

## PART 1 - GENERAL

### 1.1 DESCRIPTION OF WORK

- .1 Work under this section covers the furnishing of all labour, materials, equipment, transportation and supervision required for the spot application of a selective/non-selective herbicide at Canadian Forces Base Shilo, Shilo, Manitoba, on an as required basis.

### 1.2 PERMITS

- .1 CFB Shilo will apply for the Provincial Pesticide Permit for this application.
- .2 The Contractor must not proceed with any application until permit is received and is bound by any restrictions placed upon the application.

### 1.3 SAFETY REQUIREMENTS

- .1 The Contractor must comply with pesticide control regulations of the province of Manitoba.
- .2 The Contractor must comply with manufacturer's instructions on storage, transport and application of herbicide unless otherwise specified or directed by Engineer.
- .3 The Contractor must notify the Engineer in writing of any conflict between the specification and manufacturer's instructions. Engineer will designate which document is to be followed.
- .4 The Contractor must supply and erect temporary warning signs detailing "Herbicide Spraying In Progress", to ALL areas where the public has access.
- .5 Herbicides must not be applied to parks, playgrounds or sport fields while occupied by the public.
- .6 Application of herbicide to school areas must be conducted after regular school hours once students have left the grounds. Time to be specified in the call-up.
- .7 Applicators must not go into restaurants, snack bars, malls, messes, or any other building which cater to the public or prepare food while dressed in their applicators clothes.
- .8 The Contractor must submit Material Safety Data Sheets (MSDS) to the Engineer prior to commencement of a call-up.

#### 1.4 OUTDOOR WARNING SIGNS

- .1 Warning signs must be posted 24 hours prior to application. However, it is recognized that under certain unforeseen weather conditions, spraying operations may have to be initiated on short notice; under these circumstances, the 24 hour pre-application posting requirement may not be possible, but signs must nonetheless be posted prior to pesticide application.
- .2 Signs must remain posted for a least 48 hours after application, unless a longer safe re-entry time is specified.
- .3 Signs must be made of weather resistant materials. They must be a minimum size of 500mm high x 400mm wide.
- .4 The sign must contain the following words:

WARNING - PESTICIDES USED  
ATTENTION - PESTICIDES UTILISÉ

- .5 The sign must also contain a warning pictogram that alerts the public not to touch or walk on treated plants or areas.
- .6 The sign must also indicate the following:
  - .1 Date of application.
  - .2 Name of pesticides.
  - .3 PCP Registration number.
  - .4 Reason for application.
  - .5 Telephone number for information.
  - .6 Safe re-entry date.

#### 1.5 SPILL PROTECTION

- .1 In case of herbicide spill, the Contractor must have adequate materials to clean-up a minimum of 20 litres of herbicide product at the mixing and storage sites.
- .2 The Contractor must immediately notify the Engineer verbally of a herbicide spill and follow-up with a written statement within 8 hours of spill.

#### 1.6 GUARANTEE

- .1 All guarantees must be as specified by the manufacturer and its re-application. The Contractor must submit a copy of guarantee to the Engineer prior to start of work.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Vegetation Control:
  - .1 2-4 D Amine.
  - .2 Round-up.
  - .3 Dycleer.
- .2 Materials must be applied in accordance with "The Guide to Chemical Weed Control", issued by Manitoba Agriculture and manufacturer's written specifications. Submit manufacturer's recommended rates data sheet to Engineer prior to use.
- .3 Only those materials specified in Paragraph 2.1.1 can be used under this Standing Offer, unless otherwise specified by the Engineer.

### 2.2 APPLICATOR

- .1 The Contractor must apply with a truck mounted assembly with minimum 2400 mm boom (no cluster nozzles).
- .2 The Truck must be equipped with a spray wand with a minimum 15 M long hose for chemical application in areas inaccessible by the truck boom.
- .3 Equipment must have a visible pressure gauge in good working condition mounted in-line on the spray boom.
- .4 Garden tractors and estate sprayers must not be used under this Standing Offer.
- .5 Boom or nozzles must be equipped with a shroud device to reduce drift of spray. This device must be approved in writing by the Engineer prior to start of a call-up.
- .6 All application equipment not specified must be approved by the Engineer. The Contractor must demonstrate such equipment when requested by the Engineer and must be accompanied by product data to permit Engineer to fairly access the equipment.

