x 18W fluorescent fitting</u>	40.00
N729 Ditto for 1 x 36W fluorescent fitting	50.00
N730 Ditto for 1 x 58W fluorescent fitting	65.00
N731 Ditto for 2 x 18W fluorescent fitting	50.00
N732 Ditto for 2 x 36W fluorescent fitting	60.00
N733 Ditto for 2 x 58W fluorescent fitting	85.00

ADD TO THE ITEMS N729 – N733

Supply
and Fix

PER NUMBER

\$

N734 <u>Facetted mirror with profiled lamellae louver diffuser for 1 x 18W fluorescent fitting</u>	40.00
N735 Ditto for 1 x 36W fluorescent fitting	50.00
N736 Ditto for 1 x 58W fluorescent fitting	65.00
N737 Ditto for 2 x 18W fluorescent fitting	50.00
N738 Ditto for 2 x 36W fluorescent fitting	60.00
N739 Ditto for 2 x 58W fluorescent fitting	85.00

HIGH EFFICIENCY LIGHT FITTING

PER NUMBER

N740 T4 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 1 x 8W	14.10
N741 T4 High Efficiency light fitting with electronic ballast with basic colour	

yellow, blue, green and white complete with tube 1 x 16W	15.40
N742 T4 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 1 x 20W	16.70
N743 T4 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 1 x 24W	18.00
N744 T4 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 1 x 28W	19.30

HIGH EFFICIENCY LIGHT FITTING
PER NUMBER

Supply
and Fix

\$

N745 T5 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 14W	35.80
N746 T5 High Efficiency light fitting with electronic ballast with basic colour yellow, blue, green and white complete with tube 28W	35.80

PLASTIC DIFFUSERS TO
FLUORESCENT LIGHTING FITTINGS

PER NUMBER

N747 610mm long for single light	13.70
N748 1220mm long for single light	20.00
N749 1220mm long for twin light	25.00
N750 1525mm long for single light	30.00
N751 1525mm long for twin light	35.00

Supply
and Fix

\$

PERSPEX LIGHT DIFFUSERS

Supply and install the following types of perspex light diffuser 2.0mm thickness

PER SQUARE METRE

N752 Acrylic	40.00
N753 Opal	60.00
N754 Prismatic	40.00
N755 Pyramid clear	45.00
N756 Diakon	45.00
N757 Louvre	80.00

'OSRAM' OR 'GE' LAMP AND FITTINGS (EUROPE MAKE ONLY)

PER NUMBER

N758 Clear ordinary 240 Volt 15W inside frosted or incandescent lamps with E27 of B22 base	2.00
N759 25W ditto	2.00
N760 40W ditto	2.00
N761 60W ditto	2.50
N762 75W ditto	2.80

'OSRAM' OR 'GE' LAMP AND FITTINGS (EUROPE MAKE ONLY)

PER NUMBER

	Supply and Fix
	\$
N763 Clear ordinary 240 Volt 100W inside frosted or incandescent lamps with E27 of B22 base	5.00
N764 150W ditto	6.00
N765 200Watt ditto	7.50
N766 15W inside frosted candle or lustre lamps 240 volt with E14 base	3.50

N767	25W ditto	3.60
N768	40W ditto	5.70
N769	60W ditto	6.70
N770	25W candle filament lamps with E27 base	3.70
N771	25W Filament ES Lamp E27	3.70
N772	15W coloured standard lamps, 240 volt with E22 base (vacuum type) – ‘Tungsrām’	3.50
N773	25W ditto	3.50
N774	40W ditto (gas-filled type)	5.50
N775	60W ditto (ditto)	5.50
N776	25W blown-bulb reflector lamps, 250 volt, R50 type with E14 base	7.00
N777	40W ditto	9.00
N778	40W ditto R63 type with E27 or B22 base	9.00
<u>‘OSRAM’ OR ‘GE’ LAMP AND FITTINGS (EUROPE MAKE ONLY)</u>		Supply and Fix
<u>PER NUMBER</u>		\$
N779	60W ditto	6.00
N780	75W ditto R80 type with E27 base	6.50
N781	100W ditto	7.50
N782	75W ditto R95 type with E27 or B22 base	18.00
N783	100W ditto	18.00
N784	150W ditto	28.00
N785	150W ditto R125 type with E27 base	29.00
N786	300W ditto	31.50
N787	60W PAR 38 economy spot and pressed glass reflector lamp 240 volt with E27 base	18.00
N788	80W ditto	18.00
N789	120W ditto	18.00

N790	100W tungsten double ended type (220 – 230 V) halogen lamp	19.00
N791	150W ditto	19.00
N792	200W tungsten double ended type (220 – 230 V) halogen lamp	23.00
N793	250W ditto	26.00
N794	300W ditto	29.00
N795	500W ditto	31.00
N796	750W ditto	34.00
N797	1000W ditto	40.00
N798	1500W ditto	47.00

'OSRAM' OR 'GE' LAMP AND FITTINGS (EUROPE MAKE

ONLY)

PER NUMBER

		Supply and Fix
		\$
N799	2000W tungsten double ended type (220 – 230V) halogen lamp	21.00
N800	500W high wattage double envelope tungsten halogen lamps with E40 base (240 – 250 V)	40.00
N801	1000W ditto	41.00
N802	2000W ditto	48.00
N803	5W PL-S compact lamps, single ended, consisting of 2 fluorescent tubes with 2 pin base starter and capacitor	7.00
N804	7W PL-S ditto	7.00
N805	9W PL-S ditto	9.00
N806	11W PL-S ditto	8.00
N807	10W PL-S compact lamps, single ended, consisting of 4 fluorescent tubes welded together with 2 pin base, starter and capacitor	10.00
N808	13W PL-C ditto	13.00
N809	18W PL-C ditto	18.00

N810	26W PL-C ditto	26.00
N811	'Osram' / 'Sylvania' 9W energy-effective 2μ / 3μ SL lamps 240 volt with E27 or B22 base 8000hr life	11.00
N812	11 - 13W ditto	13.00
N813	15 - 18W ditto	16.50
N814	20 - 23W ditto	20.00
N815	25W ditto	24.50

'OSRAM' OR 'GE' LAMP AND FITTINGS (EUROPE MAKE ONLY)

PER NUMBER

		Supply and Fix
		\$
N816	20W (18W) 590mm long fluorescent lamps on natural, warm white, white and cool day light	8.50
N817	40W (36W) 1200mm long ditto	8.50
N818	58W Fluorescent Lamp 127mm Long	19.00
N819	65W (58W) 1500mm long ditto	30.00
N820	16W 2D lamps with 2 pin cap and built in starter switch	20.00
N821	28W 2D lamps with 4 pin cap	23.00
N822	38W 2D lamps with 4 pin cap	25.00
N823	36W / 121-840 Dulux F Lamp	25.00
N824	42W / 840 Dulux L Lamp	38.00
N825	70W 230 V Son/T Lamp For Compound Lighting	162.00
N826	150W Ditto	178.00
N827	Ballasts for 16W 2D lamp	10.00
N828	Ditto for 28W 2D lamp	10.00
N829	Ditto for 38W 2D lamp	10.00
N830	Capacitors for 16W 2D lamp	11.00
N831	Ditto for 28/38W 2D lamp	8.00
N832	Starters for 28/38W 2D lamp	2.50

'PHILIPS' LAMP AND FITTINGS
(EUROPE MAKE ONLY)

Supply and Fix

\$

PER NUMBER

N833	'Philips' 9W energy – effective 2u/3u SL lamps 240 volt with E27 or B22 base 8000hr life	9.00
N834	11 - 13W ditto	11.00
N835	15 - 18W ditto	16.00
N836	20 - 23W ditto	20.00
N837	9W E27 ES Lamp	9.00
N838	11W E27 ES Lamp	11.00
N839	'DL' 20W (18W) 590mm long fluorescent lamps on natural, warm white, white and cool day light	4.50
N840	'CW/WW' 20W (18W) 590mm long fluorescent lamps on natural, warm white, white and cool day light	4.50
N841	'DL' 40W (36W) 1200mm long ditto	4.50
N842	'CW/WW' ditto	4.50
N843	'DL/CW/WW' 65W (58W) 1500mm long ditto	9.00
N844	'Atco' Ballasts for 16W 2D lamp	9.00
N845	Ditto for 28W 2D lamp	10.00
N846	Ditto for 38W 2D lamp	12.00

Supply
and Fix

\$

'VOSLOH / TRIDONIC ATCO'
EUROPE MAKE BALLASTS FOR
PL-S AND PL-C LAMPS 240V – 50HZ
PER NUMBER

N847	10 -18W	65.00
N848	1 - 2 x 26W	71.00

'QUICKTRONIC' BALLASTS

PER NUMBER

N849	R De Luxe HF 2 x 36	98.00
N849A	R De Luxe HF 2 x 42	98.00

ELECTRONIC BALLASTS

PER NUMBER

N850	2 x 36W	98.00
N850A	2 x 42W	98.00

STARTER

PER NUMBER

N851	ST 171	2.50
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LAMP HOLDERS

Supply
and Fix

\$

PER NUMBER

N852	Lock ring for lamp holders	10.00
N853	Brass lamp holder any type	10.00
N854	Brackets, tubular, comprising flange plate and nipple and 20mm diameter tubing bent to shape required, all galvanised not exceeding 455mm projection	15.00
N855	Ditto exceeding 455mm and not exceeding 610mm projection	20.00
N856	Brackets, corner fittings, comprising 20mm diameter tubing bent to shape required not exceeding 455mm projection	25.00
N857	Ceiling rose	13.00
N858	Lampholder for compact single ended fluorescent lamps PL-S 5, PL-S 7, PL-S 9 and PL-S 11	15.00
N859	Lampholder for 16W 2D 2 pin lamp	15.00

N860	Lampholder for 16W 2D 2 pin pendant type	15.00
N861	Ditto for 28/38W 2D 4 pin type	28.00
N862	IP 55 weatherproof lamp holders	35.00
N863	Lamp holders, plastic, BC, SC of HO type, CG	10.00
N864	Ditto, spring type for bi-pin single and double fluorescent tube	7.00

SHADES, GLOBES, WALL-GLASS, ETC.

Supply and Fix

\$

PER NUMBER

N865	Shade, plastic, translucent, white, 150mm coolican pattern or equal suitable for 60W lamp	4.60
N866	Ditto 230mm ditto	6.60
N867	Shade, plastic, translucent, white, 280mm coolican pattern or equal suitable for 100W lamp	8.60
N868	Globe glass, translucent white opal, sphere 205mm suitable for pendant	18.00
N869	Ditto 255mm	21.00
N870	Globe glass, translucent white opal, 150mm diameter screw neck	21.00
N871	Ditto 205mm ditto	21.00
N872	Wall glass, clear 110mm rim x 100mm x 190mm long with rubber channel washer in complete set	43.00
N873	Bulkhead glass front, prismatic type light fittings for 40/60W lamp	17.20
N874	Ditto but suitable for 100W lamp	27.20
N875	Polycarbonate front, prismatic type light fittings for 40/60W lamp	34.20
N876	Ditto but suitable for 100W lamp	34.20

PER LINEAR METRE

N877	Brass chain for lighting fittings, chromium plated 20mm oval link with
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	chromium plated, 20mm oval link with brazed ends	25.00
N878	Steel chain, left bright, for lighting fittings, 20mm oval link with welded ends	20.00

MISCELLANEOUS

Supply
and Fix

\$

PER NUMBER

N879	3, 5 or 13 Amp cartridge fuse (for 3-pin 13 Amp fused plug) as ordered	4.50
N880	Rubber sealing ring and retaining ring, with fixing screws for wall glass fittings	25.00
N881	Gasket for retaining flange to bulkhead fittings	25.00

PER PAIR

N882	Galvanised steel suspension chain, not exceeding 915mm long including ceiling hooks, drilled plugged and screwed to concrete beam or slab, suitable for carrying a 1525mm fluorescent light fittings	20.00
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PER SET

N883	Galvanised steel suspension rods, not exceeding 915mm long, cutting to length, threading, screwing to and including ceiling plate, drilled, ditto	25.00
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PER NUMBER

N884	Starter unit for 20, 30 and 40W fluorescent lighting fittings	3.50
N885	Ditto for 65, 80W ditto	5.50
N886	Choke or ballast for 20, 30 and 40W ditto	25.00
N887	Ditto for 65, 80 ditto	39.00
N888	'Legrand' 75mm ² line tape	45.00
N889	8W fluorescent tube	11.00
N890	Starter unit for 8W fluorescent light fittings	3.70
N891	Choke or Ballast unit for 8W fluorescent light fittings	16.00

MISCELLANEOUSSupply
and Fix

\$

PER NUMBER

N892	30W E27/E40 base LED lamp with Die- cast aluminium body heavy duty type	153.00
N893	Ditto but 70w	280.00
N894	Ditto but 100w	360.00

FLEXIBLE CORDS**PER LINEAR METRE**

N895	0.5mm2 Twin core PVC sheathed flexible cord (14/.0076)	1.50
N896	0.75mm2 Ditto (23/.0076)	2.00
N897	1.5mm2 Ditto (40/.0076)	3.00
N898	0.75mm2 Three cores PVC sheathed flexible cord (23/.0076)	3.00
N899	1.5mm2 Ditto (40/.0076)	4.00
N900	2.5mm2 Ditto (70/.0076)	5.00
N901	2 cores 2.5mm2 twin flat PVC/PVC cable including clips	3.00

'CLIPSAL' WEATHERPROOF SWITCHES RECESSED IN WALL**PER NUMBER**

N902	20 A double poles weatherproof switch as per model WHD20	58.00
N903	35 A Ditto as per model WHD35	98.00
N904	60 A Ditto as per model WHD63	160.00
N905	20 A three poles as per model WHT20	70.00

'CLIPSAL' WEATHERPROOF SWITCHES RECESSED IN WALL

Supply and Fix

\$

PER NUMBER

N906	35 A Ditto as per model WHT35	110.00
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N907 60 A Ditto as per model WHT63 180.00

