

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2024-290
Item to be Scouted	Ceramic monolithic honeycomb
Days to be scouted	30
Response Due By	10/18/2024
Description	<p>Looking for a manufacturer of a prototype of a ceramic monolithic honeycomb - See pictures attached.</p> <p>Ideally, manufacturer should have capabilities to expand production.</p> <p>Common ones have straight channels (like in picture attached); our design comes with SPIRAL CHANNELS.</p> <p>Used in a variety of applications, from automotive to air filtration to oil and gas processing. If a mold is required (extrusion and molding case) the manufacturer should be able to provide the mold or die.</p>
Notify Requester Immediately	No
State item to be used in	Washington

## Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	New product startup
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Ceramic Extrusion, Ceramic 3D printing, or Ceramic Molding
Provide dimensions / size / tolerances / performance specifications for the item	Shape could be cube or cylinder. If cubic: about 6 in. x 6 in. x 6 in. or close to these numbers. If round (like in pictures attached), about 5 - 6 in. in diam.; 6 in length
List required materials needed to make the product, including materials of product components	Ceramic: cordierite is the most common. Others options include: alumina, silica, mullite, etc.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
NAICS 1	327110 Pottery, Ceramics, and Plumbing Fixture Manufacturing
NAICS 2	
Additional Technical Comments	standard ceramic monoliths (having straight channels) have been produced for a while. We seek the same produced having Spiral Channels.

## Section 4: Business Information

Estimated potential business volume	Not an exact number yet. A Few prototypes to start (15-20). Once production is scaled the demand is dorecasted to >100.000 per year.
Estimated target price / unit cost information (if unavailable explain)	standard ones sell for about \$20 a liter. Our spiral channel design: TBD.
When is it needed by?	Sooner is better; but we realize this may take some time.

Describe packaging requirements	basic enough so it will not crack (it's ceramic) when in shipping
Where will this item be shipped?	TBD

## Additional Comments

Is there other information you would like to include?	If successfully produces, it will have a huge market, making WA a major hub for ceramic industry..
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