

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-400
Item to be Scouted	Chemical Sorbent
Days to be scouted	30
Response Due By	01/17/2025
Description	Sorbent substance in granular form that is used for environmental purposes to catalyst reactions with captured CO2
Notify Requester Immediately	No
State item to be used in	Ohio

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)	<p>Two Phases of Production – This opportunity encompasses both and could be fulfilled by two separate manufacturers or organizations.</p> <p>Phase 1: Batch reaction process requiring a reactor system designed for precision and control. Key features include:</p> <ul style="list-style-type: none"> • Temperature control systems. • Agitation mechanisms. • Pressure regulation for specific reaction conditions. <p>Materials must ensure compatibility with reactants and avoid contamination. Equipment such as centrifuges or drying systems (e.g., vacuum or spray dryers) will prepare the reacted material for the next stage.</p> <p>Phase 2: Extrusion of the powder with a binder to create the final product, followed by downstream processes to form the granular material (similar in form to dog food or wood composites).</p>
Provide dimensions / size / tolerances / performance specifications for the item	The material should come out of Phase 1 as a fine powder and is processed into a granular form in Phase 2. Final granule size to be within 1-3 mm.
List required materials needed to make the product, including materials of product components	Raw materials will be sourced and provided. Client/Company that is making the request will provide the required raw materials.
Are there applicable certification requirements?	Yes
Details	ISO 45001 ISO 9001 and ISO 14001 additional
Are there applicable regulations?	Yes
Details	International compliance with GMP (Good Manufacturing Practices), USP (United States Pharmacopeia), HACCP (Hazard Analysis Critical Control Point), REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals), or equivalent standards is ideal. Even if not certified, manufacturer should be compliant with GMP or ISO 9001 Quality Standard protocols.
Are there any other standards, requirements, etc.?	No
NAICS 1	325412 Pharmaceutical preparation manufacturing
NAICS 2	325998 All other miscellaneous chemical product and preparation manufacturing

Additional Technical Comments	
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Section 4: Business Information

Estimated potential business volume	Initial order of 5 kilos (singular-first batch) for quality and consistency, with potential for increased volume in the future
Estimated target price / unit cost information (if unavailable explain)	Negotiated once manufacturing capacity assessment.
When is it needed by?	TBD. No later than Q3 2025.
Describe packaging requirements	Foil-backed or lined bags constructed with multi-layered materials to provide a robust barrier against moisture, oxygen, and contaminants. Packaging will likely be sourced by the requestor.
Where will this item be shipped?	TBD – International Customers

Additional Comments

Is there other information you would like to include?	
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