'LG' CONTACTORS

N908 25 Amp Contactor 95.00

N909 32 Amp Contactor 135.00

N910 40 Amp Contactor 145.00

N911 50 Amp Contactor 185.00

N912 60 Amp Contactor 245.00

N913 80 Amp Contactor 285.00

N914 125 Amp Contactor 350.00

'TELEMECANIQUE' CONTACTORS

N915 25 Amp Contactor 102.00

N916 32 Amp Contactor 138.00

N917 40 Amp Contactor 151.00

N918 50 Amp Contactor 191.00

N919 60 Amp Contactor 256.00

N920 80 Amp Contactor 298.00

N921 125 Amp Contactor 356.00

**'PETREL' EXPLOSION PROOF
SOCKET COMPLETE WITH PLUG**

N922 13A 1 gang 1,300.00

N923 15A 1 gang 3,000.00

'CLIPSAL' OR 'LEGRAND'

Supply and Fix

**POLYCARBONATE
SWITCHES**

Flush Pattern	Surface Metal Clad Pattern	Surface Pattern
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\$	\$	\$
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PER NUMBER

N924 10 Amp one-way one gang 8.00 9.00 N/A

N925 10 Amp two-ways one gang 10.50 11.00 N/A

N926 10 Amp one-way two gangs 10.50 11.00 N/A

N927	10 Amp two-ways two gangs	12.50	14.00	N/A
N928	Ditto three-gangs	28.00	N/A	N/A
N929	Ditto four-gangs	35.50	N/A	N/A
N930	Ditto six-gangs	43.00	N/A	N/A
N931	Intermediate switch one gang	48.00	22.00	N/A
N932	Ceiling switch to BS 3676, plastic surface, 10 Amp SP AC one-way, single cord	38.00	N/A	17.50
N933	10 Amp switch, one-way, SP surface, weatherproof switch enclosed in CI switches and cover, 20mm conduit entry, rubber gasket, packing gland for operating spindle, milled disc or rotary handle operation, galvanised finish to 'Clipsal' WS226	N/A	N/A	45.00
N934	Ditto, two-ways, ditto to 'Clipsal' WS226	N/A	N/A	47.00

**'CLIPSAL' LP.55 SEAL
SURFACE MOUNTED
SPLASH – PROOF
SWITCHES TO BS 3676**

Supply and Fix

Flush Pattern	Surface Metal Clad Pattern	Surface Pattern
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\$	\$	\$
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PER NUMBER

N935	10 Amp One-way SP one-gang	N/A	N/A	25.00
N936	10 Amp Two-ways SP ditto	N/A	N/A	25.00
N937	10 Amp One-way SP two-gangs	N/A	N/A	35.00
N938	10 Amp One-way DP one-gang	N/A	N/A	45.00
N939	10 Amp One-way marked "pressed" one-gang	N/A	N/A	40.00
N940	15 Amp one-way, one-gang	20.00	40.00	N/A
N941	15 Amp two-ways, ditto	25.00	40.00	N/A

N942	Connection units double pole switched flush mounting to BS 5733:1979	20.00	35.00	N/A
N943	Ditto with flex outlet	25.00	40.00	N/A
N944	Ditto fitted with pilot lamp	20.00	40.00	N/A
N945	Ditto flex outlet and pilot lamp	25.00	45.00	N/A
N946	Connection units unswitched flush mounting to BS 5733:1979	20.00	35.00	N/A
N947	Ditto fitted with pilot lamp	25.00	N/A	N/A
N948	Ditto with flex outlet	25.00	40.00	N/A
N949	Ditto with flex outlet and pilot lamp	35.00	45.00	N/A
<u>'CLIPSAL' I.P.55 SEAL SURFACE MOUNTED SPLASH-PROOF SWITCHES TO BS 3676</u>		<u>Supply and Fix</u>		
		Flush Pattern	Surface Metal Clad Pattern	Surface Pattern
		\$	\$	\$
	<u>PER NUMBER</u>			
N950	20 Amp DP switches flush mounting to BS 3676:1963	20.00	35.00	20.00
N951	Ditto fitted with pilot lamp	20.00	35.00	20.00
N952	Ditto fitted with pilot lamp and marked "water heater"	25.00	N/A	N/A
N953	Ditto with flex outlet	25.00	40.00	N/A
N954	Ditto with flex outlet and pilot lamp	25.00	40.00	N/A
N955	20 Amp Dual switch flush mounting for controlling dual immersion heaters	40.00	60.00	N/A
N956	45 Amp DP switches moulded to BS 3676:1963	45.00	65.00	75.00
N957	Ditto moulded fitted with pilot lamp	45.00	65.00	75.00
N958	Automatic control switch surface motion sensor	N/A	N/A	250.00

N959	Eye photocell daylight switch	N/A	N/A	185.00
N960	25-30A Power control contactor complete with timer switch (digital)	N/A	N/A	330.00
N961	Ditto but with self control 24 hours timer switch (digital)	N/A	N/A	330.00
N962	'Greenland' splash proof twin socket outlet complete with cover	N/A	N/A	92.00

'CLIPSAL'OR 'LEGRAND'

Supply and Fix

POLYCARBONATE SWITCHES WITH

COLOUR LED SWITCH PER NUMBER

	Flush	Surface Metal Clad	Surface
	Pattern	Pattern	Pattern
	\$	\$	\$

N963	10 Amp one-gang one-way switch complete with Blue Led, Grey Silver	10.80	N/A	10.80
N964	10 Amp one-gang two-way switch complete with Blue Led, Grey Silver	21.70	N/A	21.70
N965	10 Amp two-gang one-way switch complete with Blue Led, Grey Silver	15.50	N/A	15.50
N966	10 Amp three-gang one-way switch complete with Blue Led, Grey Silver	19.10	N/A	19.10
N967	10 Amp three-gang three-way switch complete with Blue Led, Grey Silver	29.00	N/A	29.00
N968	10 Amp four-gang one-way switch complete with Blue Led, Grey Silver	29.50	N/A	29.50

'MK' POLYCARBONATE SWITCHES

PER NUMBER

N969	10 Amp one-way one gang switch	N/A	N/A	5.00
N970	10 Amp two-ways one gang switch	N/A	N/A	7.00

N971	Intermediate switch one gang	N/A	N/A	19.00
<u>'BRITMAC' UNDERFLOOR ELECTRICAL SERVICE METAL TYPE PER NUMBER</u>				Supply and Fix \$

N972	Underfloor electrical service outlet size 230mm x 320mm x 150mm width metal type			132.00
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N973	Underfloor electrical service outlet size 300mm x 300mm x 150mm width metal type			80.00
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Supply and Fix

COOKER CONTROL UNITS

Flush Pattern	Surface Metal Clad Pattern	Surface Pattern
\$	\$	\$

PER NUMBER

'CLIPSAL' OR 'LEGRAND' COOKER CONTROL UNITS TO COMPLY WITH BS 4177:1967

N974	45 Amp DP main switch and 13 Amp socket outlet metal	40.00	N/A	40.00
N975	Connector unit for electric cookers to BS 5733:1979 to 'Clipsal' E554	20.00	N/A	N/A
N976	45 Amp DP switches comply with BS 3676:1963 moulded	35.00	N/A	N/A
N977	Ditto moulded marked "cooker"	40.00	N/A	40.00
N978	Ditto moulded fitted with pilot lamp	40.00	N/A	40.00
N979	Ditto moulded fitted with pilot lamp and marked "cooker"	40.00	N/A	40.00

PLUGS AND SOCKET OUTLETS

Supply and Fix
\$

The rates for plugs and socket outlets with plugs include for connecting plugs to appliances, etc. If not connected, one half of the rates in the column for "Fixing Only" plugs will be deducted.

**'LEGRAND' OR 'CLIPSAL' PLUGS
PER NUMBER**

N980	15 Amp 3-pin	6.00
N981	13 Amp 3-pin, fused	6.00
N982	5 Amp 3-pin	5.00
N983	2 Amp 3-pin	7.00
N984	2 Amp 2-pin for bell push	8.00
N985	For clock connector, fused	12.00

**'KHIND' PLUGS
PER NUMBER**

N986	13 Amp 3-pin, fused	7.60
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**'LEGRAND' PLUG ONLY,
MOULDED RUBBER**

N987	15 Amp 3-pin	15.00
N988	13 Amp 3-pin, fused	12.00
N989	5 Amp 3-pin	9.00

**'PERMAPLUG' (UK) PLUGS
ONLY, MOULDED RUBBER**

Supply and Fix

\$

PER NUMBER

N990	13 Amp 3-pin, fused	6.60
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**PLUG WITH PILOT LIGHT AS
WALSALL TYPE OR OTHER
EQUIVALENT TYPE**

N991	15 Amp 3-pin	10.00
N992	13 Amp 3-pin	8.00

N993	5 Amp 3-pin	6.00
N994	'Khind/Man' 13 Amp 3-pin	3.60

RECESSED IN TO WALL

PER NUMBER

**'Clipsal' or 'Legrand' Switch
Socket Outlets, Shuttered Type
Polycarbonate Flush Pattern
Including Mounting Boxes**

N995	15 Amp	12.00
N996	13 Amp	9.00
N997	5 Amp	11.00
N998	2 Amp	13.00
N999	2 Amp 2-pin	11.00

**'Clipsal' or 'Legrand' Switch
Socket Outlets, Shuttered Type
Metal Clad Pattern Including
Mounting Boxes**

N1000	15 Amp	25.00
N1001	13 Amp	15.00
N1002	5 Amp	20.00

PER NUMBER

Supply
and Fix

\$

**'UMS m/c' Switch Socket Outlets,
Shuttered Type Metal Clad Pattern
Including Mounting Boxes**

N1003	13 Amp	13.00
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**'Clipsal' or 'Legrand' Switch
Socket Outlets, Shuttered Type
Polycarbonate Flush Pattern
Including Mounting Boxes With
Pilot Lamp**

N1004	13 Amp	13.00
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**'Clipsal' or 'Legrand' Switch
Socket Outlets, Shuttered Type
Metal Clad Pattern Including
Mounting Boxes With Pilot Lamp**

N1005	13 Amp as per model ESM15N	23.00
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RECESSED IN TO WALL
PER NUMBER

'CLIPSAL' or 'LEGRAND' twin
switch socket outlets, shuttered type
flush pattern polycarbonate
including mounting boxes

N1006	13 Amp as per model E25	16.50
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N1007	13 Amp with pilot lamp model E25N	29.50
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'CLIPSAL' or 'LEGRAND' twin
switch socket outlets, shuttered type
metal clad pattern including
mounting boxes

N1008	13 Amp as per model ESM25	28.00
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N1009	13 Amp with pilot lamp as per model ESM25N	49.50
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'CLIPSAL' or 'LEGRAND' shaver
supply units

Supply and Fix

\$

PER NUMBER

N1010	Shaver supply units comply with BS 3052:1958 flush mounting dual voltage, fitted with pilot lamp as per model 727 (mounting boxes measured separately)	80.00
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SURFACE FIXED

'CLIPSAL' or 'LEGRAND' switch
socket outlets, shuttered type
polycarbonate flush pattern
including mounting boxes

N1011	15 Amp	11.50
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N1012	13 Amp	8.50
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N1013	5 Amp	10.50
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N1014	2 Amp	12.50
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N1015	2 Amp 2-pin	10.50
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**'CLIPSAL' or 'LEGRAND' switch
socket outlets, shuttered type metal
clad pattern including mounting boxes**

N1016	15 Amp	27.50
N1017	13 Amp	17.50
N1018	5 Amp	22.50

PER NUMBER

Supply
and Fix

\$

**'CLIPSAL' or 'LEGRAND' switch
socket outlets, shuttered type
polycarbonate flush pattern
including mounting boxes with pilot lamp**

N1019	13 Amp	22.50
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**'CLIPSAL' or 'LEGRAND' switch
socket outlets, shuttered type metal
clad pattern including mounting
boxes with pilot lamp**

N1020	13 Amp as per model ESM15N	22.50
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**'CLIPSAL' or 'LEGRAND' twin
switch socket outlets, shuttered type
polycarbonate flush pattern
including mounting boxes**

N1021	13 Amp as per model E25	25.50
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N1022	13 Amp with pilot lamp as per model E25N	38.50
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SURFACE FIXED

PER NUMBER

**'CLIPSAL' or 'LEGRAND' twin
switch socket outlets, shuttered type
metal clad pattern including
mounting boxes**

N1023	13 Amp as per model ESM25	31.50
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N1024	13 Amp with pilot lamp ESM25N	48.50
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**'UMS' twin switch socket outlets,
shuttered type metal clad pattern
including mounting boxes**

N1025	13 Amp	23.50
	<u>'CLIPSAL' or 'LEGRAND' shaver supply units</u>	Supply and Fix
		\$

PER NUMBER

N1026	Shaver supply units comply with BS 3052:1958 flush mounting dual voltage, fitted with pilot lamp as per model 727 (mounting boxes measured separately)	79.00
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**'CLIPSAL' Weather / Splash proof
socket outlets**

N1027	Weather/splash proof 13 Amp socket outlet complete with plug top as per model 56C313/56P313	95.00
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**'LEGRAND' Trunking and Panel
mounting socket outlets**

N1028	Trunking and panel mounting 13 Amp socket outlets one-gang cruciform	55.00
N1029	Ditto but one-gang circular	50.00
N1030	Trunking and panel mounting 13 Amp switch socket outlets one-gang SP switch	45.00
N1031	Ditto but two-gangs SP switch	60.00

SURFACE FIXED

PER NUMBER

**'CLIPSAL' or 'LEGRAND'
dimmer switches**

N1032	Dimmer switch, 500W maximum with 10 Amp two-ways switch fuse protected	28.00
N1033	Ditto 1000W maximum	240.00
	<u>SURFACE FIXED</u>	Supply and Fix

PER NUMBER

\$

'CLIPSAL' or 'LEGRAND'
dimmer switches

N1034	Touch dimmer switch master control fuse protected 400W maximum, 60W minimum	210.00
N1035	Ditto but extension control	180.00
N1036	Surface mounting dimmer unit 2.5KW maximum 350W minimum with double pole switch fuse protected of high power type	450.00
N1037	Ditto 3.5KW maximum 400W minimum with double pole switch and two-ways switch to allow direct switching to full brightness fuse protected of high power type	600.00

