Solicitation No. T8080-220115
Advance Contract Award Notice

Advance Contract Award Notice (ACAN)

An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

1. TITLE

Data Collection for the Canadian Vehicle Specifications Database.

2. DEFINITION OF THE REQUIREMENT

Transport Canada has a requirement for the compilation of a database of original vehicle dimensions for light-duty vehicles for the 2023 model year, with options to collect the data for three (3) additional one (1) year periods.

The Collision Investigations and Research Division of the Multimodal and Road Safety Programs (MRSP) Directorate of Transport Canada maintains a database of original vehicle dimensions, the Canadian Vehicle Specifications (CVS), which are used in the investigation and reconstruction of real-world crashes.

The users of this database are primarily Transport Canada investigators and police officers across Canada. The database is also made available to the National Highway Traffic Safety Administration (NHTSA) and the National Transportation Safety Board (NTSB) of the United States for use by their collision investigation personnel. A variety of other organizations make use of the resulting data including members of the Canadian Association of Technical Accident Investigators and Reconstructionists (CATAIR), and members of the Accident Investigation and Reconstruction Practices Committee of the Society of Automotive Engineers (SAE).

The work will involve the following:

1) The measurement and collection of original dimensions of new motor vehicles including, but not limited to, the overall length, width and height, front and rear axle overhangs, front

and rear track widths, wheelbase, curb mass, and the front and rear axle weight distribution. In addition, there are several dimensions which define the damage extent zones for front, rear, side, rollover and undercarriage impacts as specified by the Society of Automotive Engineers' (SAE) Recommended Practice "J224™_202205 – Collision Deformation Classification", published by SAE International, May 2022.

2) The individual data elements which are required for each vehicle model are described in Appendix 1.

3) All linear dimensions are to be provided in centimeters (cm). Vehicle mass is to be provided in kilograms (kg). Weight distribution is to be given in percentage terms for the proportion of the vehicle mass carried by the front and rear axles of the vehicle.

4) The following measurement conventions must be adopted for consistency with previous versions of the database:

   a) For full size trucks and vans, rear bumpers are not included with the measured dimensions since these components are often optional equipment items.

   b) For small trucks, vans, and light utility vehicles, rear bumpers are included in the measured dimensions. Generally, bumpers on these vehicles are integrated into the body design or are supplied as a standard item by the manufacturer.

   c) Bumperettes are excluded from all measurements.

5) Data must be supplied for each individual make and model of vehicle, categorized by body style and trim level where these result in vehicles of different dimensions. Examples would include sedan and hatchback versions of vehicles based on the same platform, pickup trucks with short and long cargo boxes, and vehicles with and without four-wheel drive powertrains.

6) The data is to be compiled in an electronic database using Microsoft Access and the database structure specified in Appendix 2. A separate database file is to be provided for each model year of vehicle.

7) For each individual make/model record, a measurement year (MY) is to be specified. This is the year in which the measurements were made for the specified vehicle. This field is used internally to track updates to individual records.

8) The specific tasks to be conducted for this project are as follows:

a) Obtain the data elements specified in Appendix 1 for all light duty vehicles of model year 2023 being marketed in Canada, and for any light duty vehicles of model year 2024 which are currently available.

b) Compile the resulting data into an electronic database using the database structure specified in Appendix 2.

c) Submit an interim database on or before March 31, 2023.

d) Submit the completed database, and a final report documenting the procedures adopted, on or before March 31, 2023.

3. Criteria for assessment of the Statement of Capabilities (Minimum Essential Requirements)

Any interested supplier must demonstrate by way of a statement of capabilities that it meets the following requirements:

Experience:

1. A minimum of 5 years of experience within the last 7 years in the automotive industry to conduct the work as per the "Definition of The Requirement"; and

2. A minimum of 5 years of experience within the last 7 years in the creation of a databases and the preparation of technical reports to conduct the work as per "Definition of the Requirement".

