

**T8080-230054**

Professional Services for Hybrid and Electric Vehicle Minimum Sound Testing

**1. Description of the Requirement**

Hybrid and electric vehicles (HEVs) are significantly quieter than their internal combustion engine (ICE) counterparts when driven at low speeds, heightening the risk of collision to vulnerable road users who rely on audible signals when navigating in the vicinity of traffic (e.g., in parking lots and while crossing streets).

As of December 2, 2022, Canada Motor Vehicle Safety Standards now include regulations (CMVSS 141) for minimum sound requirements for every hybrid or electric passenger car, multi-purpose passenger vehicle, truck, bus, and low-speed vehicle with a gross vehicle weight rating of 4,536 kg or less.

The safety standard includes requirements for acoustic parameters when the vehicle is about to move or is moving at low speeds. These requirements will increase the likelihood that blind, visually impaired, and other pedestrians, and pedal cyclists are able to detect and recognize nearby light duty hybrid and electric vehicles. These specifications should allow the pedestrian to recognize that there is a vehicle present, where that vehicle is, and in what state it is operating, more precisely, if the vehicle is accelerating or decelerating, going forward or reversing.

Transport Canada is seeking laboratory compliance testing, CMVSS 141 on light-duty vehicles to a standard of UN ECE Regulations No. 138 or CFR Standard No. 141.

As well an unbiased vehicle minimum sound research testing on an expanded scope of vehicles, including conventionally powered, hybrid, and electric; medium and heavy-duty vehicles. Research testing results will provide the technical evidence necessary to guide Canadian motor vehicle safety regulations for medium and heavy-duty electric vehicles.

**2. Period of the Contract**

The term of the Standing Offer will be a two-year contract period. Each contract will commence approximately 15 August 2023 and will end on March 31, 2025, with two (2) one (1) year option periods.

**3. Applicable Trade Agreements**

Canada Free Trade Agreement (CFTA), Canada-Chile Free Trade Agreement, Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP), Canada-Colombia Free Trade Agreement, Canada-European Union Comprehensive Economic and Trade Agreement (CETA), Canada-Honduras Free Trade Agreement, Canada-Korea Free Trade Agreement, Canada-Panama Free Trade Agreement, Canada-Peru Free Trade Agreement, Canada-Ukraine Free Trade Agreement, Canada-United Kingdom Trade Continuity Agreement, World Trade Organization-Agreement on Government Procurement (WTO-GPA)

**3. Good and Services Identification Number (GSIN)**

B219A Other Engineering Studies

**6. Security Requirement:**

There are no security requirements

**7. Contracting Authority**

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