### PART 3 - EXECUTION

#### 3.1 GENERAL

- .1 The Contractor must not use air blast or air mist sprayers to apply herbicides.
- .2 The Contractor must avoid using nozzle pressure above 310 KPa.
- .3 The Contractor must not spray when wind direction is toward nearby sensitive crops, shelter belts and gardens.
- .4 The Contractor must avoid spraying near sensitive crops during "dead calm" winds.
- .5 The Contractor must not use end nozzles for field spraying.
- .6 The Contractor must select nozzles that will produce a uniform pattern, low drift hazards and recommended/specified application rates.

#### 3.2 APPLICATION

- .1 Application must take place as specified in the call-up issued by the Engineer depending on the growth of vegetation.
- .2 The Contractor must comply with manufacturer's written specification regarding ambient temperatures for application of herbicide products.
- .3 The Contractor must not apply liquid herbicide during rainfall or when rain is forecast within 8 hours or when heavy dew exists.
- .4 Herbicide products must not be applied during the following conditions:
  - .1 When air speed exceed 20 K/hr.
  - .2 When air speed is less than 3 K/hr.
  - .3 When air temperature exceeds 32°C.
- .5 The applicator must wear personal protective equipment for herbicide use as required by the provincial requirements.
- .6 All chemicals must be applied at the rates noted for the target species as stated in "The Guide to Chemical Weed Control", issued by Manitoba Agriculture. The Contractor must notify the Engineer if these rates contradict that of manufacturer's recommended rates and proceed after Engineer's approval.

- .7 Applicators must follow field sprayer recommendations as specified in "The Guide to Chemical Weed Control", issued by Manitoba Agriculture.
- .8 Applicators must comply with all restrictions noted on Annual Pesticide Use Permit, issued by Provincial Environmental authorities.

### 3.3 POST SEASONAL REPORTS

- .1 The Contractor must provide any information to complete a post seasonal report on the application of herbicide when requested by the Engineer.

### 3.4 OFF-TARGET DAMAGE

- .1 All desirable species, in the opinion of the Engineer, which has been damaged or killed by herbicide drift, must be replaced by the Contractor to the complete satisfaction of the Engineer at no cost to DND.

### 3.5 SAMPLES

- .1 The Engineer will, at any time, remove a liquid sample from the application tank to perform testing paid by the Engineer.

### 3.6 CLEAN-UP

- .1 THE CONTRACTOR MUST NOT DISPOSE OF EMPTY HERBICIDE CONTAINERS AT CANADIAN FORCES BASE SHILO DUMP SITE.



1 GENERAL

- .1 PWGCS Standing Offer Documents must be read in conjunction with this Specification.
- .2 For Standing Offers, a formal contract is initiated when the CFB Shilo Contracts Office raises a 942 requisition for a specified scope of work. These General Instructions become part of the contract at such time.

2 DESCRIPTION OF WORK

- .1 Work under this Standing Offer covers the furnishings of all labour, materials, equipment and supervision required for chemical application for weed control of various areas at Canadian Forces Base Shilo, Manitoba on an as required basis.
- .2 Work included by this Standing Offer but is not necessarily confined to the following:
  - .1 Application of herbicide at proper stages for maximum weed control.
  - .2 Application of check strips for comparative control results.
  - .3 Application of Round-Up Chemical Weed control when requested by Engineer (application as per manufacturer's guidelines).
  - .4 Provide a colour coded site plan showing areas of application.
  - .5 Provide a colour coded site plan showing each phase of application on completion of each application prior to leaving CFB Shilo.
  - .6 Submit a report to Engineer prior to leaving CFB Shilo, stating:
    - .1 Rate of application.
    - .2 Wind speed and direction.
    - .3 Temperature.
    - .4 Date of application.
    - .5 Specific area of application.
    - .6 Contractor's remarks/recommendations.

3 DEFINITIONS

- .1 Reference to Engineer or Project Authority must be construed as that person responsible for overlooking the contract's inspection and progress.
- .2 This person will be designated at the time of call-up.

4 "ENVIRONMENTAL" POLICY

- .1 In accordance with Canadian Forces Base Shilo's "Shilo Environmental" policy, the Contractor must propose "environmentally safe" products for those materials listed. The Contractor must submit product data and Material Safety Data Sheets (MSDS) for all "environmentally safe" products as requested by Engineer. All materials listed as "environmentally safe" material must be approved by the Engineer prior to use.

5 CODES AND  
STANDARDS

- .1 The Contractor must comply with "The Guide to Chemical Weed Control", Manitoba Agriculture, all applicable provincial and municipal requirements including the acquisition of any licences and permits required to complete the work under any call-ups.
- .2 The Contractor must submit one photocopy of the valid Provincial Pesticide Applicator License to the Engineer prior to commencing any herbicide application under a call-up if the applicator's license was not already provided to the Engineer.
- .3 The Applicator must be an approved pesticide applicator in the province of Manitoba.
- .4 The Contractor must meet requirements of:
  - .1 Contract documents, specifications or scope of work.
  - .2 Specified standards, codes and referenced documents.

