
REQUEST FOR BID
10 Ton Monorail Crane
South Dakota Science and Technology Authority
SDSTA Purchase Agreement #28424
Date August 21, 2025

The South Dakota Science and Technology Authority (SDSTA) is seeking bids for a 10 ton wire rope monorail crane at the Sanford Underground Research Facility (SURF). Documents included in this Request for Bid include:

- A. This Request for Bid
- B. Insurance Requirements
- C. Environment, Safety and Health Requirements
- D. Draft Purchase Agreement
- E. Federal Terms and Conditions

1.0 Background

SDSTA is a quasi-governmental agency established by the State of South Dakota to operate and manage SURF at the former Homestake Gold mine in Lead, SD. This facility has been rehabilitated and developed to support a variety of scientific experiments, including physics, biology, geology, and others.

SDSTA plans to replace the existing hoist and mono-rail crane within the Ross Headframe to increase lifting capacity and operational efficiency. The Ross Headframe serves as the designated location for offloading and assembly site for components that will be delivered to sections of the underground laboratory. The equipment supplied under these specifications shall be the manufacturer's latest model.

2.0 Scope

The general specifications of the monorail crane for which we are requesting bids are as follows:

- 2.1 Crane Style: Electric Underhung Monorail
 - 2.1.1 Monorail Beam – S20x66 beam x 41'7" length
 - 2.1.1.1 Beam Flange Width: 6.26 Inches
- 2.2 Hoist Capacity: 10 tons (20,000 lbs.)
- 2.3 Hoist Type: Wire Rope
- 2.4 Power Available: 480 VAC 3PH
- 2.5 Power Transfer: Festoon or Enclosed Busbar (length of beam is 41'7")
- 2.6 Hook Height (Distance from beam to floor): ~28'
- 2.7 Trolley Type: Electrically Driven (Underhung)
- 2.8 Control System (Hoist and Trolley): Wireless Remote
- 2.9 Safety Features and Compliance: ASME B30.16 and B30.17
 - 2.9.1 Overload Protection

- 2.9.2 Emergency Stop
- 2.9.3 Braking System
- 2.9.4 Overtravel Protection

3.0 SDSTA Additional Requirements

- 3.1 Inbound Freight to Lead, SD 57754
- 3.2 Complete installation, commissioning and load testing within 60 days of receipt of all required components.

4.0 Schedule3

The activities noted in the Scope section above should commence following the award of the contract. The schedule for completion of this project is negotiable and flexible to accommodate the contractor's availability. The proposed schedule for the project is:

RFB Posted.....	08/21/2025
Register for Site Visit by 2:00PM	09/04/2025
Pre-bid Site Visit at 7:15 AM.....	09/09/2025
Questions Due 2:00PM	09/12/2025
Questions & Answers Posted 4:00PM	09/15/2025
RFB Responses Due.....	09/18/2025
Purchase Agreement Awarded By (Target).....	09/23/2025

5.0 Bid Elements

The bid in response to this RFB must contain the following:

- 5.1 Cost of the crane, controls and power transfer device.
- 5.2 Cost for installation, commissioning and load test.
- 5.3 Deviations from Scope
- 5.4 Freight Cost
- 5.5 Lead Time of Unit

6.0 Bid Requirements

- 6.1 Proposers should submit an electronic copy of the bid in PDF format to Eva M. Omdahl at eomdahl@sanfordlab.org.
- 6.2 Prospective proposers must coordinate with Eva M. Omdahl regarding attendance at the site visit in Lead, SD.
- 6.3 Questions must be sent by email to Eva M. Omdahl at eomdahl@sanfordlab.org. Answers will be emailed to all prospective proposers and posted to the sanfordlab.org website.

- 6.4 The bid period may be extended at the discretion of the SDSTA based on the quantity and/or complexity of questions. Any notices of extension of time to respond will be distributed to all prospective proposers.
- 6.5 All communications regarding this procurement between RFB release and purchase agreement award shall be directed to Eva M. Omdahl. Communications with other SDSTA staff regarding this procurement in advance of the purchase agreement award are not allowed.

7.0 Selection Process

The SDSTA will review all submitted bids for adherence to this request's requirements and capabilities and select the firm providing the Lowest Cost – Technically Acceptable bid.

Revision History

Rev	Date	Section	Paragraph	Summary of Change	Authorized by
01	5/17/2022	NA	NA	Initial issue	CCR 573
02	12/1/2022	NA	NA	Change document number from OC to COM	CCR 655