

Volume 2 – Technical Specification

Supply of Festive Decorative Lighting

Tender Reference: DCDCLG-2026-001

Contracting Authority: Dunleer Community Development CLG

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1. Purpose of the Specification

This document defines the minimum technical, quality and performance requirements for the supply of commercial-grade festive lighting equipment to Dunleer Community Development CLG.

The successful Tenderer shall supply products that meet or exceed these requirements.

The specification is performance-based. Any reference to a particular type of product is descriptive only and equivalent products offering equal or superior performance shall be accepted.

2. Scope of Supply

The Contract includes the supply and delivery of:

- LED decorative lighting
- Illuminated feature displays
- Pole-mounted decorative motifs
- Decorative stars
- Illuminated Christmas trees
- Illuminated wreaths
- Walk-through illuminated feature
- Projection lighting equipment

- Power supplies
- Connectors
- Distribution equipment
- Cabling
- Mounting hardware
- Ancillary accessories

Installation is excluded from this Contract.

3. General Technical Requirements

All products supplied shall:

- Be new and unused.
- Be suitable for repeated seasonal use.
- Be manufactured for commercial outdoor applications.
- Be designed for operation in the Irish climate.
- Be resistant to moisture, UV exposure and corrosion.
- Be free from manufacturing defects.
- Be suitable for storage between seasons without deterioration.

Products shall be robust enough to withstand normal handling, transportation and seasonal installation.

4. Product Specifications

4.1 LED Decorative Lighting

The decorative lighting system shall:

- utilise high-efficiency LED technology;
- provide a warm white light unless otherwise specified;
- offer consistent illumination across all sections;
- be suitable for modular connection;
- permit replacement of damaged sections without replacing the complete system.

Minimum requirements:

Requirement	Minimum Standard
Voltage	Manufacturer's standard low-voltage or protected mains system
Outdoor Rating	Minimum IP65
LED Life	Minimum 50,000 hours
Cable	UV-resistant
Connectors	Weatherproof
Operating Temperature	-20°C to +40°C

4.2.Decorative Pole Motifs

Pole-mounted decorations shall:

- be manufactured using corrosion-resistant aluminium or equivalent;
- be lightweight;
- include fixing brackets;
- be designed to minimise wind loading;
- incorporate commercial-grade LED lighting.

4.3.Illuminated Stars

Stars shall:

- provide uniform illumination;
- have rigid frames;
- include mounting arrangements;
- be suitable for repeated installation.

4.4.Illuminated Trees

Trees shall:

- be pre-wired where appropriate;
- provide even lighting;
- incorporate durable support frames;
- withstand repeated seasonal use.

4.5.Illuminated Wreaths

Wreaths shall:

- be commercial quality;
- provide uniform illumination;
- utilise UV-resistant materials;
- include mounting points.

4.6.Illuminated Feature Displays

Feature displays may include decorative sculptures or themed festive elements.

Features shall:

- incorporate structural aluminium or galvanised steel frames;
- use commercial LED lighting;
- be suitable for public realm use;
- have removable electrical components where practical.

4.7.Walk-Through Feature

The walk-through feature shall:

- be self-supporting when installed correctly;
- permit pedestrian access;
- incorporate LED lighting;
- include structural certification where applicable.

4.8.Projection Lighting Equipment

Projection equipment shall:

- be designed for permanent outdoor operation during the festive season;
- project seasonal effects;
- incorporate adjustable optics;
- include mounting brackets;
- comply with applicable electrical safety requirements.

4.9.Power Supplies

Power supplies shall:

- match the proposed lighting system;
- incorporate overload protection;
- comply with relevant electrical standards;
- be suitable for outdoor use.

4.10 Connectors

Connectors shall:

- be compatible with the proposed lighting system;
- provide weatherproof connections;
- permit repeated seasonal use.

4.11 Cabling

All cabling shall:

- be UV resistant;
- be suitable for outdoor environments;
- comply with applicable standards;
- be clearly identified.

4.12 Mounting Hardware

Mounting hardware shall:

- be corrosion resistant;
- be suitable for the proposed products;
- include all required fasteners

5. Electrical Requirements

All electrical equipment shall:

- comply with applicable Irish and EU legislation;
- be CE marked;
- comply with the Low Voltage Directive;
- comply with EMC requirements;
- include appropriate electrical protection.

6. Mechanical Requirements

Structural components shall:

- resist corrosion;
- resist deformation;
- be suitable for outdoor use;
- withstand expected environmental conditions.

Sharp edges shall not be present.

7. Quality Assurance

Tenderers shall operate a recognised quality management system.

The Contracting Authority may request:

- factory inspection reports;
- quality certificates;
- product test certificates.

8. Sustainability Requirements

Products should:

- minimise energy consumption;
- maximise product lifespan;
- permit component replacement;
- minimise packaging;
- utilise recyclable materials where practical.

Tenderers should describe any environmental initiatives associated with their products.

9. Packaging

Products shall be:

- securely packaged;
- clearly labelled;
- protected against moisture;
- protected against transport damage.

Packaging should be recyclable wherever possible.

10. Delivery Requirements

The Tenderer shall:

- deliver all goods to the nominated location in Dunleer;
- provide advance notification of delivery;
- provide delivery documentation;
- clearly identify each package.

Damaged goods shall be replaced at no additional cost.

11. Inspection and Acceptance

The Contracting Authority reserves the right to inspect all products upon delivery.

Acceptance shall be subject to confirmation that:

- quantities are correct;
- products conform to specification;
- products are undamaged;
- documentation has been supplied.

Goods may be rejected where they fail to comply with the Contract.

12. Warranty

Tenderers shall provide details of the warranty applicable to each product.

As a minimum, Tenderers should state:

- warranty period;
- exclusions;
- claims procedure;
- replacement arrangements.

Longer warranty periods may be considered advantageous during evaluation where this forms part of the published award criteria.

13. Spare Parts and Product Support

Tenderers shall confirm:

- availability of spare parts;
- expected availability period;
- replacement lead times;
- technical support arrangements.

14. Product Documentation

Tenderers shall supply:

- technical data sheets;
- product catalogues;
- installation guidance (where relevant);
- maintenance recommendations;
- warranty information;
- declarations of conformity.

15. Equivalent Products

Where a Tenderer proposes an equivalent product, the Tenderer shall provide sufficient information to demonstrate that the proposed product meets or exceeds the specified performance requirements.

The Contracting Authority reserves the right to request additional technical information to verify equivalence.

16. Schedule of Goods (Indicative)

The following table identifies the categories of goods required. Tenderers shall complete the Pricing Schedule (Appendix A) using these or equivalent items.

Item Ref.	Goods Category	Indicative Quantity
G001	LED Icicle Lighting Sections	172
G002	LED String Lighting Sections	20
G003	Pole-Mounted Illuminated Motifs	8
G004	Pole-Mounted Illuminated Stars	10
G005	Illuminated Decorative Trees	25
G006	Illuminated Wreaths	5
G007	Large Illuminated Feature Display	2
G008	Walk-Through Illuminated Feature	1
G009	Projection Lighting Unit	1
G010	Power Supplies	As Required
G011	Connectors	As Required
G012	Cabling	As Required
G013	Mounting Hardware	As Required

Notes

- a) Quantities are indicative and may be adjusted before contract award.
- b) Equivalent products are permitted where they satisfy the stated technical and performance requirements.
- c) All goods must be delivered complete with any accessories necessary for their intended use.