6 PESTICIDE POLICY

- .1 The Environmental Directive issued to all organizations within the Department of National Defence (DND) and the Canadian Forces (CF), or under the administrative authority of DND, who have responsibility for pesticide use must not use pesticides for cosmetic lawn purposes as of March 31, 2003. This includes the planting and health care management of bedding plants.
- .2 Definition:
  - .1 Pesticide - A product registered and listed under the Pest Control Products Act (PCPA) and its regulations intended to prevent, destroy or manage a pest; this included insecticides, fungicides, herbicides and plant growth regulators. This definition also applies to a fertilizer within the meaning of the Fertilizers Act (Canada) that contain a pesticide.
  - .2 Use - Any application method of a pesticide.
  - .3 Cosmetic Use - The use of pesticides where the application is purely for an aesthetic purpose.
  - .4 Lawn Care - Refer to the maintenance of turf and outdoor shrubs, flowers (bedding plants) and other ornamental plants.

7 ON-SITE  
SUPERVISION

- .1 Contractor will designate a competent and qualified supervisor to be on site at all times during work, and act upon Engineer's instructions.



8 COMMENCEMENT OF  
WORK

- .2 Supervisor must be capable of and have authority to speak on day-to-day matters.
- .1 The Contractor must not commence work without receipt of a call-up and the approval of the Engineer.
- .2 Movement around the site and the immediate area of work will be subject to restrictions as laid down by the location and as specified by the Engineer.

9 HOURS OF WORK

- .1 The Contractor must comply with the normal hours of work (07:30 to 16:00) in effect at the site during the period of the call-up.

10 ALTERATIONS,  
ADDITIONS OR  
REPAIRS TO  
EXISTING BUILDING

- .1 The Contractor must execute work with least possible interference or disturbance to public and normal use of area and arrange with Engineer to facilitate execution of work.

11 BUILDING  
SMOKING ENVIRONMENT

- .1 There is NO SMOKING within any Base Building at any time.
- .2 The Contractor must abide by Smoking Regulations and Base Standing Orders on the control of smoking in around the Ammunition Compound as directed by the Ammunition Compound Supervisor.

12 CONTRACTOR'S  
IDENTIFICATION  
SIGNS

- .1 Contractor identification:
  - .1 Contractor must install permanently fixed Contractor identification signs on all equipment.
  - .2 Contractor signs must be a minimum of 304mm x 304mm in size.

13 SAFETY  
REQUIREMENTS

- .1 The Contractor must observe safety measures of Workplace Safety and Health (Manitoba Regulation 217/2006), Workers'/Workmen's Compensation Board and municipal authority provided that in any case of conflict or discrepancy more stringent requirements shall apply.
- .2 Contractor must be aware of, and accepts, the appropriate safety and health jurisdiction to which he is working in. Contractor accepts the responsibility to comply with the specified provincial and federal regulatory instruments, as appropriate, and to ensure that all subcontractors do likewise.

- .3 Contractor is responsible for all subcontractors with respect to safety and health issues and must be deemed as "site coordinator" to facilitate employer/contractor coordination.
- .4 Contractor (and his subcontractors) must submit proof of WCB coverage for all their personnel to Engineer prior to commencing work.
- .5 DND owned equipment, devices, tools, machinery and personal protective equipment (PPE) must not be used.
- .6 WHMIS and MSDS:
  - .1 The Contractor must comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of Material Safety Data Sheets (MSDS) acceptable to Labour Canada and Health and Welfare Canada.
  - .2 The Contractor must deliver copies of MSDS sheets to Engineer on delivery of materials.
- .7 Barricades:
  - .1 The Contract must barricade work sites as required by the Engineer.
- .8 Delay due to Health and Safety Regulations infractions:
  - .1 The Contractor must include all provisions of the Contract in any agreement with Sub-Contractors equally responsible for safe work performance.
  - .2 If the Contractor is responsible for a delay in the progress of work due to an infraction of legislated Health and Safety requirements, the Contractor must, without additional cost to DND, work such overtime, acquire and use equipment or material for the execution as deemed necessary in the opinion of the Engineer to avoid delay in the final completion of the work or any operation thereof.

14 FIRE SAFETY  
REQUIREMENTS

- .1 The Contractor must remove all rubbish from the work site at the end of the work day or shift or as directed.
- .2 Storage:
  - .1 The Contractor must store waste in approved receptacles to ensure maximum cleanliness and safety.
  - .2 The Contractor must deposit materials subject to spontaneous combustion in an approved receptacles and remove as required.

