

# REQUEST FOR INFORMATION

## A.1 Background and Purpose of this Request for Information (RFI)

### Project Summary

Measurement Canada is embarking on a project to purchase a new NH<sub>3</sub> Gravimetric Prover for the Western Region.

### Project Description

With the vast amount of trade of NH<sub>3</sub> in the market MC wants to meet our mandate by ensuring that the devices used in trade meet Measurement Canada requirements.

Measurement Canada has not acquired an NH<sub>3</sub> Gravimetric Prover in a number of years and we are seeking input and feedback on our requested technical specifications that are attached in appendix A of this document.

### Objectives

1. Feedback from the industry with respect to the matters described in this RFI.
2. Be at the forefront of new technology to replace conventional equipment traditionally used for operational needs.
3. Work with external stakeholders to promote and build a strong lasting relationship for future projects. New training opportunities may also be available that aligns with strategic direction of organization (MC).

## A.2 Nature of Request for Information

Feedback from the industry with respect to the matters described in this RFI. The objective of this RFI is to acquire the knowledge and technical information about our needs (NH<sub>3</sub> Gravimetric Prover) so we can begin a competitive process in a manner that enhances access, fairness and results in best interests of the Crown and Canadian people.

To advise suppliers that they can propose improvements to the technical requirements contained in APPENDIX A.

## A.3 Nature and Format of Responses Requested

Measurement Canada will accept :

- Invitation to a Site visits AND/OR
- Video and Teleconferences AND/OR
- Any suggestions by email

#### **A.4 Response Costs**

Government of Canada will not reimburse any respondent for expenses incurred in responding to this RFI.

#### **A.5 Treatment of Responses**

(a) **Use of Responses:** Responses will not be formally evaluated. However, the responses received may be used by Canada to develop or modify procurement strategies or any draft documents contained in this RFI. Canada will review all responses received by the RFI closing date. Canada may, in its discretion, review responses received after the RFI closing date.

(b) **Review Team:** A review team composed of representatives of the client (where applicable) and PWGSC will review the responses. Canada reserves the right to hire any independent consultant, or use any Government resources that it considers necessary to review any response. Not all members of the review team will necessarily review all responses.

(c) **Confidentiality:** Respondents should mark any portions of their response that they consider proprietary or confidential. Canada will handle the responses in accordance with the *Access to Information Act*.

(d) **Follow-up Activity:** Canada may, in its discretion, contact respondents to follow up with additional questions or for clarification of any aspect of a response. Any additional questions will be sent to all respondents in order to respect full transparency.

#### **A. 6 Contents of this RFI**

- (a) This RFI contains specific questions addressed to the industry.
- (b) This RFI contains Requirement document detailed in APPENDIX A.

#### **A.7 Question to Industry**

- Is there any product functionality missing in the technical criteria?
- Is there any product licensing that should be included in the technical criteria?
- Is product training provided?
- Can the technical data be improved upon?
- Can the delivery date of the prover specified in Appendix A be met?
- What is the expected cost to deliver the final product?

## A. 8 Enquiries

Because this is not a bid solicitation, Canada will not necessarily respond to enquiries in writing or by circulating answers to all potential suppliers. However, respondents with questions regarding this RFI may direct their enquiries to:

Shabornee Dasgupta – Procurement Officer  
Innovation, Science and Economic Development Canada  
Measurement Canada  
shabornee.dasgupta@ised-isde.gc.ca

## A. 9 Submission of Responses

(a) Time and place for submission of responses: Suppliers interested in providing a response should e-mail to the Contracting Authority identified above by the time and date indicated on page 1 of this document.

(b) Responsibility for timely delivery: Each respondent is solely responsible for ensuring its response is delivered on time to the correct location.

(c) Identification of response: Each respondent should ensure that its name and return address, the solicitation number and the closing date appear legibly on the outside of the response.

