

#2023h -13 - GEOTEXTILES

DETAILED SPECIFICATIONS

PART I GEOTEXTILES / GEOSYNTHETICS

SCOPE

This section covers the material details, quality requirements and method of application for geotextiles as listed in the NYSDOT TECHNICAL SERVICES APPROVED LIST OF GEOSYNTHETICS FOR HIGHWAY CONSTRUCTION – GEOTEXTILES and as described in the Standard Specifications for Construction and Materials issued by New York State Department of Transportation, and addenda unless otherwise stated.

BASIS OF ACCEPTANCE

Bidder must supply product literature / manufacturer's technical data for each proposed material with the bid.

Applications. Based on the above tests and criteria that follow, the Geotextiles may be accepted for the following:

- B Geotextile Bedding
- S Geotextile Separation
- D Geotextile Drainage
- SP Geotextile Slope Protection
- ST Geotextile Stabilization
- TC Turbidity Curtains
- TC Turbidity Curtains with Flotation and Weights
- SF Silt Fence
- GM Geomembranes
- PVD Prefabricated Vertical Drain with Connections
- PCSD Prefabricated Composite Structural Drain

Each grade or type of textile may have more than one application, but it must be approved for such use.

PACKAGING

Materials will be available in 12.5', 15', 17.5' or 20' wide rolls as required. **Indicate roll dimensions available with the square yard bid price.**

Additional Minimum Specification for Undercut materials:

Trapezoidal Tear Strength minimum 110 lbs

Puncture Strength minimum 110 lbs

Material to be a woven fabric. Non-woven fabrics are not acceptable.

PART II

A. EROSION CONTROL MATTING

SCOPE

This specification covers the material details, quality requirements and method of application for approval of erosion control matting used for revegetating & controlling erosion of side slopes, embankments and drainage channels.

GENERAL

The materials furnished on this contract must comply with approved specifications issued by either the NYSDoT Materials Bureau or as approved by the County Highway Superintendent. Material installation requires small crew sizes (2-3) without use of special handling/hauling equipment. Material will be supplied in roll form with staples or other fasteners required for installation. Fasteners will be priced separately.

BASIS OF ACCEPTANCE

Matting/Blankets shall be accepted on the basis of brand name, manufacturer’s technical data and ASTM performance testing results, usage criteria and degree of biodegradability.

MATERIAL CRITERIA: The range of material requirements are as follows:

	<u>Flow/Slope</u>	Low Swale to 3:1	Light Moderate to 2:1	Moderate Heavy to 1:1	Heavy Critical >1:1
Channels					
<u>Quantity (SQ. YD)*</u>	<u>Composition</u>				
3,000	completely organic	X	X	X	
1,800	1 dimension mesh# (plastic/cotton)	X	X		
4,000	2 dimension mesh# (plastic/cotton)		X	X	
4,000	3 dimension mesh# (plastic/cotton)			X	X
6,000	completely inorganic life greater than 3 yr.		X	X	X

*The annual approximate requirements may vary. These quantities are an estimate for the purpose of preparing a bid.

#Items can contain straw, jute, wood fibers or other organic materials.

B. CELLULAR CONFINEMENT SYSTEM

SCOPE

This specification covers the material details, quality requirements and methods of application for approval of cellular confinement systems.

GENERAL

The materials furnished on this contract must comply with U.S. Army Corps of Engineers Technical Guidelines for minimum cell seam peel strengths. Materials must be composed of polyethylene, HDPE, or similar material and possess UV protection. The cells must be a three dimensional, heavy-duty, expandable system which forms a honeycomb shape when fully expanded. Material should be 4-8 inches in depth. Installation should allow small crews up to four people to emplace without any special lifting equipment. Wall thickness should be equal to or greater than 50 mils (1.27 mm). The intent of usage consists of soil stabilization, erosion control and load support. Material will be supplied on rolls, sheets or mats. Staples or other items required for installation shall be included as separate item on an each/package price.

BASIS OF ACCEPTANCE

The cellular confinement system/material shall be accepted on the basis of manufacturer's technical data certification and ASTM performance testing results, usage criteria and performance history. Bidders are to provide the County with manufacturer's technical data upon Bidders request.

MATERIAL CRITERIA

The range of material requirements are as follows:

- Wall thickness greater than or equal to 50 mils.
- Cell seam peel strength greater than 220 lbs.
- Quantity 500 SQ YD.

*The annual approximate requirements may vary. These quantities are an estimate for the purpose of preparing a bid.

C. SOIL REINFORCEMENT MATTING

SCOPE

This section covers the material details, quality requirements and method of application for approval of BIAxIAL soil reinforcement matting (Geogrids and Woven high-tenacity polypropylene yarns) as listed in NYSDOT TECHNICAL SERVICES APPROVED LIST OF GEOSYNTHETICS FOR HIGHWAY CONSTRUCTION – GEOGRIDS and as described in the Standard Specifications for Construction and Materials issued by New York State Department of Transportation, and addenda unless otherwise stated. The intended use is in embankments, road beds, bridge abutments or other locations requiring structural soil reinforcement.