'CLIPSAL' or 'LEGRAND' flame proof switches

N1038	Flame proof trimble lighting switches 5A-10A with 3 pins	250.00
N1039	Ditto, 5A-10A with 4 pins	350.00

'PETREL' flame proof switches

N1040	Flame proof industrial switch socket outlet, 32A with 4 pins complete with plug	1,600.00
N1041	Ditto 63A with 5 pins complete with plug	3,200.00

Photocells

105.00

N1042	'Lumina' photocells to model AS2406
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'CLIPSAL' or 'LEGRAND' TV Co-axial socket outlets moulded

Supply and Fix

\$

PER NUMBER

N1043	Single outlet surface	77.50
N1044	Ditto flush	77.50

N1045	Double outlet surface	96.00
N1046	Ditto flush	96.00

'CLIPSAL' or 'LEGRAND'
Isolated TV / FM Co-axial socket
outlets moulded

N1047	Isolated single outlet surface	80.00
N1048	Ditto flush	80.50

SURFACE FIXED

'CLIPSAL' or 'LEGRAND'
Isolated TV / FM Co-axial socket
outlets moulded

N1049	Isolated double outlet surface	81.00
N1050	Ditto flush	81.50

'CLIPSAL' or 'LEGRAND' RJ11
Telephone cord outlets flush
mounting moulded

N1051	Single outlet	100.00
N1052	Double outlet	138.00

'CLIPSAL' or 'LEGRAND' RJ11
Telephone cord outlets surface
mounting

N1053	Single outlet	100.00
N1054	Double outlet	138.00

SURFACE FIXED

Supply
and Fix

PER NUMBER

\$

'CLIPSAL' or 'LEGRAND' fused
clock connectors fitted with 2
Amp SP cartridge fuse-link to BS 1362

N1055	Flush mounting with recessed fuse carrier E31 + 30FS	15.00
N1056	Surface mounting	15.00
N1057	Ditto earthing facilities for small circular conduit boxes to BS 4568	19.00

**'MK / TENBY / ABB' fused clock
connectors fitted with 2 Amp SP
cartridge fuse-link to BS 1362**

N1058	Flush mounting with recessed fuse carrier	10.00
N1059	Surface mounting	10.00

**'CLIPSAL' or 'LEGRAND' Flex
outlet plate moulded**

N1060	Unfused	8.50
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**'CLIPSAL' or 'LEGRAND' blank
plates moulded**

N1061	One-gang	5.00
N1062	Two-gangs	8.00
N1063	One-gang for architrave boxes	10.00
N1064	Two-gangs ditto	15.00
N1065	Circular 67mm diameter moulded	6.00
N1066	Ditto 83mm ditto	9.00

Steel blank plates for surface boxes

N1067	One-gang	10.00
N1068	Two-gangs	15.00

**Neon Locator – use for location of
switches in dark situations**

Supply and Fix

\$

PER NUMBER

N1069	Neon 200-250 volts A/C only	12.50
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BOXES

**Surface mounting boxes moulded
to suit:**

N1070	5 Amp flush lighting plate-switch one, two and three gangs	3.60
N1071	5 Amp ditto four and six gangs	3.60
N1072	13 Amp flush switch socket outlet	4.60
N1073	13 Amp ditto – twin	4.60
N1074	5 Amp surface switch socket outlet	3.60

N1075	13 Amp ditto	3.60
N1076	13 Amp ditto – twin	4.60
N1077	15 Amp surface switch socket outlet	3.60
N1078	Switch shaver socket dual voltage deep type	13.60

**Metal boxes only made to BS 4662
flush pattern**

N1079	One-gang, 40mm deep	3.80
N1080	Two-gangs, 40mm deep	3.80
N1081	Shaver, socket or 45 Amp DP switch, upright, 47mm deep	14.00
N1082	Cooker control unit, 55mm deep	14.00

**STEEL TRUNKING AND
LIGHTING TRUNKING**

Supply and Fix

§

**Supply and install the following
sizes of steel trunking complete
with all necessary suspension rods,
brackets or framework, bends,
adaptors and all other accessories
as necessary, including painting
(normal type)**

PER LINEAR METRE

N1083	51mm x 25mm	10.00
N1084	51mm x 51mm	11.10
N1085	51mm x 76mm	13.70
N1086	51mm x 102mm	16.30
N1087	76mm x 76mm	17.90
N1088	76mm x 102mm	20.30

Ditto but G20 type

PER LINEAR METRE

N1089	51mm x 25mm	13.40
N1090	51mm x 51mm	15.70
N1091	51mm x 76mm	18.70
N1092	51mm x 102mm	21.30
N1093	76mm x 76mm	22.90

N1094	76mm x 102mm	25.50
N1095	102mm x 102mm	29.10
N1096	152mm x 51mm	29.10
N1097	152mm x 76mm	33.10
N1098	152mm x 102 mm	36.90
N1099	203mm x 51mm	39.10
N1100	203mm x 76mm	42.10
N1101	203mm x 102mm	46.30

**STEEL TRUNKING AND
LIGHTING TRUNKING**

Supply and Fix

\$

**Supply and install the following
sizes of steel trunking complete
with all necessary suspension rods,
brackets or framework, bends,
adaptors and all other accessories
as necessary, including painting
(G18 type)**

PER LINEAR METRE

N1102	51mm x 25mm	16.20
N1103	51mm x 51mm	19.90
N1104	51mm x 76mm	23.10
N1105	51mm x 102mm	25.90
N1106	76mm x 76mm	27.50
N1107	76mm x 102mm	30.70
N1108	102mm x 102mm	35.90
N1109	152mm x 51mm	35.90
N1110	152mm x 76mm	40.10
N1111	152mm x 102mm	44.30
N1112	203mm x 51mm	46.30
N1113	203mm x 76mm	50.90
N1114	203mm x 102mm	54.90
N1115	254mm x 102mm	64.50
N1116	305 mm x 102 mm	71.90

CABLE TRAYS

Supply
and Fix

\$

PER LINEAR METRE

Supply and install the following sizes of galvanised or PVC – coated perforated, steel cable trays, including all necessary m.s. suspension brackets or framework, bends, reducers, adaptors and all other accessories, including painting (for galvanised trays only), for complete installation to be effected

Galvanised (normal type)

N1117	51mm wide	13.30
N1118	76mm wide	17.40
N1119	102mm wide	19.65
N1120	152mm wide	27.05
N1121	254mm wide	34.70
N1122	305mm wide	40.70
N1123	355mm wide	51.70

Ditto but Galvanised (G20)

N1124	51mm wide	14.30
N1125	76mm wide	19.40
N1126	102mm wide	22.40
N1127	152mm wide	30.55
N1128	203mm wide	37.70
N1129	254mm wide	76.70

Ditto but Galvanised (G18 1.0mm thick)

N1130	51mm wide	18.30
N1131	76mm wide	24.40
N1132	102mm wide	26.40

CABLE TRAYS

Supply
and Fix

\$

PER LINEAR METRE

Supply and install the following sizes of galvanised or PVC – coated perforated, steel cable trays, including all necessary m.s. suspension brackets or framework, bends, reducers, adaptors and all other accessories, including painting (for galvanised trays only), for complete installation to be effected

Galvanised (G18 1.0mm thick)

N1133	152mm wide	39.05
N1134	203mm wide	43.20
N1135	254mm wide	52.20
N1136	305mm wide	64.20
N1137	355mm wide	78.50
N1138	381mm wide	89.85
N1139	407mm wide	74.15

Ditto but Galvanised (G18 1.2mm thick)

N1140	51mm wide	24.30
N1141	76mm wide	32.40
N1142	102mm wide	35.40
N1143	152mm wide	46.05
N1144	203mm wide	53.70
N1145	254mm wide	67.20
N1146	305mm wide	78.70
N1147	355mm wide	94.50
N1148	381mm wide	99.85
N1149	407mm wide	107.65
N1150	457mm wide	115.50

CABLE TRAYS

Supply
and Fix

\$

PER LINEAR METRE

Supply and install the following sizes of galvanised or PVC – coated perforated, steel cable trays, including all necessary m.s. suspension brackets or framework, bends, reducers, adaptors and all other accessories, including painting (for galvanised trays only), for complete installation to be effected

Galvanised (G18 1.2mm thick)

N1151 508mm wide 130.90

N1152 610mm wide 151.50

Ditto but Galvanised (G16)

N1153 51mm wide 26.30

N1154 76mm wide 35.90

N1155 102mm wide 42.40

N1156 152mm wide 59.05

N1157 203mm wide 70.20

N1158 254mm wide 86.20

N1159 305mm wide 102.20

N1160 355mm wide 117.00

N1161 381mm wide 130.85

N1162 407mm wide 144.65

N1163 457mm wide 153.00

N1164 508mm wide 165.90

N1165 610mm wide 194.00

CABLE TRAYS

Supply
and Fix

\$

PER LINEAR METRE

Supply and install the following sizes of galvanised or PVC – coated perforated, steel cable trays, including all necessary m.s. suspension brackets or framework, bends, reducers, adaptors and all other accessories, including painting (for galvanised trays only), for complete installation to be effected

PVC coated

N1166	51mm wide x 16 SWG	16.40
N1167	76mm wide x 16 SWG	19.70
N1168	100mm wide x 16 SWG	22.95
N1169	150mm wide x 16 SWG	26.25
N1170	205mm wide x 16 SWG	32.80
N1171	255mm wide x 16 SWG	36.10
N1172	305mm wide x 16 SWG	45.90
N1173	380mm wide x 14 SWG	85.30
N1174	455mm wide x 14 SWG	105.00
N1175	610mm wide x 14 SWG	124.65
N1176	760mm wide x 14 SWG	154.15

**CABLE-ENTRY DUCTS AND
ROAD-CROSSING DUCTS**

Supply and Fix

\$

PER LINEAR METRE

Rates quoted shall be for cable entry ducts to buildings, comprising PVC, pitch-fibre or earthenware ducts of sizes stated below, including all necessary trenching in ground, breaking-up and reinstatement of R.C. floors, provision of cable draw-wires and sealing-up of ducts (including "spare" ducts) after cables have been laid in position

N1177	1 No 100mm diameter duct	19.70
N1178	2 Nos ditto, laid in parallel	39.35
N1179	3 Nos ditto, ditto	55.75
N1180	4 Nos ditto, ditto	72.15
N1181	1 No 150mm diameter duct	75.90
N1182	2 Nos ditto, laid in parallel	82.00

N1183	3 Nos ditto, ditto	121.35
N1184	4 Nos ditto, ditto	160.70

CABLE-ENTRY DUCTS AND ROAD-CROSSING DUCTS

Supply and Fix

\$

PER LINEAR METRE

Rates quoted shall be for road-crossing cable ducts comprising GI pipes of diameter as stated below and laid not less than 3'0" below finished road surfaces.

Rates shall also include for the trenching across roads and under road-side drains to lay ducts, the reinstatement of bitumen road surfaces and the provision of cable draw-wires through ducts

N1185	1 No 100mm diameter duct	22.95
N1186	2 Nos ditto, laid in parallel	39.35
N1187	3 Nos ditto, ditto	55.75
N1188	4 Nos ditto, ditto	72.15
N1189	1 No 150mm diameter duct	75.90
N1190	2 Nos ditto, laid in parallel	85.30
N1191	3 Nos ditto, ditto	124.65
N1192	4 Nos ditto, ditto	150.00

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of m.s. columns or poles, complete with galvanised iron mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with 6 KA MCB (one cut-out per lighting fittings installed one pole or column), internal PVC/PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings, 'CASTELL' type locks on weatherproof compartment doors, including planting of poles / columns in ground with concrete base-filling flange mounted with manufacturer's J-screws, bolts and nuts to effect complete installations (Lighting fittings and their relevant H.P.M.V. control gear separately measured)

N1193 5.11m high 'Galvapole' (total length) tapered octagonal road lighting m.s. column for one road lighting lantern hot dipped galvanised pole 610mm x 610mm x 3mm thick m.s. plate backboard control gear, 15 ASP and cut-offs fitted with 6KA MCB and 915mm x 915mm x 455mm thick concrete foundation 935.00

N1194 Ditto but for one road lighting lantern and one flood lighting fittings 1130.00

N1195 Car-park lighting as before described for one lighting lantern 935.00

N1196 Ditto but for two car-park lighting lanterns 925.00

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of m.s. columns or poles, complete with galvanised iron mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with 6KA MCB (one cut-out per lighting fittings installed one pole or column), internal PVC / PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings, 'CASTELL' type locks on weatherproof compartment doors, including planting of poles / columns in ground with concrete base-filling flange mounted with manufacturer's J-screws, bolts and nuts to effect complete installations (Lighting fittings and their relevant H.P.M.V. control gear separately measured)

N1197 5.11m high 'Galvapole' (total length) tapered octagonal road lighting m.s. column for one flood lighting fitting hot dipped galvanised pole 610mm x 610mm x 3mm thick
m.s. plate backboard control gear, 15 ASP and cut-offs fitted with 6KA MCB and 915mm x 915mm x 455mm thick concrete foundation

935.00

N1198 Ditto but for two (2) flood lighting fittings

1115.00

N1199 Ditto but for four (4) flood lighting fittings

1650.00

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of m.s. columns or poles, complete with galvanised iron mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with 6 KA MCB (one cut-out per lighting fittings installed one pole or column), internal PVC/PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings, 'CASTELL' type looks on weatherproof compartment doors, including planting of poles/columns in ground with concrete base-filling flange mounted with manufacturer's J-screws, bolts and nuts to effect complete installations (Lighting fittings and their relevant H.P.M.V. control gear separately measured)
'GALVAPOLE'
HOT DIPPED GALVANISED
PER NUMBER

N1200	8m root mounted column	1300.00
N1201	ditto but flange mounted column	1650.00
N1202	single arm, 1.50m out reach	540.00
N1203	ditto, 2.00m out reach	595.00
N1204	ditto, 2.50m out reach	655.00
N1205	double arm, 1.50m span	880.00

