

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

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| Scouting Number | 2024-283 |
| Item to be Scouted | 69kV and/or 115kV wave traps |
| Days to be scouted | 30 |
| Response Due By | 10/18/2024 |
| Description | <p>69kV and 115kV Wave Traps: A wave trap is used to “trap” the high-frequency (>60Hz) signal used to facilitate communications between the protective relays at the terminals of a transmission line. The signal is trapped on the individual line segment to avoid interference with the communications signal used on adjacent transmission line segments, while allowing the 60 Hz current to pass freely.</p> <p>Ratings applicable to 69kV / 138kV Class Wave Traps: Inductance: 0.265 mH Rated Frequency: 60 Hz Rated Current: 1200 or 2000A (as appropriate) Short-time Current/Dur. 36 kA / 2 s Weight: 630 lb Standard: ANSI C93.3/1995</p> <p>For additional information: https://electricaltech.in/wave-trap-coupling-capacitor/</p> |
| Notify Requester Immediately | |
| State item to be used in | Kansas |

Section 2: Technical Information

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| Type of supplier being sought | Manufacturer |
| Reason | BABA |
| Describe the manufacturing processes (elaborate to provide as much detail as possible) | Electronic Assembly |
| Provide dimensions / size / tolerances / performance specifications for the item | <p>69kV and 115kV Wave Traps: A wave trap is used to “trap” the high-frequency (>60Hz) signal used to facilitate communications between the protective relays at the terminals of a transmission line. The signal is trapped on the individual line segment to avoid interference with the communications signal used on adjacent transmission line segments, while allowing the 60 Hz current to pass freely.</p> <p>Ratings applicable to 69kV / 138kV Class Wave Traps: Inductance: 0.265 mH Rated Frequency: 60 Hz Rated Current: 1200 or 2000A (as appropriate) Short-time Current/Dur. 36 kA / 2 s Weight: 630 lb Standard: ANSI C93.3/1995</p> |

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| List required materials needed to make the product, including materials of product components | <p>A transmission line wave trap, also known as a line trap, is made of several materials, including:</p> <p>Aluminum The main coil of a line trap is made of stranded aluminum wire or cable. The current carrying capacity of the coil is determined by the number of strands.</p> <p>Resin The aluminum wire or cable is encapsulated in resin impregnated fiberglass.</p> <p>Epoxy resin and fiberglass Spacer bars made of epoxy resin and fiberglass are used to create cooling ducts between the layers of the coil.</p> <p>Insulation The aluminum wire or cable is insulated to the appropriate insulation temperature index.</p> <p>Weatherproof enclosure The tuning device is packed in a weatherproof enclosure filled with resin.</p> |
| Are there applicable certification requirements? | No |
| Are there applicable regulations? | No |
| Are there any other standards, requirements, etc.? | Yes |
| Details | ANSI C93.3/1995 |
| NAICS 1 | 237130 Power and Communication Line and Related Structures Construction |
| NAICS 2 | |
| Additional Technical Comments | |

Section 4: Business Information

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| Estimated potential business volume | 115kV Wave Traps: Qty = 2 69kV Wave Traps: Qty = 5 |
| Estimated target price / unit cost information (if unavailable explain) | 115kV Wave trap ~ \$30K each; 69kV Wave trap - \$27K each |
| When is it needed by? | ~ 6 months (flexible) |
| Describe packaging requirements | Standard for Transport |
| Where will this item be shipped? | Kansas |

Additional Comments

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| Is there other information you would like to include? | NA |
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Line Trap

