

## Innovative Solutions Canada Program

### EN578-170003/04: Advanced Coatings and Materials for Personal Protective Ensembles

#### Amendment 001

This amendment is raised to answer bidder questions.

#### **Question #1:**

I want to know more about the PPE such as what it includes (for example, white one-time and disposable gown)?? For gown, what are they made of cotton or synthetic fibre materials? This would be crucial for selecting the coating product raw materials and its application.

#### **Response #1:**

The Challenge issuing department does not wish to restrict industry's creativity and is open to various materials and coatings.

#### **Question #2:**

What is the required permeability value?

#### **Response #2:**

The amount of chemical that might be permitted to permeate through a material is linked to its toxicity. Generally, a chemical mustn't penetrate through a material in the first 6-8 hours after becoming contaminated (not at a level that would cause an adverse health effect). Selectively permeable materials are of interest - allow moisture vapour to diffuse away from skin but keep unwanted chemicals from diffusing towards the skin. Materials with variable porosity, or porosity that changes in the presence of a chemical are of interest.

#### **Question #3:**

I am interested in knowing more about the market potential/size and their product cost expectation!! So if I know the details of the CBR it would be better to address as the price would highly dependent on the level of protection/resistance you are looking for.

#### **Response #3:**

There is no guarantee that Canada will purchase the final solution, therefore no market potential or cost expectation will be provided.

#### **Question #4:**

Do you want separate coating products for the PPE for chemical and biological protection or 2-in-1?

#### **Response #4:**

Materials that react with chemicals (liquids, liquid aerosols, vapour) and neutralise them would be of interest. Biologicals will be disseminated as an aerosol, so important to prevent aerosol from reaching the skin and also to prevent secondary re-aerosolisation.

#### **Question #5:**

We are interested in submitting a proposal for this challenge. Can you please clarify if the closing date is March 22, 2018 or August 31, 2018?

**Response #5:**

This Challenge currently closes March 22, 2018. Bidders should monitor the Challenge Notice on Buy and Sell for any potential amendments.

The Call for Proposals (CFP) document will remain open until August 31, 2018 2:00pm EDT. Each individual challenge subject to this CFP will have its own closing date and time indicated on the Buy and Sell page for the specific challenge.