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of aluminium columns or poles, complete with hardwood mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with HRC fuse-links (one cut-out per lighting fittings installed one pole or column), internal PVC / PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings (Lighting fittings and their relevant H.P.M.V. control gear separately measured), 'CASTELL' type locks on weatherproof compartment doors, including planting of poles/columns in ground with concrete base-filling to effect complete installations

THORN

GROUP 'B' ALUMINIUM COLUMNS PER NUMBER

N1206	5metre lucerna column twelve sided with tapped top casting for use with bracket or spigot (QCO)	2,195.00
N1207	Ditto but surface mounting with flange plate (QCO FP)	2,354.00
N1208	Ditto sheerline column hexagonal section with tapped top casting for use with bracket or spigot (QC 3)	2,195.00
N1209	Ditto but surface mounting with flange plate (QC 3 FP)	2,354.00

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of aluminium columns or poles, complete with hardwood mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with HRC fuse-links (one cut-out per lighting fittings installed one pole or column), internal PVC / PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings (Lighting fittings and their relevant H.P.M.V. control gear separately measured), 'CASTELL' type locks on weatherproof compartment doors, including planting of poles/columns in ground with concrete base-filling to effect complete installations

THORN

GROUP 'B' ALUMINIUM COLUMNS PER NUMBER

N1210	5m lucerna column sixteen sided section with tapped top casting for use with bracket or spigot (QC 50)	2,354.00
N1211	Ditto but surface mounted with flange plate (QC 50 FP)	2,514.00
N1212	60mm spigot castings are threaded 34mm to screw in to the standard column top for post top lantern mounting all as per thorn cat no (QCS 60)	157.80
N1213	76mm spigot castings ditto (QCS 78)	157.80

ROAD LIGHTING AND FLOOD LIGHTING SYSTEMS

Supply and Fix

\$

Supply and install the following types of aluminium columns or poles, complete with hardwood mounting boards inside control gear compartments, loop-in-and-out cables boxes (or terminal boxes for end-poles), 'Neutral' connector protective cut-outs with HRC fuse-links (one cut-out per lighting fittings installed one pole or column), internal PVC / PVC cable wiring between cut-outs, H.P.M.V. control gear and lighting fittings (Lighting fittings and their relevant H.P.M.V. control gear separately measured), 'CASTELL' type locks on weatherproof compartment doors, including planting of poles / columns in ground with concrete base-filling to effect complete installations

THORN

GROUP 'B' ALUMINIUM COLUMNS PER NUMBER

N1214	Doors for replacement fitted with QCO column as per cat no (QCD 0)	353.40
N1215	Ditto for QC 3 column (QLCD 3)	337.45
N1216	Single floodlight mounting brackets (QFB OT)	305.60
N1217	Double floodlight mounting brackets (QFB 2)	421.00
N1218	Triple floodlight mounting brackets (QFB 3)	457.00

STREET LIGHTING

Supply
and Fix

PER NUMBER

\$

N1219 'GE' or 'SYLVANIA' lantern (side entry) in one piece canopy in die-cast aluminium. Galvanised Iron gear tray supports the integral control gear. The borosilicate bowl is hinged to the

	corrosinate bowl is hinged to the canopy and secured with a toggle, including gear for 70W SON-T lamp and 70 W SON-T lamp all as per cat no MZRR70	580.00
N1220	'GE' or 'SYLVANIA' lantern (side entry) with pressure die-cast aluminium alloy canopy and injection moulded bowl, vandal-resistant, is pivoted at the mounting end and secured with a stainless steel toggle catch complete with 150W SON lamp and gear all as per cat no. MZRR	600.00
N1221	'GE' or 'SYLVANIA' post top mounted luminaire with large top canopy. The base support is pressure die cast aluminium and carries the control gear. The bowl is vandal-resistant and injection moulded in clear or opal and base assembly with 70W SON lamp and gear	650.00
N1222	Ditto but base assembly with 80W MBF gear and including 80W MBF lamp all as per cat model for Cosmopolitan Series	650.00
N1223	Ditto but base assembly with 125W MBF gear and including 125W MBF lamp all as per cat model for Cosmopolitan Series	670.00
<u>STREET LIGHTING</u>		Supply and Fix
<u>PER NUMBER</u>		\$
N1224	'GE' or 'SYLVANIA' post top mounted luminaire with large top canopy. The base support is pressure die cast aluminium and carries the control gear. The bowl is vandal-resistant and injection moulded in clear or opal and base assembly with 50W SON gear and including 50W SON lamp all as per cat model for Cosmopolitan series	670.00
N1225	Ditto but base assembly with 70W SON gear and including 70W SON lamp all as per cat model for Cosmopolitan series	670.00

N1226	‘Gruppe’ lantern (side entry) with pressure die-cast aluminium alloy canopy and injection moulded bowl, vandal-resistant, is pivoted at the mounting end and secured with a stainless steel toggle catch complete with 150W SON lamp and gear	545.00
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N1227	Ditto 250W	568.00
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‘GE’ OR ‘OSRAM’ DISCHARGE LAMPS PER NUMBER

N1228	18W thorn SOX lamp	50.00
N1229	35W ditto	60.00
N1230	55W ditto	80.00
N1231	90W ditto	120.00
N1232	135W ditto	150.00
N1233	26W SOX-E lamps (35W)	56.00

‘GE’ OR ‘OSRAM’ DISCHARGE LAMPS

Supply and Fix

\$

PER NUMBER

N1234	36W SOX-E lamps (55W)	160.00
N1235	66W ditto (90W)	220.00
N1236	91W ditto (135W)	250.00
N1237	50W SON-E or T lamps	130.00
N1238	70W ditto	130.00
N1239	100W SON-E or T lamps	155.00
N1240	150W ditto	165.00
N1241	250W ditto	218.00
N1242	400W ditto	258.00
N1243	1000W ditto	286.00
N1244	250W SON-TD high pressure sodium lamps	

	– linear	236.00
N1245	400W ditto	266.00
N1246	50W MBF high pressure mercury lamps	55.00
N1247	80W ditto	55.00
N1248	125W ditto	80.00
N1249	250W ditto	100.00
N1250	400W ditto	150.00
N1251	600W ditto	250.00
N1252	1000W ditto	350.00

‘GE’ OR ‘OSRAM’ DISCHARGE LAMPS

Supply and Fix

\$

PER NUMBER

N1253	250 W metal Halide HQI-E or T lamps	180.00
N1254	400 W ditto	220.00
N1255	1000 W ditto	300.00
N1256	400 W ditto (but clear type)	280.00
N1257	1000 W ditto	300.00
N1258	750 W ditto	500.00
N1259	1500 W ditto	900.00

‘VOSSLOH’ OR ‘TRIDONIC ATCO’ CONTROL GEARS

Discharge lamp control gears for discharge lamps 240V 50 Hz supplies designed for building in to remote gear boxes, control gear cubicles, luminaries and the base compartment of street lighting columns complete with ballast and capacitor etc.

For MBF lamps (MBF/U, MBFSD/U, MBFR)

PER NUMBER

N1260	50W Thorn MBF lamps (HCI)	110.00
N1261	80W ditto	130.00

N1262	125W ditto	145.00
N1263	250W ditto	220.00
N1264	400W ditto	295.00
N1265	700W ditto	350.00
N1266	1000W ditto	600.00

'VOSSLOH' OR 'TRIDONIC ATCO'
CONTROL GEARS

Supply and Fix

\$

PER NUMBER

Discharge lamp control gears for discharge lamps 240V 50 Hz supplies designed for building in to remote gear boxes, control gear cubicles, luminaries and the base compartment of street lighting columns complete with ballast and capacitor etc.

Ditto for metal lamps (MBI-T, MBIF, MBIL)

N1267	70/150W MBI-T lamp	170.00
N1268	250W MBIF lamp	180.00
N1269	400W ditto	250.00
N1270	1000W ditto	380.00
N1271	750W MBIL lamp	550.00
N1272	1500W ditto	1200.00

Ditto for SON lamps (SON-E, SON-T)

N1273	50W SON lamps	150.00
N1274	70W ditto	165.00
N1275	100W ditto	200.00
N1276	150W ditto	260.00
N1277	250W ditto	290.00
N1278	400W ditto	350.00
N1279	1000W ditto	550.00

'VOSSLOH' OR 'TRIDONIC ATCO' CONTROL GEARS

Supply and Fix

PER NUMBER

\$

Discharge lamp control gears for discharge lamps 240V 50 Hz supplies designed for building in to remote gear boxes, control gear cubicles, luminaries and the base compartment of street lighting columns complete with ballast and capacitor etc.

Ditto for SOX lamps

N1280	18W SOX lamps	65.00
N1281	35W ditto	85.00
N1282	55W ditto	95.00
N1283	90W ditto	130.00
N1284	135W ditto	190.00

'VOSSLOH' OR 'TRIDONIC ATCO' BALLASTS ONLY FOR DISCHARGE LAMPS

N1285	Ballasts for 50W MBF lamps	140.00
N1286	Ditto for 100W ditto	150.00
N1287	Ditto for 150W ditto	180.00
N1288	Ditto for 250W ditto	250.00
N1289	Ditto for 400W ditto	275.00
N1290	Ditto for 700W ditto	300.00
N1291	Ditto for 1000W ditto	450.00
N1292	Ditto for 150W MBI-T lamps	180.00
N1293	Ditto for 250W ditto	260.00
N1294	Ditto for 400W ditto	290.00
N1295	Ditto for 1000W ditto	480.00

'VOSSLOH' OR 'TRIDONIC ATCO' BALLASTS ONLY FOR DISCHARGE LAMPS

PER NUMBER

N1296	Ballasts for 750W MBIL lamps	500.00
N1297	Ditto for 1500W ditto	750.00
N1298	Ditto for 50W SON lamps	135.00
N1299	Ditto for 70W ditto	155.00
N1300	Ditto for 100W ditto	195.00

Supply and Fix

\$

N1301	Ballasts for 150W SON lamps	225.00
N1302	Ditto for 250W ditto	315.00
N1303	Ditto for 400W ditto	390.00
N1304	Ditto for 1000W ditto	550.00
N1305	Ditto for 18W SOX lamps	60.00
N1306	Ditto for 35W ditto	80.00
N1307	Ditto for 55W ditto	95.00
N1308	Ditto for 90W ditto	135.00
N1309	Ditto for 135W ditto	180.00

**'VOSSLOH' OR 'TRIDONIC
ATCO' IGNITOR ONLY FOR
DISCHARGE LAMPS
PER NUMBER**

Supply
and Fix

\$

N1310	Ignitor for 150W MBI-T lamps	55.00
N1311	Ditto for 250W ditto	65.00
N1312	Ditto for 400W ditto	75.00
N1313	Ditto for 1000W ditto	180.00
N1314	Ditto for 750W MBIL lamps	220.00
N1315	Ditto for 1500W ditto	250.00
N1316	Ditto for 50W SON lamps	55.00
N1317	Ditto for 70W ditto	55.00
N1318	Ditto for 100W ditto	65.00
N1319	Ditto for 150W ditto	65.00
N1320	Ditto for 250W ditto	75.00
N1321	Ditto for 400W ditto	85.00
N1322	Ditto for 1000W MBI-T lamps	180.00

**'VOSSLOH' OR 'TRIDONIC
ATCO' CAPACITOR ONLY FOR
DISCHARGE LAMPS
PER NUMBER**

Supply
and Fix

\$

N1323	Capacitor for 50W MBF lamps	30.00
N1324	Ditto for 70W ditto	30.00
N1325	Ditto for 100W ditto	35.00

N1326	Ditto for 250W ditto	55.00
N1327	Ditto for 400W ditto	60.00
N1328	Ditto for 700W ditto	90.00
N1329	Ditto for 1000W ditto	180.00
N1330	Ditto for 150W MBI-T lamps	35.00
N1331	Ditto for 250W ditto	55.00
N1332	Ditto for 400W ditto	60.00
N1333	Ditto for 1000W ditto	170.00
N1334	Ditto for 750W MB1L lamps	160.00
N1335	Ditto for 1500W ditto	200.00
N1336	Ditto for 50W SON lamps	30.00
N1337	Ditto for 70W ditto	30.00
N1338	Ditto for 100W SON lamps	35.00
N1339	Ditto for 150W ditto	35.00
N1340	Ditto for 250W ditto	55.00
N1341	Ditto for 400W ditto	60.00
N1342	Ditto for 1000W ditto	170.00
N1343	Ditto for 18W SOX lamps	30.00
N1344	Ditto for 35W ditto	30.00
N1345	Ditto for 55W ditto	35.00
N1346	Ditto for 90W ditto	40.00
N1347	Ditto for 135W ditto	50.00

'FURSE' EARTHING SYSTEM

Supply
and Fix

\$

To supply and install the following
miscellaneous items of equipment and
accessories, using specified makes or
approved equivalent makes and
complete with all necessary materials and
connections to effect complete
installations

PER LINEAR METRE

N1348 Earth-continuity copper tape, 25mm x 3mm cross-section, surface-run on wall or roof using gunmetal DC lips at every 1 m interval to manufacturer's specification 30.00

N1349 Ditto but installed in conduit and surface-run on wall 28.00

N1350 Ditto but installed in conduit and buried 455mm in ground 32.00

PER NUMBER

N1351 'Furse' Gunmetal test-clamps as per cat no. CT405 complete with 'Legrand' enclosure 80.00

PER LINEAR METRE

N1352 'Furse' 16mm diameter copper bonded steel earth rod complete with gunmetal connection clamp of approved type, per metre driven length 85.00

N1353 5000Kg Polycarbonate tested earth inspection chamber with removable-type cover for earth electrode complete with stainless steel screws 100.00

'STIEBEL ELTRON' HAND DRYER
PER NUMBER

Supply
and Fix
\$

N1354 Hand-dryer automatic type with die-cast aluminium body as per cat no. HTES 855.00

MISCELLANEOUS

N1355 Distilled water of demineralised water manufacturer unit of approved make 3,760.00

N1356 Sanitary Disposal Incinerator to water Bunnie sanette MS/67 complete 2,050.00