- .3 The handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
- .4 Transfer of flammable and combustible liquids is prohibited within buildings.
- .5 Transfer of flammable and combustible liquids must not be carried out in the vicinity of open flames or any type of heat-producing devices.
- .6 Flammable liquids having a flash point below 38°C such as naphtha or gasoline must not be used as solvents or cleaning agents.
- .7 Flammable and combustible waste liquids, for disposal, must be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and the Fire Department is to be notified when disposal is required.
- .8 Work entailing the use of toxic or hazardous materials and/or chemicals otherwise creates a hazard to life, safety or health, must be in accordance with the National Fire Code of Canada.
- .9 The Contractor must immediately remedy all unsafe fire situations observed by the Fire Chief.

## 15 ENVIRONMENTAL PROTECTION

- .1 Pollution control:
  - .1 The Contractor must control emissions from equipment to local authorities emission requirements.
- .2 Equipment:
  - .1 Equipment which is to be used in the execution of the work must be maintained in a manner that will not be detrimental to the environment and in compliance with the Canada Environmental Protection Act (CEPA). Equipment which is in violation must be removed from site until such time it does comply with the above mentioned requirements.
- .3 Storage and handling:
  - .1 All hazardous substances (any substance that is poisonous, exhibits flammability, corrosive, reactive or toxic) must be stored and handled in a manner which is not harmful to human life and will not pollute the environment.
  - .2 All hazardous substances stored outdoors must be situated in or on a secondary containment device capable of fully containing 1.5 times the quantity of the total volume stored in or on it. Storage

sites must be consolidated to the greatest extent possible to reduce the number of hazardous sites.

.3 Where hazardous sites are stored indoors in quantities which cannot be contained safely by the building structure in the event of a leak, the Engineer may direct that such substances be stored in or on proper secondary containment devices capable of fully containing 1.5 times the quantity of the total volume stored in or on it.

.4 Clean-ups:

.1 Leaks or spills of hazardous substances, regardless of the quantity or whether indoors or outdoors, must be stopped and cleaned-up immediately and be prevented from entering storm or sanitary sewer systems or contaminating soil or water.

.2 All spilled substances and materials contaminated by the spill must be collected in leak proof containers or double bagged for disposal off DND property. Disposal of such substances must be in a manner which is acceptable to the local authority having jurisdiction over disposal site area. Contractor must provide a manifest to the Engineer upon disposal completion.

.5 Reporting:

.1 ALL releases of hazardous substances into the environment (ground, water, drains, sewer systems, ditches, road, parking areas, air, etc.) must be reported to the Engineer immediately.

.6 Inspection:

.1 From time to time, the project site will be inspected to ensure compliance with federal, provincial and local environment requirements.

.2 All spills reported are subject to inspection by the Base Environmental Officer and the Engineer to confirm clean-up and disposal have been carried out satisfactorily.

16 PRODUCT DATA  
AND SAMPLES

.1 This paragraph specifies general requirements and procedures for Contractors' submissions of product data and samples to Engineer for review.

.2 The Contractor must not proceed with work until relevant submissions are reviewed by the Engineer.

.3 The Contractor must notify the Engineer, in writing at time of submission, identifying deviations from requirements of specification sections stating reasons for deviations.

.4 Product data: manufacturer's catalogue sheets used to illustrate standard manufactured products:

- .1 The Contractor must submit 2 copies of product data.
- .2 The Contractor must delete information not applicable.
- .3 The Contractor must supplement standard information to provide details applicable to project.
- .4 The Contractor must cross-reference product data information to applicable portions of specification.

- .5 Samples: examples of materials, equipment, quality, finishes, workmanship:

.1 Reviewed and accepted samples will become standard of workmanship and material against which work will be verified.

#### 17 CLEAN-UP

- .1 On completion of work, the Contractor must remove all surplus materials, plant, tools, equipment and waste materials from site.

#### 18 PERSONAL PROTECTIVE MEASURES

- .1 Chemical cartridge respirators must be used during mixing and applying all herbicides. Dust is not be acceptable for any work under the Standing Offer. Safety procedures for respirators must be as specified in "The Guide to Chemical Weed Control", issued by Manitoba Agriculture.
- .2 Non-absorbant footwear (eg. rubber boots) must be worn during the mixing and application procedures.
- .3 Non-absorbant chemical resistant prospective clothing, gloves and head cover must be used during the mixing and application procedures.

