

Supplier Scouting Opportunity 2023-019

Item to be scouted: metal coating process for carboxymethylcellulose fiber

Item description:

Center has a client trying to identify a suitable US facility that can accommodate pilot scale up manufacturing services related to a metal coating process for carboxymethylcellulose fiber.

Technical Information

Supplier Information

Type of supplier being sought: Manufacturer

Reason for scouting submission: Company have not been able to find a domestic company that can do this.

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible): The fiber treatment process requires the use of metal salts and a mixed solvent system of water and volatile organics (ethanol) due to the fiber type being soluble/swellable in 100% water. Typical liquid ratio of the process is on the order of 1:10 (w/v) that may utilize up to 30 L of ethanol in a single 5 kg batch. Some process optimization will be needed and the facility would work with the sponsor's scientists/engineers for optimization. Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream. For initial stages, 50-100 kg is the total amount needed and can be done in smaller batch sizes (e.g., 5 kg). Ideally this pilot material will be available before June 2023. I

Provide dimensions / size / tolerances / performance specifications for the item: Typical liquid ratio of the process is on the order of 1:10 (w/v) that may utilize up to 30 L of ethanol in a single 5 kg batch. Some process optimization will be needed and the facility would work with the sponsor's scientists/engineers for optimization. Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream.

List required materials needed to make the product, including materials of product components: See above descriptions

Are there applicable certification requirements?: No

Are there applicable regulations?: No

Are there any other standards, requirements, etc.?: No

Business Information

Volume and pricing

Estimated potential business volume: Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream. For initial stages, 50-100 kg is the total amount needed and can be done in smaller batch sizes (e.g., 5 kg)

Estimated target price / unit cost information (if unavailable explain): Company is focused on looking for manufacturer that can produce domestically

Delivery requirements

When is it needed by?: Ideally this pilot material will be available before June 2023

Describe packaging requirements: Flexible

Where will this item be shipped?: Ithaca, NY

Additional Information

Agree (click to read agreement): Yes