**PEST MANAGEMENT CENTRE – Efficacy, Tolerance, and Screening Trials Application Form**

The objective of the application form is to guide bidders in the preparation of their bid and to provide AAFC with a tool to better assess, evaluate, and contrast the proposals submitted. It’s very important to fully complete every field. By having this template in MS Word allows bidders to adjust the space in each field according to the size of information used to fulfill / address the template requirements.

**COMPLETE ONE EFFICACY, TOLERANCE OR SCREENING TRIAL APPLICATION FORM FOR EACH EFFICACY, TOLERANCE, OR SCREENING TRIAL FOR WHICH YOU ARE MAKING A BID.** Submit hard copies of each form with your proposal as indicated in the Request for Proposal # 01B68-19-0175. It is not necessary to submit reference letters and general company information with each application form (one set of each per proposal copy is sufficient). Please refer to Appendix B, Statement of work for details on scope of work, deliverables and timelines.

| **EFFICACY, CROP TOLERANCE, AND SCREENING TRIALS APPLICATION FORM** | | | | |
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| **AAFC Trial number:** | | | | **Test Item (product name and formulation and active ingredient):** |
| **Crop (common name including cultivar/variety and scientific name):** | | | | **Pest(s): (common and scientific name(s):** |
| **Trial type (e.g. efficacy and tolerance, tolerance only, screening):** | | | | | |
| **Name of Organization:** | | | | | |
| **Mailing Address:** | | | | | |
| **Contact person** | | **Name/Title:** | | **Tel:** | |
| **E-mail:** | | **Fax and /Mobile#:** | |
| **Principal Investigator details:** | | | | | |
| **Principal Investigator name:**  **Tel:**  **Fax and /Mobile#:**  **E-mail:** | | |  | | |

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| **MANDATORY REQUIREMENTS** | | **YES/NO** |
| **M1. Field site to conduct trial secured.**  *Provide evidence that a field site has been secured to conduct trials (provide exact location).* | If trial conducted in a grower’s field, please provide information. |  |