N1357 Regulation type "NO ADMITTANCE" or "DANGER" or Shock Treatment card 180.00

CEILING OR WALL MOUNTED FANS

PER NUMBER

N1358	'LEB' 1.52M sweep ceiling fan complete with speed regulator and accessories	200.00
N1359	Ditto but 'Panasonic' or 'KDK' (regional) makes	200.00
N1360	Ditto but 'Khind'	180.00
N1361	'USHA' 1.22M ditto	215.00
N1362	20"/600mm diameter 2-blade 240V 50Hz wall mounted industrial heavy duty fan	320.00
N1363	'Mitsubishi' or 'Panasonic' 405mm wall mounted fan	260.00
N1364	'Mitsubishi' or 'Panasonic' 405mm ceiling mounted automatic cycle fan	280.00

CEILING OR WALL MOUNTED FANS

Supply and Fix

\$

PER NUMBER

N1365	'Mistral' 20" / 600mm diameter 2-blade 240V 50Hz wall mounted industrial heavy duty fan	387.00
N1366	'KDK' 405mm wall mounted fan	352.00
N1367	'Khind' ditto	352.00
N1368	'KDK' 405mm ceiling mounted automatic cycle fan	267.00
N1369	'Mistral' ditto	210.00

EXHAUST FANS

N1370	'CATA' 150mm diameter exhaust fan similar as per model B10 complete with louver and glass kit	195.00
N1371	Ditto but 230mm diameter as per model B12	250.00
N1372	Ditto but 305mm diameter king size exhaust fan as per model B15	285.00
N1373	'Fantech' 600 x 600mm wall mounted	

	industrial heavy duty exhaust fan	403.00
N1374	'Fantech' 900 x 900mm wall mounted industrial heavy duty exhaust fan	490.00
N1375	'Khind' 152mm diameter round exhaust fan	156.00
N1376	'Khind' 203mm diameter round exhaust fan	189.00
N1377	'Khind' 254mm diameter round exhaust fan	233.00

EXHAUST FANS

and Fix

Supply

PER NUMBER

\$

N1378	'Khind' 305mm diameter round exhaust fan	267.00
N1379	'KDK' 20AUH 200mm diameter wall mounted exhaust fan complete with automatic shutter (580 (920M3/H)	197.00
N1380	'KDK' 25AUH 250mm diameter wall mounted exhaust fan complete with automatic shutter (920 (920M3/H)	215.00
N1381	'KDK' 30AUH 300mm diameter wall mounted exhaust fan complete with automatic shutter (1200M3/H)	256.00
N1382	'KDK' 15WUD 150mm diameter glass mounted exhaust fan complete with cord operator shutter (210M3/H)	193.00
N1383	'KDK' 20WUD 200mm diameter glass mounted exhaust fan complete with cord operator shutter (360M3/H)	217.00
N1384	'TAT' 455mm diameter king size (metal clad) exhaust fan	290.00

MISCELLANEOUS

PER NUMBER

N1385	610mm wide x 13mm thick, rubber floor-mat for switchboard or motor control centre, per length	100.00
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N1386	'Clipsal' regulator for ceiling fan complete with all connections as per model E32V00F			75.00
N1387	Hook for ceiling fan, fixed to timber at any height			38.00
<u>MISCELLANEOUS</u>				Supply and Fix
<u>PER NUMBER</u>				\$
N1388	Hook for ceiling fan, fixed to concrete beam or slab, drilled, plugged and screwed and make good to match existing			35.00
N1389	Take down ceiling fan, shorten rod and re-thread as necessary, re-assemble and refix			N/A
N1390	Fabricated GRP or equivalent water tray for air-con unit complete with drain pipe and all accessories			150.00
<u>FIRE DETECTION AND ALARM CIRCUIT AND CENTRAL BATTERY EMERGENCY LIGHTING WIRING POINTS</u>		Concealed Conduit	Surface Run Conduit	
<u>Supply and install the following wiring points, including the provision of all necessary cables, wiring materials, conduits and accessories for complete installation to be effected</u>		\$	\$	
<u>PER NUMBER</u>				
N1391	Wiring point using 1.5mm2 Fire rated cables for a wiring run of not exceeding 15.24 m each	250.00	160.00	
N1392	Additional length exceeding 15.24m for N1391 above per metre run	20.00	19.00	
N1393	Wiring point using 1.5mm2 MICC PVC cables for a wiring run not exceeding 15.24m each	290.00	190.00	

N1394	Additional length exceeding 15.24m for N1393 above per metre run	20.00	3.00
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TELEPHONE TRUNKING

Supply
and Fix

PER LINEAR METRE

\$

**Supply and install GI underfloor
telephone ducting, complete with all
necessary bends, adaptors and other
accessories but excluding the
provision of junction boxes, as
follows**

N1395	25mm x 50mm	7.80
N1396	50mm x 100mm	11.30
N1397	75mm x 150mm	17.00
N1398	25mm diameter conduit	3.00

**Supply and install of the following
GI junction boxes complete with
frame and tray as specified**
PER NUMBER

N1399	76mm x 76mm x 31mm complete with telephone outlets	85.00
N1400	100mm x 100mm x 51mm deep ditto	100.00
N1401	150mm x 150mm x 51mm deep ditto	140.00
N1402	230mm x 230mm x 51mm deep ditto	185.00

**ELECTRIC BELL AND ALARM
WIRING SYSTEMS**

Supply and Fix

\$

POINT WIRING (SURFACE)

The rates in the following exclude Bell
Pushes, Indicators, Batteries, or
Transformers, but include bell wire, PVC
trunking / conduit.

Rates also include connecting to
batteries or transformer

PER NUMBER

**Wiring with two cores 1.5mm² PVC
cable fixing in PVC trunking or in
conduit pipe**

N1403	One point, one bell push, connected to one bell and indicator (if installed)	220.00
N1404	Two points, two bell pushes, connected to the same bell and indicator	300.00
N1405	Three points, three bell pushes, ditto	500.00

**ELECTRIC BELL AND ALARM
WIRING SYSTEMS**

Supply and Fix

\$

PER NUMBER

N1406	'Clipsal' or 'Legrand' bell push, plastic, round or pear shape, surface	25.00
N1407	'Clipsal' or 'Legrand' Bell switch, wall, rocker operated to BS 3676, plastic, flush, 5 Amp fixed to BS 4662 boxes (measured separately)	20.00
N1408	'Clipsal' or 'Legrand' Bell underdome type, circular, 76mm diameter 6 or 12 volts	80.00
N1409	Ditto 100mm diameter 12 or 24 volts	160.00
N1410	'Clipsal' or 'Legrand' Alarm bell, 150mm diameter, cast iron pattern, tangent type, 24 volts	270.00
N1411	'Clipsal' or 'Legrand' door bell complete with built-in transformer	95.00
N1412	Transformer (bell), 240/4, 8, 12 volts	90.00
N1413	Ditto 240/24 volts	165.00
N1414	'Clipsal' or 'Legrand' mini transformer (bell), 240/3, 5, 8 volts	80.00
N1415	'Everyday' or 'Sanyo' (regional make) Dry cells 1.5 volts	3.50
N1416	'Friedland' door bell complete with built-in transformer	149.00

N1417	'Sunnybell' ditto	126.00
N1418	'Energizer' Dry cells 1.5 volts	5.80

CONDUIT

Supply and Fix

PER LINEAR METRE

\$

Heavy gauge galvanised, welded screwed steel conduit, supplied complete with all necessary bends, couplers, bushes etc and including making necessary bending and setting required
Conduit fixed with spacer bar saddles for surface run conduit system

N1419	19mm diameter conduit	3.60
N1420	25mm ditto	4.25
N1421	31mm ditto	5.25
N1422	38mm ditto	6.40
N1423	51mm ditto	9.50

Conduit fixed with pipe hooks for concealed conduit system

N1424	19mm diameter conduit	3.30
N1425	25mm ditto	3.95
N1426	31mm ditto	4.90
N1427	38mm ditto	6.10
N1428	51mm ditto	9.00

PVC conduit supplied complete with all necessary accessories for surface run conduit or concealed conduit system

N1429	19mm diameter conduit	2.95
N1430	25mm ditto	3.60
N1431	31mm ditto	4.60
N1432	38mm ditto	5.75
N1433	51mm ditto	8.50

CONDUIT

Supply and Fix

PER LINEAR METRE

\$

Flexible metallic conduit watertight (rate for taking down and refix includes that for adaptors and earth clips etc)

N1434	19mm diameter	5.00
N1435	25mm ditto	5.90
N1436	31mm ditto	6.20
N1437	38mm ditto	7.20

Short length lead-in tubes, galvanised, brass-bushed ends not exceeding 100mm (including bushes)

PER NUMBER

N1438	19mm diameter	0.90
N1439	25mm ditto	1.25
N1440	31mm ditto	1.60
N1441	38mm ditto	2.30

PER 25 MM LENGTH

N1442	<u>Add to item N1438 for each additional 25mm in length</u>	0.10
N1443	<u>Add to item N1439 ditto</u>	0.15
N1444	<u>Add to item N1440 ditto</u>	0.20
N1445	<u>Add to item N1441 ditto</u>	0.25

CONDUIT

Supply
and Fix

PER NUMBER

\$

Adaptors for flexible metallic conduit, brass, sweated or screwed on to conduit of the following sizes

N1446	19mm diameter	5.00
N1447	25mm ditto	6.20
N1448	32mm ditto	7.30
N1449	38mm ditto	8.90

Brass female bushes for conduit of the following sizes

N1450	19mm diameter	1.50
N1451	25mm ditto	1.75
N1452	32mm ditto	2.00

N1453	38mm ditto	2.25
N1454	51mm ditto	2.50

Brass male bushes for conduit of the following sizes

N1455	19mm diameter	1.75
N1456	25mm ditto	2.00
N1457	32mm ditto	2.25
N1458	38mm ditto	2.50
N1459	51mm ditto	3.00

Rubber grommets of the following sizes

N1460	19mm diameter	0.80
N1461	25mm ditto	1.00
N1462	32mm ditto	1.20
N1463	38mm ditto	1.40

CONDUIT

Supply and Fix

PER NUMBER

\$

Galvanised sheet steel junction boxes for heavy gauge galvanised steel conduit (without lids)

N1464	6mm terminal	3.60
N1465	25mm ditto	4.20
N1466	6mm through	4.10
N1467	25mm ditto	4.75
N1468	19mm angle	4.10
N1469	25mm ditto	4.75
N1470	19mm tee	4.20
N1471	25mm ditto	4.90
N1472	<u>Add for lid and screws</u>	0.65

Heavy pattern spacing bar saddles for conduit of the following sizes

N1473	19mm diameter	1.10
N1474	25mm ditto	1.25

N1475	32mm ditto	1.75
N1476	38mm ditto	2.20
N1477	51mm ditto	2.35

CONDUIT

Supply and Fix

PER DOZEN

\$

Pipe hooks, strong wrot iron, for driving into wall, for conduit of the following sizes

N1478	19mm diameter	2.40
N1479	25mm ditto	2.80
N1480	32mm ditto	3.60
N1481	38mm ditto	4.80
N1482	51mm ditto	6.00

Bends, normal, for heavy gauge steel conduit of the following sizes

PER NUMBER

N1483	19mm diameter	2.00
N1484	25mm ditto	2.50
N1485	32mm ditto	3.00
N1486	38mm ditto	3.50
N1487	51mm ditto	8.00

Bends, half normal, for heavy gauge steel conduit of the following sizes

N1488	19mm diameter	1.90
N1489	25mm ditto	2.30
N1490	32mm ditto	2.80
N1491	38mm ditto	3.30
N1492	51mm ditto	7.30

CONDUIT

Supply and Fix

PER NUMBER

\$

Adaptable junction boxes, cast iron, galvanised, complete with cover as GEC C5050/89 (including drilling holes as required)

N1493	76mm x 76mm x 51mm	7.00
N1494	100mm x 100mm x 51mm	8.25
N1495	150mm x 150mm x 70mm	9.50
N1496	230mm x 230mm x 76mm	13.50
N1497	305mm x 305mm x 76mm	18.00

Oblong

N1498	150mm x 76mm x 51mm	12.50
N1499	230 mm x 150 mm x 51mm	38.50
N1500	305mm x 230mm x 76mm	55.00
N1501	355mm x 255mm x 76mm	70.00
N1502	455mm x 305mm x 100mm	90.00

BATTENS, WOOD

Supply and Fix

PER LINEAR METRE

\$

Applicable for teak battens for fixing
Electrical Wire Only.

The rates include for plugging and fixing of
battens to walls or ceiling etc with brass screws as
described in Specifications.