Education:

Must possess a degree from a recognized university in mechanical engineering.

Occupational Certification:

Must possess a Professional Engineer (P. Eng.) license to practice engineering issued by a provincial or territorial engineering regulatory body.

4. Applicability of the trade agreement(s) to the procurement

This procurement is subject to the following trade agreements:

- *Canadian Free Trade Agreement* (CFTA)

- *Canada-Chile Free Trade Agreement* (CCFTA)
- *Canada-Colombia Free Trade Agreement*
- *Canada-Honduras Free Trade Agreement*
- *Canada-Korea Free Trade Agreement*
- *Canada-Panama Free Trade Agreement*
- *Canada-Peru Free Trade Agreement* (CPFTA)

5. Justification for the Pre-Identified Supplier

The proposed supplier is the only known contractor that meets the above requirements.

6. Government Contracts Regulations Exception

The following exception(s) to the *Government Contracts Regulations* is (are) invoked for this procurement under subsection 6(d) – "only one person or firm is capable of performing the work.

7. Ownership of Intellectual Property

Ownership of any Foreground Intellectual Property arising out of the proposed contract will vest with the Contractor.

8. Period of the proposed contract or delivery date

The proposed contract period will be from Contract Award to March 31, 2023, with three (3) one (1) year option years.

** Most of the work will be concentrated during the months of September to March of each year of the contract.

9. Cost estimate of the proposed contract

The estimated value of the contract, including option(s), is $113,105.96. (GST/HST extra).

10. Name and address of the pre-identified supplier

Jenish Forensic Engineering
74 Park Road South

Oshawa, ON L1J 4G9

11. Suppliers' right to submit a statement of capabilities

Suppliers who consider themselves fully qualified and available to provide the goods, services or construction services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

12. Closing date for a submission of a statement of capabilities

The closing date and time for accepting statements of capabilities is October 20, 2022 at 2:00 p.m. EDT.

13. Inquiries and submission of statements of capabilities

Inquiries and statements of capabilities are to be directed to:

Maureen Mateush
Procurement Specialist
Transport Canada (AFTC)
275 Sparks Street
Ottawa, ON K1A 0N5
Email: maureen.mateush@tc.gc.ca

APPENDIX 1

Canadian Vehicle Specifications Database
Data Format (All dimensions in cm)

A. Longitudinal distance between the center of the front bumper and the center of the base of the windshield

B. Passenger car - Longitudinal distance between the center of the rear bumper and the center of the base of the backlight

Station wagons and vans - Longitudinal distance between the backlight top molding and the front door latch pillar

Pick-up trucks - Longitudinal distance between the rearmost projection and the front door latch pillar

C. The maximum vertical height of the side glass

D. Vertical distance between the base of the side glass and the lower edge of the rocker panel

E. Distance between the side rails or the maximum width of the top

F. Front overhang

G. Rear overhang OL. Overall length

OW. Overall width

OH. Overall height

WB. Wheelbase

TF. Front track width

TR. Rear track width

CW. Curb weight (Vehicle mass in kg)

WD. Weight distribution (Front/rear in %)

APPENDIX 2

Canadian Vehicle Specifications Database Structure

Field	Field Name	Type	Width	
1	MAKE	Character	20	
2	MODEL	Character	45	
3	MYR	Character	2	* Note 1
4	OL	Character	3	
5	OW	Character	3	
6	OH	Character	3	
7	WB	Character	3	
8	CW	Character	4	
9	A1	Character	3	* Note 2
10	B1	Character	3	
11	C1	Character	3	
12	D1	Character	3	
13	E1	Character	3	
14	F1	Character	3	
15	G1	Character	3	
16	TWF	Character	3	
17	TWR	Character	3	
18	18 WDIST	Character	5	

Notes:

1. The field name “MYR” is the “Measurement Year”, i.e. the year in which measurements were taken. This may be different than the vehicle model year.

2. Field names A1 through G1 correspond to the data elements A through G described in Appendix 1.