STATEMENT OF WORK
Blanket Purchase Agreement
Razor Ribbon and Perimeter Security

A. INTRODUCTION

The Federal Bureau of Prisons protects the American public by confining offenders in the controlled environments of prisons and community-based facilities that are safe, humane, cost-efficient, and appropriately secure, and that provide work and other self-improvement opportunities to assist offenders in becoming law-abiding citizens. To achieve this goal, the Bureau of Prisons requires that the secure perimeter meet all specifications and guidelines for the security of each specific institution.

The Federal Bureau of Prisons (FBOP), Facilities Management Branch located at 320 First St, NW in Washington D.C. intends to make a single award to a responsible entity that will provide contracted supplies to replace and/or establish new Perimeter Security fence materials as well as Razor Ribbon and associated materials via a blanket purchase agreement (BPA). The vendor is responsible for all customer service, shipping, to all Bureau of Prisons institutions who make a purchase utilizing the BPA. All manufacturers' recommendations will be required to be implemented.

This Blanket Purchase Agreement (BPA) contract shall be a base year with 4 (four) additional option years.

B. SCOPE OF WORK

1. Razor Wire

The awarded vendor will agree to supply the Federal Bureau of Prisons Institutions Razor Wire and associated Perimeter Security materials upon individual purchase via a Blanket Purchase Agreement. Each institution will be responsible for selecting the proper make and model to fit their individual needs. Specifications are listed below and the awarded vendor shall provide a selection that meets each option or combination of options found listed.

a.) Applicable References

The below listed reference guides must be considered and adhered to for all products supplied under this BPA;
ASTM A 123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A 176 – Specification for Stainless and Heat-Resting Chromium Steel Plate, Sheet, and Strip
ASTM A 580 – Specification for Stainless and Heat-Resisting Steel Wire
ASTM A 764 – Specification for Steel Wire, Carbon, Drawn, Galvanized and Galvanized at size for mechanical Springs
ASTM A 666 – Standard Specification for Annealed or Cold-Worked Austenitic Stainless-Steel Sheet, Strip, Plate, and Flat Bar
ASTM A 780 – Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
ASTM A 1011 – Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength
ASTM B 117 – Standard Practice for Operation Salt Spray (Fog) Apparatus
ASTM F 1043 – Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework
ASTM F 1910 – Standard Specification for Long Barbed Tape Obstacles
ASTM F 1911 – Standard Practice for Installation of Barbed Tape