## APPENDIX A. Technical Criteria (Requirements)

Trailer Considerations	<ul style="list-style-type: none"><li>- Max length must not exceed 18 feet overall, max width is the legal limit for Canadian highways, max height is 8 feet overall including prover.</li><li>- Minimum 7000lb, maximum 10,000lb capacity frame.</li><li>- 2 5/16" ball hitch.</li><li>- Standard 7 pin trailer electrical connection to truck.</li><li>- 4 x side-winding levelling jacks.</li><li>- 1 x tongue jack.</li><li>- Suitable LED brake/safety lighting.</li><li>- Mounted and easily accessible 20lb fire extinguisher.</li><li>- 50' static grounding line with auto return.</li><li>- Spare tire with means for mounting with tire wrench.</li><li>- The entire trailer should be powder coated to prevent deterioration.</li><li>- The trailer does not have to be enclosed but if regulations allow it that would be preferred, if it is enclosed it must be equipped with side and rear doors that will allow access to all components of the proving system. The doors must have locks and be supported by gas struts or equivalent or have securable side opening doors. The enclosure must be suitably vented for use with NH<sub>3</sub>.</li><li>- Rear trailer door must be equipped with a lockable access door to allow visibility and operation of scale indicator when door is closed. Trailer must be equipped with suitable electric brakes, with standard connector and breakaway.</li></ul>
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	<ul style="list-style-type: none"> <li>- Trailer must be provided with a minimum 100 foot extension cord with GFI and storage rack.</li> <li>- Trailer must be equipped with intrinsically safe interior LED lighting suitable for a 24 hour work environment.</li> <li>- Preferred -Trailer is provided with a workspace at the front of the trailer suitable for use with a laptop computer, including power, seating and lighting, assessable without walking on the scale</li> <li>- A storage box with dimensions <math>\approx 90 \times 50 \times 50</math>cm, must be lockable with a padlock. Optional if no “office” in trailer..</li> <li>- Trailer must equipped with a minimum 60 foot product return hose, mounted on an electrically retractable hose reel and detachable from the tank. The hose reel must be detachable from the retraction motor to allow unreeling by hand.</li> <li>-</li> </ul>
Prover Considerations	<ul style="list-style-type: none"> <li>- Minimum 500L pressure vessel (or nearest standard capacity not to exceed 600L): <ul style="list-style-type: none"> <li>- Suitable pump and piping to allow draining of pressure vessel</li> </ul> </li> <li>- The apparatus must be safely and securely mounted to an electronic scale with means for removal if required.</li> <li>- Scale must also be equipped with a system to unload the tank and frame from the load cells during transport.</li> </ul>
Scale Considerations	<ul style="list-style-type: none"> <li>-</li> <li>- The scale must have a capacity of at least 500 kg in excess of the empty weight of the pressure vessel and any other suspended equipment.</li> <li>- The graduation size of the scale must not exceed 0.05 kg (0.02 kg preferred).</li> <li>- The electronic scale indicator must be visible from the back of the trailer and from the inlet and outlet piping valves.</li> <li>- Scale must provide space to load at least 12 - 20 kg weights on each side and trailer must have secure storage for these weights close to the loading location on the scale.</li> <li>- Scale indicator must be mounted at rear of trailer with easy visibility from open rear door.</li> <li>-</li> </ul>
Piping Considerations	<ul style="list-style-type: none"> <li>- All pipe lines downstream of the tank must be 1.5” designed</li> <li>- to meet all NH3 legal requirements, utilize butterfly valves where valves are required,</li> <li>- All drain lines must be angled downwards to ensure complete drainage.</li> <li>- Pump must be centrifugal 0.75-1HP 120VAC, 15A, not mounted on the scale.</li> <li>- The 1.5” NH<sub>3</sub> rated hose must be <math>\approx 20</math>m in length and equipped with a 1 ¾ inch ACME nozzle connected via a break-away connection.</li> </ul>
Electrical Considerations	<ul style="list-style-type: none"> <li>- Must contain a standard single phase grounded 120VAC inlet to supply external power via extension cords or generators.</li> <li>- All control components must be explosion proof.</li> </ul>

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|  | <ul style="list-style-type: none"><li>- Circuit must contain a GFI, control switches to power each piece of equipment where required, and an outlet in case any additional devices require power.</li><li>- Control switches should be placed in ergonomically reasonable locations as close to the equipment that they control as possible.</li><li>-</li></ul> |
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