

## **ITEM 10615.0320 M - PORTABLE DRIP IRRIGATION SYSTEM**

**DESCRIPTION:** This work shall consist of furnishing, delivering and placing Portable Drip Irrigation System (PDIS) watering bags around newly planted deciduous trees and evergreens as per the schedule within the landscape specifications and these specifications. The PDIS system shall be so calibrated that the installed PDIS will provide a minimum of 25 liters of water per square meter of planting pit per filling.

**MATERIAL:** The PDIS watering bags shall be constructed so that they can be attached to the trees, provide water from three drip points (minimum) and have a zipper attachment that extends from the top to the bottom of the bag.

Watering bags shall be UV treated, reinforced Polyethylene material with a nylon toothed zipper. Each bag shall be capable of holding at least 75 liters of water. The Contractor shall submit catalog cuts to the Regional Landscape Architect (RLA) for approval at least two weeks prior to installation.

**CONSTRUCTION DETAILS:** After a tree is planted and properly watered for compaction, the Contractor shall supply and install the required number of bags as recommended by the manufacturer for the trees planted. Initial watering for the deciduous trees and evergreens shall consist of filling to the top each PDIS bag supplied to each tree. All PDIS watering bags shall be filled once each week regardless of normal rain conditions or as directed by the RLA. In addition to the schedule within the supplemental landscape specs, the Contractor shall submit a watering schedule after the initial installation has been completed.

All watering bags shall be removed by December 1st. The Contractor shall store and replace the watering bags only if the project/Period of Establishment (POE) extends beyond the winter season. On April 15<sup>th</sup> of the following year, the watering bags shall be reinstalled and filled at each tree location watered under this item. All bags that are damaged and or missing shall be replaced at no cost to the State.

**METHOD OF MEASUREMENT:** The work will be measured by the number of PDIS watering bags that are installed and filled for the duration of the project/Period of Establishment to the satisfaction of the Engineer.

**BASIS OF PAYMENT:** The unit price bid shall include the cost of water, equipment, labor, materials, installation, filling, maintenance and removal necessary to complete the work. Bags used to replace damaged or missing bags will not be measured for payment. No additional payment will be made for reinstallation of watering bags that were removed for the winter season.

The Contractor will be paid 25% upon the installation of the PDIS, 65% will be paid in monthly installments during watering, and the remaining 10% upon the removal of the units if no longer needed as determined by the Engineer or upon completion of the work to the satisfaction of the Engineer.