

13 February 2019

Agenda Item 15 Appendix 5

I am writing to offer you my quotation for carrying out the maintenance to your street lights for financial year 2019/20, which is **£1.93 plus VAT for LED lanterns**, and **£9.88 plus VAT for Non-LED lanterns**.

**LED lanterns @ £1.93 per lantern**

The reason this quotation is so low and the “what’s included” is so minimal is because LED lanterns require significantly less maintenance than traditional light sources.

**What's included:-**

1. Cyclic electrical safety testing. You will only be notified if there is a problem and this will be carried out every six years.
2. Initial visit should a fault arise to an LED lantern and identification of the problem. As and when it does become necessary to carry out maintenance to an LED lantern, this will be carried out on a rechargeable basis. This includes the replacement of the photocell should it fail.
3. A standby service to receive and deal with emergency issues with the installation 24 hours a day. Work carried out on site by contractors will be rechargeable.
4. A service that liaises with Western Power Distribution (modern equivalent to the old Electricity Board) should a supply fault develop to the light from their network.

**What's not included:-**

1. Any repairs to faulty Western Power Distribution cables, cut outs or fuses (only WPD can undertake these repairs).
2. Repairs following road traffic accidents.
3. Cyclic painting.
4. Any improvement works, eg replacing old lanterns, replacing timeswitches with photocells.
5. Immediate attendance to rectify dangerous occurrences such as doors removed or hanging lantern bowls etc. However attendances to any potentially dangerous occurrence will be carried out immediately and recharged accordingly.
6. Any repairs due to third party damage such as vandalism or vehicle impact.
7. Structural testing of street lighting.

8. Should a fault arise at an LED street lighting point the problem will be identified, and then a recommendation referred to the light owner. Any repairs will be on a rechargeable basis for Plant, Labour, and Materials.

### **Non-LED lanterns @ £9.88 per lantern**

#### **What's included:-**

1. Cyclic lantern clean and lamp change, and visual structural inspection.
2. Cyclic electrical safety testing. You will only be notified if there is a problem and this will be carried out every six years.
3. A standby service to receive and deal with emergency issues with the installation 24 hours a day. Work carried out on site by contractors will be rechargeable.
4. A service that liaises with Western Power Distribution (modern equivalent to the old Electricity Board) should a supply fault develop to the light from their network.
5. Repair of virtually all faults, though please be aware that equipment does have a finite life and sometimes it is necessary to completely replace equipment due to old age or being obsolete which would require an additional charge. (We will advise you if this is something that we find and offer you a quotation for replacing any old or obsolete lanterns). **Please note that these faults are only covered as long as the components are not obsolete. If the components are obsolete you will be contacted and advised accordingly.**

Faults that are covered are defined as:-

- i) Faulty lamp or tube;
- ii) Faulty lamp holder or lamp holder support bracket;
- iii) Faulty lamp or tube support bracket;
- iv) Missing, cracked or broken lantern bowl or faulty gasket;
- v) Loose or mis-aligned lantern;
- vi) Missing or faulty clip, bolt, screw, wingnut, hinge or toggle;
- vii) Missing or faulty Photocell or socket (Photocell will be replaced a maximum of two occasions if missing due to theft without a recharge of costs to yourself);
- viii) Reset mistimed timeswitch or timing device;

ix) Faulty wiring having an open or short circuit or defective insulation resistance of less than 0.5 megohms;

x) Cracked or broken connector block;

xi) Faulty ballast, ignitor, capacitor, starter, gear tray;

xii) Faulty, cracked or broken cut out or termination but excluding any Western Power Distribution cut out (we will issue orders to WPD but payment for repair, if applicable, will be the responsibility of the Owner);

xiii) Faulty fuse or fuse carrier;

xiv) Missing, damaged or incorrect door locks;

xv) Loose or mis-aligned road or footway lighting column projection arm;

xvi) Inoperative isolator;

xvii) Missing or unreadable (from 5 metres distance) identification numeral(s);

xviii) Offensive graffiti or unauthorised signs;

**I would be grateful if you could advise me if you would like WCC to continue carrying out your maintenance in 2019/20 (please feel free to email if this would be convenient).**

## **PART TWO**

I have just written to you with a quotation for carrying out maintenance to your street lights in 2019/20, and I thought that now would be an opportune moment to remind you of some potential street light issues that I have raised previously.

### **LOW PRESSURE SODIUM LANTERNS**

This is the light source which emits a very Orange colour light and is also known as SOX lighting. Lamp manufacture is ceasing very soon and as such the only lamps that will be available are those which are held by Wholesalers - once they are gone they are gone. A further issue that has developed is the availability of lantern components which in some cases have become difficult/impossible to source. This means that once Low Pressure Sodium lights cease working there is a high possibility that it will not be possible to repair them.

**Recommended Action** - If you have any Low Pressure Sodium lanterns it is recommended that you replace them with a LED lantern. The cost for replacing lantern with a LED lantern is typically in the order of £250 per unit. If you would like a quotation to carry out any replacements please contact my colleague Annette Mackie (annettemackie@warwickshire.gov.uk OR 01926 736545) and she will be able to help you.

### **MERCURY LANTERNS**

This is very old technology and emits a white light. These became obsolete in 2015.

**Recommended Action** - Please see recommended action for Low Pressure Sodium lanterns above.

## **STREET LIGHTING COLUMNS**

As with anything material, street lighting columns have a finite life and usually have a design life of 25 years. Steel and Cast Iron columns can corrode/deteriorate in visible locations but they can also corrode/deteriorate internally and below ground level which can not be seen. Concrete columns can develop visible external cracks, and also the Steel reinforcement bars can corrode/deteriorate within the concrete which weakens the column.

**Recommended Action** - Prioritise your lighting columns for replacement on a risk assessed basis, and start to replace as and when possible. I would recommend that you assess and prioritise your columns along the following lines:-

I would prioritise Concrete columns for replacement and the order in which they are prioritised would be based on their location - At the top of your list choose columns in locations where the area has the highest use such as, for example, outside schools, shopping areas, or on traffic routes. At the bottom of your list of concrete columns choose columns in locations where the area has the lowest use such as on footpaths or lower use cul-de-sacs.

I would then prioritise Cast Iron columns based on similar risk assessment detailed in the paragraph for concrete columns.

I would at the same time as above structurally test Steel Columns 25 years and over. There is a recognised method for structurally testing Steel lighting columns and WCC are presently preparing a contract which will be let to a specialist structural engineer in financial year 2019/20. I estimate that the cost for testing Steel columns will be in the order of £10 per column and the Engineer will either certify the columns as being structurally safe for a further period (usually 2, 3, or 5 years depending on the column condition and when it is recommended for re-testing) or recommend that the column is removed as it is structurally unsafe. Please let me know if you would be interested in having any of your columns tested on a rechargeable basis, and once we have let the contract I will advise you of the exact cost and you can then choose whether to proceed or not.

**PLEASE DO NOT PANIC!** In highlighting the issue with street lighting columns, I do not mean to alarm you and make you think that all of your columns are going to collapse immediately - this is extremely unlikely to happen. However, you do need to be aware that you are responsible for these columns, including their structural safety, and that they do have a finite safe working life and need to be replaced before they become unsafe.

If you would like a quotation to carry out any column replacements please contact my colleague Annette Mackie ([annettemackie@warwickshire.gov.uk](mailto:annettemackie@warwickshire.gov.uk) OR 01926 736545) and she will be able to help you.