

Specifications SWC# 214 - Herbicides

I. General requirements

All herbicides bid must have a formulated EPA registered control number. **This EPA control number must be listed on the Evaluation Model.**

An Environmental Protection Agency (EPA) registered label shall be prominently displayed on each provided container. The current Material Safety Data Sheets (MSDS) must be provided in each shipment. All products bid upon must be registered with the State of Tennessee Department of Agriculture at the time of the ITB bid response.

All containers must have "gallon/liter" or "ounce/pound" increment markings on the side of the container.

II. Technical Assistance, Service and Training

The contractor must provide technical support to Tennessee Department of Transportation (TDOT) and other agencies for any health, legal, technical, chemical residue sampling, or public relations needs.

The supplier shall provide a toll-free number for technical service during normal business hours of 8:00 a.m. to 5:00 p.m. Central Standard Time (CST). The supplier shall respond telephonically to a request for technical assistance within two hours. The supplier shall provide on-site support within twenty-four hours of initial request from the State. The manufacturer's representative must hold a professional degree in horticulture, arboriculture, crop science, or forestry. Evidence of this degree must be submitted alongside the ITB response.

The manufacturer and distributor representative must teach DOHR endorsed classes that meet the needs of EPA worker protection standards, general herbicide safety, and mode of action, handling, and application. No line item will be added to the contract for these classes as they are included in the contractual agreement. Classes will be taught to pertinent TDOT employees. Awarded supplier must have these classes evaluated and approved and the classes must enable the individuals completing the classes to earn pesticide certification renewal points from the Department of Agriculture, Jerry Seabolt at (615) 837-5178 or jerry.seabolt@tn.gov.

Manufacturer and distributor representative training shall be required each spring and fall. Each session will be a one day, approximately 7.5-hour training class shall be held at two of the four TDOT regional facilities for approximately one hundred (100) individuals per location and is available to all State Agencies. Awarded supplier(s) shall provide training contact information. Training shall be provided at no additional charge to the state. Training for TDOT shall be coordinated through the headquarters Maintenance Division at TDOT.Engineering.Operations@tn.gov

Catalog Requirements

The awarded supplier shall offer an additional catalog of Herbicide products. All products listed in catalog must be registered with the State of Tennessee Department of Agriculture. This section outlines the establishment and maintenance of a comprehensive catalog extract for herbicides within the framework of SWC 214. The products found in the catalog extract and offered to the state through SWC 214 will be derived from published catalogs, price lists, or price

schedules as defined in this document. Contractors will electronically maintain and distribute these extracts to all Authorized Users. These extracts will only include the manufacturer's product range relevant to this Invitation to Bid's scope and purpose, chosen for inclusion by the State of Tennessee. The products in these extracts and their prices may be updated at the beginning of each calendar quarter. State approval will be necessary for any proposed additions or modifications to the catalog extracts.

Specifications and Formulations

ITEM: 1000105621 2.5 gallon per CH; 5-gallon CA
ACTIVE INGREDIENTS: ISOPROPYLAMINE SALT OF IMAZAPYR (2-/4,5
DIHYDRO-4-METHYL-4-(1-METHYLETHYL)-5-OXO-1 H-IMIDAZOL-2YL/-3-
PYRIDINECARBOXYLIC ACID).....26.7%
INERT INGREDIENTS.....73.3%
TOTAL.....100.0%

ACCEPTABLE BRANDS: ARSENAL , POLARIS OR EQUAL (MUST BE AQUATIC APPROVED)

ITEM: 1000105623 2.5 gallon per CH; 5-gallon CA
ACTIVE INGREDIENTS: GLYPHOSATE, N-(PHOSPHONOMETHYL) GLYCINE, IN
THE FORM OF ITS ISPROPYLAMINE SALT.....53.8%
INERT INGREDIENTS.....46.2%
TOTAL.....100.0%

ACCEPTABLE BRANDS: GLYPRO, AQUA NEAT, AQUA STAR, GLYPRO, ROUND UP CUSTOM, RODEO
OR EQUAL

ITEM: 1000105625 2.5 Gal. per CH; 5 gallon CA
ACTIVE INGREDIENTS: FOSAMINE AMMONIUM (AMMONIUM SALT OF FOASMINE
/ ETHYL HYDROGEN (AMINOCARBONYL) PHOSPHONATE/).....41.5%
INERT INGREDIENTS.....58.5%
TOTAL.....100.0%

ACCEPTABLE BRANDS: KRENITE S OR EQUAL

ITEMS: 1000105636 2.5 Gal. per CH; 5 gallon CA
ACTIVE INGREDIENTS: TRIISOPROPANOLAMMONIUM SALT OF 2-PYRIDINE
CARBOXYLIC ACID, 4-AMINO -3, 6-DICHLORO-.....40.6%
INERT INGREDIENTS.....59.4%
TOTAL.....100.0%

ACCEPTABLE BRANDS: MILESTONE OR EQUAL

ITEM: 1000105635 20 Oz. per CH; 10 – 20 oz. Bottle CA
ACTIVE INGREDIENTS: SULFOSULFURON.....75.0%
INERT INGREDIENTS.....25.0%
TOTAL.....100.0%

ACCEPTABLE BRANDS: OTRIDER OR EQUAL

ITEM: 1000105631 (NON-IONIC SURFACTANT) 2.5 Gal. per CH; 5 gallon CA
PRIMARY COMPONENTS: ALKYLARYLPOLYOXYETHEYLENE AND OTHER
INGREDIENTS.....90.0%
INERT INGREDIENTS.....10.0%
TOTAL.....100.0%

ACCEPTABLE BRANDS: ACTIVATE PLUS 90, CANNON, INVADE 90, ALLIGARE 90
OR EQUAL

ITEM: 1000184967 12 X 1 QT = CA
DRIFT CONTROL AGENT, DESIGNED FOR USE WITH ROADSIDE HERBISIDE SPRAY APPLICATION TO REDUCE
SPRA DRIFT POTENTIAL TO NON-TARGET AREAS.

