

Entity Name: South Dakota State Government
Event Number: 9815
Event ID: 24RFP9815
Event Name: Solvent/Chemical Hood
Requested By: Missy Schuetzle
Created By: Missy Schuetzle
Due By Date: 01/22/2024 05:00 PM Central Time
Q&A Cutoff Date: 01/09/2024 11:14 AM Central Time
Invitation Type: Invitation Only
Assigned Commodities: 165-94 Vent Hoods and Exhaust Systems, Range; 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 - 24RFP9815

Do not submit responses through ESM Sourcing as this is for informational purposes only. Please download the attached document and follow submittal instructions.

2 SCOPE

The project will include a new floor mounted chemical hood. 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 floor mounted chemical fume hood is a critical piece of infrastructure. This hood space allows for pilot scale equipment to potentially be rolled into it—such that we can mitigate risks around chemical exposure, headache inducing smells, and runaway chemical reactions.

4 PROCESS DESCRIPTION

A floor mounted hood allows for the user to either fix a heavy piece of equipment or roll in a dart mounted piece to perform a function within a safely ventilated area. These are commonplace in most pilot facilities, and allow a wider array of bio- products to be generated. Often times products generated from agricultural residues can have side reactions during processing that create a noxious or irritating odor, this equipment provides a place to continue work while maintaining a safe environment.

5 BASIS OF DESIGN

5.1 Capacities

The solvent floor hood is designed with a high performance by-pass airflow in mind, it is easily accessible with a sliding sash to allow taller and larger items in it as compared to a bench top mounted hood. Interior surfaces are chemically resistant and cleanable surfaces. The space has its own lighting and alarm system to indicate if it is properly working or not.

5.2 Skidded Construction

NA

5.3 Health, Safety and Environment

Hood will be CFR29 (part 1910), SEFA1, NFPA 45, ASTM E84-098C, ASHRAE 110, ANSI Z9.5, UL 61010-1, CAN/CCSA C22.2 No.61010-1, and UL1805 conforming.

5.4 Operation, personnel and automation

Hood will have alarm system to alert user if functioning properly.

5.5 Materials of Construction

N/A

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.

Terms and Conditions

ESM Sourcing Terms

None

General Terms and Conditions

None

Event Specific Terms and Conditions

See attached document