

Entity Name: South Dakota State Government
Event Number: 9832
Event ID: 24RFP9832
Event Name: Biological Hood
Requested By: Missy Schuetzle
Created By: Missy Schuetzle
Due By Date: 01/26/2024 05:00 PM Central Time
Q&A Cutoff Date: 01/12/2024 2:31 PM Central Time
Invitation Type: Invitation Only
Assigned Commodities: 415-52 Fume Hoods, Laminar Flow Hoods, Biological Cabinets and Isolators, etc.
Allow Supplier Terms and Conditions: No
Public Responses: No
Display Awardee: Display
Posting Board Status: Published
Event Status: Event Under Review

Section #: Name:

1 Section 1 - 24RFP9832

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2 SCOPE

The project will include at least 1 up to 3 Biological Safety Hoods/Cabinets. This document defines the requirements for this system. It describes overall requirements that must be met to produce the specific equipment requested. This scope covers procurement, delivery, and start-up support of the specified equipment; no installation is required.

This URS is the input document for:

- Equipment procurement purposes
- Equipment sizing
- Functional and technical specifications

Bids will be evaluated based on compliance with the URS, pricing, lead time, and the company's experience and track record as they pertain to the relevant equipment. See Evaluation Criteria below.

3 BACKGROUND

The Dakota Bioproducts Innovation Institute is a research facility for the development of high-quality bioproducts. A biological safety cabinet is a crucial piece of microbiology safety and necessary to reduce the potential of cross contamination of different microbial products. Microbiology and fermentation are fundamental technologies in the advancement of new bio-based products. Contamination is a constant threat, as selective measures in most GMO organisms are not allowed. In that instance, and for good microbiological practice, having a biological safety hood/cabinet is needed for maintaining sterility throughout the process.

4 PROCESS DESCRIPTION

Biological safety hoods/cabinets are pretty basic, they are an isolated area that is highly cleanable, with generally a filtered ventilation space associated and the additional capability to sterilize with UV light. The hoods are self-standing, without the need to be connected to a building HVAC system, have power, light, and are generally stainless steel. Typically these are bench style, with the capability to sit at them with adjustable height and have a sash that can be lowered to maintain a sterile environment.

5 BASIS OF DESIGN

5.1 Capacities

Biological safety hood/cabinet must be 4-6 feet long, with the capacity to sterilize with surface spray and built in UV capability. As there will be the potential for multiple simultaneous projects to occur, we will likely need between 1 and 3 of these.

5.2 Skidded Construction

N/A

5.3 Health, Safety and Environment

The biological safety hood/cabinet will be independently tested and certified to NSF/ANSI 49. Filters will be replaceable and tracked to allow users to know when they need to be replaced.

5.4 Operation, personnel and automation

N/A

5.5 Materials of Construction

Stainless steel surface within the cabinet/hood.

5.6 Reliability & maintenance

Hood must be reliable for 24/7/365 operation, with mechanisms in place to ensure that the user is aware if something is malfunctioning via alarm.

Terms and Conditions

ESM Sourcing Terms

None

General Terms and Conditions

None

Event Specific Terms and Conditions

See attached document