ACCEPTABLE BRANDS: STRIKE SONDE, DF, WINDBREAK OR EQUAL

ITEM: 1000071524 12/32Oz. per CA; 12 x 1 qt. CA
DEFOAMER AGENT: DESIGNED FOR USE WITH ROADSIDE HERBISIDE APPLICATION TO REDUCE OR SUPPRESS
THE FORMATION OF FOAM IN SPRAY TANKS.

ACCEPTABLE BRANDS: FOAM BUSTER, DEFOAMER OR EQUAL

ITEM: 1000194233 2 X 2.5 GAL JUGS = 5 GAL CA
HERBICIDE, GLYPHOSATE 41%, 5/CA

ACCEPTABLE BRANDS: ROUND UP OR EQUAL

*****Note: Respondent is to provide product literature, technical data sheet and SDS for each product bid; either attached to the bid or emailed to the Category Specialist.**

Blended Herbicides

All items will include Product, Blending Fee and Freight Charges. All Items will be priced on a per gallon quantity.

Blending supplier shall ensure that all products blend correctly.

Item No. # 1000185680 Herbicide Blend; Bare Ground, Guard Rail, Cable Rail and Concrete Barrier: (Suspended Blend)

15 Gallon Returnable container

<u>PRODUCT</u>	<u>RATE/ACRE.</u>
Method 240 SL	15 OZ.
Esplanade	7 OZ.
Arsenal	20 OZ.
Roundup Pro	32 OZ.

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment
*Field to add 16 ounces surfactant

Item No. # 1000185682 Herbicide Blend; Selective Weed Control:

15 Gallon Returnable container; PL

<u>PRODUCT</u>	<u>RATE/ACRE.</u>
Method 240 SL	6 OZ.
Escort XP	.5 OZ.
Milestone	4 OZ.
Plateau	3 OZ.
Surfactant	1 QT.

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

Item No. #1000185683 Herbicide Blend; Brush Control:

15 Gallon Returnable container; PL

<u>PRODUCT</u>	<u>RATE/ACRE.</u>
Method 240 SL	13 OZ.
Escort XP	2 OZ.
Milestone	7 OZ.
Surfactant	1 QT.

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

Item No. # 1000185685 Herbicide Blend; Selective Weed/Johnson grass: (Suspended Blend)

15 Gallon Returnable container; PL

<u>PRODUCT</u>	<u>RATE/ACRE.</u>
Derigo	3 OZ.
Method	6 OZ.

*Field to add 16 ounces surfactant

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

Item No. #1000185681, Herbicide Blend: Basal/Stump Cut

5 Gallon Non-returnable container (Minimum order is 80 gallons)

<u>PRODUCT</u>	<u>RATE/100</u>
Method 240 SL	5%
Arsenal	2%
Basal Oil	75%
Emulsifier	18%

Blend is ready for use straight from the container.

Item No. XXXXXXXXXXXX, Herbicide Blend; Bareground

15 Gallon Returnable container

<u>PRODUCT</u>	<u>RATE/ACRE</u>
TerraVue	5 OZ.
Esplanade 200SC	5 OZ.
Roundup Concentrate	32 OZ

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

*Field to add 16 ounces surfactant

Item No. XXXXXXXXXXXX, Herbicide Blend; Selective Weeding

15 Gallon Returnable container

<u>PRODUCT</u>	<u>RATE/ACRE</u>
TerraVue	2.85 OZ.
Plateau	3 OZ.

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

*Field to add 16 ounces surfactant

Item No. XXXXXXXXXXXX Herbicide Blend; Selective "Grass Friendly" Brush Control

15 Gallon Returnable container

<u>PRODUCT</u>	<u>RATE/ACRE.</u>
Vastlan	64oz
TerraVue	2.85oz

**Field to add 16 ounces surfactant

Blend to be mixed at 1 gallon to 24 gallons of water for a 25 gallon per acre treatment

Specifications for 15 Gallon Refillable/Returnable Container:

- Only acceptable containers shall be center sump loaded, have a single center bung and have a convex bottom.
- Containers must have both gallon and liter increments on the side of the drum.
- Containers shall have a neutral color to facilitate determining the amount of product in container.
- Containers shall be USDOT approved for use as a "returnable". No one-way containers shall be accepted.
- Containers shall have handling rings on the top and bottom of the container and shall be capable of holding up to 15 gallons of product.
- Containers shall have a stainless-steel microsmatic valve.

Minimum orders and shipping requirements:

- Agency shall order 15-gallon returnable containers in increments of nine (9) containers per product. Product to be shipped on pallets (nine (9) fifteen-gallon containers per pallet).
- The supplier is required to pay all shipping and associated cost for pick-up of the returnable items.
- Agency will be responsible for retaining all empty 15-gallon returnable containers and contacting the successful contracted supplier to schedule return of containers. Pick up will be in increments of nine (9) containers on the pallet they were shipped on.

ADDITIONAL LABELING REQUIREMENTS ON BLENDED PRODUCTS

Each container of blended product shall be additionally labeled per the following.

ITEM 1000185680: BAREGROUND/METHOD

ITEM 1000185682: SELECTIVE WEED CONTROL/METHOD

ITEM 1000185683: BRUSH CONTROL

ITEM 1000185685: JOHNSON GRASS

ITEM 1000185681: BASAL/STUMP CUT

ITEM **XXXXXXXX**: BAREGROUND/TERRAVUE

ITEM **XXXXXXXX**; SELECTIVE WEED CONTROL/ TERRAVUE