GENERAL

The materials furnished on this contract must comply with approved specifications issued by either the NYSDOT Materials Bureau or as approved on a case by case basis by the County Superintendent of Highways. Materials must be of a flexible polypropylene, polyester yarn, PVC or equivalent biaxial geogrid with UV protected coatings. Material installation requires small crew sizes (2-3) without use of special handling/hauling equipment. Material will be supplied on rolls with staples or other fasteners required for installation. The cost of staples is additional at an each/package price.

BASIS OF ACCEPTANCE

Geogrid and Matting material shall be accepted on the basis of manufacturer’s technical certification, ASTM performance testing results, usage criteria and performance history and/or as approved on a case by case basis by the County Superintendent of Highways. Bidders are to include manufacturer's data upon request and roll dimensions are to be included with price/square yard.

MATERIAL CRITERIA

The range of material requirements are as follows:

Quantity (SY)*	1000	2000	5000	2000	1000	500	500
Wide Width Tensile Strength lb/ft.	2-3000	3-4000	4-5000	5-6000	6-7000	7-9000	10,000 and up

GEOGRID \$/SY

WOVEN \$/SY

*The annual approximate requirements may vary. These quantities are an estimate for the purpose of preparing a bid. Include roll dimensions available for each of the quantities/categories bid upon.

CONTRACT PRICE ADJUSTMENTS:

All prices submitted must remain firm for a period of one hundred twenty (120) days from the date of award. Beginning September 1, 2022 subsequent price adjustments will be considered by the County. All requests for price adjustments must be submitted to the County a minimum of thirty (30) days prior to the date of the requested price adjustment. The change in price structure (increase or decrease) must be based on fluctuations in the latest published Consumer Price Index (CPI) for all urban consumers, as published by the U.S. Department of Labor, Bureau of Labor Statistics which is available at <https://stats.bls.gov>.

If, during the Contract term, the awarded vendor is unable to meet contractual requirements in whole or in part based on the price structure of the contract, it shall immediately notify the County in writing. The County may, but is not required to, consider an adjustment in the contract terms and/or pricing.

Should the County in its sole discretion determine during the Contract term that the contract price structure results in prices which are unreasonable, excessive, or not truly reflective of current market conditions, and no adjustment in the contract terms and/or pricing is mutually agreeable, the County may terminate the contract through written notice to the vendor, purchase from an alternate source, or rebid the contract.

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BID FORM**

Company Name: _____

PART I GEOTEXTILES

Manufacturer: _____ Brand Name: _____

NAME OF MATERIAL (must be on NYSDoT approved list)	ROLL DIMENSIONS AVAILABLE (LIST)	APPLICATION	PRICE PER SQ. YD.
		B Geotextile Bedding	
		S Geotextile Separation	
		D Geotextile Drainage	
		SP Geotextile Slope Protection	
		ST Geotextile Stabilization	
		TC Turbidity Curtains	
		TC Turbidity Curtains <u>w/ flotation & weights, 6'</u>	

		SF Silt Fence	
		GM Geomembranes	
		PVD Prefabricated Vertical Drain with Connections	
		PCSD Prefabricated Composite Structural Drain	
<u>Erosion Control Sediment Logs 12" x 10' Am Excelsior (oe)</u>	12" x 10'		\$ ____ . ____ ea
<u>Erosion Control Sediment Logs 20" x 10' Am Excelsior (oe)</u>	20" x 10'		\$ ____ . ____ ea
Fabric Check Dam: Gully Guard or equal	7" x 4' 7" x 7'	Sediment only	\$ ____ . ____ ea
DrainGuard, Reusable	24" x 36"	Drop Inlet insert	\$ ____ . ____ ea
Storm Wattles	9" x 25'	in lieu of Silt Fence	\$ ____ . ____ ea

TOTAL BID \$ _____

WATERPROOF MEMBRANE ADHESIVE \$ _____ per gallon, please specify shipped in _____ gallons per container.

All prices are F.O.B. Jefferson County Highway Department Grounds, 21897 County Road 190, Watertown, New York 13601.

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BID FORM

Company Name: _____

PART II SOIL CONTROL REINFORCEMENT/EROSION ABATEMENT MATERIAL

Manufacturer: _____ Brand Name: _____

ITEM DESCRIPTION RATE	ROLL DIMENSIONS AVAILABLE (LIST)	PRICE PER SQ. YD.
Erosion Control Matting		
Completely Organic		
1 Dimension Mesh		
2 Dimension Mesh		
3 Dimension Mesh		
Completely Inorganic (life greater than 3 yrs.)		