N1503	Battens, wood, teak, wrought on all exposed faces, not exceeding 38mm wide and fixed	2.60
N1504	Ditto exceeding 38mm and not exceeding 76mm wide	4.25
N1505	Battens, wood, teak, wrought on all exposed faces exceeding 76mm and not exceeding 100mm wide	5.90
N1506	Ditto exceeding 100mm and not exceeding 150mm wide	7.40

PVC wire casing, fixed over surface wiring

N1507	25mm wide	3.30
N1508	38mm ditto	4.90
N1509	51mm ditto	6.50

PVC CASING

Supply and Fix

<u>PER LINEAR METRE</u>		<u>\$</u>
<u>PVC wire casing, fixed over surface wiring</u>		
N1510	16 x 16mm (ER 810)	2.70
N1511	17 x 12mm ditto (ER 811)	2.60
N1512	20 x 10mm ditto (ER816)	2.10
N1513	20 x 10mm ditto (ER816S)	2.45
N1514	25 x 25mm ditto (ER815)	3.20
N1515	25 x 16mm ditto (ER820)	3.20
N1516	32 x 12mm ditto (ER801 TK)	2.20
N1517	32 x 12mm ditto (ER801 SJ)	2.15
N1518	38 x 25mm ditto (ER818)	3.90
N1519	38 x 16mm ditto (ER819)	3.55
N1520	40 x 20mm ditto (ER807)	3.10
N1521	40 x 20mm ditto (ER817DC)	3.35
N1522	40 x 14mm ditto (ER808)	2.90
N1523	43 x 43mm ditto (ER814)	5.80
N1524	50 x 12mm ditto (ER802)	4.00
N1525	50 x 25mm ditto (ER821)	4.00
N1526	50 x 50mm ditto (ER822)	5.20
N1527	50 x 63mm ditto (ER8225)	5.95
N1528	60 x 16mm ditto (ER804)	5.80
N1529	60 x 20mm ditto (ER813 DC)	5.80
N1530	75 x 50mm ditto (ER832)	5.80
N1531	75 x 63mm ditto (ER8325)	6.30
N1532	75 x 75mm ditto (ER833)	9.10
<u>PVC CASING</u>		<u>Supply and Fix</u>
<u>PER LINEAR METRE</u>		<u>\$</u>
<u>PVC wire casing, fixed over surface wiring</u>		
N1533	100 x 50mm ditto (ER842)	8.40
N1534	100 x 63mm ditto (ER8425)	9.20

N1535	100 x 75mm ditto (ER843)	11.85
N1536	100 x 100mm ditto (ER844)	14.75
N1537	125 x 50mm ditto (ER852)	9.35
N1538	150 x 50mm ditto (ER862)	19.80
N1539	150 x 100mm ditto (ER863)	24.60
N1540	200 x 100mm ditto (ER884)	30.60

**SINGLE PHASE DISTRIBUTION
BOARDS AND CONSUMER UNITS**

Supply and Fix

\$

PER NUMBER

**Complete with 6KA 'Hager' MCBs 3 Pole
including 1 No. 4 Pole 'Hager' RCD,
neutral earth bar, comb bus bar, cover and
necessary wiring as approved by DES**

N1541	40 Amp two ways complete with 6 MCBs (size 250 x 300 x 110mm)	501.00
N1542	40 Amp three ways complete with 9 MCBs (size 300 x 440 x 110mm)	534.00
N1543	40 Amp four ways complete with 12 MCBs (size 300 x 440 x 110mm)	567.00
N1544	40 Amp five ways complete with 15 MCBs (size 300 x 580 x 110mm)	594.00
N1545	40 Amp six ways complete with 18 MCBs (size 300 x 580 x 110mm)	627.00
N1546	40 Amp seven ways complete with 21 MCBs (size 300 x 580 x 110mm)	654.00
N1547	40 Amp eight ways complete with 24 MCBs (size 300 x 580 x 110mm)	697.00
N1548	40 Amp nine ways complete with 27 MCBs (size 300 x 700 x 110mm)	730.00
N1549	40 Amp Ten ways complete with 30 MCBs (size 300 x 700 x 110mm)	769.00
N1550	40 Amp Eleven ways complete with 33 MCBs (size 300 x 700 x 110mm)	790.00
N1551	40 Amp Twelve ways complete with 36 MCBs (size 300 x 700 x 110mm)	

300 x 700 x 110mm)

823.00

**SINGLE PHASE DISTRIBUTION
BOARDS AND CONSUMER UNITS**

Supply and Fix

\$

PER NUMBER

**Complete with 6KA 'Hager' MCBs 3 Pole
including 1 No. 4 Pole 'Hager' RCD,
neutral earth bar, comb bus bar, cover and
necessary wiring as approved by DES**

N1552	40 Amp Thirteen ways complete with 39 MCBs (size 300 x 700 x 110mm)	860.00
N1553	40 Amp Fourteen ways complete with 42 MCBs (size 300 x 700 x 110mm)	893.00
N1554	40 Amp Fifteen ways complete with 45 MCBs (size 300 x 700 x 110mm)	926.00
N1555	40 Amp Sixteen ways complete with 48 MCBs (size 300 x 700 x 110mm)	954.00
N1556	40 Amp Seventeen ways complete with 51 MCBs (size 300 x 700 x 110mm)	997.00
N1557	40 Amp Eighteen ways complete with 54 MCBs (size 300 x 700 x 110mm)	1053.00
N1558	63 Amp two ways complete with 6 MCBs (size 250 x 300 x 110mm)	561.00
N1559	63 Amp three ways complete with 9 MCBs (size 300 x 440 x 110mm)	594.00
N1560	63 Amp four ways complete with 12 MCBs (size 300 x 440 x 110mm)	621.00
N1561	63 Amp five ways complete with 15 MCBs (size 300 x 580 x 110mm)	654.00
N1562	63 Amp six ways complete with 18 MCBs (size 300 x 580 x 110mm)	687.00

**SINGLE PHASE DISTRIBUTION
BOARDS AND CONSUMER UNITS**

Supply and Fix

\$

PER NUMBER

Complete with 6KA 'Hager' MCBs 3 Pole including 1 No. 4 Pole 'Hager' RCD, neutral earth bar, comb bus bar, cover and necessary wiring as approved by DES

N1563	63 Amp seven ways complete with 21 MCBs (size 300 x 580 x 110mm)	714.00
N1564	63 Amp eight ways complete with 24 MCBs (size 300 x 580 x 110mm)	757.00
N1565	63 Amp nine ways complete with 27 MCBs (size 300 x 700 x 110mm)	784.00
N1566	63 Amp Ten ways complete with 30 MCBs (size 300 x 700 x 110mm)	817.00
N1567	63 Amp Eleven ways complete with 33 MCBs (size 300 x 700 x 110mm)	850.00
N1568	63 Amp Twelve ways complete with 36 MCBs (size 300 x 700 x 110mm)	877.00
N1569	63 Amp Thirteen ways complete with 39 MCBs (size 300 x 700 x 110mm)	920.00
N1570	63 Amp Fourteen ways complete with 42 MCBs (size 300 x 700 x 110mm)	953.00
N1571	63 Amp Fifteen ways complete with 45 MCBs (size 300 x 700 x 110mm)	980.00
N1572	63 Amp Sixteen ways complete with 48 MCBs (size 300 x 700 x 110mm)	1013.00
N1573	63 Amp Seventeen ways complete with 51 MCBs (size 300 x 700 x 110mm)	1040.00
N1574	63 Amp Eighteen ways complete with 54 MCBs (size 300 x 700 x 110mm)	1073.00

THREE PHASE DISTRIBUTION BOARDS AND CONSUMER UNITS

Supply and Fix

\$

PER NUMBER

Complete with 6KA 'Hager' MCBs 3 Pole including 3 No. 2 Pole 'Hager' RCD, neutral earth bar, comb bus bar, cover and necessary wiring as approved by DES

N1575	40 Amp two ways complete with 6 MCBs (size 300 x 440 x 110mm)
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	440 x 110mm)	642.00
N1576	40 Amp three ways complete with 9 MCBs (size 300 x 440 x 110mm)	675.00
N1577	40 Amp four ways complete with 12 MCBs (size 300 x 580 x 110mm)	702.00
N1578	40 Amp five ways complete with 15 MCBs (size 300 x 580 x 110mm)	735.00
N1579	40 Amp six ways complete with 18 MCBs (size 300 x 580 x 110mm)	762.00
N1580	40 Amp seven ways complete with 21 MCBs (size 300 x 580 x 110mm)	795.00
N1581	40 Amp eight ways complete with 24 MCBs (size 300 x 580 x 110mm)	838.00
N1582	40 Amp nine ways complete with 27 MCBs (size 300 x 580 x 110mm)	865.00
N1583	40 Amp Ten ways complete with 30 MCBs (size 300 x 580 x 110mm)	898.00
N1584	40 Amp Eleven ways complete with 33 MCBs (size 300 x 700 x 110mm)	931.00
N1585	40 Amp Twelve ways complete with 36 MCBs (size 300 x 700 x 110mm)	958.00
	<u>THREE PHASE DISTRIBUTION</u>	
	<u>BOARDS AND CONSUMER UNITS</u>	Supply and Fix
		\$
	<u>PER NUMBER</u>	
	<u>Complete with 6KA 'Hager' MCBs 3 Pole including 1 No. 4 Pole 'Hager' RCD, neutral earth bar, comb bus bar, cover and necessary wiring as approved by DES</u>	
N1586	40 Amp Thirteen ways complete with 39 MCBs (size 300 x 700 x 110mm)	1001.00
N1587	40 Amp Fourteen ways complete with 42 MCBs (size 300 x 700 x 110mm)	1028.00
N1588	40 Amp Fifteen ways complete with 45 MCBs (size 300 x 700 x 110mm)	1061.00
N1589	40 Amp Sixteen ways complete with 48 MCBs (size 300 x 700 x 110mm)	

	300 x 700 x 110mm)	1094.00
N1590	40 Amp TPN Wall Mounted Distribution Board LOB/G	720.00
N1591	63 Amp two ways complete with 6 MCBs (size 300 x 440 x 110mm)	690.00
N1592	63 Amp three ways complete with 9 MCBs (size 300 x 440 x 110mm)	723.00
N1593	63 Amp four ways complete with 12 MCBs (size 300 x 580 x 110mm)	756.00
N1594	63 Amp five ways complete with 15 MCBs (size 300 x 580 x 110mm)	783.00
N1595	63 Amp six ways complete with 18 MCBs (size 300 x 580 x 110mm)	816.00
N1596	63 Amp seven ways complete with 21 MCBs (size 300 x 580 x 110mm)	849.00
N1597	63 Amp eight ways complete with 24 MCBs (size 300 x 580 x 110mm)	898.00

**THREE PHASE DISTRIBUTION
BOARDS AND CONSUMER UNITS**

Supply and Fix

\$

PER NUMBER

**Complete with 6KA 'Hager' MCBs 3 Pole
including 1 No. 4 Pole 'Hager' RCD,
neutral earth bar, comb bus bar, cover and
necessary wiring as approved by DES**

N1598	63 Amp nine ways complete with 27 MCBs (size 300 x 580 x 110mm)	919.00
N1599	63 Amp Ten ways complete with 30 MCBs (size 300 x 580 x 110mm)	946.00
N1600	63 Amp Eleven ways complete with 33 MCBs (size 300 x 700 x 110mm)	979.00
N1601	63 Amp Twelve ways complete with 36 MCBs (size 300 x 700 x 110mm)	1012.00
N1602	63 Amp Thirteen ways complete with 39 MCBs (size 300 x 700 x 110mm)	1049.00

N1603	63 Amp Fourteen ways complete with 42 MCBs (size 300 x 700 x 110mm)	1082.00
N1604	63 Amp Fifteen ways complete with 45 MCBs (size 300 x 700 x 110mm)	1115.00
N1605	63 Amp Sixteen ways complete with 48 MCBs (size 300 x 700 x 110mm)	1142.00
N1606	80 Amp TPN Wall Mounted Distribution Board c/w Time switch & Etc	1209.00
N1607	100 Amp TPN Wall Mounted Distribution Board complete with Time switch & Etc	1,324.00
N1608	125 Amp TPN Wall Mounted Distribution Board	1,565.00
N1609	125 Amp TPN Wall Mounted Distribution Board complete with Time switch & Etc	1,680.00
	<u>'HAGER' OR 'CLIPSAL' RCCB WITH ANTI-NUISANCE TRIPPING</u>	Supply and Fix
		\$
	<u>PER NUMBER</u>	
N1610	40 A 2 poles 30 MA	85.00
N1611	63 A 2 poles 30 MA/100 MA	135.00
N1612	80 A 2 poles 30 MA	190.00
N1613	100 A 2 poles 30 MA	230.00
N1614	40 A 4 poles 30 MA	125.00
N1615	63 A 4 poles 30 MA	180.00
N1616	100 A 4 poles 30 MA/100 MA	290.00
	<u>'MOELLER RCCB WITH ANTI-NUISANCE TRIPPING</u>	
N1617	40 A 2 poles 30 MA	89.00
N1618	63 A 2 poles 30 MA/100 MA	151.00
N1619	100 A 2 poles 30 MA	252.00
N1620	40 A 4 poles 30 MA	137.00
N1621	63 A 4 poles 30 MA	198.00
N1622	100 A 4 poles 30 MA/100 MA	327.00
	<u>'HAGER' OR 'CLIPSAL' MCBS TYPE C 6 KA</u>	

N1623	6 – 40 Amp 1 poles MCBs 6 KA	22.00
N1624	40 Amp 2 poles MCBs 6 KA	70.00
N1625	63 Amp 2 poles MCBs 6 KA	90.00
N1626	10 - 32 Amp 3 poles MCBs 6 KA	90.00
N1627	40 Amp 3 poles MCBs 6 KA	100.00
N1628	63 Amp 3 poles MCBs 6 KA	135.00

'MOELLER' MCBS TYPE C 10 KA

Supply and Fix

PER NUMBER

\$

N1629	6 – 40 Amp 1 poles MCBs 10 KA	26.00
N1630	40 Amp 2 poles MCBs 10 KA	61.00
N1631	63 Amp 2 poles MCBs 10 KA	96.00
N1632	10 - 32 Amp 3 poles MCBs 10 KA	85.00
N1633	40 Amp 3 poles MCBs 10 KA	109.00
N1634	63 Amp 3 poles MCBs 10 KA	178.00

**'MERLIN GERLIN' OR 'LG' MCCB
(WITHOUT ENCLOSURE)**

N1635	30/40A 2 poles	200.00
N1636	60A 2 poles	220.00
N1637	100A 2 poles	260.00
N1638	40 – 100 AMP 3 poles	330.00
N1639	160 – 200 AMP 3 poles	390.00
N1640	250 A 3 poles	550.00
N1641	300 A 3 poles	600.00

**'HAGER' PVC MCB BOX
FLAME RETARDENT TYPE**

N1642	13 ways (1 row type)	35.00
N1643	19 ways (1 row type)	60.00
N1644	26 ways (2 row type)	70.00
N1645	39 ways (3 row type)	90.00
N1646	52 ways (4 row type)	150.00

**'POWERTECK' ENCLOSURE FOR
MCCB UNIT**

N1647	30/100 A 2 poles	280.00
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N1648	30/100 A 3 poles	350.00
N1649	160 – 200 AMP 3 poles	550.00
N1650	300 A 3 poles	600.00

FUSE SWITCHES

Supply and Fix

PER NUMBER

\$

GLASGOW fuse switches inclusive of HRC fuses or other equivalent type

N1651	60 Amp 61 GNC SPN	500.00
N1652	60 Amp 63 GNC TPN	640.00
N1653	100 Amp 101 GNC SPN	715.00
N1654	100 Amp 103 GNC TPN	850.00
N1655	150 Amp 151 GNC SPN	990.00
N1656	150 Amp 153 GNC TPN	1,285.00
N1657	200 Amp 201 GNC SPN	1,010.00
N1658	200 Amp 203 GNC TPN	1,320.00