b.) Materials

A. FRAMEWORK

i. General: The framework shall be in accordance with ASTM F 1043, Group IC. (SS-40) as modified herein.
ii. Tubular Post: High strength pipe shall be manufactured by cold rolling and radial frequency welding. The strength requirements shall conform to ASTM F 1043 Group IC. The coatings shall conform to ASTM F 1043 Group 1 Type B, D (SS-40).
a. Performance: All tubular frameworks shall meet the following requirements. Post, rails and braces shall demonstrate the ability to withstand testing in accordance with ASTM B 117 as follows:
Exterior: 1000 hours with maximum of 5% red rust
Interior: 650 hours with maximum of 5% red rust
iii. Repair: Zinc-rich paint will be used for repairing surfaces damaged by field welding. Touch up welded areas with zinc-rich paint conforming to ASTM A 780.
iv. Size & Weight: In accordance with ASTM F 1043, Group IC.
Use Size O.D. Wall Thickness Weight
(SS 40)
Rails 1-5/8” 1.660” (42.16 mm) 0.111” (2.82 mm) 1.84 lb/ft (2.74 kg/m)
Line Post 3-1/2” 3.500” (88.90 mm) 0.160” (4.06 mm) 5.71 lb/ft (8.50 kg/m)
End Post 4” 4.000” (101.60 mm) 0.160” (4.06 mm) 6.56 lb/ft (9.76 kg/m)
B. NON-REINFORCED BARBED TAPE – 30” INSTABARRIER®
i. Barbed tape coils shall be 30" plus or minus 1” in diameter with 101 loops per roll. Tape shall be fabricated from ASTM A 666 spring quality austenitic stainless steel, minimum hardness of Rockwell (30 N) 50-55, nominal 0.025" thick, nominal 1.210" width prior to fabrication.
ii. Clusters of four barbs having a maximum tip radius of 0.005" shall be punched 4" on center. Barb cluster width shall be 1.25”. Barb clusters shall have a minimum length of 2.25" tip-to-tip. Barb shall be alternately offset from the tape center line 0.15"-0.45”.
iii. Adjacent coiled loops shall be alternately spot welded at five points (30”) of approximately equal radius Spacing about the coil loop perimeter. Welded attachments shall withstand a minimum 400 lb load uniformly distributed about the periphery. The 30" diameter coils with five-point uniform radial connections shall interact to producing a concertina coil with a 12" opening between adjacent coil loops. Each coil shall be extended to a maximum of 50’.
C. WIRE-REINFORCED BARBED TAPE – 30” SUPERMAZE®
i. Barbed Tape Coils shall be 30" plus or minus 1” in diameter with 51 loops per roll. Each loop shall contain 23 plus or minus 1 barb cluster per loop. Tape shall be fabricated from ASTM A 176 Stainless Steel strip hardened to Rockwell (30 N) 35-40, 0.025" thick, 1" width prior to roll forming.
ii. Clusters of four barbs having a maximum tip radius of 0.005 inches shall be punched 4" on center. Barb clusters shall have a minimum length of 2.25" tip-to-tip. Barbs shall be alternately offset .15”-.45” from the plane of the tape centerline.
iii. Adjacent coiled loops shall be alternately clipped at five points of approximately equal radius spacing about the coil loop perimeter. Clipped attachments shall withstand a minimum 200 lb. load uniformly distributed about the periphery. The 30" diameter coils and five-point uniform radial connections shall interact to produce a concertina coil with a 12" opening between adjacent coil loops. Each coil shall be extended to a maximum of 25’.
iv. The stainless-steel strip shall be permanently cold clenched around a 0.098" diameter 304 austenitic stainless steel core wire conforming to ASTM A 580, having a minimum tensile strength of 130 ksi. The barbed tape shall have a minimum 230 degree wrap about the core wire. Barbed tape clips placed around the circumference of the tape shall be such that adjacent loops are rigidly fixed, preventing any slippage of one past another at the point of attachment. Clips shall be fabricated from 0.065" by 0.375" stainless steel and capable of withstanding a pull of 200 lb.
Or
v. The stainless-steel strip shall be permanently cold clenched around a 0.098" diameter galvanized core wire. The core wire shall be galvanized per ASTM A 764, Finish 2, Class II, Type B with a minimum tensile strength of 220 ksi. The barbed tape shall have a minimum 230 degree wrap about the core wire. Barbed tape clips placed around the circumference of the tape shall be such that adjacent loops are rigidly fixed, preventing any slippage of one past another at the point of attachment. Clips shall be fabricated

