

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: Vacuum Insulating Glass (VIG) with minimum R-value of 16

State item to be used in: Pennsylvania

Describe the Item:

Please describe the item application/the end use of item. Vacuum Insulating glass (VIG) with R-value of 16 for use as vision glass in exterior walls of new commercial building.

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify) BABA

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible). manufacturing and fabrication of vacuum insulating glass (VIG) used as vision glass for commercial building exterior walls

Provide dimensions / size / tolerances / performance specifications of the item. 5' x 8' vacuum insulating glass (VIG) units with minimum R-value of 16; thickness of insulating glass unit is 1.07 inches (27.3 mm)

List required materials needed to make the product, including materials of product components, if applicable. glass, low-e coatings applied to glass, argon, metal seal and vacuum space

Are there applicable certification requirements?

Yes

No

Please Explain: Needs to be compliant with ASTM (American Society for Testing and Materials), Low-e insulating glass standards as well as NFRC (National Fenestration Rating Council) energy requirements.

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain: Insulating glass needs to be compliant with the 2018 International Energy Conservation Code (IECC) and NFRC (National Fenestration Rating Council) energy requirements for glass.

Are there any other standards, requirements?

Yes

No

Please Explain:

Additional Comments:

Additional technical comments: Vacuum insulating glass must carry a minimum 10-year warranty.

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 25,000 SF +/- of glass for one new building

Estimated Target Price / Unit Cost Information: In a material cost range of \$55 / Square foot to \$75 / Square foot

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) 15 months +/-

Describe packaging requirements (i.e., individually/ group packaging). Individually wrapped

Where will this item be shipped? Scranton, PA

Additional Comments:

Is there other information you would like to include? We are aware of only 1 company that provides the vacuum insulating glass (VIG) described in this request and that company is Vitro Architectural Glass which is a U.S. glass manufacturer, but this particular vacuum insulating glass from Vitro Architectural Glass is manufactured overseas. NIST funded project