GLASGOW switches fitted with solid links or other equivalent type

N1659	60 Amp 63 GNL TPN	590.00
N1660	100 Amp 103 GNL TPN	765.00
N1661	200 Amp 203 GNL TPN	1,150.00

GLASGOW cubicle-mounting fuse switches with HRC fuse links or other equivalent type

N1662	60 Amp 62 GXF SPN/DP	620.00
N1663	60 Amp 63 GNXF TPN	785.00
N1664	100 Amp 102 GXF SPN/DP	870.00
N1665	100 Amp 103 GNXF TPN	1,040.00
N1666	200 Amp 202 GXF SPN/DP	1,240.00
N1667	200 Amp 203 GNXF TPN	1,550.00

CHANGE-OVER switches, iron clad or other equivalent type

N1668	20 Amp 3150 DA TP	185.00
N1669	30 Amp 3300 DA TP	235.00
N1670	60 Amp 3600 DA TP	410.00

FUSE SWITCHES

Supply and Fix

PER NUMBER

\$

**EXEL switch fuse complete with rewirabl
carriers or HRC fuse carriers inclusive o
HRC fuse link. Surface-mounting**

ef

N1671	15 Amp 15 KXS/C2 SPN	175.00
N1672	15 Amp 15 KXD/C2 DP	185.00
N1673	15 Amp 15 KXTN/C2 TPN	230.00
N1674	30 Amp 30 KXS/C2 SPN	210.00
N1675	30 Amp 30 KXD/C2 DP	225.00
N1676	30 Amp KXTN/C2 TPN	285.00
N1677	60 Amp 60 KXS/C2 SPN	315.00
N1678	60 Amp 60 KXD/C2 DP	340.00
N1679	60 Amp 60 KXTN/C2 TPN	450.00
N1680	100 Amp 100 KXS/C2 SPN	485.00
N1681	100 Amp 100 KXD/C2 DP	560.00
N1682	100 Amp 100 KXTN/C2 TPN	765.00

REWIREABLE FUSE CARRIER/SHEILDS

N1683	Rewireable fuse carrier/sheilds 5QLRS 5amp	22.80
N1684	Rewireable fuse carrier/sheilds 15QLRS 15amp	22.80
N1685	Rewireable fuse carrier/sheilds 20QLRS 20amp	22.80
N1686	Rewireable fuse carrier/sheilds 30QLRS 30amp	22.80
N1687	Rewireable fuse carrier/sheilds 140QLRS 40amp	30.80
N1688	Rewireable fuse carrier/sheilds 145QLRS 45amp	30.80

HRC FUSE

Supply and Fix

PER NUMBER

\$

N1689	5LC 5 Amp HRC fuse link	16.50
N1690	15LC 15 Amp HRC fuse link	16.50
N1691	20LC 20 Amp HRC fuse link	16.50
N1692	30LC 30 Amp HRC fuse link	20.40

N1693	30LCS 30 Amp HRC fuse link	29.50
N1694	40LCS 40 Amp HRC fuse link	29.50
N1695	45LC 45 Amp HRC fuse link	19.50

BUSBAR SUPPORTS

Procelain supports are supplied with fixing nuts and washers

N1696	10 BM 73 x 35 x 60mm	14.00
N1697	10 BMD 73 x 35 x 79mm	16.00
N1698	10 BML 95 x 51 x 79mm	23.00

Memera 3 moulded consumer unit SPN 250V AC only. Surface-mounting without fuse carriers, MCBs shield

N1699	30 Amp one-way 10 G	33.00
N1700	45 Amp two-ways 20 G	45.00
N1701	60 Amp three-ways 30 G	63.00
N1702	80 Amp four-ways 40 G	72.00
N1703	80 Amp six-ways 60 G	86.00
N1704	80 Amp eight-ways 80 G	105.00

Memera 3 metalclad consumer unit SPN 250V AC only. Surface-mounting without fuse carriers, MCBs or shields

N1705	30 Amp one-way 10M	43.00
N1706	45 Amp two-ways 20M	58.00
N1707	60 Amp three-ways 30M	80.00

BUSBAR SUPPORTS

Supply and Fix

PER NUMBER

\$

Memera 3 metalclad consumer unit SPN 250V AC only. Surface-mounting without fuse carriers, MCBs or shields

N1708	80 Amp four-ways 40M	90.00
N1709	80 Amp six-ways 60M	105.00
N1710	80 Amp eight-ways 80M	120.00

MCBs for use with MEMERA 3 Consumer Units
 SP Miniature circuit breaker and shield

N1711	5 Amp M 1.5 QCB	31.00
N1712	15 Amp M 1.5 15 QCB	31.00
N1713	20 Amp M 1.5 20 QCB	31.00
N1714	30 Amp M 1.5 30 QCB	31.00
N1715	45 Amp M 1.5 45 QCB	31.00

Ironclad weatherproof fireman's switch locked switch and switch fuse – 250V AC/DC

N1716	15 Amp 215 AF DP	110.00
N1717	30 Amp 230 AF DP	150.00
N1718	Fireman's switch name-plate 2 FNP	30.00
N1719	15 Amp 215 AS DP locked switch	106.00
N1720	15 Amp 215 KSN SPN switch fuse	138.00
N1721	15 Amp 215 KS DP ditto	127.00

Memspel metalclad switch fuses and switch splitters or other equivalent type

N1722	20 Amp 2 KNS	39.00
N1723	30 Amp 3 KNS	53.00
N1724	60 Amp 6 KNS	117.00
N1725	2 x 15 Amp 21 KSS	49.00
N1726	3 x 15 Amp 41 KSS	75.00

BUSBAR SUPPORTS

Supply and Fix

PER NUMBER

\$

Memspan metal clad switch fuses and switch splitters
 or other equivalent type

N1727	1 x 30 Amp 2 x 5 Amp 42 KSS	77.00
N1728	1 x 30 Amp 1 x 15 Amp 43 KSS	77.00
N1729	20 Amp HRC 2 KNS/C	44.00
N1730	30 Amp HRC 3 KNS/C	60.00
N1731	60 Amp HRC 6 KNS/C	135.00
N1732	2 x 15 Amp HRC 21 KSS/C	62.00
N1733	3 x 15 Amp HRC 41 KSS/C	95.00

Memspan insulated switch fuses and switc splitters h

N1734	20 Amp 2 KNG	26.00
N1735	30 Amp 3 KNG	35.00
N1736	60 Amp 6 KNG	98.00
N1737	2 x 15 Amp 21 KSG	35.00
N1738	3 x 15 Amp 41 KSG	50.00
N1739	1 x 30 Amp 1 x 15 Amp 1 x 5 Amp 43 KSG	55.00
N1740	20 Amp HRC 2 KNG/C	29.00
N1741	30 Amp HRC 3 KNG/C	38.00
N1742	2 x 15 Amp HRC 21 KSG/C	38.00
N1743	3 x 15 Amp HRC 41 KSG/C	57.00
<u>SINGLE PHASE DISTRIBUTION</u>		
<u>BOARDS AND CONSUMER UNITS</u>		
		Supply and Fix
		\$

PER NUMBER

MEMGUARD Type 'A' Metalclad consumer units 250V AC only with or without isolating switch complete with neutral, earth bar, but without MCB

100 Amp DP Switch

N1744	Four-ways 4 DASSM	105.00
N1745	Six-ways 6 DASSM	110.00
N1746	Eight-ways 8 DASSM	130.00
N1747	Twelve-ways 12 DASSM	140.00
N1748	Sixteen-ways 16 DASSM	165.00

50 Amp DP Switch

N1749	Four-ways 4 DASSM	95.00
N1750	Six-ways 6 DASSM	100.00
N1751	Eight-ways 8 DASSM	120.00
N1752	Twelve-ways 12 DASSM	130.00

100 Amp busbar rating without switch

N1753	Four-ways 4 DASM	75.00
N1754	Six-ways 6 DASM	80.00
N1755	Eight-ways 8 DASM	100.00

N1756	Twelve-ways 12 DASM	115.00	
N1757	Sixteen-ways 16 DASM	140.00	
	<u>THREE PHASE DISTRIBUTION BOARDS AND CONSUMER UNITS</u>		Supply and Fix
			\$
	<u>PER NUMBER</u>		
	<u>MEMGUARD Type 'B' multiple distributio boards (three phase, four wire-lead centres without MCB complete with earth bar, neutral block and ready to accept plug-in MEM MCB either SP DP TP e.g. 4-ways means 4 x 3 ways – 12 MCB With 100 Amp TP isolator</u>		<u>n)</u>
N1758	Four-ways 41 DBSSM	335.00	
N1759	Six-ways 61 DBSSM	365.00	
N1760	Eight-ways 81 DBSSM	410.00	
N1761	Twelve-ways 121 DBSSM	475.00	
N1762	Sixteen-ways 161 DBSSM	555.00	
	<u>With 200 Amp TP isolator</u>		
N1763	Four-ways 42 DBSSM	900.00	
N1764	Six-ways 62 DBSSM	925.00	
N1765	Eight-ways 82 DBSSM	965.00	
N1766	Twelve-ways 122 DBSSM	1,040.00	
N1767	Sixteen-ways 162 DBSSM	1,130.00	
	<u>DB without isolator</u>		
N1768	Four-ways 4 DBSM	275.00	
N1769	Six-ways 6 DBSM	300.00	
N1770	Eight-ways 8 DBSM	355.00	
N1771	Twelve-ways 12 DBSM	435.00	
N1772	Sixteen-ways 16 DBSM	512.00	
N1773	Twenty-ways 20 DBSM	578.00	
			Supply and Fix
			\$

MEMGUARD 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS
ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT
CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER
SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

PER NUMBER

Single Pole

N1774	6 Amp 61 DCP	16.00
N1775	10 Amp 101 DCP	16.00
N1776	15 Amp 151 DCP	16.00
N1777	20 Amp 201 DCP	16.00
N1778	25 Amp 251 DCP	16.00
N1779	30 Amp 301 DCP	16.00
N1780	40 Amp 401 DCP	16.00
N1781	50 Amp 501 DCP	16.00
N1782	60 Amp 610 DCP	16.00

Supply and Fix

\$

'MOELLER' 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS
ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT
CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER
SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

PER NUMBER

Single Pole

N1783	6 Amp 61 DCP	9.00
N1784	10 Amp 101 DCP	9.00
N1785	16 Amp 151 DCP	9.00
N1786	20 Amp 201 DCP	9.00
N1787	30 Amp 301 DCP	9.00

MEMGUARD 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

Double Pole

N1788	6 Amp 62 DCP	43.00
N1789	10 Amp 102 DCP	43.00
N1790	15 Amp 152 DCP	43.00
N1791	20 Amp 202 DCP	43.00
N1792	25 Amp 252 DCP	43.00
N1793	30 Amp 302 DCP	43.00
N1794	40 Amp 402 DCP	43.00

Supply and Fix

\$

MEMGUARD 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

PER NUMBER

Double Pole

N1795	50 Amp 502 DCP	43.00
N1796	60 Amp 602 DCP	43.00

'MOELLER' 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

Double Pole

N1797	6 Amp 62 DCP	36.00
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N1798	10 Amp 102 DCP	36.00
N1799	16Amp 152 DCP	36.00
N1800	20 Amp 202 DCP	36.00
N1801	25 Amp 252 DCP	36.00
N1802	32Amp 302 DCP	36.00
N1803	40 Amp 402 DCP	41.00
N1804	60 Amp 502 DCP	56.00

Supply and Fix

\$

MEMGUARD 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

PER NUMBER

Triple Pole

N1805	6 Amp 63 DCP	83.00
N1806	10 Amp 103 DCP	83.00
N1807	15 Amp 153 DCP	83.00
N1808	20 Amp 203 DCP	83.00
N1809	25 Amp 253 DCP	83.00
N1810	30 Amp 303 DCP	83.00
N1811	40 Amp 403 DCP	83.00
N1812	50 Amp 503 DCP	83.00
N1813	60 Amp 603 DCP	83.00

'MOELLER' 'PLUG-IN' TYPE MINIATURE CIRCUIT BREAKERS ARE TYPE TESTED TO BS 3871 PART 1:1965 CLAUSES 30 AND 31 SHORT CIRCUIT TESTS. THESE MCB ARE DESIGNED TO PLUG INTO EITHER SINGLE PHASE OR THREE PHASE MEMGUARD DISTRIBUTION BOARDS

Triple Pole

N1814	6 Amp 153 DCP	40.00
N1815	20 Amp 203 DCP	40.00

N1816	32 Amp 303 DCP	40.00
N1817	40 Amp 403 DCP	44.00
N1818	60 Amp 603 DCP	63.00

PER NUMBER

Supply and Fix

'MK' or 'Crabtree' Mains Insulating Switches

\$

N1819	5500, 100 Amp	27.25
N1820	5560, 60 Amp	24.10

'MK' or 'Crabtree' Insulated Enclosure (Surface-Mounting) or approved equivalent

s

N1821	5601, seven module four-ways busbar size	42.50
N1822	5609, nine module six-ways ditto	48.00
N1823	5612, twelve module nine-ways ditto	54.40
N1824	5604, four module ELCB enclosure complete with mounting rail	20.25
N1825	5502, two module DP MCB enclosure ditto	23.90

'MK' or 'Crabtree' Metal Enclosures (Surface-Mounting)

N1826	5509, nine module six-ways busbar size	58.00
N1827	5512, twelve module nine-ways ditto	67.00
N1828	5516, sixteen module thirteen-ways ditto	96.00
N1829	5504, four module ELCB enclosures	36.50

'MK' or 'Crabtree' Insulated ELC Enclosures (Flush Mounting)