| **Point Rated Requirements** | **Comments** | **Maximum points** | **Score** |
| --- | --- | --- | --- |
| **R1. Team:** |  | **25** |  |
| **R1.1 TECHNICAL EXPERIENCE OF THE CONTRACTOR**    Provide details of the **Principal Investigator’s** and the **Team**’s previous overall experience in **years** for:   * the trial discipline, * any efficacy trials (Field and Green House trials, separately in years) * growing the target or similar **crop**, * working with target or similar **pest** * with any relevant **spray technology** experience (seed treatment, drench, foliar, air blast etc.)   Provide brief description of overall **research experience, equipment, diagnostic capacity and research** facility and or access to trial sites.  *(Up to 5 points – for detailed breakdown of the team, outlining roles and experience with crop and pest in pesticide trials.*  *Up to 5 points- for level of research experience with crop and pest and application technology*  *Up to 5 points- for equipment details, diagnostic capability and research facility.)* |  | **15** |  |
| **R1.2 LIST OF TEAM MEMBERS AND THEIR EDUCATION CREDENTIALS IN THE TRIAL DISCIPLINE**  *(Up to 2 points)* |  | **2** |  |
| **R1.3. DESCRIBE TEAM MEMBERS’ ROLES AND RESPONSIBILITIES FOR THE TRIAL BEING BID ON.**  Note that the job responsibilities for each member listed should be specific to the trial with rationale for the assignment and NOT a generic description.  *(Up to 3 points)* |  | **3** |  |
| **R1.4. TEAM’S COMMUNICATION**  Describe the communication strategy during the trial conduct to the Study Director .  *(Up to 5 points)* |  | **5** |  |
| **R2 Understanding of the Trial Requirements:** |  | **5** |  |
| Describe your knowledge of the **target pest** and **crop** complex for this trial in your region (i.e. area or province where trial will be conducted), a letter from a PMUC indicating crop/pest exists in region may be submitted.  Acknowledge specific trial **request/requirements** in the RFP comment section and how this will be met (if applicable).  *(Up to 4 points for clear narrative describing crop/pest problem in region and supporting evidence;*  *Up to 1 point for acknowledgement of specific trial request/requirements).* |  | **5** |  |
| **R3 Constraints / Challenges / Risks:** |  | **10** |  |
| Describe any constraints, challenges or risks that may influence the successful completion of the **proposed trial** (i.e. weather events, pest pressure, crop failure, etc.).  Describe **details** of planned strategies to mitigate these constraints, challenges or risks.  If a non-greenhouse trial, indicate if irrigation equipment is available for use at the trial site.  **ONLY INCLUDE DETAILS RELEVANT TO THIS TRIAL’S TARGET CROP /PEST SCENARIO AND NOT A GENERIC DESCRIPTION**  *(Up to 5 points for description of relevant items only that may influence trial success;*  *Up to 5 points for description of how challenges and risks will be mitigated, relevant items only)* |  | **10** |  |
| **R4. Trial Set-up Details:** |  | **15** |  |
| **R4.1 PLANNED TRIAL INITIATION**  Provide initiation date.  Provide **rationale** for the initiation date.  *(Up to 3 points)* |  | **3** |  |
| **R4.2 TRIAL SITE LOCATION**  Provide a brief description including:   * Address * crop zone * soil type * site owner (grower cooperator or private contractor site) * provide status of crop in the trial year (e.g. to be planted, established (≥1yr), newly established (≤1yr) vegetative or cropping year (e.g. lowbush blueberry) * **justification** for its selection; indicate whether the target pest was found in the site previously and how information was obtained (e.g. communication with a grower, crop specialist, provincial official, grower organizations, etc.).   *(Up to 6 points for full details on trial site location including address and selection justification)* |  | **6** |  |
| **R4.3 PEST PRESSURE**  A **justification** of how adequate pest pressure will be met for this trial must be provided.  If no inoculation is planned, a **rationale** must be provided.  If inoculation is required and planned, please provide the following for the appropriate discipline:  ***Pathology***   1. *Source of target pest inoculum (species) if applicable.* 2. *Concentration of the inoculum* 3. *Method and pest/crop timing for inoculating trial* 4. *What diagnostic technique(s) will be used to verify the* ***pest species*** *selected for inoculation is correct*   ***Entomology***   1. *Source of target pest (species) ) if applicable.* 2. *Growth stage and quantity of target pest to be used* 3. *Method and pest/crop timing for inoculating trial* 4. *What diagnostic technique(s) will be used to verify the* ***pest species*** *selected for inoculation is correct*   ***Weed science***   1. *Source of target weed seeds or rhizomes* 2. *Percent germination of weed seeds* 3. *Quantity of weed seeds or rhizomes to be used per plot* 4. *Method and pest/crop timing for inoculating trial* 5. *What diagnostic technique(s) will be used to verify the pest selected for inoculation is correct*   *(Up to 6 points for clear explanation/ recommendations provided for inoculation source, concentration/quantity, method & timing and diagnostic technique(s) to verify correct pest*  ***or***  *Up to 6 points for clear rationale provided for why for no inoculation and clear justification provided for how adequate pest pressure will be met for the trial)* |  | **6** |  |
| **R5 Trial Design** |  | **6** |  |
| **R5.1 PLOT SIZE**  Provide plot size and total number of plants per plot that will be used, with **rationale** and **justification**  *(Up to 3 points)* |  | **3** |  |
| **R5.2 CROP**  Provide ideal date and method of seeding/planting, including quantity per plot or per hectare, with crop spacing/density and depth, with **rationale** and **justification**. If perennial crop, provide crop age, density with **rationale** and **justification**  *(Up to 3 points)* |  | **3** |  |
| **R6 Determination of Pest Pressure** |  | **4** |  |
| Method and frequency of scouting for pest presence prior to first test item application with justification of the approach used  *(Up to 2 points for description of scouting method;*  *Up to 1 point for frequency of scouting;*  *Up to 1 point for justification)* |  | **4** |  |
| **R7 Test Item Application** |  | **10** |  |
| **R7.1 EQUIPMENT**  Provide what **application equipment** should and will be used for this trial in terms of nozzle type and number, boom type and length, spray volumes, pressure, application type, with **rationale** why these suggestions are ideal for crop and to target pest.  *(Up to 5 points)* |  | **5** |  |
| **R7.2 APPLICATION**  Provide details and rationale on optimal application timing and intervals for trial in relation to crop and pest growth stage and pressure.  *(Up to 3 points)* |  | **3** |  |
| **R7.3 BUFFER ZONE**  Provide details and rationale on how risk of contamination/overlap of application between plots will be avoided.  *(Up to 2 points)* |  | **2** |  |
| **R8 PEST ASSESSMENTS AND RATINGS**  *Choose a section in relation to the trial being bid on* | | **25** |  |
| **WEED SCIENCE TRIAL** | | | |
| **R8.1 SAMPLING DESIGN FOR ASSESSMENTS**  Provide what **sampling effort or size** should be used with a **rationale** for: weed efficacy assessment, crop phytotoxicity assessment and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.2 ASSESSMENT TIMING**  Provide schedule of assessments with **rationale** on ideal timing and frequency for: weed efficacy assessment, crop phytotoxicity assessment and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.3 WEED EFFICACY ASSESSMENT METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to measure weed control.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.4 CROP PHYTOTOXICITY ASSESSMENT METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to measure crop phytotoxicity.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.5 YIELD ASSESSMENT METHOD**  Provide how yield/crop quality will be measured, on what crop part (i.e.: roots, leaves, fruits, fresh vs dry, total vs marketable vs unmarketable, etc.) and what equipment/technique will be used to measure yield.  *(Up to 5 points for clear explanation of the method with a justification)* |  | **5** |  |

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| **ENTOMOLOGY TRIAL** | | | |
| **R8.1 SAMPLING DESIGN FOR ASSESSMENTS**  Provide what **sampling effort or size** should be used with a **rationale** for: insect counts assessment, crop damage caused by pest, phytotoxicity and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.2 ASSESSMENT TIMING**  Provide schedule of assessments with **rationale** on ideal timing and frequency for: insect counts assessment, crop damage caused by pest, phytotoxicity and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.3 INSECT COUNTS METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to identify and count insects.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.4 CROP DAMAGE METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to measure crop damage caused by insects.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.5 PHYTOTOXICITY AND YIELD ASSESSMENT METHOD**    Provide how phytotoxicity assessments and yield/crop quality will be measured, on what crop part (i.e.: roots, leaves, fruits, fresh vs dry, total vs marketable vs unmarketable, etc.) and what equipment/technique will be used to measure yield.  *(Up to 5 points for clear explanation of the method with a justification)* |  | **5** |  |
| **PATHOLOGY TRIAL** | | | |
| **R8.1 SAMPLING DESIGN FOR ASSESSMENTS**  Provide what **sampling effort or size** should be used with a **rationale** for: pest incidence assessment, pest severity assessment, phytotoxicity and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.2 ASSESSMENT TIMING**  Provide schedule of assessments with **rationale** on ideal timing and frequency for: pest incidence assessment, pest severity assessment, phytotoxicity and yield assessment.  *(Up to 2 points for each assessment type)* |  | **6** |  |
| **R8.3 PEST INCIDENCE METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to identify and measure pest incidence.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.4 PEST SEVERITY METHOD**  Provide how assessments will be conducted, what data will be collected and what equipment/technique will be used to measure pest severity.  *(Up to 4 points for clear explanation of the method with a justification)* |  | **4** |  |
| **R8.5 PHYTOTOXICITY AND YIELD ASSESSMENT METHOD**  Provide how phytotoxicity assessments and yield/crop quality will be measured, on what crop part (i.e.: roots, leaves, fruits, fresh vs dry, total vs marketable vs unmarketable, etc.) and what equipment/technique will be used to measure yield.  *(Up to 5 points for clear explanation of the method with a justification)* |  | **5** |  |
| **TOTAL FOR RATED REQUIREMENTS (MINIMUM OF 60% OVERALL IS REQUIRED TO PASS)** | | **100** |  |