



## ANNEX A- STATEMENT OF REQUIREMENT

### RFP23-58199 HI-RAIL PICKUP TRUCK

#### 1. Background

The National Research Council Canada (NRC) has a requirement to procure a Hi-Rail Pickup Truck to conduct scientific research on railways. This dual-mode specialized vehicle will operate as a multi-functional research vehicle through the integration of scientific instruments, sensors, and experimental set-ups tailored for railway-centric studies. By utilizing the adaptability and mobility of the Hi-rail vehicle, the NRC's goal is to conduct innovative research across various disciplines, including infrastructure analysis, environmental monitoring, and technology evaluation.

#### 2. Acronyms

CSA	Canadian Standards Association/Association canadienne de normalisation
ULC	Underwriters Laboratories of Canada/ Laboratoires des assureurs du Canada

#### 3. Requirement

The Contractor must supply and deliver one (1) Hi-Rail Pickup Truck in accordance with the technical requirements at Table 1: Hi-Rail Pickup Truck.

#### **Table 1: Technical Requirements for the Hi-Rail Pickup Truck**

The Hi-Rail Pickup Truck must meet the following criteria:

The proposed vehicle must be a heavy-duty pick-up truck, between three-quarter (3/4) and one (1) ton, with crew cab (4 doors) and a six (6) to seven (7) foot length cargo box.
The proposed pickup truck must come with a 4x4 drivetrain.
The proposed pickup truck must be gas powered.
The proposed pickup truck must be brand new and model year 2023 or newer.
The proposed vehicle must be delivered with a fully installed Hi-Rail system and four (4) installed tires, allowing it to drive on the road and Canadian railway system.



<p>The proposed pickup truck must be delivered fully configured for dual purpose road to rail and must allow for operation on Canadian standard gauge railway tracks and conventional roads. **</p>
<p>The proposed pickup truck must be outfitted with all necessary accessories and equipment for rail operation including back-up alarms and, lighting for visibility on railway tracks (beacon, front, and rear working lights).</p>
<p>The proposed pickup truck must adhere to all relevant regulatory requirements and possess the necessary certifications for operation on railway tracks and conventional roads. **</p>
<p>All equipment, goods and workmanship must conform to all Laws and Standards necessary for use in Canada and the Province of Ontario – such as CSA, ULC, Canadian Weights and Measures, Environmental Protection Act, etc.</p>

\*\*Relevant regulatory requirements and necessary certifications must be as per listed under the “North American Railcar Operators Association CFR 214.523” which includes conversion and installation operation, including but not limited to reinforced structural integrity, reliable braking systems, exhaust modifications and proper lighting for visibility on railway tracks (beacon, front, and rear working lights).

### 3. Deliverables

- 3.1 One Hi-Rail Pickup Truck with an estimated receiving date on or before **March 29, 2024** and in accordance with best commercial standards. The Contractor must deliver the system to ground level loading dock in satisfaction of the contract requirements to:

Delivery Point:  
National Research Council Canada  
2320 Lester Road  
Building U89  
Ottawa, Ontario  
K1V 1S2

### 3.2 Manuals and documentation

The Contractor must deliver one (1) complete set of operator, service and repair manuals/documentation, in English in both hard and soft copy. The documentation must include all publications pertaining to technical specifications, and operating instructions. All electronic copies must be delivered in Adobe PDF format.

### 3.3 Warranty



The warranty coverage of the unit must include a minimum one (1) year warranty which includes all repairs, parts, labor, and shipping on the Hi-Rail system.

**4. Security**

There is no Security Requirements applicable to the Contract.

**5. Intellectual Property (IP) Ownership**

- Not applicable
- Canada to Own Intellectual Property Rights in Foreground Information
- Contractor to Own Intellectual Property Rights in Foreground Information

**6. Controlled Goods**

- Not applicable
- Applicable