B

N1830	6604, four module ELCB enclosure	48.50
N1831	20 – 30A neutral links	15.00
N1832	60A neutral links	15.00
N1833	30A cut outs	25.00
N1834	60A cut outs	25.00
N1835	100A cut outs	25.00
N1836	Cable lugs for – 4mm ² cable – 16mm ² cable	2.50
N1837	Ditto but for 16mm cable	2.50
N1838	Ditto but for 25mm cable	3.00
N1839	Ditto but for 35mm cable	4.00
N1840	Meter, (Government supply) single phase	

including all connections

N/A

PER NUMBER

Supply and Fix

'MK' or 'Crabtree' Insulated ELCB Enclosures (Flush Mounting)

\$

N1841 Meter, (Government supply) three phase including all connections

N/A

N1842 General electrical inspection of all equipment viz. terminals, ELCB, earthing, distribution board, particulars of wiring and preparing of reports

-

N1843 250 W MB FU fittings complete with stay bars to the Air Wing Hangar

-

N1844 60A / 100 Amp HRC fuse link

10.00

N1845 20 AMP/32 Amp HRC fuse link

8.00

N1846 1 Pole forked copper busbar insulated 100 A

18.00

N1847 'Lucy' or 'Henley' 60A 3 phase ceiling chamber complete with H.R.C. fuse

180.00

WATER HEATERS

PER NUMBER

N1848 'Stiebel Eltron' instant water heater to model DS35E

500.00

N1849 'Stiebel Eltron' instant water heater to model DL35E

624.00

N1850 'Stiebel Eltron' instant water heater to model DHCE6

608.00

N1851 Water heater element for 11 litres

665.00

N1852 Ditto for 30 to 80 litres

795.00

N1853 Ditto for 100 litres

935.00

N1854 1200 W water heater thermostat

122.00

N1855 1500 Ditto

180.00

MISCELLANEOUS

Supply and Fix

PER NUMBER

\$

N1856 'GE' or 'Osram' 40 W daylight circular tube

25.00

N1857 'LED 12W downlight complete with driver

55.00

N1858 Ditto but 18 W

65.00

N1859 20 W insect killer fluorescent tube complete with

	starter	40.00
N1860	'Osram' TXL 40 W/33 single pin flame proof type fluorescent tube	45.00
N1861	'Osram' TLX 40 W flame proof fluorescent ballast	250.00
N1862	40 W (36W) 1200mm long fluorescent lamp	8.00
N1863	20 W (18W) 590mm long fluorescent lamp	8.00

TRACK LIGHT

N1864	20w-30w LED Adjustable track light	102.00
N1865	2m long track light clip fitting/bracket	52.00

PER NUMBER

N1866	Water Bunnie Sanette Macerator model WB701 flush mounting	2,533.00
N1867	'Osram' Twin Lamp T8 Electronic Control Ballast	50.00
N1868	'Vossloh' or 'Tridonic Atco' 2000 W H.I.D capacitor	120.00
N1869	13A 5 gang Extension Power Socket 5m wire	80.00
N1870	Ditto but 10m heavy duty wire	110.00
N1871	'Neo-Neon' Sparkle net light, multi colour complete with controller as per model SNL- 180-C-240v	60.00
N1872	'Osram' 12V 50 W halogen display lamps bulbs 3000 hrs as per model 45870 WFL	15.00
N1873	'Osram' 12V 50 W halogen electronic transformer	25.00

MISCELLANEOUS

Supply and Fix

PER NUMBER

		\$
N1874	'LED 9W bulb with driver E27/E14 base	15.00
N1875	Ditto but 12-15 W	15.00
N1876	'LED 590mm long tube lamp	18.00
N1877	Ditto but 1200mm	32.00
N1878	220/240 output 24V 400 VA transformer	350.00
N1879	Plessey 3 phase prepayment meter	917.50
N1880	'KSS' 12mm PVC cable clip (Box of 100 pcs)	10.00

N1881	Ditto complete with E17 starter	19.00
N1882	'Khind' 12mm PVC cable clip (Box of 30 pcs)	13.00

Supply and Fix

\$

**'GALVANISED IRON PIPE FOR
CONDUITS SURFACE RUN
COMPLETE WITH NECESSARY
JOINTS AND ACCESSORIES FOR
FIXING INCLUDING PAINTING TO
SUIT THE SURFACE
PER LINEAR METRE**

N1883	75mm diameter	15.30
N1884	Ditto but 100mm diameter	18.70

**HIGH MASS LIGHTING COMPLETE R Y
WITH NECESSARY ACCESSORIES FO
FIXING ON POLES OR AS DIRECTED B S.O.**

PER NUMBER

N1885	'GE / Sylvania / Nordex / Fael Luce' or approved equivalent high mass lighting complete with 2000W metal halide bulb, ignitor, ballast in weatherproof enclosure.	1,650.00
N1886	Ditto but 2000W metal halide bulb ONLY	350.00
N1887	Ditto but ballast ONLY	300.00
N1888	Ditto but ignitor ONLY	50.00

NETWORK CABLE

PER LINEAR METRE

N1889	'CAT 5e DRAKA' Network Cable	18.60
N1890	'CAT 6 DRAKA' Network Cable	21.00

Supply and Fix

\$

AUTOMATIC DOOR SYSTEM

Besam Swinger (Powerswing)

PER NUMBER

N1891	'Besam' Swinger Single Door Size: 900mm x 2100mm	5,175.00
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N1892	'Besam' Swinger Double Door Size: 1800mm x 2100mm	7,475.00
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Besam Slide (Unislide)

PER NUMBER

N1893	'Besam' Slider Single Door Size: 900mm x 2100mm	8,050.00
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N1894	'Besam' Slider Double Door Size: 1800mm x 2100mm	9,775.00
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Crawford Slider

PER NUMBER

N1895	'Crawford' Slider Single Door Size: 900mm x 2100mm	8,050.00
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N1896	'Crawford' Slider Double Door Size: 1800mm x 2100mm	9,775.00
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MATERIALS (SUPPLY ONLY)

AUTOMATIC DOOR SYSTEM SPARE PARTS

"Besam" Swinger (Powerswing)

PER NUMBER

\$

N1897	Arms	264.50
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N1898	Shaft	161.00
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N1899	Limit Switch	230.00
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N1900	Selector	414.00
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MATERIALS (SUPPLY ONLY)

AUTOMATIC DOOR SYSTEM SPARE PARTS

"Besam" Swinger (Powerswing)

PER NUMBER

\$

N1901	PAG (Push and Go)	759.00
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N1902	Slave Control	908.50
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N1903	Control Unit	1,495.00
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N1904	Hydraulic Unit	3,220.00
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"Besam" Slide (Unislide)

PER NUMBER

N1905	Rev Counter	157.60
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N1906	Carriage Wheels	264.50
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N1907	Tension Wheel	184.00
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N1908	Battery	276.00
N1909	Limit Switch	253.00
N1910	Micro Switch	192.10
N1911	Harness	356.50
N1912	Lock	736.00
N1913	Program Selector	667.00
N1914	CUF Micro Processor	2,530.00
N1915	Drive Gear	2,150.50

PER LINEAR METRE

N1916	Sliding Track	43.70
N1917	Tooth belt	78.20

“Crawford” Slider

PER NUMBER

N1918	Rev Counter	157.60
N1919	Carriage Wheels	264.50
N1920	Tension Wheel	184.00

MATERIALS (SUPPLY ONLY)

AUTOMATIC DOOR SYSTEM SPARE PARTS

“Crawford” Slider

PER NUMBER

\$

N1921	Battery	276.00
N1922	Limit Switch	253.00
N1923	Micro Switch	192.10
N1924	Harness	356.50
N1925	Lock	736.00
N1926	Program Selector	667.00
N1927	CUF Micro Processor	2,530.00
N1928	Drive Gear	2,150.50

PER LINEAR METRE

N1929	Sliding Track	43.70
N1930	Tooth belt	78.20

Supply and Fix

\$

PROJECTOR

N1931	1770mm x 1770mm projector screen manual type	574.40
N1932	Projector bracket complete with 40mm in 0.50 metre aluminium pipe bracket	214.40

N1933	Recessed ceiling type motorised projector screen 3M(H) x 3M(W) similar to Draper Targa or approved equivalent	3,950.00
N1934	Manual pull down type projector screen 2.4M(H) x 1.8M(W) similar to OS, Drapper, Dalite or approved equivalent	940.00

ENERGY SAVING BULBS

Supply
and Fix

PER NUMBER

\$

"BR Elite"

N1935	"BR elite" energy saving lamps incandescent bulb 2U 5 W	7.00
N1936	"BR elite" energy saving lamps incandescent bulb 2U 7 W	7.00
N1937	"BR elite" energy saving lamps incandescent bulb 2U 9 W	7.00
N1938	"BR elite" energy saving lamps incandescent bulb 2U 11 W	7.00
N1939	"BR elite" energy saving lamps incandescent bulb 2U 13 W	7.00
N1940	"BR elite" energy saving lamps incandescent bulb 2U 15 W	7.00
N1941	"BR elite" energy saving lamps incandescent bulb 3U 13 W	8.90
N1942	"BR elite" energy saving lamps incandescent bulb 3U 15 W	8.90
N1943	"BR elite" energy saving lamps incandescent bulb 3U 18 W	10.30
N1944	"BR elite" energy saving lamps incandescent bulb 3U 22 W	10.30
N1945	"BR elite" energy saving lamps incandescent bulb 3U 24 W	10.30
N1946	"BR elite" energy saving lamps incandescent bulb 3U 26 W	10.30

N1947	"BR elite" energy saving lamps incandescent bulb SP 9 W	7.70
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ENERGY SAVING BULBS

and Fix

Supply

PER NUMBER

\$

"BR Elite"

N1948	"BR elite" energy saving lamps incandescent bulb SP 11 W	7.70
N1949	"BR elite" energy saving lamps incandescent bulb SP 14 W	10.30
N1950	"BR elite" energy saving lamps incandescent bulb SP 18 W	10.30
N1951	"BR elite" energy saving lamps incandescent bulb SP 20 W	10.30
N1952	"BR elite" energy saving lamps incandescent bulb SP 26 W	10.30
N1953	"BR elite" energy saving lamps incandescent bulb MSP 5 W	10.90
N1954	"BR elite" energy saving lamps incandescent bulb MSP 7 W	10.90
N1955	"BR elite" energy saving lamps incandescent bulb MSP 8 W	10.90
N1956	"BR elite" energy saving lamps incandescent bulb MSP 9 W	10.90
N1957	"BR elite" energy saving lamps incandescent bulb MSP 12 W	10.90
N1958	"BR elite" energy saving lamps incandescent bulb MSP 15 W	10.90
N1959	"BR elite" energy saving lamps incandescent bulb FSP 5 W	8.00
N1960	"BR elite" energy saving lamps incandescent bulb FSP 9 W	8.00
N1961	"BR elite" energy saving lamps incandescent bulb FSP 13 W	8.00

ENERGY SAVING BULBS

		<u>Supply and Fix</u>
<u>PER NUMBER</u>		\$
<u>“Osram”</u>		
N1962	"OSRAM" energy saving lamps incandescent bulb 2U 5 W	8.30
N1963	"OSRAM" energy saving lamps incandescent bulb 2U 7 W	8.30
N1964	"OSRAM"energy saving lamps incandescent bulb 2U 9 W	8.30
N1965	"OSRAM" energy saving lamps incandescent bulb 2U 11 W	8.30
N1966	"OSRAM" energy saving lamps incandescent bulb 2U 13 W	8.30
N1967	"OSRAM" energy saving lamps incandescent bulb 2U 15 W	8.30
N1968	"OSRAM" energy saving lamps incandescent bulb 3U 13 W	8.30
N1969	"OSRAM" energy saving lamps incandescent bulb 3U 15 W	8.30
N1970	"OSRAM" energy saving lamps incandescent bulb 3U 18 W	8.30
N1971	"OSRAM" energy saving lamps incandescent bulb 3U 22 W	10.90
N1972	"OSRAM" energy saving lamps incandescent bulb 3U 24 W	10.90
N1973	"OSRAM" energy saving lamps incandescent bulb 3U 26 W	10.90
N1974	"OSRAM" energy saving lamps incandescent bulb SP 9 W	8.30
N1975	"OSRAM" energy saving lamps incandescent bulb SP 11 W	8.30

ENERGY SAVING BULBS

Supply

and Fix

PER NUMBER

\$

“Osram”

N1976	"OSRAM" energy saving lamps incandescent bulb SP 14 W	8.30
N1977	"OSRAM" energy saving lamps incandescent bulb SP 18 W	8.30
N1978	"OSRAM" energy saving lamps incandescent bulb SP 20 W	8.30
N1979	"OSRAM" energy saving lamps incandescent bulb SP 26 W	10.30
N1980	"OSRAM" energy saving lamps incandescent bulb MSP 5 W	8.30
N1981	"OSRAM" energy saving lamps incandescent bulb MSP 7 W	8.30
N1982	"OSRAM" energy saving lamps incandescent bulb MSP 8 W	8.30
N1983	"OSRAM" energy saving lamps incandescent bulb MSP 9 W	8.30
N1984	"OSRAM" energy saving lamps incandescent bulb MSP 12 W	8.30
N1985	"BR elite" energy saving lamps incandescent bulb MSP 15 W	8.30
N1986	"OSRAM" energy saving lamps incandescent bulb FSP 5 W	8.30
N1987	"OSRAM" energy saving lamps incandescent bulb FSP 9 W	8.30
N1988	"OSRAM" energy saving lamps incandescent bulb FSP 13 W	8.30

I / we, the undersigned, are willing to contract for Minor Electrical Corrective Works at Universiti Brunei Darussalam as may be ordered from time to time for the period of **one(1) year** or when the contract amount is not exceeding **fifty thousand Brunei dollar(\$50,000.00)**, which ever come first.

*** (+) PLUS / (-) MINUS% (.....PERCENTUM)**

Defects liability period shall be **6 months**

Contract period:

One (1) year or when the contract amount is not exceeding fifty thousand Brunei dollar (\$50,000.00), which ever come first

Validity Offer:

6 (Six) Months (from the date of quotation)

From:



Contract / Address:

.....

(Official Chop / Signature)

.....

Tel. (off):

.....

H/phone:

.....

Class / Category: 1 & Above / E01,E02

Fax. No:

