



**Comhairle Cathrach
Bhaile Átha Cliath
Dublin City Council**

**Appendix B2 – Lot 2 Scored Criteria Response
Lot 2 – Electric Large Road Sweepers (Purchase)**

**Framework Agreement for the Supply and Delivery of Large
Truck-Mounted Road Sweepers**

Appendix B2 - Fitness for Purpose Scored Criteria Response

Instructions to Tenderers

This document shall be completed and submitted by Tenderers in support of their response to the **Lot 2 Scored Criteria** contained within **Appendix A2 – Lot 2 Electric Large Road Sweepers: Fitness for Purpose Evaluation Workbook**.

The purpose of this document is to enable Tenderers to demonstrate the technical, operational, engineering and whole-life value benefits of the proposed vehicle and associated systems beyond the mandatory requirements set out in Appendix A2.

Tenderers shall provide a detailed response to each scored criterion contained within this document. Responses should clearly describe the features, functionality, technical characteristics, engineering advantages and operational benefits of the proposed vehicle and should be supported by appropriate evidence where available.

Each response shall clearly identify the relevant criterion reference number and include any supporting evidence, specifications, brochures, drawings, photographs, certificates, test reports, performance data or other information considered relevant to the assessment of that criterion.

Supporting information may include, but is not limited to:

- Technical specifications;
- Product brochures;
- Drawings and diagrams;
- Photographs;
- Test reports;
- Performance data;
- Certificates;
- Research and development information;
- Independent verification reports; and
- References to published technical information.

Tenderers shall ensure that all responses are clearly referenced to the relevant criterion number. Where supporting information is provided elsewhere within the Tender submission, the location of the supporting information shall be clearly identified and appropriate cross-references included within the response.

The Contracting Authority reserves the right to seek clarification or verification of any information provided as part of the Tender submission.

Failure to provide sufficient information to enable a full assessment of a scored criterion may result in a reduced score being awarded for that criterion.

A.1 Fan Drive System

Ref.	Maximum Marks	Minimum Marks Required
A.1	1,100	550

Marking Methodology

Marks will be awarded based on the efficiency, durability, reliability and whole-life operating costs of the fan drive system.

Particular consideration will be given to drive arrangements that minimise energy consumption, reduce power transmission losses, minimise heat generation, minimise wear components, reduce maintenance requirements and maximise the efficient transfer of electrical power to the suction fan during continuous municipal sweeping operations.

Systems incorporating direct electric drive arrangements that minimise reliance on hydraulic, belt-driven or other intermediate transmission components will be scored favourably where they provide improved energy efficiency, extended operating endurance, reduced maintenance requirements and enhanced long-term durability.

Additional consideration will be given to designs that maximise operational efficiency, residual value and minimise total cost of ownership throughout the operational life of the vehicle.

Tenderer's Response

A.2 Dust Suppression Protection System

Ref.	Maximum Marks	Minimum Marks Required
A.2	412.5	206.25

Marking Methodology

Marks will be awarded for systems that monitor clean water levels and automatically prevent, suspend or limit sweeping operations when the dust suppression water supply is depleted. Consideration will be given to the extent to which the system minimises operator intervention, prevents dry sweeping, reduces particulate emissions and supports compliance with air quality objectives. Higher marks will be awarded where sweeping functions are automatically controlled until effective dust suppression capability is restored. This feature assists in controlling PM10 and PM2.5 emissions, reducing airborne dust generation and supporting the maintenance and improvement of air quality within the Dublin City Council administrative area.

Tenderer's Response

A.3 Operator Programmable Presets

Ref.	Maximum Marks	Minimum Marks Required
A.3	275	137.5

Marking Methodology

Marks will be awarded for operator-programmable preset controls that allow multiple sweeping functions and operating parameters to be stored and recalled at the touch of a single button. The feature will be assessed on functionality, flexibility and the number of available programmable presets. Higher marks will be awarded for systems that reduce operator workload, improve operational consistency and minimise the need for multiple manual adjustments during sweeping operations. Such systems assist operators by reducing cognitive load and distraction, allowing greater focus on driving, hazard observation, road users and the safe operation of the vehicle while maintaining efficient sweeping performance. Additional marks will be awarded where a greater number of programmable presets are provided, enabling operators to quickly adapt the machine to varying operational conditions.

Tenderer's Response

A.4 Brush Positioning & Kerb Tracking Control

Ref.	Maximum Marks	Minimum Marks Required
A.4	412.5	206.25

Marking Methodology

Marks will be awarded for the operator's ability to continuously adjust and precisely position the channel brushes during sweeping without interruption to operations. Consideration will be given to systems that allow real-time brush extension and retraction throughout the full working range, enabling operators to accurately follow kerb lines, sweep around parked vehicles and street furniture, and avoid obstacles while maintaining optimum sweeping performance. Higher marks will be awarded for systems providing precise, continuously variable control throughout the full operating range. This feature assists operators in maintaining optimum kerb contact, improving debris collection efficiency, reducing missed material, minimising brush wear and reducing accidental contact with roadside infrastructure.

Tenderer's Response

A.5 Brush Protection System

Ref.	Maximum Marks	Minimum Marks Required
A.5	412.5	206.25

Marking Methodology

Tenders shall describe the brush protection system fitted to the proposed machine and explain how damage to the brush assembly is prevented when encountering fixed obstacles during normal sweeping operations. Tenderers should provide technical details and evidence demonstrating how the system reduces maintenance requirements, component wear and damage to the sweeping equipment.

Marks will be awarded for systems that minimise the risk of damage to brushes, brush arms, mountings and associated components when operating adjacent to fixed obstacles. Consideration will be given to the effectiveness of the protection system, its ability to reduce maintenance requirements, minimise repair costs and prevent damage to both the machine and roadside infrastructure such as kerbs, bollards, street furniture and other fixed assets. Higher marks will be awarded for systems that provide automatic protection and reduce the likelihood of accidental impact damage during normal sweeping operations.

Tenderer's Response

A.6 Rear Discharge Chute / Debris Tray Design

Ref.	Maximum Marks	Minimum Marks Required
A.6	275	137.5

Marking Methodology

Tenders shall describe the design of the rear discharge chute/debris tray located beneath the hopper door opening. Marks will be awarded for designs that provide a solid, continuous and unobstructed discharge surface, preventing the ingress and accumulation of debris within door locking mechanisms, hinges, lighting assemblies and other service-critical components. Consideration will be given to the ability of the design to minimise material retention, reduce component wear, lower maintenance requirements, improve discharge efficiency and protect rear lighting and associated equipment from contamination or obstruction. Higher marks will be awarded for designs that eliminate unnecessary apertures, cut-outs or other interruptions within the discharge path.

Tenderer's Response

A.7 Nozzle Box Height and Air Gap Adjustment

Ref.	Maximum Marks	Minimum Marks Required
A.7	275	137.5

Marking Methodology

Tenders shall describe the method used to adjust the front and rear nozzle box height and air gap settings. Tenderers should provide details of the adjustment mechanism, tools required, number of operators required, and whether any nozzle box components must be removed during adjustment.

Marks will be awarded for adjustment systems that enable a single operator to quickly and accurately set the nozzle box height and air gap with minimal effort and tooling requirements. Consideration will be given to the simplicity of the adjustment process, accessibility of adjustment points, repeatability of adjustment settings, time required to complete adjustments, and whether nozzle box components must be removed during setup. Higher marks will be awarded for systems that allow rapid adjustment using basic hand tools without dismantling or removing any nozzle box components.

The nozzle box air gap is a critical factor affecting suction efficiency, debris collection performance, energy consumption and wear of consumable components. As nozzle box adjustment is a routine operator task, systems that simplify setup and adjustment reduce operator effort, improve consistency of machine setup, minimise downtime and help maintain optimum sweeping performance throughout the operating life of the machine

Tenderer's Response

A.8 Innovation and Product Development

Ref.	Maximum Marks	Minimum Marks Required
A.8	1,100	550

Marking Methodology

Marks will be awarded for demonstrated innovation, engineering capability and ongoing investment in research, development and product improvement activities that contribute to improvements in safety, reliability, durability, environmental performance, maintenance requirements, operational efficiency, productivity and whole-life cost.

Tenderers shall describe the research, development, engineering, digital technology and innovation activities employed in the design, manufacture and continuous improvement of the proposed machine. This may include, but is not limited to, advanced engineering methods, simulation and modelling, testing and validation programmes, artificial intelligence, automation, telematics, digital technologies, proprietary developments, patented technologies, collaborative research programmes and other innovation initiatives.

Tenderers shall provide evidence demonstrating how such activities have been incorporated into the proposed machine and the measurable benefits achieved. Evidence may include patented technologies, proprietary developments, externally funded innovation projects, partnerships with universities or research institutions, published technical research, product performance data, or other demonstrable investment in research, development and innovation.

Higher marks will be awarded where clear and objective evidence is provided demonstrating quantifiable improvements in performance, safety, reliability, maintainability, environmental outcomes, operational efficiency or total cost of ownership, particularly where such innovations have been successfully implemented in production machines and deliver demonstrable benefits to the Contracting Authority.

Tenderer's Response

A.9 ISO Certification

Ref.	Maximum Marks	Minimum Marks Required
A.9	275	137.5

Marking Methodology

Marks will be awarded for the implementation and maintenance of independently certified management systems that demonstrate organisational commitment to quality assurance, environmental management, energy performance and occupational health and safety.

Consideration will be given to certification to recognised international standards including ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 45001 (Occupational Health & Safety Management) and ISO 50001 (Energy Management), together with evidence demonstrating the effective implementation and ongoing operation of such systems within the organisation.

Higher marks will be awarded where tenderers demonstrate a comprehensive and independently certified management framework supporting continual improvement, product quality, environmental sustainability, energy efficiency, regulatory compliance and workforce safety.

Tenderer's Response

A.10 Hopper Screen Cleaning System

Ref.	Maximum Marks	Minimum Marks Required
A.10	275	137.5

Marking Methodology

Marks will be awarded for the provision of a hopper vibration or screen cleaning system designed to remove accumulated debris from the hopper screens and maintain airflow during sweeping operations. Tenderers shall describe the system provided.

Tenderer's Response

A.11 Chassis Design, Performance & Whole-Life Cost

Ref.	Maximum Marks	Minimum Marks Required
A.11	687.5	343.75

Marking Methodology

Marks will be awarded for the suitability of the proposed vehicle and chassis for municipal road sweeping operations, taking account of battery capacity, usable battery capacity, operating endurance, charging performance, operator visibility, manoeuvrability, serviceability, reliability and whole-life operating costs.

Consideration will be given to vehicle design features that improve operational efficiency, maximise productive operating time, reduce charging downtime, enhance driver safety and comfort, minimise maintenance requirements and minimise lifetime ownership costs.

Higher marks will be awarded where tenderers can demonstrate measurable operational, maintenance, energy efficiency and economic benefits supported by technical information and operational experience.

Tenderer's Response