Cellular Confinement System	ROLL DIMENSIONS AVAILABLE (LIST)	PRICE PER SQ. YD.	APPROXIMATE REQUIRED SQ. YDS.
Cell Seam Peel Strength (greater than 200 lbs.) Wall Thickness (greater than or equal to 50 mils)			500

Soil Reinforcement Matting Wide Width Tensile Strength Lb./Ft. Minimum (roll direction)	GEOGRID \$/SY	WOVEN \$/SY	APPROXIMATE REQUIRED SQ. YDS.
2-3000			1000
3-4000			2000
4-5000			5000
5-6000			2000
6-7000			1000
7-9000			500
10,000 and up			500

Attached Bid Checklist, Signature/Non-Collusive Page, and Iran Notice must be signed to complete the bid.

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BID CHECKLIST

The documents required to complete this bid are indicated below.

- () Insurance Certificates See Exhibit A, pages F-G
- (X) Iran Notice See Pages 24h – 24i

_____ We have reviewed and have submitted the items required under the Mandatory Submission Requirements.

_____ The Bid Page(s), Signature/Non-Collusive Page, and Iran Notice are completed and included.

_____ Deviations are noted and explained.

_____ Insurance Certificates are enclosed if required.

WAIVER OF IMMUNITY/NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:

1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
2. Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where 1, 2, and 3 above have not been complied with; provided, however, that in any case the bidder cannot make to foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where 1, 2, and 3 above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publications of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate of non-collusion as the act and deed of the corporation.

SIGNATURE PAGE ON REVERSE MUST BE SIGNED TO COMPLETE THE BID.

SIGNATURE PAGE

The undersigned proposes to furnish products or services to specifications included in this bid document, at the price(s) set forth, as required to meet the County's needs. Any deviation to the specifications must be noted on the bid form and fully explained or the deviations will not be considered part of the bid.

Deviations: Yes _____ No _____

By signing below I am certifying that I fully understand the complete requirements of the bid and agree to the non-collusive certification on the reverse of this page and additional documents as specified on the bid checklist. Bidder hereby acknowledges receipt of all addenda pertaining to this bid which are made part of the original bid specifications.

_____ COMPANY NAME

_____ ADDRESS (Principal Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ AUTHORIZED SIGNATURE

_____ PRINTED NAME

_____ TITLE

_____ DATE

_____ ADDRESS (Local Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ E-MAIL ADDRESS

Check One: Corporation _____ Partnership _____ Individual _____

Incorporated under the laws of the State of _____

Federal Identification # _____

State if authorized to do business in the State of New York: Yes _____ No _____

Names/Addresses of Partners:

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Iranian Energy Sector Divestment

Contractor hereby represents that said Contractor is in compliance with New York State General Municipal Law Section 103-g entitled “Iranian Energy Sector Divestment”, in that said Contractor has not:

- a. Provided goods and services of \$20 Million or more in the energy sector of Iran including but not limited to the provision of oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran; or
- b. Acted as a financial institution and extended \$20 Million or more in credit to another person for forty-five days or more, if that person’s intent was to use the credit to provide goods or services in the energy sector in Iran.

Any Contractor who has undertaken any of the above and is identified on a list created pursuant to Section 165-a (3)(b) of the New York State Finance Law as a person engaging in investment activities in Iran, shall not be deemed a responsible Bidder pursuant to Section 103 of the New York State General Municipal Law.

Except as otherwise specifically provided herein, every Contractor submitting a bid in response to this Request for Bids must certify and affirm the following under penalties of perjury:

- a. “By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each Bidder is not on the list created pursuant to NYS Finance Law Section 165-a (3)(b).”

Jefferson County will accept this statement electronically in accordance with the provisions of Section 103 of the General Municipal Law.

Except as otherwise specifically provided herein, any Bid that is submitted without having complied with subdivision (a) above, shall not be considered for award. In any case where the Bidder cannot make the certification as set forth in subdivision (a) above, the Bidder shall so state and shall furnish with the bid a signed statement setting forth in detail the reasons therefore. The County reserves its rights, in accordance with General Municipal Law Section 103-g to award the Bid to any Bidder who cannot make certification, on a case-by-case basis under the following circumstances.

1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
2. The County of Jefferson has made a determination that the goods or services are necessary for the County to perform its functions and that, absent such an exemption, the County of Jefferson would be unable to obtain the goods or services for which the Bid is offered. Such a determination shall be made by the County in writing and shall be a public document.

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Attachment
Certification Pursuant to Section 103-g
of the New York State
General Municipal Law

- A. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each Bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the Bidder cannot make the foregoing certification set forth in Paragraph A above, the Bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to whom the bid is made, or his designee, may award a bid, on a case by case basis under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods and services for which the contract is offered. Such a determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name