

**COLUMBIA IRRIGATION DISTRICT  
GEOCOMPOSITE MEMBRANE  
SMALL WORKS ROSTER REQUEST FOR QUOTATIONS**

The Columbia Irrigation District (CID) is soliciting quotations from their "Small Works Roster" for a geocomposite membrane for installation in their Lateral #2 Canal. The section of canal to be lined is 850 feet long, trapezoidal in shape with side slopes approximately 1.5 horizontal to 1 vertical and will require approximately 27,081 square feet of geocomposite membrane. This quantity is based on installing the membrane perpendicular to the canal centerline with a roll width of 17 feet, 1 foot overlap at seams, and 9% contingency added for waste at curves in the canal alignment. Suppliers proposing materials with a different roll width, joint overlay requirement or other changes must adjust the required quantity accordingly. For the price quoted the supplier will be required to provide sufficient material to line the 850 foot long segment of canal. Each membrane panel installed in the canal will be approximately 27 feet in length to cover the canal prism and provide sufficient length to anchor the liner outside the canal prism. The manufacturer shall provide enough material to eliminate seams parallel to the canal centerline. If the manufacturer's roll lengths are not divisible by 27 feet the excess material at the end of the roll, less than 27 feet in length, will be wasted and cannot be included in the material quantity provided to line the canal. The 9% contingency represents 5 extra 27 foot by 17 foot panels. Also included in the estimated quantity are 4 additional feet at each end of the project for anchoring.

The geocomposite membrane will be installed by CID crews and will be placed on a combination of existing concrete canal lining and native earth material. Following installation of the membrane, shotcrete or concrete will be applied to a minimum thickness of 4.5 inches.

**Small Works Roster Letter**

Manufacturers submitting quotations for the geocomposite membrane who are not already on the CID's Small Works Roster must include with their quotation, a letter requesting their company be placed on the CID's small works roster. The letter must be submitted on a separate sheet, be on company letterhead and identify the types of work the manufacturer is engaged in.

**Geocomposite Membrane Specifications**

The geocomposite membrane supplied shall consist of three layers. The top layer shall be a minimum 8 ounces per square yard polypropylene nonwoven geotextile and shall be suitable for protecting the middle waterproof barrier from mechanical damage and bonding the shotcrete or concrete to it. The top layer shall be bonded to the middle layer. The middle layer shall be waterproof and a minimum 20-mil polyethylene geomembrane. The bottom layer shall be bonded to the middle layer and be a minimum 8 ounces per square yard polyester nonwoven geotextile. The bottom layer shall be suitable to protect the middle layer from imperfections in the liner subgrade. The top polypropylene nonwoven geotextile shall be compatible with shotcrete or concrete being placed against it. The material shall be Huesker Canal<sup>3</sup> 8208 PP/PE/PET or an approved equal. Alternate materials may be used to fabricate the geocomposite but

they must provide equal or better physical characteristics and must be bonded to each other to provide a single composite sheet for installation.

The manufacturer must provide submittals with their quote detailing the physical properties of the geocomposite membrane being quoted. The submittal must also describe installation and seaming requirements for the material.

### **Other Requirements**

The CID reserves the right to reject any and all quotes and to select the geocomposite membrane manufacturer whose product is in the best interests of the CID.

The price quoted above shall be FOB Kennewick, Washington. Delivery will be required within 4 weeks of the manufacturer receiving notification that their geocomposite membrane was selected by the CID.

The price quoted shall exclude any applicable sales tax.

The geocomposite membrane manufacturer shall provide a copy of their written warranty against defects in materials and manufacturing and a copy of their standard warranty with their quote.

Payment to the supplier will be made within 45 days of delivery of the material to the site.

Quotes for the geocomposite membrane must be received by the CID on or before 3:00 pm on October 23, 2020. Quotations may be mailed or hand delivered to Columbia Irrigation District at the following address:

Columbia Irrigation District  
10 East Kennewick Ave  
Kennewick, WA 99336

Bids may also be emailed to Clancy Flynn, District Manager, at [cflynn@columbiairrigation.com](mailto:cflynn@columbiairrigation.com).

**Bid Schedule  
Geocomposite Membrane**

Item No	Description	QTY	Unit Price	Total Price
1	Geocomposite Membrane	1 LS		

By: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Date: \_\_\_\_\_

Modifications to the Specifications: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Quantity of Geocomposite Membrane to be Provided: \_\_\_\_\_ Square Feet

Roll Width to be Provided: \_\_\_\_\_ Feet

Roll Length to be Provided: \_\_\_\_\_ Feet

Seam Overlap Width: \_\_\_\_\_ Inches

Quantity of Rolls to be Provided: \_\_\_\_\_