from 0.065" by 0.375" stainless steel and capable of withstanding a pull of 200 lb.
D. WIRE-REINFORCED BARBED TAPE – 30” DETAINER HOOK®
i. Barbed tape shall be 30” plus or minus 1” diameter concertina style coil consisting of 51 loops, each loop shall contain 23 plus or minus 1 barb cluster per loop. Adjacent coil loops shall be alternately clipped together at 5 points about the circumference to produce the concertina effect upon deployment. Spacing between attachment points when deployed shall be 12” plus or minus 2”.
ii. The barbed tape shall be fabricated from Type 430 stainless steel conforming to ASTM A 176. Stainless steel shall be 1.350” wide before fabrication by 0.025” thick, and shall be hardened to Rockwell (30N) 35-40. The stainless-steel strip shall have clusters of eight (8) barbs. The main barb length is minimum of 1.25” long, angled approximately 24° above the centerline of tape, punched at 4” centers. The minor (retainer) barb is located 0.70” ± 0.05” from the main barb tip. Retaining barb shall be 0.10” nominal length.
iii. Fabricated (punched) barbed tape shall be reinforced by permanently cold clenching it around a reinforcing wire. Reinforcing wire shall be 0.098” diameter, 300 series austenitic stainless steel conforming to ASTM A 580, with a minimum tensile strength of 130 ksi. The stainless-steel barbed tape shall be permanently roll formed about the core wire with a minimum wrap of 230 degrees. The finished reinforced barbed tape shall be a minimum 0.260” wide in the throat area and shall exhibit two cut resistant flanges. These flanges shall taper off in the immediate vicinity of the barb clusters to allow maximum barb penetration.
Or
iv. Fabricated (punched) barbed tape shall be reinforced by permanently cold clenching it around a reinforcing wire. Reinforcing wire shall be 0.098” diameter galvanized steel wire per ASTM A 764, Finish 2, Class II, Type B with a minimum tensile strength of 220 ksi. The stainless-steel barbed tape shall be permanently roll formed about the core wire with a minimum wrap of 230 degrees. The finished reinforced barbed tape shall be a minimum 0.260” wide in the throat area and shall exhibit two cut resistant flanges. These flanges shall taper off in the immediate vicinity of the barb clusters to allow maximum barb penetration.
v. Reinforced barbed tape shall be converted to concertina by clipping alternate adjacent loops at 5 places about the circumference, continuous along the entire roll’s length. Stainless steel clips shall be 0.065" by 0.375" and mechanically closed to withstand a minimum pull load of 200 lb. Each coil shall be extended to a maximum of 25’.
E. INSTALLATION TIES
i. The Contractor shall use one of the following methods:
a. Wire Ties used to attach security coils to the chain link fabric, tension wire, and other rows of barbed tape shall be austenitic stainless steel, 7" ±1" long, 16 gauge thick, twistable ties. No less than three ties shall be used for each 1 ft of installed length of barbed tape used. The wire shall have 3 complete twists. Wire ties shall draw the fence fabric or adjacent coil loops tightly together.
b. Alternative “Hog Rings” used to attach security coils to the fences shall be 12.5 gauge stainless steel and shall be used to fasten barbed tape to chain link fabric, tension wire, and other rows of barbed tape. No less than three hog rings shall be used for each 1 ft of installed length of barbed tape. Hog rings shall not be used where electronic detection is an integral part of the fence system.
F. GROUND STAKES
i. Ground stakes will be #3 galvanized reinforcing rods 18" ±1" long with a 180□ end hook 5" in length.

c. Products

Security Wire, Barbed Tape, reinforced 30-inch diameter (Offset)
Security Wire, Barbed Tape, Non-Reinforced 30-inch diameter (Instabarrier)
Installation ties, Stainless
Ground Anchors, Galvanized
Hog rings, stainless steel

C. QUALITY ASSURANCE

Technical support and trouble shooting will be made available to on site Bureau of Prisons employees responsible with the installation and maintenance of the supplied units by either the vendor or manufacturer.

All current seismic zone requirements, environmental compliance, Life Safety, NFPA, ADA-ABA, and Federal, State and Local codes and regulations will be considered for each product being supplied per this agreement.

Products and materials provided by the contractor will adhere to and shall be consistent with the most current industry standards, the Underwriters Laboratories (UL) and the General and the National Electric Code (NEC), and the US up to date Department of Energy standards for commercial tankless water heaters.

Replacement parts, if needed, shall be currently manufactured and readily available through authorized dealers in all areas of the United States or shall have the ability to be overnight shipped to anywhere in the continental United States. Such certification must be verified in writing thru submittals by the manufacturer and submitted to the COR on a timely basis.

D. TESTING AND ACCEPTANCE

The facility at which the product is installed shall notify the vendor within thirty (30) working days of initial installation, in the event the unit failed. If troubleshooting has not resolved the issue beyond the 30-working day mark, a new product shall be provided and the old product shall be shipped back to the vendor or disposed of at the vendors request. A complete plan detailing start-up and general maintenance schedules shall be provided to the institution making the purchase per the manufacturer's specifications.

E. Delivery of Materials:

All products supplied under this BPA are to meet the local institution's delivery requirements. A thirty (30) day delivery shall be expected upon receipt of order, FOB destination.

As a general rule for correctional institutions, any facilities related deliveries which are directly shipped to the institution can be received between the hours of 8:00 a.m. to 2:00 p.m., Monday through Friday, excluding Federal Holidays. At no point will a Bureau of Prisons (BOP) staff member receive or sign for a delivery if the delivery is made outside of locally established time frames. It will be incumbent on the supplier to ensure this standard is met by any delivery or third party.

F. Payments

All products ordered shall be capable of being paid for by either PO or simple government credit card purchasing procedures. Receipts will be sent via email to the ordering party