Pontesbury Parish Council and Minsterley Parish Council

Invitation to tender for supply and installation of a solar lighting scheme

Closing date: 14th April 2021

Contract start date: 26th July 2021
Installation must be completed by 1st September 2021

1. Background

Pontesbury and Minsterley Parish Councils have been successful in an application for CIL Local funds to improve the cycle/footway linking the two villages with the installation of solar lighting.

Usage of the cycle/footpath is increasing due to the development in both villages. In addition, from September 2020, year seven pupils from Minsterley attending Mary Webb secondary school will not be able to access school bus transport this will increase annually to all year groups. Residents use the path to access main services in Pontesbury (medical practice, dentist and shops) and significant employers in Minsterley.

Parents, school staff, governors and the local community have raised safety concerns with Shropshire Highways and both parish councils about children using the path due to the lack of lighting. The local policing team are keen to see increased use of the pathway to encourage less walking and cycling along the busy A488.

2. Project Scope

There are three highway standard lighting columns in place which should be retained.

The proposed solar lighting project would see the supply and installation of solar lights from approximately 50m from the last existing 10m column on the roadway travelling south west from Pontesbury to Minsterley, a distance of 1.2km. It is estimated 30 lights will be needed.

- The solar lights should be operated by PIR sensors to reduce energy consumption.
- The lights should have fully programmable controllers for solar, battery and LED output management.
- The lights should operate for 365 days per year from dusk to dawn.
- Photovoltaic panels should be able to be adjusted to maximise solar energy.
- We require low maintenance solutions with affordable replacement options for battery packs and heads
- Columns should have universal fittings to ensure future proofing
- Design should take account of the rural setting of the project and where possible minimise impact on nocturnal wildlife.

Optimum time for works to take place would be during August whilst the schools are on holiday. The scheme must be completed for the start of the school term in September 2021.

A single point of contact must be available from the point the contract is awarded to until satisfactory completion of the project.

3. Evaluation of Tender

The successful contractor will have complied with all of the written requirements, have satisfactory references, offer the best value for money and be able to guarantee completion by 1st September 2021. We may require further information after the submission of tenders.

4. Documents for Submission

The following should be submitted along with your responses to the evaluation and costings.

- Evidence of public liability insurance
- Evidence of accreditations of staff employed to undertake this contract.
- Health and Safety Statement – to include named contact.
- Three references relating to installations from the last 12 months.
- A lighting design to indicate what Lux levels the lanterns are achieving along the route?

5. Costings

Pricing for supply and installation will constitute 40% of the evaluation.

	Installation	Maintenance
Preliminaries		
Cost of Columns		
Cost of lantern / photovoltaic		
Installation costs		
Replacement lanterns		
Replacement batteries		
Reinstatement		
Total		

6. Submitting a bid

All bids and enquiries should be submitted to:

Name: Gillian Bailey

Email Address: gbailey.locum@gmail.com

Appendix One: Evaluation of Tender

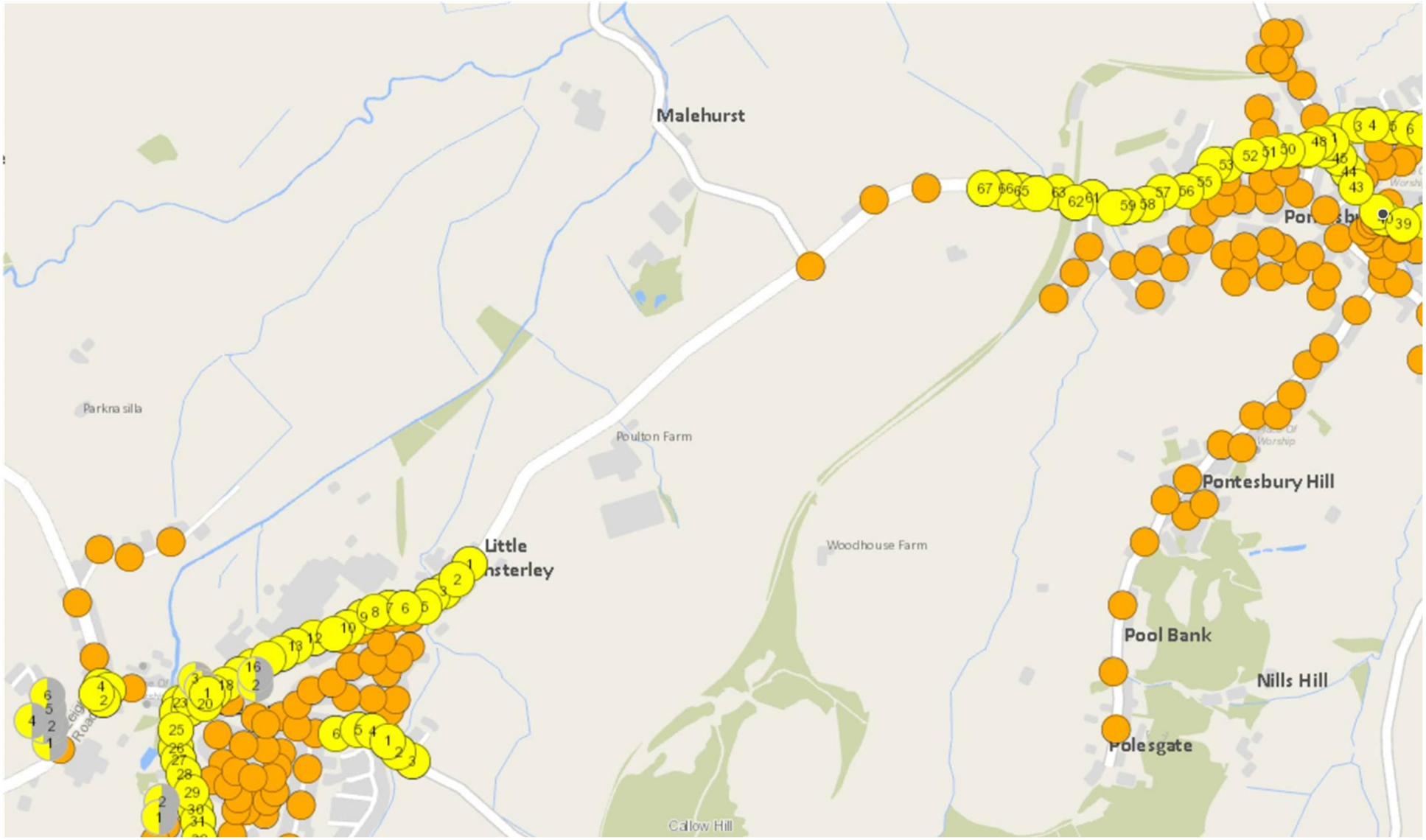
Quality: 60%

No.	Question	Response
1	State the total circuit wattage used by all luminaires.	
2	State the lumen output and drive current drive (mA) range per luminaire.	
3	State the rated life of LEDs and drivers.	
4	State LED performance levels at rated life.	
5	State the luminaire weight and windage area.	
6	State Luminous Intensity Class (G rating) of the luminaire.	
7	State and confirm the method of attachment / securing of the luminaire to the column including the construction and finish of the luminaire and spigot adaptor /bracket / attachment	
8	State the warranty period and provide the details of the warranties.	
9	Provide images of the luminaires for aesthetic evaluation.	
10	Confirm the vibration tests that have been carried out.	
11	State the method of connectivity to the drivers – Bluetooth or NFC.	
12	Confirm toolless entry and captive nuts.	
13	State the method of attaching shields.	
14	State place of manufacture.	
15	Provide a statement on the environmental compliance of the luminaires including recyclability and the WEEE directive.	
16	Provide details of the capacity and capability to deliver luminaires when required.	
17	Compliance to lighting design as required by the specification and confirm in the Lighting Design Results	

Appendix Two: Evaluation Scoring

Tier	Title		Score Weighting
1	**Qualitative Evaluation**		**60%**
	1	Total power circuit wattage	10%
	2	Lumen output and drive current range	2%
	3	Rated life of LEDs and drivers	4%
	4	Rate life and performance at rated Life	4%
	5	Luminaire weight and windage	4%
	6	Luminous intensity class	2%
	7	Luminaire column fitting, spigot adaptors, adaptors and manufacture	2%
	8	Warranty period	5%
	9	Aesthetics	4%
	10	Vibration test	2%
	11	Connectivity - Bluetooth or NFC	2%
	12	Toolless entry and captive nuts	2%
	13	Shields	2%
	14	Place of manufacturer	4%
	15	Environmental - Sustainability and WEEE directive	2%
	16	Capacity and capability to deliver	4%
	17	Lighting design compliance to full luminaire requirements	5%
2	**Price**		**40%**

Appendix Three: Site Plan



Appendix Four: Technical Specification Questionnaire

Please complete the following information:

Batteries	
What type of batteries are you proposing to use?	
How often do you expect the batteries will require replacing under typical operating conditions?	
How long is the warranty	
Where are the batteries stored, above/below ground?	
Can the batteries be expanded upon to increase storage if required?	
How easy is it to replace the batteries?	

Solar Panels	
What type of solar panels are you proposing?	
What is the wattage of the solar panels?	
What size are the solar panels?	
How often will you expect the solar panels will require replacing under typical operating conditions?	
What warranty is on the solar panels?	
How often will the solar panels require cleaning under typical operating conditions?	
How much are the solar panels specifically if replacement is required?	
How easy are the solar panels to replace?	
What is the country of manufacture?	

Lanterns	
What is the wattage of the lanterns?	
What size and weight are the lanterns?	
How often do you expect the lanterns will require replacing under typical operating conditions?	
What is the adjustability of the PIR sensor?	
What warranty is on the lanterns?	
How often will the lanterns require cleaning under typical operating conditions?	

How much are the lanterns specifically if replacement is required?	
How easy is it to replace the lanterns?	
What is the country of manufacture for the lanterns?	

Columns	
What height columns are you proposing?	
What materials are the columns manufactured from?	
How often do you expect the columns will require replacing under typical conditions?	
What warranty do the columns have?	
How much are the columns specifically if replacement is required (supply only) & (supply and install option)?	
How easily can the columns be replaced including transfer of lantern, batteries and solar panels?	
What is the country of manufacture for the columns?	